SARANATHAN COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai-25)

Venkateswara Nagar, Panjappur, Tiruchirappalli - 620 012, Tamil Nadu.

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CRITERION: 1.1.1

Institution has the mechanism for well-planned curriculum delivery and documentation.

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SARANATHAN COLLEGE OF ENGINEERING, TRICHY-12

Academic Planner for 2022 - 23 Odd Semester - III and IV YEAR UG

AUG'22	DAY	DETAILS	Day order	working days	SEP'22	DAY	DETAILS	Day order	working days	OCT'22	DAY	DETAILS	Day order	working days	NOV'22	DAY	DETAILS	Day order	working days	DEC'22	DAY	DETAILS	Day order	working days
01	MON				01	THU		IV	11	01	SAT	Holiday			01	TUE		II	55	01	THU	Univ. Theory Exam commences		
02	TUE				02	FRI		V	12	02	SUN	Gandhi Jayanthi Holiday			02	WED		III	56	02	FRI			
03	WED				03	SAT		III	13	03	MON	Holiday			03	THU		IV	57	03	SAT	Holiday		
04	THU				04	SUN	Holiday			04	TUE	Ayudha Pooja Holiday			04	FRI		V	58	04	SUN	Holiday		
05	FRI				05	MON	Teacher's Day	I	14	05	WED	Vijayadhasami Holiday			05	SAT	Holiday			05	MON			
06	SAT	Holiday			06	TUE		II	15	06	THU		IV	36	06	SUN	Holiday			06	TUE			
07	SUN	Holiday			07	WED		III	16	07	FRI		V	37	07	MON		I	59	07	WED	Flag Day		
08	MON				08	THU		IV	17	08	SAT		III	38	08	TUE		II	60	08	THU			
09	TUE				09	FRI		V	18	09	SUN	Milad-un-Nabi Holiday			09	WED		III	61	09	FRI			
10	WED				10	SAT	Holiday			10	MON	IA Test 2	I	39	10	THU	IA Test 3	IV	62	10	SAT	Holiday		
11	THU	Avani Avittam			11	SUN	Holiday			11	TUE	IA Test 2	II	40	11	FRI	National Education Day IA Test 3	V	63	11	SUN	Holiday		
12	FRI	International Youth Day			12	MON	IA Test 1	I	19	12	WED	IA Test 2	III	41	12	SAT	IA Test 3	I	64	12	MON			
13	SAT				13	TUE	IA Test 1	II	20	13	THU	IA Test 2	IV	42	13	SUN	Holiday			13	TUE			
14	SUN	Holiday			14	WED	IA Test 1	III	21	14	FRI	IA Test 2	V	43	14	MON	Children's Day IA Test 3	I	65	14	WED			
15	MON	Independence Day Holiday			15	THU	Engineer's Day IA Test 1	IV	22	15	SAT	IA Test 2	I	44	15	TUE	IA Test 3	II	66	15	THU			
16	TUE				16	FRI	IA Test 1	V	23	16	SUN	Holiday			16	WED	IA Test 3	III	67	16	FRI			
17	WED	Classes commence for V & VII semester	III	1	17	SAT	IA Test 1	I	24	17	MON		I	45	17	THU		IV	68	17	SAT	Holiday		
18	THU		IV	2	18	SUN	Holiday			18	TUE		II	46	18	FRI	Syllabus Completion	V	69	18	SUN	Holiday		
19	FRI	Krishna Jayanthi Holiday			19	MON		I	25	19	WED		III	47	19	SAT		II	70	19	MON			
20	SAT	Holiday			20	TUE		II	26	20	THU		IV	48	20	SUN	Holiday			20	TUE			
21	SUN	Holiday			21	WED		III	27	21	FRI		V	49	21	MON	Univ. Practical Exam commences			21	WED			
22	MON		I	3	22	THU	Student Feedback-1	IV	28	22	SAT	Holiday			22	TUE				22	THU	National Mathematics Day		
23	TUE		II	4	23	FRI		V	29	23	SUN	Holiday			23	WED				23	FRI			
24	WED		III	5	24	SAT	NSS Day	II	30	24	MON	Deepavali Holiday			24	THU				24	SAT	Holiday		
25	THU		IV	6	25	SUN	Holiday			25	TUE	Holiday			25	FRI				25	SUN	Christmas Holiday		
26	FRI		V	7	26	MON		I	31	26	WED		III	50	26	SAT	Holiday			26	MON			
27	SAT		V	8	27	TUE		II	32	27	THU		IV	51	27	SUN	Holiday			27	TUE			
28	SUN	Holiday			28	WED		III	33	28	FRI	Student Feedback-2	V	52	28	MON				28	WED			
29	MON		I	9	29	THU		IV	34	29	SAT		II	53	29	TUE				29	THU			
30	TUE		II	10	30	FRI		V	35	30	SUN	Holiday			30	WED				30	FRI			
31	WED	Vinayagar Chaturthi Holiday								31	MON	National Unity Day	I	54						31	SAT	Holiday		
No. of Working days			10	10				25	35				19	54				16	70					

Total No. of working days for the semester : 70

Prepared by: Ms N Bhavani & Dr R Senthamilselvi

PRINCIPAL

SARANATHAN COLLEGE OF ENGINEERING, TRICHY-12

Academic Planner for 2022 - 23 Odd Semester - II YEAR UG

AUG'22	DAY	DETAILS	Day order	working days	SEP'22	DAY	DETAILS	Day order	working days	OCT'22	DAY	DETAILS	Day order	working days	NOV'22	DAY	DETAILS	Day order	working days	DEC'22	DAY	DETAILS	Day order	working days
01	MON				01	THU		IV	9	01	SAT	Holiday			01	TUE		II	53	01	THU		IV	77
02	TUE				02	FRI		V	10	02	SUN	Gandhi Jayanthi Holiday			02	WED		III	54	02	FRI	Syllabus Completion	V	78
03	WED				03	SAT		III	11	03	MON	Holiday			03	THU		IV	55	03	SAT	Holiday		
04	THU				04	SUN	Holiday			04	TUE	Ayudha Pooja Holiday			04	FRI		V	56	04	SUN	Holiday		
05	FRI				05	MON	Teacher's Day	I	12	05	WED	Vijayadhasami Holiday			05	SAT	Holiday			05	MON	Revision	I	79
06	SAT	Holiday			06	TUE		II	13	06	THU		IV	34	06	SUN	Holiday			06	TUE	Revision	II	80
07	SUN	Holiday			07	WED		III	14	07	FRI		V	35	07	MON		I	57	07	WED	Revision	III	81
08	MON				08	THU		IV	15	08	SAT		III	36	08	TUE		II	58	08	THU	Revision	IV	82
09	TUE				09	FRI		V	16	09	SUN	Milad-un-Nabi Holiday			09	WED		III	59	09	FRI			
10	WED				10	SAT	Holiday			10	MON	IA Test 2	I	37	10	THU	IA Test 3	IV	60	10	SAT	Univ. Practical Exam commences		
11	THU	Avani Avittam			11	SUN	Holiday			11	TUE	IA Test 2	II	38	11	FRI	National Education Day IA Test 3	V	61	11	SUN	Holiday		
12	FRI	International Youth Day			12	MON	IA Test 1	I	17	12	WED	IA Test 2	III	39	12	SAT	IA Test 3	I	62	12	MON			
13	SAT				13	TUE	IA Test 1	II	18	13	THU	IA Test 2	IV	40	13	SUN	Holiday			13	TUE			
14	SUN	Holiday			14	WED	IA Test 1	III	19	14	FRI	IA Test 2	V	41	14	MON	Children's Day IA Test 3	I	63	14	WED			
15	MON	Independence Day Holiday			15	THU	Engineer's Day IA Test 1	IV	20	15	SAT	IA Test 2	I	42	15	TUE	IA Test 3	II	64	15	THU			
16	TUE				16	FRI	IA Test 1	V	21	16	SUN	Holiday			16	WED	IA Test 3	III	65	16	FRI			
17	WED				17	SAT	IA Test 1	I	22	17	MON		I	43	17	THU		IV	66	17	SAT	Holiday		
18	THU				18	SUN	Holiday			18	TUE		II	44	18	FRI		V	67	18	SUN	Holiday		
19	FRI	Krishna Jayanthi Holiday			19	MON		I	23	19	WED		III	45	19	SAT		II	68	19	MON			
20	SAT	Holiday			20	TUE		II	24	20	THU		IV	46	20	SUN	Holiday			20	TUE			
21	SUN	Holiday			21	WED		III	25	21	FRI		V	47	21	MON		I	69	21	WED	Univ. Theory Exam commences		
22	MON	Classes commence for III semester	I	1	22	THU	Student Feedback-1	IV	26	22	SAT	Holiday			22	TUE		II	70	22	THU	National Mathematics Day		
23	TUE		II	2	23	FRI		V	27	23	SUN	Holiday			23	WED		III	71	23	FRI			
24	WED		III	3	24	SAT	NSS Day	II	28	24	MON	Deepavali Holiday			24	THU		IV	72	24	SAT	Holiday		
25	THU		IV	4	25	SUN	Holiday			25	TUE	Holiday			25	FRI		V	73	25	SUN	Christmas Holiday		
26	FRI		V	5	26	MON		I	29	26	WED		III	48	26	SAT	Holiday			26	MON			
27	SAT		V	6	27	TUE		II	30	27	THU		IV	49	27	SUN	Holiday			27	TUE			
28	SUN	Holiday			28	WED		III	31	28	FRI	Student Feedback-2	V	50	28	MON		I	74	28	WED			
29	MON		I	7	29	THU		IV	32	29	SAT		II	51	29	TUE		II	75	29	THU			
30	TUE		II	8	30	FRI		V	33	30	SUN	Holiday			30	WED		III	76	30	FRI			
31	WED	Vinayagar Chaturthi Holiday								31	MON	National Unity Day	I	52						31	SAT	Holiday		
No. of Working days			8	8				25	33				19	52				24	76				6	82

Total No. of working days for the semester : 82

Prepared by: Ms.N.Bhavani & Dr.R.Senthamilselvi

PRINCIPAL

SARANATHAN COLLEGE OF ENGINEERING, TRICHY-12

Academic Planner for 2022 - 23 Odd Semester - II YEAR UG

AUG'22	DAY	DETAILS	Day order	working days	SEP'22	DAY	DETAILS	Day order		OCT'22	DAY	DETAILS	Day order	working days	NOV'22	DAY	DETAILS	Day order	working days	DEC'22	DAY	DETAILS	Day order	working days
01	MON				01	THU		IV	9	01	SAT	Holiday			01	TUE		II	53	01	THU		IV	77
02	TUE				02	FRI		V	10	02	SUN	Gandhi Jayanthi Holiday			02	WED		III	54	02	FRI	Syllabus Completion	V	78
03	WED				03	SAT		III	11	03	MON	Holiday			03	THU		IV	55	03	SAT	Holiday		
04	THU				04	SUN	Holiday			04	TUE	Ayudha Pooja Holiday			04	FRI		V	56	04	SUN	Holiday		
05	FRI				05	MON	Teacher's Day	I	12	05	WED	Vijayadhasami Holiday			05	SAT	Holiday			05	MON	Revision	I	79
06	SAT	Holiday			06	TUE		II	13	06	THU		IV	34	06	SUN	Holiday			06	TUE	Revision	II	80
07	SUN	Holiday			07	WED		III	14	07	FRI		V	35	07	MON		I	57	07	WED	Revision	III	81
08	MON				08	THU		IV	15	08	SAT		III	36	08	TUE		II	58	08	THU	Revision	IV	82
09	TUE				09	FRI		V	16	09	SUN	Milad-un-Nabi Holiday			09	WED		III	59	09	FRI			
10	WED				10	SAT	Holiday			10	MON		I	37	10	THU		IV	60	10	SAT	Univ. Practical Exam commences		
11	THU	Avani Avittam			11	SUN	Holiday			11	TUE		II	38	11	FRI	National Education Day	V	61	11	SUN	Holiday		
12	FRI	International Youth Day			12	MON		I	17	12	WED		III	39	12	SAT		I	62	12	MON			
13	SAT				13	TUE		II	18	13	THU		IV	40	13	SUN	Holiday			13	TUE			
14	SUN	Holiday			14	WED		III	19	14	FRI		V	41	14	MON	Children's Day	I	63	14	WED			
15	MON	Independence Day Holiday			15	THU	Engineer's Day	IV	20	15	SAT	IA Test 2	I	42	15	TUE		II	64	15	THU			
16	TUE				16	FRI		V	21	16	SUN	Holiday			16	WED		III	65	16	FRI			
17	WED				17	SAT		I	22	17	MON	IA Test 2	I	43	17	THU		IV	66	17	SAT	Holiday		
18	THU				18	SUN	Holiday			18	TUE	IA Test 2	II	44	18	FRI		V	67	18	SUN	Holiday		
19	FRI	Krishna Jayanthi Holiday			19	MON	IA Test 1	I	23	19	WED	IA Test 2	III	45	19	SAT		II	68	19	MON			
20	SAT	Holiday			20	TUE	IA Test 1	II	24	20	THU	IA Test 2	IV	46	20	SUN	Holiday			20	TUE			
21	SUN	Holiday			21	WED	IA Test 1	III	25	21	FRI	IA Test 2	V	47	21	MON	IA Test 3	I	69	21	WED	Univ. Theory Exam commences		
22	MON	Classes commence for III semester	I	1	22	THU	IA Test 1	IV	26	22	SAT	Holiday			22	TUE	IA Test 3	II	70	22	THU	National Mathematics Day		
23	TUE		II	2	23	FRI	IA Test 1	V	27	23	SUN	Holiday			23	WED	IA Test 3	III	71	23	FRI			
24	WED		III	3	24	SAT	NSS Day IA Test 1	II	28	24	MON	Deepavali Holiday			24	THU	IA Test 3	IV	72	24	SAT	Holiday		
25	THU		IV	4	25	SUN	Holiday			25	TUE	Holiday			25	FRI	IA Test 3	V	73	25	SUN	Christmas Holiday		
26	FRI		V	5	26	MON		I	29	26	WED		III	48	26	SAT	Holiday			26	MON			
27	SAT		V	6	27	TUE		II	30	27	THU		IV	49	27	SUN	Holiday			27	TUE			
28	SUN	Holiday			28	WED		III	31	28	FRI	Student Feedback-2	V	50	28	MON	IA Test 3	I	74	28	WED			
29	MON		I	7	29	THU	Student Feedback-1	IV	32	29	SAT		II	51	29	TUE		II	75	29	THU			
30	TUE		II	8	30	FRI		V	33	30	SUN	Holiday			30	WED		III	76	30	FRI			
31	WED	Vinayagar Chaturthi Holiday								31	MON	National Unity Day	I	52						31	SAT	Holiday		
No. of Working days			8	8				25	33				19	52				24	76				6	82

Total No. of working days for the semester : 82

Prepared by: Ms.N.Bhavani & Dr.R.Senthamilselvi

PRINCIPAL

SARANATHAN COLLEGE OF ENGINEERING, TRICHY-12

Academic Planner for Even Semester(2022-23) - II, III & IV UG

FEB'22	DAY	DETAILS	working days	MAR'22	DAY	DETAILS	working days	APR'22	DAY	DETAILS	working days	MAY'22	DAY	DETAILS	working days
01	WED	Classes commence for IV & VI semester T&P Training for III Year	1	01	WED		21	01	SAT	Holiday		01	MON	May Day Holiday	
02	THU	T&P Training for III Year	2	02	THU	Sports Day	22	02	SUN	Holiday		02	TUE		62
03	FRI	Founder's day T&P Training for III Year	3	03	FRI	College Day	23	03	MON		44	03	WED		63
04	SAT	T&P Training for III Year Holiday		04	SAT	Graduation Day Holiday		04	TUE		45	04	THU	IA test-3	64
05	SUN	Holiday		05	SUN	Holiday		05	WED		46	05	FRI	IA test-3	65
06	MON		4	06	MON		24	06	THU		47	06	SAT	IA test-3	66
07	TUE		5	07	TUE		25	07	FRI	Good Friday Holiday		07	SUN	Holiday	
08	WED		6	08	WED	Womania 2023 Women's Day	26	08	SAT	Holiday		08	MON	IA test-3	67
09	THU		7	09	THU	IA test-1	27	09	SUN	Holiday		09	TUE	IA test-3	68
10	FRI		8	10	FRI	IA test-1	28	10	MON	IA test-2	48	10	WED	IA test-3	69
11	SAT	Holiday		11	SAT	IA test-1	29	11	TUE	IA test-2	49	11	THU		70
12	SUN	Holiday		12	SUN	Holiday		12	WED	IA test-2	50	12	FRI	Syllabus completion	71
13	MON		9	13	MON	IA test-1	30	13	THU	IA test-2	51	13	SAT	Holiday	
14	TUE		10	14	TUE	IA test-1	31	14	FRI	Tamil New Year Day Holiday		14	SUN	Holiday	
15	WED		11	15	WED	IA test-1	32	15	SAT	Holiday		15	MON	Commencement of University Practical exams	
16	THU		12	16	THU		33	16	SUN	Holiday		16	TUE		
17	FRI		13	17	FRI		34	17	MON	IA test-2	52	17	WED		
18	SAT	Holiday		18	SAT	Holiday		18	TUE	IA test-2	53	18	THU		
19	SUN	Holiday		19	SUN	Holiday		19	WED		54	19	FRI		
20	MON	Classes commence for VIII semester	14	20	MON	Students Feedback-I	35	20	THU		55	20	SAT		
21	TUE		15	21	TUE		36	21	FRI		56	21	SUN		
22	WED		16	22	WED	Telugu New Year Day Holiday		22	SAT	Ramzan Holiday		22	MON		
23	THU		17	23	THU		37	23	SUN	Holiday		23	TUE		
24	FRI		18	24	FRI		38	24	MON	Students Feedback-II	57	24	WED		
25	SAT	Holiday		25	SAT	Holiday		25	TUE		58	25	THU		
26	SUN	Holiday		26	SUN	Holiday		26	WED		59	26	FRI	Commencement of University Theory exams	
27	MON		19	27	MON		39	27	THU	Founder's Memorial day	60	27	SAT		
28	TUE		20	28	TUE		40	28	FRI		61	28	SUN		
				29	WED		41	29	SAT	Holiday		29	MON		
				30	THU		42	30	SUN	Holiday		30	TUE		
				31	FRI		43					31	WED		
		No. of Working days	20				23				18				10
														Total No.of working days for the semester :	71

Prepared by

Ms. N. Bhavani, Asso.Prof/IT dept

Dr. R. Senthamil Selvi,Asso. Prof/ CSE Dept

PRINCIPAL

SARANATHAN COLLEGE OF ENGINEERING, TRICHY-12

Academic Planner for 2022 - 23 Odd Semester - III and IV YEAR UG

AUG'22	DAY	DETAILS	Day order	working days	SEP'22	DAY	DETAILS	Day order	working days	OCT'22	DAY	DETAILS	Day order	working days	NOV'22	DAY	DETAILS	Day order	working days	DEC'22	DAY	DETAILS	Day order	working days
01	MON				01	THU		IV	11	01	SAT	Holiday			01	TUE		II	55	01	THU	Univ. Theory Exam commences		
02	TUE				02	FRI		V	12	02	SUN	Gandhi Jayanthi Holiday			02	WED		III	56	02	FRI			
03	WED				03	SAT		III	13	03	MON	Holiday			03	THU		IV	57	03	SAT	Holiday		
04	THU				04	SUN	Holiday			04	TUE	Ayudha Pooja Holiday			04	FRI		V	58	04	SUN	Holiday		
05	FRI				05	MON	Teacher's Day	I	14	05	WED	Vijayadhasami Holiday			05	SAT	Holiday			05	MON			
06	SAT	Holiday			06	TUE		II	15	06	THU		IV	36	06	SUN	Holiday			06	TUE			
07	SUN	Holiday			07	WED		III	16	07	FRI		V	37	07	MON		I	59	07	WED	Flag Day		
08	MON				08	THU		IV	17	08	SAT		III	38	08	TUE		II	60	08	THU			
09	TUE				09	FRI		V	18	09	SUN	Milad-un-Nabi Holiday			09	WED		III	61	09	FRI			
10	WED				10	SAT	Holiday			10	MON	IA Test 2	I	39	10	THU	IA Test 3	IV	62	10	SAT	Holiday		
11	THU	Avani Avittam			11	SUN	Holiday			11	TUE	IA Test 2	II	40	11	FRI	National Education Day IA Test 3	V	63	11	SUN	Holiday		
12	FRI	International Youth Day			12	MON	IA Test 1	I	19	12	WED	IA Test 2	III	41	12	SAT	IA Test 3	I	64	12	MON			
13	SAT				13	TUE	IA Test 1	II	20	13	THU	IA Test 2	IV	42	13	SUN	Holiday			13	TUE			
14	SUN	Holiday			14	WED	IA Test 1	III	21	14	FRI	IA Test 2	V	43	14	MON	Children's Day IA Test 3	I	65	14	WED			
15	MON	Independence Day Holiday			15	THU	Engineer's Day IA Test 1	IV	22	15	SAT	IA Test 2	I	44	15	TUE	IA Test 3	II	66	15	THU			
16	TUE				16	FRI	IA Test 1	V	23	16	SUN	Holiday			16	WED	IA Test 3	III	67	16	FRI			
17	WED	Classes commence for V & VII semester	III	1	17	SAT	IA Test 1	I	24	17	MON		I	45	17	THU		IV	68	17	SAT	Holiday		
18	THU		IV	2	18	SUN	Holiday			18	TUE		II	46	18	FRI	Syllabus Completion	V	69	18	SUN	Holiday		
19	FRI	Krishna Jayanthi Holiday			19	MON		I	25	19	WED		III	47	19	SAT		II	70	19	MON			
20	SAT	Holiday			20	TUE		II	26	20	THU		IV	48	20	SUN	Holiday			20	TUE			
21	SUN	Holiday			21	WED		III	27	21	FRI		V	49	21	MON	Univ. Practical Exam commences			21	WED			
22	MON		I	3	22	THU	Student Feedback-1	IV	28	22	SAT	Holiday			22	TUE				22	THU	National Mathematics Day		
23	TUE		II	4	23	FRI		V	29	23	SUN	Holiday			23	WED				23	FRI			
24	WED		III	5	24	SAT	NSS Day	II	30	24	MON	Deepavali Holiday			24	THU				24	SAT	Holiday		
25	THU		IV	6	25	SUN	Holiday			25	TUE	Holiday			25	FRI				25	SUN	Christmas Holiday		
26	FRI		V	7	26	MON		I	31	26	WED		III	50	26	SAT	Holiday			26	MON			
27	SAT		V	8	27	TUE		II	32	27	THU		IV	51	27	SUN	Holiday			27	TUE			
28	SUN	Holiday			28	WED		III	33	28	FRI	Student Feedback-2	V	52	28	MON				28	WED			
29	MON		I	9	29	THU		IV	34	29	SAT		II	53	29	TUE				29	THU			
30	TUE		II	10	30	FRI		V	35	30	SUN	Holiday			30	WED				30	FRI			
31	WED	Vinayagar Chaturthi Holiday								31	MON	National Unity Day	I	54						31	SAT	Holiday		
No. of Working days			10	10				25	35				19	54				16	70					

Total No. of working days for the semester : 70

Prepared by: Ms N Bhavani & Dr R Senthamilselvi

PRINCIPAL

SARANATHAN COLLEGE OF ENGINEERING, TRICHY-12

Academic Planner for 2022 - 23 Odd Semester - II YEAR UG

AUG'22	DAY	DETAILS	Day order	working days	SEP'22	DAY	DETAILS	Day order		OCT'22	DAY	DETAILS	Day order	working days	NOV'22	DAY	DETAILS	Day order	working days	DEC'22	DAY	DETAILS	Day order	working days
01	MON				01	THU		IV	9	01	SAT	Holiday			01	TUE		II	53	01	THU		IV	77
02	TUE				02	FRI		V	10	02	SUN	Gandhi Jayanthi Holiday			02	WED		III	54	02	FRI	Syllabus Completion	V	78
03	WED				03	SAT		III	11	03	MON	Holiday			03	THU		IV	55	03	SAT	Holiday		
04	THU				04	SUN	Holiday			04	TUE	Ayudha Pooja Holiday			04	FRI		V	56	04	SUN	Holiday		
05	FRI				05	MON	Teacher's Day	I	12	05	WED	Vijayadhasami Holiday			05	SAT	Holiday			05	MON	Revision	I	79
06	SAT	Holiday			06	TUE		II	13	06	THU		IV	34	06	SUN	Holiday			06	TUE	Revision	II	80
07	SUN	Holiday			07	WED		III	14	07	FRI		V	35	07	MON		I	57	07	WED	Revision	III	81
08	MON				08	THU		IV	15	08	SAT		III	36	08	TUE		II	58	08	THU	Revision	IV	82
09	TUE				09	FRI		V	16	09	SUN	Milad-un-Nabi Holiday			09	WED		III	59	09	FRI			
10	WED				10	SAT	Holiday			10	MON	IA Test 2	I	37	10	THU	IA Test 3	IV	60	10	SAT	Univ. Practical Exam commences		
11	THU	Avani Avittam			11	SUN	Holiday			11	TUE	IA Test 2	II	38	11	FRI	National Education Day IA Test 3	V	61	11	SUN	Holiday		
12	FRI	International Youth Day			12	MON	IA Test 1	I	17	12	WED	IA Test 2	III	39	12	SAT	IA Test 3	I	62	12	MON			
13	SAT				13	TUE	IA Test 1	II	18	13	THU	IA Test 2	IV	40	13	SUN	Holiday			13	TUE			
14	SUN	Holiday			14	WED	IA Test 1	III	19	14	FRI	IA Test 2	V	41	14	MON	Children's Day IA Test 3	I	63	14	WED			
15	MON	Independence Day Holiday			15	THU	Engineer's Day IA Test 1	IV	20	15	SAT	IA Test 2	I	42	15	TUE	IA Test 3	II	64	15	THU			
16	TUE				16	FRI	IA Test 1	V	21	16	SUN	Holiday			16	WED	IA Test 3	III	65	16	FRI			
17	WED				17	SAT	IA Test 1	I	22	17	MON		I	43	17	THU		IV	66	17	SAT	Holiday		
18	THU				18	SUN	Holiday			18	TUE		II	44	18	FRI		V	67	18	SUN	Holiday		
19	FRI	Krishna Jayanthi Holiday			19	MON		I	23	19	WED		III	45	19	SAT		II	68	19	MON			
20	SAT	Holiday			20	TUE		II	24	20	THU	Interdepartment	IV	46	20	SUN	Holiday			20	TUE			
21	SUN	Holiday			21	WED		III	25	21	FRI		V	47	21	MON		I	69	21	WED	Univ. Theory Exam commences		
22	MON	Classes commence for III semester	I	1	22	THU	Student Feedback-1	IV	26	22	SAT	Holiday			22	TUE		II	70	22	THU	National Mathematics Day		
23	TUE		II	2	23	FRI		V	27	23	SUN	Holiday			23	WED		III	71	23	FRI			
24	WED		III	3	24	SAT	NSS Day	II	28	24	MON	Deepavali Holiday			24	THU		IV	72	24	SAT	Holiday		
25	THU		IV	4	25	SUN	Holiday			25	TUE	Holiday			25	FRI		V	73	25	SUN	Christmas Holiday		
26	FRI		V	5	26	MON		I	29	26	WED		III	48	26	SAT	Holiday			26	MON			
27	SAT		V	6	27	TUE		II	30	27	THU		IV	49	27	SUN	Holiday			27	TUE			
28	SUN	Holiday			28	WED		III	31	28	FRI	Student Feedback-2	V	50	28	MON		I	74	28	WED			
29	MON		I	7	29	THU		IV	32	29	SAT		II	51	29	TUE		II	75	29	THU			
30	TUE		II	8	30	FRI		V	33	30	SUN	Holiday			30	WED		III	76	30	FRI			
31	WED	Vinayagar Chaturthi Holiday								31	MON	National Unity Day	I	52						31	SAT	Holiday		
No. of Working days			8	8				25	33				19	52				24	76				6	82

Total No. of working days for the semester : 82

Prepared by: Ms.N.Bhavani & Dr.R.Senthamilselvi

PRINCIPAL

SARANATHAN COLLEGE OF ENGINEERING, TRICHY-12

Academic Planner for 2022 - 23 Odd Semester - II YEAR UG

AUG'22	DAY	DETAILS	Day order	working days	SEP'22	DAY	DETAILS	Day order		OCT'22	DAY	DETAILS	Day order	working days	NOV'22	DAY	DETAILS	Day order	working days	DEC'22	DAY	DETAILS	Day order	working days
01	MON				01	THU		IV	9	01	SAT	Holiday			01	TUE		II	53	01	THU		IV	77
02	TUE				02	FRI		V	10	02	SUN	Gandhi Jayanthi Holiday			02	WED		III	54	02	FRI	Syllabus Completion	V	78
03	WED				03	SAT		III	11	03	MON	Holiday			03	THU		IV	55	03	SAT	Holiday		
04	THU				04	SUN	Holiday			04	TUE	Ayudha Pooja Holiday			04	FRI		V	56	04	SUN	Holiday		
05	FRI				05	MON	Teacher's Day	I	12	05	WED	Vijayadhasami Holiday			05	SAT	Holiday			05	MON	Revision	I	79
06	SAT	Holiday			06	TUE		II	13	06	THU		IV	34	06	SUN	Holiday			06	TUE	Revision	II	80
07	SUN	Holiday			07	WED		III	14	07	FRI		V	35	07	MON		I	57	07	WED	Revision	III	81
08	MON				08	THU		IV	15	08	SAT		III	36	08	TUE		II	58	08	THU	Revision	IV	82
09	TUE				09	FRI		V	16	09	SUN	Milad-un-Nabi Holiday			09	WED		III	59	09	FRI			
10	WED				10	SAT	Holiday			10	MON		I	37	10	THU		IV	60	10	SAT	Univ. Practical Exam commences		
11	THU	Avani Avittam			11	SUN	Holiday			11	TUE		II	38	11	FRI	National Education Day	V	61	11	SUN	Holiday		
12	FRI	International Youth Day			12	MON		I	17	12	WED		III	39	12	SAT		I	62	12	MON			
13	SAT				13	TUE		II	18	13	THU		IV	40	13	SUN	Holiday			13	TUE			
14	SUN	Holiday			14	WED		III	19	14	FRI		V	41	14	MON	Children's Day	I	63	14	WED			
15	MON	Independence Day Holiday			15	THU	Engineer's Day	IV	20	15	SAT	IA Test 2	I	42	15	TUE		II	64	15	THU			
16	TUE				16	FRI		V	21	16	SUN	Holiday			16	WED		III	65	16	FRI			
17	WED				17	SAT		I	22	17	MON	IA Test 2	I	43	17	THU		IV	66	17	SAT	Holiday		
18	THU				18	SUN	Holiday			18	TUE	IA Test 2	II	44	18	FRI		V	67	18	SUN	Holiday		
19	FRI	Krishna Jayanthi Holiday			19	MON	IA Test 1	I	23	19	WED	IA Test 2	III	45	19	SAT		II	68	19	MON			
20	SAT	Holiday			20	TUE	IA Test 1	II	24	20	THU	IA Test 2	IV	46	20	SUN	Holiday			20	TUE			
21	SUN	Holiday			21	WED	IA Test 1	III	25	21	FRI	IA Test 2	V	47	21	MON	IA Test 3	I	69	21	WED	Univ. Theory Exam commences		
22	MON	Classes commence for III semester	I	1	22	THU	IA Test 1	IV	26	22	SAT	Holiday			22	TUE	IA Test 3	II	70	22	THU	National Mathematics Day		
23	TUE		II	2	23	FRI	IA Test 1	V	27	23	SUN	Holiday			23	WED	IA Test 3	III	71	23	FRI			
24	WED		III	3	24	SAT	NSS Day IA Test 1	II	28	24	MON	Deepavali Holiday			24	THU	IA Test 3	IV	72	24	SAT	Holiday		
25	THU		IV	4	25	SUN	Holiday			25	TUE	Holiday			25	FRI	IA Test 3	V	73	25	SUN	Christmas Holiday		
26	FRI		V	5	26	MON		I	29	26	WED		III	48	26	SAT	Holiday			26	MON			
27	SAT		V	6	27	TUE		II	30	27	THU		IV	49	27	SUN	Holiday			27	TUE			
28	SUN	Holiday			28	WED		III	31	28	FRI	Student Feedback-2	V	50	28	MON	IA Test 3	I	74	28	WED			
29	MON		I	7	29	THU	Student Feedback-1	IV	32	29	SAT		II	51	29	TUE		II	75	29	THU			
30	TUE		II	8	30	FRI		V	33	30	SUN	Holiday			30	WED		III	76	30	FRI			
31	WED	Vinayagar Chaturthi Holiday								31	MON	National Unity Day	I	52						31	SAT	Holiday		
No. of Working days			8	8				25	33				19	52				24	76				6	82

Total No. of working days for the semester : 82

Prepared by: Ms.N.Bhavani & Dr.R.Senthamilselvi

PRINCIPAL

SARANATHAN COLLEGE OF ENGINEERING, TRICHY-12

Academic Planner for Even Semester(2022-23) - II, III & IV UG

FEB'22	DAY	DETAILS	working days	MAR'22	DAY	DETAILS	working days	APR'22	DAY	DETAILS	working days	MAY'22	DAY	DETAILS	working days
01	WED	Classes commence for IV & VI semester T&P Training for III Year	1	01	WED		21	01	SAT	Holiday		01	MON	May Day Holiday	
02	THU	T&P Training for III Year	2	02	THU	Sports Day	22	02	SUN	Holiday		02	TUE		62
03	FRI	Founder's day T&P Training for III Year	3	03	FRI	College Day	23	03	MON		44	03	WED		63
04	SAT	T&P Training for III Year Holiday		04	SAT	Graduation Day Holiday		04	TUE		45	04	THU	IA test-3	64
05	SUN	Holiday		05	SUN	Holiday		05	WED		46	05	FRI	IA test-3	65
06	MON		4	06	MON		24	06	THU	K-Thursday	47	06	SAT	IA test-3	66
07	TUE		5	07	TUE		25	07	FRI	Good Friday Holiday		07	SUN	Holiday	
08	WED		6	08	WED	Womania 2023 Women's Day	26	08	SAT	Holiday		08	MON	IA test-3	67
09	THU	K-Thursday	7	09	THU	IA test-1	27	09	SUN	Holiday		09	TUE	IA test-3	68
10	FRI		8	10	FRI	IA test-1	28	10	MON	IA test-2	48	10	WED	IA test-3	69
11	SAT	Holiday		11	SAT	IA test-1	29	11	TUE	IA test-2	49	11	THU		70
12	SUN	Holiday		12	SUN	Holiday		12	WED	IA test-2	50	12	FRI	Syllabus completion	71
13	MON		9	13	MON	IA test-1	30	13	THU	IA test-2	51	13	SAT	Holiday	
14	TUE		10	14	TUE	IA test-1	31	14	FRI	Tamil New Year Day Holiday		14	SUN	Holiday	
15	WED		11	15	WED	IA test-1	32	15	SAT	Holiday		15	MON	Commencement of University Practical exams	
16	THU	K-Thursday	12	16	THU	K-Thursday	33	16	SUN	Holiday		16	TUE		
17	FRI		13	17	FRI		34	17	MON	IA test-2	52	17	WED		
18	SAT	Holiday		18	SAT	Holiday		18	TUE	IA test-2	53	18	THU		
19	SUN	Holiday		19	SUN	Holiday		19	WED		54	19	FRI		
20	MON	Classes commence for VIII semester	14	20	MON	Students Feedback-I	35	20	THU	K-Thursday	55	20	SAT		
21	TUE		15	21	TUE		36	21	FRI		56	21	SUN		
22	WED		16	22	WED	Telugu New Year Day Holiday		22	SAT	Ramzan Holiday		22	MON		
23	THU		17	23	THU		37	23	SUN	Holiday		23	TUE		
24	FRI		18	24	FRI		38	24	MON	Students Feedback-II	57	24	WED		
25	SAT	Holiday		25	SAT	Holiday		25	TUE		58	25	THU		
26	SUN	Holiday		26	SUN	Holiday		26	WED		59	26	FRI	Commencement of University Theory exams	
27	MON		19	27	MON		39	27	THU	Founder's Memorial day	60	27	SAT		
28	TUE		20	28	TUE		40	28	FRI		61	28	SUN		
				29	WED		41	29	SAT	Holiday		29	MON		
				30	THU		42	30	SUN	Holiday		30	TUE		
				31	FRI		43					31	WED		
		No. of Working days	20				23				18				10
														Total No.of working days for the semester :	71

Prepared by

Ms. N. Bhavani, Asso.Prof/IT dept

Dr. R. Senthamil Selvi,Asso. Prof/ CSE Dept

PRINCIPAL

SARANATHAN COLLEGE OF ENGINEERING
Venkateswara Nagar, Panjappur, Tiruchirappalli - 620012

Department of Artificial Intelligence and Data Science

WORKLOAD ALLOCATION FOR ACADEMIC YEAR 2022 -23(EVEN)

Sl. No	Name of the Faculty	Name of the Subject	Section	Year / Sem	Theory/ Lab	Hours	Total Hours
1	Dr.S.Ravimaran	CS3591 - Computer Networks	A	II / IV	Theory	5	5
2	Mrs.A.Sridevi	AD3491 - Fundamental of Data Science and Analytics	A	III / VI	Theory	4	15
		AD3251 - Data Structures Design	A	I / II	Theory	5	
		AD3411 - Fundamental of Data Science and Analytics Lab	A	II / IV	Lab	3	
		AD3271 - Data Structures Design Lab	A	I / II	Lab	3	
3	Mr.P.Dinesh Kumar	AL3451 - Machine Learning	A	III / VI	Theory	5	16
		AD3251 - Data Structures Design	B	I / II	Theory	5	
		AL3461 - Machine Learning Lab	B	II / IV	Lab	3	
		AD3271 - Data Structures Design Lab	B	I / II	Lab	3	
4	New Staff	AL3452 - Operating Systems	A	II / IV	Theory	5	13
		AL3452 - Operating Systems [L]	A	II / IV	Lab	1	
		CS3591 - Computer Networks [L]	A	II / IV	Lab	1	
		AD3271 - Data Structures Design Lab	A	I / II	Lab	3	
		AD3271 - Data Structures Design Lab	B	I / II	Lab	3	

HoD/AI & DS

Principal

SARANATHAN COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Assignment No: 1			Dateof Issue:	16.09.2022	Marks	40
Course code	CS3351	Course Title	DIGITAL PRINCIPLES AND COMPUTER ORGANIZATION			
Academic Year (Odd/Even)	2022-2023 (Odd)	Year /Semester/ Section	II/III	Dateof Submission:	22.09.2022	

Q.No	Questions	CO	Blooms Taxonomy
1	Logic related Problem	C202.1	A
2	MUX & DEMUX Problem	C202.1	A
3	K-map Problem	C202.1	A

Rubrics for Assignment Evaluation

Rubric Components	Level 1	Level 2	Level 3
Content (6)	The content is common or partly relevant (0-2)	The content is precise but normal (3-4)	The content is precise and novel (5-6)
Submission of Assignment (2)	Submitted but overdue (0-1)		Submitted on date (2)
Presentation (2)	Presentation is not clear (0)	Presentation is neat but not clear (1)	Presentation is neat and structured (2)
Student's Score (10)	(0 – 3)	(4 – 6)	(9 – 10)

A.Sridevi
Faculty InCharge

Assignment No: 1			Dateof Issue:	07.09.2022	Marks	40
Course code	AL3391	Course Title	ARTIFICIAL INTELLIGENCE			
Academic Year (Odd/Even)	2022-2023 (Odd)	Year /Semester/Section	II/III	Dateof Submission:		12.09.2022

Q.No	Questions	CO	Blooms Taxonomy
1	Uniform Cost Search	C206.1	A
2	Depth Limited Search	C206.1	A

Rubrics for Assignment Evaluation

Rubric Components	Level 1	Level 2	Level 3
Content (6)	The content is common or partly relevant (0-2)	The content is precise but normal (3-4)	The content is precise and novel (5-6)
Submission of Assignment (2)	Submitted but overdue (0-1)		Submitted on date (2)
Presentation (2)	Presentation is not clear (0)	Presentation is neat but not clear (1)	Presentation is neat and structured (2)
Student's Score (10)	(0 – 3)	(4 – 6)	(9 – 10)

Faculty -In charge :Mr.P.Dineshkumar

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPALLI - 620 012.

Date: 29/5/23

Ref : SCE/Syllabus/ Theory/2022 to 2023 - Even semester

STATEMENT FOR SYLLABUS COMPLETION

I have handled the subject Computer Networks, code CS3591 for II year, IV semester, department of AI&DS B.E/B.Tech/MBA during the academic year 2022-2023, Odd semester.

In this regard, I confirm, that I have taught all the topics mentioned in the syllabus, and took lectures for 59 periods, revised syllabus for 3 periods and discussed the Anna University Examination question papers of the last 2 years.

Signature : 29/5/23

Name : Dr. S. RAVI MARAN

Designation : Professor

Department : AI & DS

Date : 29/5/23

Signature of HoD : 29/5/23

Principal :

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPALLI - 620 012.

Date: 29.05.2023

Ref : SCE/Syllabus/ Theory/2022 to 2023 - Even semester

STATEMENT FOR SYLLABUS COMPLETION

I have handled the subject MACHINE LEARNING, code AL3451 for II year, AI & DS IV semester, department of AI & DS ~~B.E~~/B.Tech/~~MBA~~ during the academic year 2022-2023, Odd semester.

In this regard, I confirm, that I have taught all the topics mentioned in the syllabus, and took lectures for 66 periods, revised syllabus for 4 periods and discussed the Anna University Examination question papers of the last – years.

Signature : dineshkumar

Name : P.DINESHKUMAR

Designation : ASSISTANT PROFESSOR

Department : AI & DS

Date : 29.05.2023

Signature of HoD : 29/5/23

Principal

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPALLI - 620 012.

Date: 29.05.23

Ref : SCE/Syllabus/ Theory/2022 to 2023 - Even semester

STATEMENT FOR SYLLABUS COMPLETION

I have handled the subject Fundamental of Data Science , code AD3491 for II year, IV semester, department of AI & DS ~~B.E~~/B.Tech/~~MBA~~ during the academic year 2022-2023, Odd semester.

In this regard, I confirm, that I have taught all the topics mentioned in the syllabus, and took lectures for 66 periods, revised syllabus for 04 periods and discussed the Anna University Examination question papers of the last one years.

Signature :

Name : A.SRIDEVI

Designation : AP

Department : AI&DS

Date : 29.05.23

Signature of HoD : 29/5/23

Principal :

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPALLI - 620 012.

Date: 17.05.2023

Ref : SCE/Syllabus/ Theory/

STATEMENT FOR SYLLABUS COMPLETION 2022-23 EVEN SEMESTER

I have handled the subject operating system . code AL3452 for 2nd year, 4th semester, department of AI & DS B.Tech during the academic year 2022 – 23, even semester.

In this regard, I confirm , that I have taught all the topics mentioned in the syllabus and took lectures for 50 periods, revised syllabus for 2 periods and discussed the Anna University Examination question papers of the last 5 years / question bank question(for fresh subject in R2021 curriculum).

Signature : A.K 27.5.23

Name : A.KAYAL

Designation : Assistant Professor

Department : AI & DS

Date : 27.5.2023

Signature of HoD : 27/5/23

Principal :

SARANATHAN COLLEGEOF ENGINEERING

TIRUCHIRAPALLI-620 012.

Date: 29.05.23

Ref:SCE/Syllabus/Laboratory/2022-2023/Even Semester/

STATEMENT FORLABORATORY EXPERIMENTCOMPLETION

I hereby affirm that all the experiments listed in the next page, have been actually performed by the students as part of the prescribed coursework by Anna University (mention details).In cases where the experiments could not be conducted, the same has been listed separately with reasons.

I confirm that the experiments were done by me in the beginning of this semester, and the readings were recorded.

I confirm that the students submitted the laboratory record of the experiments performed by them, and that I have also corrected them every week and awarded appropriate marks. I also confirm that the completed laboratory record was submitted by each student.

Signature	:	Signature	:
Name	: P.DINESHKUMAR	Name	: A.SRIDEVI
Designation	: ASSISTANT PROFESSOR	Designation	: ASSISTANT PROFESSOR
Department	: AI&DS		
Signature of HoD	: 29/5/23		
Principal	:		

Note: List of the students who have not got bonafide, if any, to be enclosed.

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPALLI-620 012.

Date: 29.05.23

Ref:SCT/Syllabus/Laboratory/2022-2023/Even Semester/

STATEMENT FOR LABORATORY EXPERIMENT COMPLETION

I hereby affirm that all the experiments listed in the next page, have been actually performed by the students as part of the prescribed coursework by Anna University (mention details).In cases where the experiments could not be conducted, the same has been listed separately with reasons.

I confirm that the experiments were done by me in the beginning of this semester, and the readings were recorded.

I confirm that the students submitted the laboratory record of the experiments performed by them, and that I have also corrected them every week and awarded appropriate marks. I also confirm that the completed laboratory record was submitted by each student.

Signature : Signature :

Name : P.DINESHKUMAR Name :

Designation : ASSISTANT PROFESSOR Designation :

Department : AI & DS

Signature of HoD : 29/5/23

Principal :

Note: List of the students who have not got bonafide, if any, to be enclosed.

SARANATHAN COLLEGEOF ENGINEERING

TIRUCHIRAPALLI-620 012.

Date: 29.05.23

Ref:SCE/Syllabus/Laboratory/2022-2023/Even Semester/

STATEMENT FORLABORATORY EXPERIMENTCOMPLETION

I hereby affirm that all the experiments listed in the next page, have been actually performed by the students as part of the prescribed coursework by Anna University (mention details).In cases where the experiments could not be conducted, the same has been listed separately with reasons.

I confirm that the experiments were done by me in the beginning of this semester, and the readings were recorded.

I confirm that the students submitted the laboratory record of the experiments performed by them, and that I have also corrected them every week and awarded appropriate marks. I also confirm that the completed laboratory record was submitted by each student.

Signature	:	Signature	:
Name	: A.SRIDEVI	Name	:
Designation	: AP	Designation	:
Department	: A2&DS		
Signature of HoD	: 29/5/23		
Principal	:		

Note: List of the students who have not got bonafide, if any, to be enclosed.

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPALLI - 620 012.

Date: 27.05.2023

Ref : SCE/Syllabus/Laboratory/

STATEMENT FOR LABORATORY EXPERIMENT COMPLETION

I hereby affirm that all the experiments listed in the next page, have been actually performed by the students as part of the prescribed course work by Anna University (mention details). In cases where the experiments could not be conducted, the same has been listed separately with reasons.

I confirm that the experiments were done by me in the beginning of this semester, and the readings were recorded.

I confirm that the students submitted the laboratory record of the experiments performed by them, and that I have also corrected them every week and awarded appropriate marks. I also confirm that the completed laboratory record was submitted by each student.

Signature : A.K 27.5.23

Name : A.KAYAL

Designation : Assistant Professor

Department : Artificial Intelligence & Data Science.

Signature of HoD : 29/5/23

Principal :

Note: List of the students who have not got bonafide, if any, to be enclosed.

Saranathan College of Engineering

QAC - Audit Report

Academic Year : 2022-2023

Year/ Sem/Sec: II | III | A

Sem: ODD/ EVEN

Dept: AI DS

Subject Code	Name of faculty		Test I					Test II					Test III				
			No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %
AL3391	Mr. Dinesh kumar	IA Test	65	47	08	10	72	63	61	02	24	60%	63	62	01	17	73%
		Make up Test	18	17	01	02	83	26	26	-	03	88%	-	-	-	-	-
		Remarks	—					students not prepared well					—				
CS3351	Ms. Sridevi	IA Test	65	62	03	05	91	63	62	01	13	77%	63	61	02	37	39%
		Make up Test	08	07	01	03	50	14	13	01	05	57%	-	-	-	-	-
		Remarks	Motivate the students to practice the more number of problem.					They did not write proper circuit diagram.					Students not prepared well.				
MA3354	Ms. Revathi	IA Test	65	57	08	12	69	63	60	03	20	67%	63	59	04	42	27%
		Make up Test	20	20	NIL	06	70	23	21	02	07	63.	-	-	-	-	-
		Remarks	—					—					Students not prepared well & they didnt write Proper Pf.				
Signature of QAC members with name			P. Aruna [P. ARUNA]					R. Mohan 10/11/22 (R. MOHAN KUMAR)					R. Mohan 05/01/23 (R. MOHAN KUMAR)				
Signature of HOD			S.A.A					S.A.A					S.A.A				
QAC In-Charge																	
IQAC Co-ordinator																	
Principal																	

SARANATHAN COLLEGE OF ENGINEERING
TIRUCHIRAPPALLI – 12
QAC – QUALITY ASSESSMENT CELL
ACADEMIC YEAR: 2022-2023 EVEN SEMESTER

NAME OF THE DEPARTMENT	A:DS	DETAILS OF EXAMINATION	IA TEST : I	Makeup Test : I

Sl.No	Subject Code	List of Batch Nos Verified	Subject Log book Verified [Y/N]	Assignments Verified [Y/N]	Remarks
YEAR/SEM/SEC : II | III | A					
		IA Test	Makeup Test		
1	AD3301	248021, 50, 56	248028, 59, 65	Y	Y	—
2	AD3351	248001, 39, 40	248015, 47, 66	Y	Y	—
3	AD 3391	248035, 27, 23	248029, 31, 21	Y	Y	—
4	AL 3391	248023, 35, 40	248015, 65, 31	Y	Y	—
5	CS3351	248001, 23, 53	248002, 68, 15	Y	Y	—
6	MA3354	248001, 27, 61	248002, 36, 67	Y	Y	—

VERIFIED BY

1 P. [signature]

2

SIGNATURE WITH DATE OF THE QAC MEMBERS

SARANATHAN COLLEGE OF ENGINEERING
TIRUCHIRAPPALLI – 12
QAC – QUALITY ASSESSMENT CELL
ACADEMIC YEAR: 2022-2023 ODD SEMESTER

NAME OF THE DEPARTMENT AI&DS			DETAILS OF EXAMINATION IA TEST : 2 Makeup Test : 2			
Sl.No	Subject Code	List of Batch Nos Verified		Subject Log book Verified [Y/N]	Assignments Verified [Y/N]	Remarks
YEAR/SEM/SEC :						
		IA Test	Makeup Test			
1	AL3391	248020, 49, 63	248028, 38, 61	Y	NA	–
2	CS3351	248001, 03, 10	248024, 40, 62	Y	Y	–
3	MA3354	248002, 20, 39	248041, 48, 65	Y	Y	–
4	AD3301	248001, 14, 59	248008, 28, 36	Y	Y	–
5	AD3351	248002, 28, 43	248011, 61, 64	Y	Y	–
6	AD3391	248031, 35, 55	248024, 25, 51	Y	NA	–

VERIFIED BY

1 Prof 10/11/22 – R. MOHANKUMAR

2

SIGNATURE WITH DATE OF THE QAC MEMBERS

SARANATHAN COLLEGE OF ENGINEERING
TIRUCHIRAPPALLI – 12
QAC – QUALITY ASSESSMENT CELL
ACADEMIC YEAR: 2018-2019 EVEN SEMESTER

NAME OF THE DEPARTMENT			DETAILS OF EXAMINATION	IA TEST: MODEL EXAM	Makeup Test : —	
Sl.No	Subject Code	List of Batch Nos Verified	Subject Log book Verified [Y/N]	Assignments Verified [Y/N]	Remarks	
YEAR/SEM/SEC :						
		IA Test	Makeup Test			
1	AL3391	248001, 02, 54	–	Y	–	— NIL —
2	CS3351	248001, 07, 21	–	Y	–	— NIL —
3	MA3354	248007, 27, 33	–	Y	–	— NIL —
4	AD3301	248002, 07, 42	–	Y	–	— NIL —
5	AD3351	248001, 09, 32	–	Y	–	— NIL —
6	AD3391	248020, 32, 43, 57	–	Y	–	— NIL —

VERIFIED BY
1 (R. MOHAN KUMAR / AP / CSBS)

2

SIGNATURE WITH DATE OF THE QAC MEMBERS

Saranathan College of Engineering

QAC - Audit Report

Academic Year : 2022 - 2023

Sem: 2022-23 EVEN

Dept: AI & DS

Year/ Sem/Sec	II / IV / A		Test I					Test II					Test III				
Subject Code	Name of faculty	Details	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %
AD3491 Fundamentals of Data Science & Analytics	Ms. A. Sridevi AI & DS	IA Test	63	63	–	27	57%	63	60	3	27	55%	63	59	4	24	56%
		Make up Test	27	24	3	10	58%	30	30	–	5	83%					
		Remarks	Students did mistakes in the problem.					Students confused with topic.					Students not prepared well.				
AL3451 Machine Learning	Mr. P. Dinesh kumar AI & DS	IA Test	63	60	3	14	76.6%	63	62	1	13	79%	63	59	4	37	35%
		Make up Test	17	17	–	0	100%	14	14	–	5	64%					
		Remarks	–					–					Students not prepared well				
AL3452 Operating Systems	Ms. A. Kayal AI & DS	IA Test	63	63	–	8	83%	63	63	–	10	84%	63	59	4	20	62%
		Make up Test	8	8	–	5	38%	10	9	1	1	89%					
		Remarks	Students not Prepared well					Students not attend all the Recessions					–				
Signature of QAC members with name			R. Mohan kumar					R. Mohan kumar					R. Mohan kumar				
Signature of HOD																	
QAC In-Charge			S. A.					S. A.					S. A.				
IQAC Co-ordinator																	
Principal																	

Saranathan College of Engineering

QAC - Audit Report

Academic Year : 2022 - 2023

Sem: 2022-23 EVEN

Dept: AI & DS

Year/ Sem/Sec	II / IV / A		Test I					Test II					Test III				
Subject Code	Name of faculty	Details	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %
CS3591 Computer Networks	Dr.S.Ravimaran AI & DS	IA Test	63	63	–	34	46.0%	63	62	1	21	66%	63	60	3	32	44%
		Make up Test	34	34	–	6	84%	22	21	1	16	23%					
		Remarks	Students confused for the Concept					Students not study well					Students did not prepare well.				
GE3451 Environmental Sciences & Sustainability	Dr.L.Hungonandan CHEMISTRY	IA Test	63	63	–	31	51%	63	63	–	24	62%	63	62	1	40	35%
		Make up Test	31	31	–	20	35.5%	24	24	–	19	21%					
		Remarks	Lack of Preparation					Not Studied well					not attended all questions				
MA3391 Probability and Statistics	Dr.S.Sivamani MATHS	IA Test	63	62	01	31	50%	63	63	–	28	55%	63	59	04	18	69.5%
		Make up Test	32	29	03	09	69%	28	24	4	9	63%					
		Remarks	Because of Probability concepts, they have confused and not able to complete the pblms					Lack of preparation, even Intensive training given.					–				
Signature of QAC members with name			R. MOHAN KUMAR					R. MOHAN KUMAR					R. MOHAN KUMAR				
Signature of HOD																	
QAC In-Charge			S.A.A					S.A.A					S.A.A				
IQAC Co-ordinator																	
Principal																	

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPPALLI – 12

QAC – QUALITY ASSESSMENT CELL

ACADEMIC YEAR: 2022-2023 EVEN SEMESTER

NAME OF THE DEPARTMENT: II / IV / AI & DS 'A'			DETAILS OF EXAMINATION IA TEST : 1		Makeup Test : 1
Sl.No	Subject Code	List of Batch Nos Verified	Subject Log book Verified [Y/N]	Assignments Verified [Y/N]	Remarks
YEAR/SEM/SEC :					
		IA Test / Makeup Test			
1	AD3491 – Fundamentals of Data Science & Analytics	248012, 29, 44 / 248004, 08, 12	Y	Y	
2	AL3451 – Machine Learning	248010, 38, 35 / 248028, 36, 68	Y	Y	
3	AL3452 – Operating Systems.	248010, 24, 44 / 248048, 41, 24	Y	Y	
4	CS3591 – Computer Networks.	248047, 25, 35 / 248005, 26, 64	Y	Y	
5	GE3451 – Environmental Science & Sustainability.	248062, 02, 34 / 248012, 29, 62.	Y	Y	
6	MA3391 – Probability & Statistics	248023, 06, 02 / 248014, 60, 65.	Y	Y	

VERIFIED BY

1 R. Mohankumar – R.Mohankumar/AP/CSBS

2

SIGNATURE WITH DATE OF THE QAC MEMBERS

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPPALLI – 12

QAC – QUALITY ASSESSMENT CELL

ACADEMIC YEAR: 2022-2023 EVEN SEMESTER

NAME OF THE DEPARTMENT: II / IV / AI&DS 'A'

DETAILS OF EXAMINATION IA TEST : 2 Makeup Test : 2

YEAR/SEM/SEC :

Sl.No	Subject Code	List of Batch Nos Verified		Subject Log book Verified [Y/N]	Assignments Verified [Y/N]	Remarks
		IA Test	Makeup Test			
1	AD3491 – Fundamentals of Data Science & Analytics.	248001, 12, 26	248041, 53, 59	Y	Y	
2	AL3451 – Machine Learning	248005, 01, 34	248014, 55, 64	Y	Y	
3	AL3452 – Operating Systems.	248001, 24, 44	248012, 24, 41	Y	Y	
4	CS3591 – Computer Networks	248024, 26, 12	248018, 07, 01	Y	Y	
5	GE3451 – Environmental Sciences & Sustainability	248006, 37, 61	248064, 47, 24	Y	Y	
6	MA3391 – Probability & Statistics.	248031, 14, 03	248041, 12, 48	Y	Y	

VERIFIED BY

1 – R. MOHAN KUMAR / AP / CSBS

2

SIGNATURE WITH DATE OF THE QAC MEMBERS

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPPALLI – 12

QAC – QUALITY ASSESSMENT CELL

ACADEMIC YEAR: 2022-2023 EVEN SEMESTER

NAME OF THE DEPARTMENT: II / IV / AI&DS 'A'			DETAILS OF EXAMINATION IA TEST : 3		Makeup Test : —
Sl.No	Subject Code	List of Batch Nos Verified	Subject Log book Verified [Y/N]	Assignments Verified [Y/N]	Remarks
YEAR/SEM/SEC :					
		IA Test	Makeup Test		
1	AD3491 – Fundamentals of Datascience & Analytics.	248001, 25, 26	–	Y	–	–
2	AL3451 – Machine learning	248001, 06, 11	–	Y	–	
3	AL3452 – Operating Systems.	248051, 48, 01	–	Y	–	
4	CS3591 – Computer Networks	248022, 21, 02	–	Y	–	
5	GE3451 – Enviramental Sciences & Sustainability	248004, 07, 22	–	Y	–	
6	MA3391 – Probability & Statistics.	248022, 12, 01	–	Y	–	

VERIFIED BY

1 R. MOHAN KUMAR / AP / CSBS

2

SIGNATURE WITH DATE OF THE QAC MEMBERS

Saranathan College of Engineering
Tiruchirappalli-12

FeedBack Report : AID Month&Year: SEP2022 Academic Year :2022-23ODD

S.no	staffcode	branch /Sem	No. partici pated	Subject Code /Title	(1) Does the faculty come Prepared for the Classes ?	(2) Subject Knowledge and Clarity of the Faculty	(3) Impartiality and Fairness to Students ?	(4) Interaction with Students by the faculty	(5) Valuable/Extra Information given during the Lectures by the faculty	(6) Enthusiasm for Subject ?	(7) Showing Concern and Care for Students?	(8) Punctuality in Evaluation of Exam Papers/ Assignments ?	(9) Whether Syllabus for IA Tests/ University Examination Completed steadily?	(10) Ability to Speak Loudly and Clearly	Tota Out of
	Weigtage				**15.0**	**15.0**	**8.0**	**12.0**	**12.0**	**12.0**	**4.0**	**6.0**	**8.0**	**8.0**	10
1	dineshkumar-cse	AID-A/3	61	AL3391/Artificial Intelligence	12.93	12.93	6.77	10.39	10.27	9.88	3.44	5.11	8.02	8.05	8
2	sridevi-aid	AID-A/3	61	CS3351/Digital Principles And Computer Organization	11.36	11.31	5.93	8.81	8.70	8.66	2.92	4.54	5.98	5.88	7
3	sridevi-aid	CSE-A/5	27	OCE552/Geographic Information System	13.89	13.44	7.35	10.22	10.40	10.13	3.59	5.29	7.29	7.23	8
4	dineshkumar-cse	IT-A/7	46	IT8075/Software Project Management	11.74	11.67	6.19	9.03	9.34	9.23	3.01	4.62	6.25	6.30	

HOD-AI&DS

Saranathan College of Engineering
Tiruchirappalli-12

FeedBack Report : AID Month&Year: NOV2022 Academic Year :2022-23ODD

S.no	staffcode	branch /Sem	No. partici pated	Subject Code /Title	(1) Does the faculty come Prepared for the Classes ?	(2) Subject Knowledge and Clarity of the Faculty	(3) Impartiality and Fairness to Students ?	(4) Interaction with Students by the faculty	(5) Valuable/Extra Information given during the Lectures by the faculty	(6) Enthusiasm for Subject ?	(7) Showing Concern and Care for Students?	(8) Punctuality in Evaluation of Exam Papers/ Assignments ?	(9) Whether Syllabus for IA Tests/ University Examination Completed steadily?	(10) Ability to Speak Loudly and Clearly	Tota Out of
	Weigtage				**15.0**	**15.0**	**8.0**	**12.0**	**12.0**	**12.0**	**4.0**	**6.0**	**8.0**	**8.0**	**100**
	dineshkumar-cse	AID-A/3	61	AL3391/Artificial Intelligence	13.38	13.33	7.08	10.78	10.62	10.39	3.57	5.31	7.19	7.21	88.5
	sridevi-aid	AID-A/3	61	CS3351/Digital Principles And Computer Organization	12.30	12.30	6.50	9.68	9.56	9.56	3.21	4.98	6.56	6.45	81.1
	sridevi-aid	CSE-A/5	57	OCE552/Geographic Information System	14.26	14.32	7.47	11.49	11.49	11.28	3.82	5.75	7.69	7.55	95.1
	dineshkumar-cse	IT-A/7	50	IT8075/Software Project Management	12.24	12.30	6.30	9.55	9.74	9.94	3.15	5.09	6.78	6.78	81

HOD- AI&DS

Saranathan College of Engineering
Tiruchirappalli-12

FeedBack Report : AID Month&Year: may2023 Academic Year :2022-23EVEN

S.no	staffcode	branch /Sem	No. partici pated	Subject Code /Title	(1) Does the faculty come Prepared for the Classes ?	(2) Subject Knowledge and Clarity of the Faculty	(3) Impartiality and Fairness to Students ?	(4) Interaction with Students by the faculty	(5) Valuable/Extra Information given during the Lectures by the faculty	(6) Enthusiasm for Subject ?	(7) Showing Concern and Care for Students?	(8) Punctuality in Evaluation of Exam Papers/ Assignments ?	(9) Whether Syllabus for IA Tests/ University Examination Completed steadily?	(10) Ability to Speak Loudly and Clearly	Total Out of
	Weigtage				15.0	15.0	8.0	12.0	12.0	12.0	4.0	6.0	8.0	8.0	100
1	sridevi-aid	AID-A/2	58	AD3251/Data Structure Design	12.98	12.98	6.68	9.93	10.06	10.18	3.32	5.15	6.81	6.65	84.7
2	ravimaran-aid	AID-A/2	57	GE3252/Tamils And Technology	11.68	11.32	6.15	9.64	9.64	9.05	3.14	4.59	5.89	6.15	77.2
3	sridevi-aid	AID-A/4	54	AD3491/Fundamentals Of Data Science And Analytics	12.44	12.39	6.46	9.69	9.60	9.87	3.30	5.00	6.61	6.61	81.5
	dineshkumar-cse	AID-A/4	54	AL3451/Machine Learning	13.56	13.61	7.11	10.58	10.58	10.58	3.67	5.29	7.14	7.26	89.5
	kayal-aids	AID-A/4	56	AL3452/Operating Systems	12.27	11.95	6.74	9.81	9.64	9.73	3.43	5.04	6.71	6.34	81.6
	ravimaran-aid	AID-A/4	54	CS3591/Computer Networks	12.56	12.50	6.70	9.96	9.96	9.87	3.36	4.96	6.73	6.40	82.5
	dineshkumar-cse	AID-B/2	54	AD3251/Data Structure Design	13.72	13.67	7.29	11.02	10.89	10.89	3.67	5.51	7.38	7.32	91.
	kayal-aids	AID-B/2	55	GE3252/Tamils And Technology	9.11	8.95	4.92	7.20	7.07	7.16	2.47	3.73	4.92	4.95	60

Observation & Remarks by Hod/AID DS.

faculty with a feedback % of lessthan 80 needs to take care of their class & Work on improving their teaching & learning process in coming days.

HOD-AID

Sarunathan College of Engineering
Tiruchirappalli-12

FeedBack Report : AID Month&Year: MARCH2023 Academic Year :2022-23EVEN

S.no	staffcode	branch /Sem	No. particip ated	Subject Code /Title	(1) Does the faculty come Prepared for the Classes ?	(2) Subject Knowledge and Clarity of the Faculty	(3) Impartiality and Fairness to Students ?	(4) Interaction with Students by the faculty	(5) Valuable/Extra information given during the Lectures by the faculty	(6) Enthusiasm for Subject ?	(7) Showing Concern and Care for Students?	(8) Punctuality in Evaluation of Exam Papers/ Assignments ?	(9) Whether Syllabus for IA Tests/ University Examination Completed steadily?	(10) Ability to Speak Loudly and Clearly	Total Out of
Weigtage					**15.0**	**15.0**	**8.0**	**12.0**	**12.0**	**12.0**	**4.0**	**6.0**	**8.0**	**8.0**	100
	sridevi-aid	AID-A/2	62	AD3251/Data Structure Design	13.54	12.97	7.08	9.81	9.39	10.16	3.22	4.78	6.75	6.31	84
	ravimaran-aid	AID-A/2	54	GE3252/Tamils And Technology	11.17	11.06	6.13	9.24	9.56	9.16	3.17	4.47	5.93	6.22	76
	sridevi-aid	AID-A/2	60	AD3491/Fundamentals Of Data Science And Analytics	11.95	12.50	6.48	9.48	9.40	9.24	3.19	4.82	6.56	6.19	79
	dineshkumar-cse	AID-A/2	51	AL3451/Machine Learning	13.41	13.53	7.12	10.87	11.01	10.54	3.69	5.36	7.22	7.31	90
	kayal-aids	AID-A/2	51	AL3452/Operating Systems	11.35	11.29	6.21	9.08	9.04	8.89	3.18	4.68	6.15	5.27	75
	ravimaran-aid	AID-A/2	55	CS3591/Computer Networks	12.44	12.27	6.66	9.95	10.30	9.91	3.43	4.84	6.57	6.23	82
	ineshkumar-e	AID-B/2	59	AD3251/Data Structure Design	13.93	13.68	7.24	10.86	10.82	10.74	3.66	5.45	7.40	7.40	91
	al-aids	AID-B/2	58	GE3252/Tamils And Technology	10.60	10.66	5.74	9.02	8.40	8.65	2.97	4.45	5.88	5.99	72
	al-aids	MBA-A/2	59	BA4206/Business Analytics	11.03	11.24	5.86	8.83	8.62	8.71	2.93	4.41	5.83	5.64	73

Observation & Remarks : Teachers with less feedback & have been advised to adopt new kind of approach to improve & ensure effectiveness in Teaching & Learning process

SARANATHAN COLLEGE OF ENGINEERING, TRICHY-12

Academic Planner for 2022 - 23 Odd Semester - II YEAR UG

AUG'22	DAY	DETAILS	Day order	working days	SEP'22	DAY	DETAILS	Day order		OCT'22	DAY	DETAILS	Day order	working days	NOV'22	DAY	DETAILS	Day order	working days	DEC'22	DAY	DETAILS	Day order	working days
01	MON				01	THU		IV	9	01	SAT	Holiday			01	TUE		II	53	01	THU		IV	77
02	TUE				02	FRI		V	10	02	SUN	Gandhi Jayanthi Holiday			02	WED		III	54	02	FRI	Syllabus Completion	V	78
03	WED				03	SAT		III	11	03	MON	Holiday			03	THU		IV	55	03	SAT	Holiday		
04	THU				04	SUN	Holiday			04	TUE	Ayudha Pooja Holiday			04	FRI		V	56	04	SUN	Holiday		
05	FRI				05	MON	Teacher's Day	I	12	05	WED	Vijayadhasami Holiday			05	SAT	Holiday			05	MON	Revision	I	79
06	SAT	Holiday			06	TUE		II	13	06	THU		IV	34	06	SUN	Holiday			06	TUE	Revision	II	80
07	SUN	Holiday			07	WED		III	14	07	FRI		V	35	07	MON		I	57	07	WED	Revision	III	81
08	MON				08	THU		IV	15	08	SAT		III	36	08	TUE		II	58	08	THU	Revision	IV	82
09	TUE				09	FRI		V	16	09	SUN	Milad-un-Nabi Holiday			09	WED		III	59	09	FRI			
10	WED				10	SAT	Holiday			10	MON		I	37	10	THU		IV	60	10	SAT	Univ. Practical Exam commences		
11	THU	Avani Avittam			11	SUN	Holiday			11	TUE		II	38	11	FRI	National Education Day	V	61	11	SUN	Holiday		
12	FRI	International Youth Day			12	MON		I	17	12	WED		III	39	12	SAT		I	62	12	MON			
13	SAT				13	TUE		II	18	13	THU		IV	40	13	SUN	Holiday			13	TUE			
14	SUN	Holiday			14	WED		III	19	14	FRI		V	41	14	MON	Children's Day	I	63	14	WED			
15	MON	Independence Day Holidau			15	THU	Engineer's Day	IV	20	15	SAT	IA Test 2	I	42	15	TUE		II	64	15	THU			
16	TUE				16	FRI		V	21	16	SUN	Holiday			16	WED		III	65	16	FRI			
17	WED				17	SAT		I	22	17	MON	IA Test 2	I	43	17	THU		IV	66	17	SAT	Holiday		
18	THU				18	SUN	Holiday			18	TUE	IA Test 2	II	44	18	FRI		V	67	18	SUN	Holiday		
19	FRI	Krishna Jayanthi Holiday			19	MON	IA Test 1	I	23	19	WED	IA Test 2	III	45	19	SAT	IA Test 3	II	68	19	MON			
20	SAT	Holiday			20	TUE	IA Test 1	II	24	20	THU	IA Test 2	IV	46	20	SUN	Holiday			20	TUE			
21	SUN	Holiday			21	WED	IA Test 1	III	25	21	FRI	IA Test 2	V	47	21	MON	IA Test 3	I	69	21	WED	Univ. Theory Exam commences		
22	MON	Classes commence for III semester	I	1	22	THU	IA Test 1	IV	26	22	SAT	Holiday			22	TUE	IA Test 3	II	70	22	THU	National Mathematics Day		
23	TUE		II	2	23	FRI	IA Test 1	V	27	23	SUN	Holiday			23	WED	IA Test 3	III	71	23	FRI			
24	WED		III	3	24	SAT	NSS Day IA Test 1	II	28	24	MON	Deepavali Holiday			24	THU	IA Test 3	IV	72	24	SAT	Holiday		
25	THU		IV	4	25	SUN	Holiday			25	TUE	Holiday			25	FRI	IA Test 3	V	73	25	SUN	Christmas Holiday		
26	FRI		V	5	26	MON		I	29	26	WED		III	48	26	SAT	Holiday			26	MON			
27	SAT		V	6	27	TUE		II	30	27	THU		IV	49	27	SUN	Holiday			27	TUE			
28	SUN	Holiday			28	WED		III	31	28	FRI	Student Feedback-2	V	50	28	MON		I	74	28	WED			
29	MON		I	7	29	THU	Student Feedback-1	IV	32	29	SAT		II	51	29	TUE		II	75	29	THU			
30	TUE		II	8	30	FRI		V	33	30	SUN	Holiday			30	WED		III	76	30	FRI			
31	WED	Vinayagar Chaturthi Holiday								31	MON	National Unity Day	I	52						31	SAT	Holiday		
No. of Working days			8	8				25	33				19	52				24	76				6	82

Total No. of working days for the semester : 82

Prepared by: Ms.N.Bhavani & Dr.R.Senthamilselvi

PRINCIPAL

SARANATHAN COLLEGE OF ENGINEERING, TRICHY-12

Academic Planner for 2022 - 23 Odd Semester - III and IV YEAR UG

AUG'22	DAY	DETAILS	Day order	working days	SEP'22	DAY	DETAILS	Day order	working days	OCT'22	DAY	DETAILS	Day order	working days	NOV'22	DAY	DETAILS	Day order	working days	DEC'22	DAY	DETAILS	Day order	working days
01	MON				01	THU		IV	11	01	SAT	Holiday			01	TUE		II	55	01	THU	Univ. Theory Exam commences		
02	TUE				02	FRI		V	12	02	SUN	Gandhi Jayanthi Holiday			02	WED		III	56	02	FRI			
03	WED				03	SAT		III	13	03	MON	Holiday			03	THU		IV	57	03	SAT	Holiday		
04	THU				04	SUN	Holiday			04	TUE	Ayudha Pooja Holiday			04	FRI		V	58	04	SUN	Holiday		
05	FRI				05	MON	Teacher's Day	I	14	05	WED	Vijayadhasami Holiday			05	SAT	Holiday			05	MON			
06	SAT	Holiday			06	TUE		II	15	06	THU		IV	36	06	SUN	Holiday			06	TUE			
07	SUN	Holiday			07	WED		III	16	07	FRI		V	37	07	MON		I	59	07	WED	Flag Day		
08	MON				08	THU		IV	17	08	SAT		III	38	08	TUE		II	60	08	THU			
09	TUE				09	FRI		V	18	09	SUN	Milad-un-Nabi Holiday			09	WED		III	61	09	FRI			
10	WED				10	SAT	Holiday			10	MON	IA Test 2	I	39	10	THU	IA Test 3	IV	62	10	SAT	Holiday		
11	THU	Avani Avittam			11	SUN	Holiday			11	TUE	IA Test 2	II	40	11	FRI	National Education Day IA Test 3	V	63	11	SUN	Holiday		
12	FRI	International Youth Day			12	MON	IA Test 1	I	19	12	WED	IA Test 2	III	41	12	SAT	IA Test 3	I	64	12	MON			
13	SAT				13	TUE	IA Test 1	II	20	13	THU	IA Test 2	IV	42	13	SUN	Holiday			13	TUE			
14	SUN	Holiday			14	WED	IA Test 1	III	21	14	FRI	IA Test 2	V	43	14	MON	Children's Day IA Test 3	I	65	14	WED			
15	MON	Independence Day Holiday			15	THU	Engineer's Day IA Test 1	IV	22	15	SAT	IA Test 2	I	44	15	TUE	IA Test 3	II	66	15	THU			
16	TUE				16	FRI	IA Test 1	V	23	16	SUN	Holiday			16	WED	IA Test 3	III	67	16	FRI			
17	WED	Classes commence for V & VII semester	III	1	17	SAT	IA Test 1	I	24	17	MON		I	45	17	THU		IV	68	17	SAT	Holiday		
18	THU		IV	2	18	SUN	Holiday			18	TUE		II	46	18	FRI	Syllabus Completion	V	69	18	SUN	Holiday		
19	FRI	Krishna Jayanthi Holiday			19	MON		I	25	19	WED		III	47	19	SAT		II	70	19	MON			
20	SAT	Holiday			20	TUE		II	26	20	THU		IV	48	20	SUN	Holiday			20	TUE			
21	SUN	Holiday			21	WED		III	27	21	FRI		V	49	21	MON	Univ. Practical Exam commences			21	WED			
22	MON		I	3	22	THU	Student Feedback-1	IV	28	22	SAT	Holiday			22	TUE				22	THU	National Mathematics Day		
23	TUE		II	4	23	FRI		V	29	23	SUN	Holiday			23	WED				23	FRI			
24	WED		III	5	24	SAT	NSS Day	II	30	24	MON	Deepavali Holidav			24	THU				24	SAT	Holiday		
25	THU		IV	6	25	SUN	Holiday			25	TUE	Holiday			25	FRI				25	SUN	Christmas Holiday		
26	FRI		V	7	26	MON		I	31	26	WED		III	50	26	SAT	Holiday			26	MON			
27	SAT		V	8	27	TUE		II	32	27	THU		IV	51	27	SUN	Holiday			27	TUE			
28	SUN	Holiday			28	WED		III	33	28	FRI	Student Feedback-2	V	52	28	MON				28	WED			
29	MON		I	9	29	THU		IV	34	29	SAT		II	53	29	TUE				29	THU			
30	TUE		II	10	30	FRI		V	35	30	SUN	Holiday			30	WED				30	FRI			
31	WED	Vinayagar Chaturthi Holiday								31	MON	National Unity Day	I	54						31	SAT	Holiday		
No. of Working days			10	10				25	35				19	54				16	70					

Total No. of working days for the semester : 70

Prepared by: Ms.N.Bhavani & Dr.R.Senthamilselvi

PRINCIPAL

SARANATHAN COLLEGE OF ENGINEERING, TRICHY-12

Academic Planner for Even Semester(2022-23) - I Year - G

MAY'23	DAY	DETAILS	working days	JUN'23	DAY	DETAILS	working days	JULY'23	DAY	DETAILS	working days	AUG'23	DAY	DETAILS	working days
01	MON	May Day Holiday		01	THU		18	01	SAT		41	01	TUE	Model exam	65
02	TUE			02	FRI		19	02	SUN	Holiday		02	WED	Model exam	66
03	WED			03	SAT	Holiday		03	MON	IA test-2	42	03	THU	Model exam	67
04	THU			04	SUN	Holiday		04	TUE	IA test-2	43	04	FRI	Model exam	68
05	FRI			05	MON	IA test-1	20	05	WED	IA test-2	44	05	SAT	Model exam	69
06	SAT	Holiday		06	TUE	IA test-1	21	06	THU	IA test-2	45	06	SUN	Holiday	
07	SUN	Holiday		07	WED	IA test-1	22	07	FRI	IA test-2	46	07	MON	Syllabus Completion	70
08	MON			08	THU	IA test-1	23	08	SAT	Holiday		08	TUE		
09	TUE			09	FRI	IA test-1	24	09	SUN	Holiday		09	WED	Commencement of University Practical exams	
10	WED	Classes commence for II semester	1	10	SAT	IA test-1	25	10	MON	IA test-2	47	10	THU		
11	THU		2	11	SUN	Holiday		11	TUE		48	11	FRI		
12	FRI		3	12	MON		26	12	WED		49	12	SAT	Holiday	
13	SAT	Holiday		13	TUE		27	13	THU		50	13	SUN	Holiday	
14	SUN	Holiday		14	WED		28	14	FRI	Students Feedback-II	51	14	MON		
15	MON		4	15	THU		29	15	SAT		52	15	TUE	Independence Day Holiday	
16	TUE		5	16	FRI	Students Feedback-I	30	16	SUN	Holiday		16	WED		
17	WED		6	17	SAT	Holiday		17	MON		53	17	THU		
18	THU		7	18	SUN	Holiday		18	TUE		54	18	FRI		
19	FRI		8	19	MON		31	19	WED		55	19	SAT	Holiday	
20	SAT	Holiday		20	TUE		32	20	THU		56	20	SUN	Holiday	
21	SUN	Holiday		21	WED		33	21	FRI		57	21	MON	Commencement of University Theory exams	
22	MON		9	22	THU		34	22	SAT		58	22	TUE		
23	TUE		10	23	FRI		35	23	SUN	Holiday		23	WED		
24	WED		11	24	SAT		36	24	MON		59	24	THU		
25	THU		12	25	SUN	Holiday		25	TUE		60	25	FRI		
26	FRI		13	26	MON		37	26	WED		61	26	SAT		
27	SAT		14	27	TUE		38	27	THU		62	27	SUN		
28	SUN	Holiday		28	WED		39	28	FRI		63	28	MON		
29	MON		15	29	THU	Bakrid Holiday		29	SAT	Muharram Holiday		29	TUE		
30	TUE		16	30	FRI		40	30	SUN	Holiday		30	WED		
31	WED		17					31	MON	Model exam	64	31	THU		
			17				23				24				

Total No.of working days for the semester : 70

Prepared by

Ms. N. Bhavani, Asso.Prof/IT dept

Dr. R. Senthamil Selvi,Asso. Prof/ CSE Dept

Principal 8/05/2023

SARANATHAN COLLEGE OF ENGINEERING, TRICHY-12

Academic Planner for Even Semester(2022-23) - II, III & IV UG

FEB'22	DAY	DETAILS	working days	MAR'22	DAY	DETAILS	working days	APR'22	DAY	DETAILS	working days	MAY'22	DAY	DETAILS	working days
01	WED	Classes commence for IV & VI semester T&P Training for III Year	1	01	WED		21	01	SAT	Holiday		01	MON	May Day Holiday	
02	THU	T&P Training for III Year	2	02	THU	Sports Day	22	02	SUN	Holiday		02	TUE		62
03	FRI	Founder's day T&P Training for III Year	3	03	FRI	College Day	23	03	MON		44	03	WED		63
04	SAT	T&P Training for III Year Holiday		04	SAT	Graduation Day Holiday		04	TUE		45	04	THU		64
05	SUN	Holiday		05	SUN	Holiday		05	WED		46	05	FRI	Naan Mudhalvan	65
06	MON		4	06	MON		24	06	THU		47	06	SAT	Holiday	
07	TUE		5	07	TUE		25	07	FRI	Good Friday Holiday		07	SUN	Holiday	
08	WED		6	08	WED	Womania 2023 Women's Day	26	08	SAT	Holiday		08	MON		66
09	THU		7	09	THU	IA test-1	27	09	SUN	Holiday		09	TUE		67
10	FRI		8	10	FRI	IA test-1	28	10	MON	IA test-2	48	10	WED		68
11	SAT	Holiday		11	SAT	IA test-1	29	11	TUE	IA test-2	49	11	THU		69
12	SUN	Holiday		12	SUN	Holiday		12	WED	IA test-2	50	12	FRI	Naan Mudhalvan	70
13	MON		9	13	MON	IA test-1	30	13	THU	IA test-2	51	13	SAT	Holiday	
14	TUE		10	14	TUE	IA test-1	31	14	FRI	Tamil New Year Day Holiday		14	SUN	Holiday	
15	WED		11	15	WED	IA test-1	32	15	SAT	Holiday		15	MON	IA test-3	71
16	THU		12	16	THU		33	16	SUN	Holiday		16	TUE	IA test-3	72
17	FRI		13	17	FRI		34	17	MON	IA test-2	52	17	WED	IA test-3	73
18	SAT	Holiday		18	SAT	Holiday		18	TUE	IA test-2	53	18	THU	IA test-3	74
19	SUN	Holiday		19	SUN	Holiday		19	WED		54	19	FRI		75
20	MON	Classes commence for VIII semester	14	20	MON	Students Feedback-I	35	20	THU		55	20	SAT	Holiday	
21	TUE		15	21	TUE		36	21	FRI	Naan Mudhalvan	56	21	SUN	Holiday	
22	WED		16	22	WED	Telugu New Year Day Holiday		22	SAT	Holiday		22	MON	IA test-3	76
23	THU		17	23	THU		37	23	SUN	Holiday		23	TUE	IA test-3	77
24	FRI		18	24	FRI	Naan Mudhalvan	38	24	MON	Students Feedback-II	57	24	WED	Syllabus completion	78
25	SAT	Holiday		25	SAT	Holiday		25	TUE		58	25	THU		
26	SUN	Holiday		26	SUN	Holiday		26	WED		59	26	FRI	Commencement of University Practical exams	
27	MON		19	27	MON		39	27	THU	Founder's Memorial day	60	27	SAT		
28	TUE	National Science Day	20	28	TUE		40	28	FRI	Naan Mudhalvan	61	28	SUN		
				29	WED		41	29	SAT	Holiday		29	MON		
				30	THU		42	30	SUN	Holiday		30	TUE		
				31	FRI	Naan Mudhalvan	43					31	WED		
No. of Working days			20				23				15				17
														Total No.of working days for the semester :	78

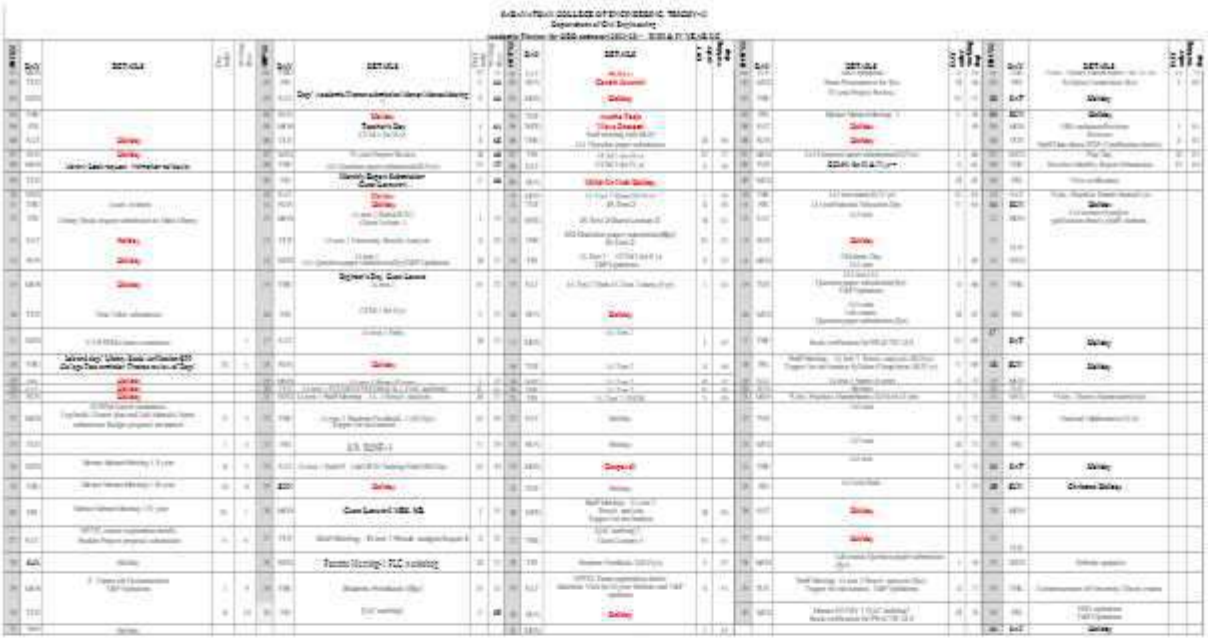
Prepared by

Ms. N. Bhuvani, Asso Prof IT dept

Dr. R. Senthamil Selvi,Asso Prof CSE Dept

Principal

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SARANATHAN COLLEGE OF ENGINEERING, TRICHY-12

Department of Civil Engineering

Academic Planner for Even Semester(2022-23) - II, III & IV UG

FEB' 23	DAY	DETAILS	working days	MAR' 23	DAY	DETAILS	working days	APR'23	DAY	DETAILS	working days	MAY'23	DAY	DETAILS	working days
01	WED	Classes commence for IV & VI semester , T&P Training for III Year, Time table submission	1	01	WED	Log book verification	21	01	SAT	Holiday		01	MON	May Day Holiday	
02	THU	T&P Training for III Year	2	02	THU	Sports Day	22	02	SUN	Holiday		02	TUE	Guest Lecture 5 , IA1 Question Paper Submission	62
03	FRI	Founder's day, T&P Training for III Year	3	03	FRI	College Day, IA1 Question Paper Submission	23	03	MON		44	03	WED	Mentor Mentee Meeting 3	63
04	SAT	T&P Training for III Year, Holiday		04	SAT	Graduation Day Holiday		04	TUE	IA1 Question Paper Submission, Monthly Report	45	04	THU	IA test-3, Log book verification	64
05	SUN	Holiday		05	SUN	Holiday		05	WED	Class Committee Meeting 2 - All CCs	46	05	FRI	IA test-3	65
06	MON		4	06	MON		24	06	THU	Project Demonstration	47	06	SAT	IA test-3	66
07	TUE	Lab and department library stock verification	5	07	TUE	Mentor Mentee Meeting 2, Monthly report	25	07	FRI	Good Friday, Holiday		07	SUN	Holiday	
08	WED		6	08	WED	Womania 2023 Women's Day	26	08	SAT	Holiday		08	MON	IA test-3, Montlhly Report	67
09	THU	Log book verification, Lab manual verification	7	09	THU	IA test-1	27	09	SUN	Holiday		09	TUE	IA test-3	68
10	FRI	lesson plan, course committee meeting	8	10	FRI	IA test-1	28	10	MON	IA test-2	48	10	WED	IA test-3, Log book verification	69
11	SAT	Holiday		11	SAT	IA test-1	29	11	TUE	IA test-2	49	11	THU	Report Submission, Class Committee Meeting 3 - All CCs	70
12	SUN	Holiday		12	SUN	Holiday		12	WED	IA test-2	50	12	FRI	Syllabus completion, QAC auditing - AGK, IA3 Topper List Declaration	71
13	MON		9	13	MON	IA test-1	30	13	THU	IA test-2	51	13	SAT	Holiday	
14	TUE	Department Finance Review	10	14	TUE	IA test-1	31	14	FRI	Tamil New Year Day Holiday		14	SUN	Holiday	
15	WED		11	15	WED	IA test-1	32	15	SAT	Holiday		15	MON	Commencement of University Practical exams	
16	THU		12	16	THU	Project Review II	33	16	SUN	Holiday		16	TUE		
17	FRI		13	17	FRI	Guest Lecture 2	34	17	MON	IA test-2	52	17	WED		
18	SAT	Holiday		18	SAT	Holiday		18	TUE	IA test-2	53	18	THU		
	SUN	Holiday		19	SUN	Holiday		19	WED	Guest Lecture 4 - MBS	54	19	FRI		
	MON	Classes commence for VIII semester	14	20	MON	Students Feedback-I	35	20	THU	Mentor Mentee Meeting 1	55	20	SAT		
21	TUE		15	21	TUE	IA1 topper list declaration	36	21	FRI	Parents Meeting - All CCs	56	21	SUN		
22	WED	Material Verification - All CCs	16	22	WED	Telugu New Year Day Holiday		22	SAT	Ramzan Holiday		22	MON		
23	THU	Project Review 1	17	23	THU	Special Guest Lecture - Silver Jubilee Series	37	23	SUN	Holiday		23	TUE	Department Finance Review	
24	FRI	Guest Lecture 1	18	24	FRI		38	24	MON	Students Feedback-II	57	24	WED	Course file submission	
25	SAT	Holiday		25	SAT	Holiday		25	TUE	Log book verification, IA2 Topper list declaration	58	25	THU	Admission related workshop	
26	SUN	Holiday		26	SUN	Holiday		26	WED	Website Updation , QAC auditing	59	26	FRI	Commencement of University Theory exams	
27	MON	Class Committee Meeting 1 - CCs	19	27	MON	Log book verification, QAC auditing	39	27	THU	Founder's Memorial day	60	27	SAT		
28	TUE	Website Updation	20	28	TUE	Website Updation	40	28	FRI		61	28	SUN		
				29	WED		41	29	SAT	Holiday		29	MON	T&P updations	
				30	THU	Project Review III	42	30	SUN	Holiday		30	TUE	Lab and department library stock verification	
				31	FRI	Guest Lecture 3	43					31	WED	Website Updation	

SARANATHAN COLLEGE OF ENGINEERING
Venkateswara Nagar, Panjappur, Tiruchirappalli - 620012.
Department of Civil Engineering
WORKLOAD - ALLOCATION FOR THE ACADEMIC YEAR 2022-2023(ODD)

S.NO.	NAME	SUBJECT	SUBJECT CODE	YEAR / SEM	THEORY / LAB	HOURS	TOTAL HOURS
1	Dr. A. Belin Jude HoD & Asst. Prof.	Estimation, Costing and Valuation Engineering	CE8701	IV/VII	THEORY	6	17
		Professional Development	GE3361	II/III	LAB	2	
		Design of Reinforced Cement Concrete Elements	CE8501	III/V	TUTORIAL	1	
		Industrial Training	CE8712	IV/VII	LAB	8	
2	Ms. K. Sathya Prabha Asst. Prof.	Structural Analysis I	CE8502	III/V	THEORY	6	21
		Environment and Agriculture	OAI551	III/V	THEORY	5	
		Structural Design and Drawing	CE8703	IV/VII	THEORY	6	
		Creative and Innovative Project (Activity Based - Subject Related)	CE8711	IV/VII	PROJECT	4	
3	Mr. C. Kesava Raja Asst. Prof.	Water Supply and Wastewater Engineering	CE3303	II/III	THEORY	5	17
		Water Supply Engineering	EN8491	III/V	THEORY	5	
		Municipal Solid Waste Management	EN8591	IV/VII	THEORY	4	
		Water and Waste Water Analysis Laboratory	CE8512	III/V	LAB	3	
4	Mr. A. Anandraj Asst. Prof.	Fluid Mechanics	CE3301	II/III	THEORY	5	17
		Railways, Airports, Docks and Harbour Engineering	CE8702	IV/VII	THEORY	4	
		Industrial Safety	OME754	IV/VII	THEORY	4	
		Creative and Innovative Project (Activity Based - Subject Related)	CE8711	IV/VII	PROJECT	4	
5	Mr. S. Kannan Asst. Prof.	Surveying and Levelling	CE3351	II/III	THEORY	5	18
		Foundation Engineering	CE8591	III/V	THEORY	5	
		Surveying and Levelling Laboratory	CE3361	II/III	LAB	3	
		Survey Camp (10 Days)	CE8513	III/V	CAMP	-	
		Water and Wastewater Analysis Laboratory	CE3311	II/III	LAB	3	
		Training and Placement	T&P	III/V	THEORY	2	
6	Mr. G. Venkatesan Asst. Prof.	Construction Materials and Technology	CE3302	II/III	THEORY	4	18
		Design of Reinforced Cement Concrete Elements	CE8501	III/V	THEORY	5	
		Design of Reinforced Cement Concrete Elements	CE8501	III/V	TUTORIAL	1	
		Disaster Management	GE8071	III/V	THEORY	5	
		Soil Mechanics Laboratory	CE8511	III/V	LAB	3	

Timetable Coordinator **HoD / Civil Engineering** **PRINCIPAL**

SARANATHAN COLLEGE OF ENGINEERING , TIRUCHIRAPALLI - 620 012.

DEPARTMENT OF CIVIL ENGINEERING

Time Table 2022-23 Odd semester (Aug-Nov' 2022)

Sem : III

Branch : CIVIL

Hall : BD 205

Class Co-ordinator: **Ms. K. Sathya Prabha**

D.O	1(9.15-10.05)	2(10.05-10.55)	(Break) 10.55 – 11.05	3(11.05-11.55)	4(11.55-12.45)	(Lunch) 12.45-1.25	5(1.25-2.15)	6(2.15-3.05)	(Break) 3.05 – 3.15	7(3.15-4.00)	8(4.00-4.45)
I	CE3351	MA3351		ME3351	CE3302		MA3351 (T)	CE3351		CE3301	CE3303
II	CE3301	ME3351		CE3351	MA3351		CE3303	ME3351		CE3302	CE3301
III	CE3302	MA3351		CE3351	ME3351		CE3301	←		CE3311 →	
IV	CE3302	CE3303		MA3351	CE3303		T&P (V)	←		GE3361 →	CE3351
V	CE3301	MA3351		T&P (A)	CE3303		ME3351	←		CE3361 →	

S.Code	Title	Name of the Staff	No. of Hours
MA3351	Transforms and Partial Differential Equations	Dr. S. Anupriya (Mat)	5
ME3351	Engineering Mechanics	Mr. S. Vinoth Kumar (Mech)	5
CE3301	Fluid Mechanics	Mr. A. Anand Raj	5
CE3302	Construction Materials and Technology	Mr. G. Venkatesan	4
CE3303	Water Supply and Wastewater Engineering	Mr. C. Kesavaraja	5
CE3351	Surveying and Levelling	Mr. S. Kannan	5
CE3361	Surveying and Levelling Laboratory	Mr. S. Kannan	3
CE3311	Water Supply and Wastewater Analysis Laboratory	Mr. S. Kannan	3
GE3361	Professional Development	Dr. A. Belin Jude	2
MA3351 (T)	Transforms and Partial Differential Equations	Dr. G. Ravichandran (Mat)	1
T&P (V)	Training and Placement - Verbal	Mr. C. Gnanadesikan (Eng)	1
T&P (A)	Training and Placement - Aptitude	Dr. D. Geetha (Mat)	1

HOD / CIVIL

PRINCIPAL

SARANATHAN COLLEGE OF ENGINEERING , TIRUCHIRAPALLI - 620 012.

DEPARTMENT OF CIVIL ENGINEERING

Time Table 2022-23 Odd semester (Aug-Nov' 2022)

Sem : VII

Branch : CIVIL

Hall : BD 201

Class Co-ordinator: Mr. S. Kannan

D.O	1(9.15-10.05)	2(10.05-10.55)	(Break) 10.55 – 11.05	3(11.05-11.55)	4(11.55-12.45)	(Lunch) 12.45-1.25	5(1.25-2.15)	6(2.15-3.05)	(Break) 3.05 – 3.15	7(3.15-4.00)	8(4.00-4.45)
I	CE8702	CE8701		EN8591	CE8701		OME754	←		CE8703 →	
II	EN8591	CE8703		CE8701	OME754	←				CE8711 →	
III	OME754	CE8701		CE8702	EN8591	←				CE8712 →	
IV	CE8701	OME754		CE8703	CE8702	←				CE8711 →	
V	CE8703	EN8591		CE8702	CE8701	←				CE8712 →	

S.Code	Title	Name of the Staff	No. of Hours
CE8701	Estimation, Costing and Valuation Engineering	Dr. A. Belin Jude	6
CE8702	Railways, Airports, Docks and Harbour Engineering	Mr. A. Anand Raj	4
CE8703	Structural Design and Drawing	Ms. K. Sathya Prabha	6
EN8591	Municipal Solid Waste Management	Mr. C. Kesavaraja	4
OME754	Industrial Safety	Mr. A. Anand Raj	4
CE8711	Creative and Innovative Project (Activity Based - Subject Related)	Ms. K. Sathya Prabha / Mr. A. Anandraj	8
CE8712	Industrial Training	Dr. A. Belin Jude	8

HOD / CIVIL

PRINCIPAL

SARANATHAN COLLEGE OF ENGINEERING , TIRUCHIRAPALLI - 620 012.

DEPARTMENT OF CIVIL ENGINEERING

Time Table 2022-23 Odd semester (Aug-Nov' 2022)

Sem : V
Branch : CIVIL
Hall : BD 202

Class Co-ordinator: Mr. G. Venkatesan

D.O	1(9.15-10.05)	2(10.05-10.55)	(Break) 10.55 – 11.05	3(11.05-11.55)	4(11.55-12.45)	(Lunch) 12.45-1.25	5(1.25-2.15)	6(2.15-3.05)	(Break) 3.05 – 3.15	7(3.15-4.00)	8(4.00-4.45)
I	CE8502	CE8501		OAI551	CE8591		EN8491	←		CE8511 →	
II	CE8591	GE8071		EN8491	CE8502		CE8501	←		CE8512 →	
III	EN8491	CE8502		CE8501	OAI551		CE8591	CE8502		GE8071	OAI551
IV	CE8502	T&P		CE8501 (T)	T&P		GE8071	CE8591		CE8501	EN8491
V	CE8591	CE8501		CE8502	GE8071		OAI551	EN8491		GE8071	OAI551

S.Code	Title	Name of the Staff	No. of Hours
CE8501	Design of Reinforced Cement Concrete Elements	Mr. G. Venkatesan	5
CE8502	Structural Analysis I	Ms. K. Sathya Prabha	6
EN8491	Water Supply Engineering	Mr. C. Kesavaraja	5
CE8591	Foundation Engineering	Mr. S. Kannan	5
GE8071	Disaster Management	Mr. G. Venkatesan	5
OAI551	Environment and Agriculture	Ms. K. Sathya Prabha	5
CE8511	Soil Mechanics Laboratory	Mr. G. Venkatesan	3
CE8512	Water and Waste Water Analysis Laboratory	Mr. C. Kesavaraja	3
CE8501 (T)	Design of Reinforced Cement Concrete Elements	Dr. A. Belin Jude	1
T&P	Training and Placement	Mr. S. Kannan	2

HOD / CIVIL

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SARANATHAN COLLEGE OF ENGINEERING
Venkateswara Nagar, Panjappur, Tiruchirappalli - 620012
Department of Civil Engineering
WORKLOAD - ALLOCATION FOR THE ACADEMIC YEAR 2022-2023 (EVEN)

S.NO.	NAME	SUBJECT	SUBJECT CODE	YEAR / SEM	THEORY / LAB	HOURS	TOTAL HOURS
1	Dr. A. Belin Jude HoD & Asst. Prof.	Design of Steel Structural Elements	CE8601	III / VI	THEORY	5	6
		Design of Steel Structural Elements (Tutorial)	CE8601 (T)	III / VI	THEORY	1	
		Project Work	CE8811	IV / VIII	LAB	-	
2	Ms. K. Sathya Prabha Asst. Prof.	Concrete Technology	CE8404	II / IV	THEORY	4	13
		Structural Analysis II	CE8602	III / VI	THEORY	6	
		Irrigation and Environmental Engineering Drawing	CE8612	III / VI	LAB	3	
3	Mr. C. Kesava Raja Asst. Prof.	Highway and Railway Engineering	CE3405	II / IV	THEORY	5	13
		Air Pollution and Control Engineering	CE8005	III / VI	THEORY	5	
		Material Testing Laboratory	CE3412	II / IV	LAB	3	
4	Mr. A. Anandraj Asst. Prof.	Applied Hydraulic Engineering	CE8403	II / IV	THEORY	4	12
		Applied Hydraulic Engineering (Tutorial)	CE8403	II / IV	THEORY	1	
		Highway Engineering	CE8604	III / VI	THEORY	4	
		Hydraulic Engineering Laboratory	CE8461	II / IV	LAB	3	
5	Mr. S. Kannan Asst. Prof.	Strength of Materials	CE3402	II / IV	THEORY	6	14
		Wastewater Engineering	EN8592	III / VI	THEORY	5	
		Highway Engineering Laboratory	CE8611	III / VI	LAB	3	
6	Mr. G. Venkatesan Asst. Prof.	Soil Mechanics	CE8491	II / IV	THEORY	6	13
		Irrigation Engineering	CE8603	III / VI	THEORY	4	
		Soil Mechanics Laboratory	CE3413	III / VI	LAB	3	
7	Ms. P. Vaishali Asst. Prof.	Basic Civil and Mechanical Engineering (EEE & ICE)	CE8491	II / IV	THEORY	4	12
		Maintenance, Repair and Rehabilitation of Structures	CE8020	IV / VIII	THEORY	3	
		Material Testing Laboratory	CE3412	II / IV	LAB	3	
		Training and Placement	T&P	III / VI	THEORY	2	

Timetable Coordinator

HoD / Civil Engineering

PRINCIPAL

SARANATHAN COLLEGE OF ENGINEERING , TIRUCHIRAPALLI - 620 012.

DEPARTMENT OF CIVIL ENGINEERING

Time Table 2022-23 Even Semester (Feb 2023 - May 2023)

Sem : IV

Branch : CIVIL

Hall : BD 205

Class Co-ordinator: **Ms. K. Sathya Prabha**

D.O	1(9.15-10.05)	2(10.05-10.55)	(Break) 10.55 – 11.05	3(11.05-11.55)	4(11.55-12.45)	(Lunch) 12.45-1.25	5(1.25-2.15)	6(2.15-3.05)	(Break) 3.05 – 3.15	7(3.15-4.00)	8(4.00-4.45)
I	CE3403	CE3405		CE3404	CE3401		CE3402	←		CE3413	→
II	CE3404	CE3401		CE3404	CE3402		CE3405	CE3403		CE3402	T&P (V)
III	CE3404	CE3402		CE3401	GE3451		CE3404	CE3401		CE3402	GE3451
IV	CE3403	GE3451		CE3402	CE3401 (T)		CE3405	←		CE3412	→
V	CE3404	←		CE3411	→		CE3405	CE3403		CE3405	T&P (A)

S.Code	Title	Name of the Staff	No. of Hours
CE3401	Applied Hydraulics Engineering	Mr. A. Anandraj	4
CE3402	Strength of Materials	Mr. S. Kannan	6
CE3403	Concrete Technology	Ms. K. Sathya Prabha	4
CE3404	Soil Mechanics	Mr. G. Venkatesan	6
CE3405	Highway and Railway Engineering	Mr. C. Kesavaraja	5
GE3451	Environmental Sciences and Sustainability	Dr. V. Balamurugan (Chem)	3
CE3411	Hydraulic Engineering Laboratory	Mr. A. Anandraj	3
CE3412	Materials Testing Laboratory	Ms. P. Vaishali & Mr. C. Kesavaraja	3
CE3413	Soil Mechanics Laboratory	Mr. G. Venkatesan	3
CE3401 (T)	Applied Hydraulics Engineering	Mr. A. Anandraj	1
T&P (V)	Training and Placement - Verbal	Mr. G. Sriram (Eng)	1
T&P (A)	Training and Placement - Aptitude	Dr. P. K. Lakshmidevi (Mat)	1

HOD / CIVIL

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SARANATHAN COLLEGE OF ENGINEERING , TIRUCHIRAPALLI - 620 012.

DEPARTMENT OF CIVIL ENGINEERING

Time Table 2022-23 Even Semester (Feb 2023 - May 2023)

Sem : VIII
Branch : CIVIL
Hall : BD 201

Class Co-ordinator: Mr. S. Kannan

D.O	1(9.15-10.05)	2(10.05-10.55)	(Break) 10.55 – 11.05	3(11.05-11.55)	4(11.55-12.45)	(Lunch) 12.45-1.25	5(1.25-2.15)	6(2.15-3.05)	(Break) 3.05 – 3.15	7(3.15-4.00)	8(4.00-4.45)
I	CE8020	CE8811		CE8811			CE8811			CE8811	
II	CE8020	CE8811		CE8811			CE8811			CE8811	
III	CE8020	CE8811		CE8811			CE8811			CE8811	
IV	-			-			-			-	
V	-			-			-			-	

S.Code	Title	Name of the Staff	No. of Hours
CE8020	Maintenance, Repair, and Rehabilitation of Structures	Ms. P. Vaishali	3
CE8811	Project Work	Dr. A. Belin Jude (Project Co-Ordinator) and Department Faculty Members	21

HOD/Civil

Principal

SARANATHAN COLLEGE OF ENGINEERING , TIRUCHIRAPALLI - 620 012.
DEPARTMENT OF CIVIL ENGINEERING
Time Table 2022-23 Even Semester (Feb 2023 - May 2023)

Sem : VI
Branch : CIVIL
Hall : BD 202

Class Co-ordinator: Mr. G. Venkatesan

D.O	1(9.15-10.05)	2(10.05-10.55)	(Break) 10.55 – 11.05	3(11.05-11.55)	4(11.55-12.45)	(Lunch) 12.45-1.25	5(1.25-2.15)	6(2.15-3.05)	(Break) 3.05 – 3.15	7(3.15-4.00)	8(4.00-4.45)
I	CE8603	EN8592		CE8601	CE8602		CE8005	CE8604		CE8601 (T)	EN8592
II	CE8601	EN8592		← HS8581 →			CE8604	CE8603		CE8005	CE8602
III	CE8005	CE8602		CE8603	CE8601		EN8592	←		CE8612 →	
IV	CE8604	CE8005		T & P	CE8603		CE8601	CE8604		CE8602	CE8602
V	CE8005	CE8601		CE8602	EN8592		T & P	←		CE8611 →	

S.Code	Title	Name of the Staff	No. of Hours
CE8601	Design of Steel Structural Elements	Dr. A. Belin Jude	5
CE8602	Structural Analysis II	Ms. K. Sathya Prabha	6
CE8603	Irrigation Engineering	Mr. G. Venkatesan	4
CE8604	Highway Engineering	Mr. A. Anandraj	4
EN8592	Wastewater Engineering	Mr. S. Kannan	5
CE8005	Air Pollution and Control Engineering	Mr. C. Kesavaraja	5
CE8611	Highway Engineering Laboratory	Mr. S. Kannan	3
CE8612	Irrigation and Environmental Engineering Drawing	Ms. K. Sathya Prabha	3
HS8581	Professional Communication	Dr. M. Bhuvaneswari (Eng)	2
CE8601 (T)	Design of Steel Structural Elements	Dr. A. Belin Jude	1
T&P	Training and Placement	Ms. P. Vaishali	2

HOD / CIVIL

PRINCIPAL

SARANATHAN COLLEGE OF ENGINEERING

Tiruchirappalli - 620012

DEPARTMENT OF CIVIL ENGINEERING

REVIEW OF COURSE FILE

S. No.	Details	Status
1.	Vision, Mission, PEOs, POs, PSOs, Blooms taxonomy	✓
2.	Timetable/Workload of the staff	✓
3.	Syllabus signed by staff & HoD	✓
4.	Lecture Schedule signed by staff & HoD	✓
5.	Course Committee meeting circular and minutes	✓
6.	Identification of Curricular gap and Content Beyond the syllabus	✓
7.	Previous AU Question papers	✓
8.	Unit wise Q&A and Objective type questions	✓
9.	Unit wise course material	✓
10.	Assignment question paper with sample answer sheets and mark entry	✓
11.	Tutorial question paper with key and mark entry	
12.	IA test Q Paper with Key, sample answer papers and mark entry	✓
13.	IA Test- Performance analysis-CAP-evidence-root cause analysis.	✓
14.	Makeup Test –Q paper-Attendance-marks - sample answer papers	✓
15.	Remedial Test–Q paper-Attendance-marks - sample answer papers	✓
16.	AU Web portal entry sheet	✓
17.	Very poor performance in first two tests-action taken- evidence.	✓
18.	Absence for two tests-action taken-evidence.	
19.	Indiscipline of student reported, if any	
20.	Special class/coaching class/remedial class/attendance-CAP	
21.	Conduct of Seminar, Quizzes - proof	
22.	Content beyond the syllabus – proof	✓
23.	Course end survey	
24.	Internal Assessment sheet	✓
25.	AU question paper with students feedback	✓
26.	Discrepancy of the question paper and correspondence, if any	
27.	AU result analysis-Details of arrear students.	✓
28.	AU grade sheet	✓
29.	CO – PO & PSO attainment sheet	✓
Signature of Faculty		
Signature of HoD		

BLOOM'S TAXONOMY

Definitions of the different levels of thinking skills in Bloom's taxonomy

1. Remember

Recalling relevant terminology, specific facts, or different procedures related to information and/or course topics. At this level, a student can remember something, but may not really understand it.

2. Understand

The ability to grasp the meaning of information (facts, definitions, concepts, etc.) that has been presented.

3. Apply

Being able to use previously learned information in different situations or in problem solving.

4. Analyze

The ability to break information down into its component parts. Analysis also refers to the process of examining information in order to make conclusions regarding cause and effect, interpreting motives, making inferences, or finding evidence to support statements/arguments.

5. Evaluate

Being able to judge the value of information and/or sources of information based on personal values or opinions.

6. Create

The ability to creatively or uniquely apply prior knowledge and/or skills to produce new and original thoughts, ideas, processes, etc. At this level, students are involved in creating their own thoughts an ideas. List of Action Words Related to Critical Thinking Skills

List of Action Words Related to Critical Thinking Skills

REMEMBER	UNDERSTAND	APPLY	ANALYZE	EVALUATE	CREATE
Count	Associate	Add	Analyze	Appraise	Categorize
Define	Compute	Apply	Arrange	Assess	Combine
Describe	Convert	Calculate	Breakdown	Compare	Compile
Draw	Defend	Change	Combine	Conclude	Compose
Identify	Discuss	Classify	Design	Contrast	Create
Label	Distinguish	Complete	Detect	Criticize	Drive
List	Estimate	Compute	Develop	Critique	Design
Match	Explain	Demonstrate	Diagram	Determine	Devise
Name	Extend	Discover	Differentiate	Grade	Explain
Outline	Extrapolate	Divide	Discriminate	Interpret	Generate
Point	Generalize	Examine	Illustrate	Judge	Group
Quote	Give	Graph	Infer	Justify	Integrate
Read	examples	Interpolate	Outline	Measure	Modify
Recall	Infer	Manipulate	Point out	Rank	Order
Recite	Paraphrase	Modify	Relate	Rate	Organize
Recognize	Predict	Operate	Select	Support	Plan
Record	Rewrite	Prepare	Separate	Test	Prescribe
Repeat	Summarize	Produce	Subdivide		Propose
Reproduce		Show	Utilize		Rearrange
Select		Solve			Reconstruct
State Write		Subtract			Related
		Translate			Reorganize
		Use			Revise
					Rewrite
					Summarize
					Transform
					Specify

VISION OF THE DEPARTMENT:

The Programme has been started with the noble vision of producing innovative Engineers with social consciousness, who can richly contribute towards creating a more ecological environment and enrich them in technological advancements.

MISSION OF THE DEPARTMENT:

- To provide essential knowledge and skill to the students and enhance their employability potential and entrepreneurial capabilities.
- To produce graduates of highly Professional and Ethical standards.
- To produce knowledge base and consultancy services to the community in all areas of Civil Engineering.
- To promote innovative and original thinking in the minds of budding Engineers to face the challenges of future.

PROGRAMME EDUCATIONAL OBJECTIVES (PEOs):

- To prepare the students for successful careers in Civil Engineering field that meets the standards of Indian and Multinational Companies.
- To develop confidence and ability among students to synthesize data and technical concepts to apply it in real world problems.
- To provide students with a sound foundation in Mathematical, Scientific, and Engineering fundamentals necessary to formulate solve and analyse engineering problems and strengthen foundations for graduate studies.
- To promote students to work collaboratively on Multi-Disciplinary projects and make them engage in life-long learning process throughout their professional life.

PROGRAMME SPECIFIC OUTCOMES (PSOs)

- To accomplish an elevated level of Technical Expertise to shine in Higher Education / Profession by attaining knowledge in Basic Sciences, Design and Drawing and Engineering Principles.
- To explore and relate Modern Engineering Tools for Planning, Design, Execution and Maintenance of works that is Technically feasible, economically and socially acceptable.
- To enhance Good Communication Skills, Team work in their responsibilities with excellence and to be prepared to face challenges in all occasions.

OBJECTIVES:

To introduce the students about properties and behaviour of the fluids under static conditions and to impart basic knowledge of the dynamics of fluids through the control volume approach and to expose to the applications of the conservation laws to a) flow measurements b) flow through pipes (both laminar and turbulent) and c) forces on pipe bends with an exposure to the significance of boundary layer theory and its applications.

UNIT I FLUIDS PROPERTIES AND FLUID STATICS **10**

Scope of fluid mechanics – Definitions of a fluid – Methods of analysis – Continuum hypothesis – System and Control volume approach – Reynold's transportation theorem – Fluid properties – Fluid statics – Manometry – Forces on plane and curved surfaces – Buoyancy and floatation – Stability of floating bodies.

UNIT II BASIC CONCEPTS OF FLUID FLOW **10**

Kinematics: Classification of flows – Streamline, streak-line and path-lines – Stream function and velocity potentials – Flow nets; Dynamics : Application of control volume to continuity, energy and momentum – Euler's equation of motion along a stream line – Bernoulli's equation – Applications to velocity and discharge measurements – Linear momentum equation – Application to Pipe bends – Moment of momentum equation.

UNIT III DIMENSIONAL ANALYSIS AND MODEL STUDIES **7**

Fundamental dimensions – Dimensional homogeneity – Rayleigh's method and Buckingham Pi theorem – Dimensionless parameters – Similitude and model studies – Distorted and undistorted models.

UNIT IV INCOMPRESSIBLE VISCOUS FLOW **10**

Reynolds experiment – Laminar flow in pipes and between parallel plates – Development of laminar and turbulent flows in pipes – Darcy-Weisbach equation – Moody diagram – Major and minor losses of flow in pipes – Total energy line – Hydraulic grade line – Siphon – Pipes in series and parallel – Equivalent pipes.

UNIT V BOUNDARY LAYERS **8**

Definition of boundary layers – Laminar and turbulent boundary layers – Displacement, momentum and energy thickness – Momentum integral equation – Applications – Separation of boundary layer – Drag and Lift forces.

TOTAL: 45

PERIODS OUTCOMES: On completion of the course, the student is expected to

CO1 Demonstrate the difference between solid and fluid, its properties and behaviour in static conditions.

CO2 Apply the conservation laws applicable to fluids and its application through fluid kinematics and dynamics.

CO3 Formulate the relationship among the parameters involved in the given fluid phenomenon and to predict the performance of prototypes by model studies.

CO4 Estimate the losses in pipelines for both laminar and turbulent conditions and analysis of pipes connected in series and parallel.

CO5 Explain the concept of boundary layer and its application to find the drag force excreted by the fluid on the flat solid surface.

TEXTBOOKS:

1. Modi P.N and Seth Hydraulics and Fluid Mechanics including Hydraulic Machines Standard Book House New Delhi. 2015.

2. Streeter, V.L. Wylie, E. B. and Bedford K.W, Fluid Mechanics. (9 th Ed.) Tata McGraw Hill, New Delhi, 1998.

UNIT I FLUID PROPERTIES AND FLUID STATICS

Session No.	Topics to be covered	Time (Min)	Ref.	Teaching Method
1	Scope of fluid mechanics	50	T1,T2	BB
2	Definitions of a fluid	50	T1,T2	BB
3	Methods of analysis – Continuum hypothesis	50	T1,T2	BB
4	System and Control volume approach	50	T1,T2	BB
5	Reynold's transportation theorem	50	T1,T2	BB
6	Fluid properties	50	T1,T2	BB
7	Fluid statics	50	T1,T2	BB
8	Manometry	50	T1,T2	BB
9	Forces on plane and curved surfaces	50	T1,T2	BB
10	Buoyancy and floatation – Stability of floating bodies	50	T1,T2	BB
	Unit Total	10 Periods		

UNIT II BASIC CONCEPTS OF FLUID FLOW

Session No.	Topics to be covered	Time (Min)	Ref.	Teaching Method
11	Kinematics: Classification of flows	50	T1,T2	BB
12	Streamline, streak-line and path-lines	50	T1,T2	BB
13	Stream function and velocity potentials	50	T1,T2	BB
14	Flow nets	50	T1,T2	BB
15	Dynamics : Application of control volume to continuity, energy and momentum	50	T1,T2	BB
16	Euler's equation of motion along a stream line	50	T1,T2	BB
17	Bernoulli's equation	50	T1,T2	BB
18	Applications to velocity and discharge measurements	50	T1,T2	BB
19	Linear momentum equation	50	T1,T2	BB
20	Application to Pipe bends – Moment of momentum equation	50	T1,T2	BB
	Unit Total	10 Periods		

UNIT III DIMENSIONAL ANALYSIS AND MODEL STUDIES

Session No.	Topics to be covered	Time (Min)	Ref.	Teaching Method
21	Fundamental dimensions	50	T1,T2	BB
22	Dimensional homogeneity	50	T1,T2	BB
23	Rayleigh's method	50	T1,T2	BB
24	Buckingham Pi theorem	50	T1,T2	BB
25	Dimensionless parameters	50	T1,T2	BB
26	Similitude and model studies	50	T1,T2	BB
27	Distorted and undistorted models	50	T1,T2	BB
	Unit Total	7 Periods		

UNIT IV INCOMPRESSIBLE VISCOUS FLOW

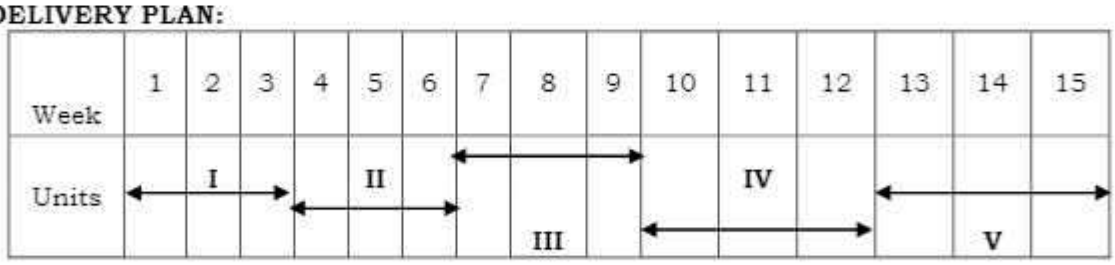
Session No.	Topics to be covered	Time (Min)	Ref.	Teaching Method
28	Reynolds experiment	50	T1,T2	BB
29	Laminar flow in pipes and between parallel plates	50	T1,T2	BB
30	Development of laminar and turbulent flows in pipes	50	T1,T2	BB
31	Darcy-Weisbach equation	50	T1,T2	BB
32	Moody diagram	50	T1,T2	BB
33	Major and minor losses of flow in pipes	50	T1,T2	BB
34	Total energy line	50	T1,T2	BB
35	Hydraulic grade line	50	T1,T2	BB
36	Siphon	50	T1,T2	BB
37	Pipes in series and parallel – Equivalent pipes	50	T1,T2	BB
	Unit Total	10 Periods		

UNIT V BOUNDARY LAYERS

Session No.	Topics to be covered	Time (Min)	Ref.	Teaching Method
38	Definition of boundary layers	50	T1,T2	BB
39	Laminar and turbulent boundary layers	50	T1,T2	BB
40	Displacement, momentum and energy thickness	50	T1,T2	BB
41	Displacement, momentum and energy thickness	50	T1,T2	BB
42	Momentum integral equation	50	T1,T2	BB
43	Applications	50	T1,T2	BB
44	Separation of boundary layer	50	T1,T2	BB
45	Drag and Lift forces	50	T1,T2	BB
	Unit Total	8 Periods		

Note: T1 refers to Text book 1, T2 refers to Text book 2, suggested in Page 1 of Lesson Plan.
BB refers to teaching with Black Board.

COURSE DELIVERY PLAN:



	Prepared by	Approved by
Signature		
Name	**Mr. A. ANANDRAJ**	**Dr. A. BELIN JUDE**
Designation	Asst. Professor	Asst. Professor and HOD
Date	22.08.2022	22.08.2022

SCE / Civil / Course committee meeting / FM-I / 2022-2023(Odd) DATE: 15.07.22

COURSE COMMITTEE MEETING – CE3301 – FLUID MECHANICS

ACADEMIC YEAR: 2022-2023 (ODD) **SEM:** 03 **REGULATION**: 2021
PROGRAM: CIVIL **DATE OF MEETING**: 15.07.22 **TIME**: 10.00 AM **Venue**: Civil Dept. HoD Cabin

Members Present

Table.1 Course committee members

S.No.	Name of the faculty & Designation, Program	Sem/Sec/Program	Signature
1.	Dr. A. Belin Jude, HoD/Civil	-	
2.	Mr. A. Anandraj, AP/Civil	III SEM/A/ Civil	

HOD welcomed the member present

1. Content of syllabus, unit wise discussed. Nature of qualitative, quantitative, problematic, theoretical concepts etc. have been discussed.
2. With reference to the R-2021 regulation, Number of periods per unit = 9, total number of periods = 45 periods.
3. Vision and mission of the college, department discussed. POs, PEOs, PSOs discussed.
4. Course outcomes defined for each units, considering learning outcomes.

Table.2 Course Outcomes

CO	Course Outcomes	POs	PSOs
C203.1	Students will be able to describe about the Fluid Properties and Fluid Statics.	1,2,3,6,7,12	1,2
C203.2	Students will be able to explain about the Fluid Kinematics and Dynamics.	1,2,3,6,7,12	1,2
C203.3	Students will be able to work out and explain about Dimensional Analysis.	1,2,3,6,7,12	1,2
C203.4	Students will be able to distinguish between laminar and turbulent flow through pipes.	1,2,3,6,7,12	1,2
C203.5	Students will be able to understand the boundary layer concepts.	1,2,3,6,7,12	1,2
C203.6	Students will be able to describe about Drag Co-efficients.	1,2,3,6,7,12	1,2

5. Mapping of COs with POs and PSOs is done with suitable correlation levels(1 for low, 2 for medium, 3 for high,"-" for no correlation, before content beyond syllabus)

Table.3 Mapping of COs, C, PSOs with POs- before CBS.

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C210.1	3	3	3	-	-	2	3	-	-	-	-	2	3	-
C210.2	3	3	3	-	-	3	3	-	-	-	-	2	3	1
C210.3	3	3	3	-	-	2	2	-	-	-	-	3	3	2
C210.4	3	3	2	-	-	2	2	-	-	-	-	3	2	2
C210.5	3	3	2	-	-	2	2	-	-	-	-	2	3	1
C210.6	3	3	1	-	-	2	1	-	-	-	-	1	3	-
C210	3	3	2	-	-	2	2	-	-	-	-	2	3	1

6. Identification of content beyond syllabus- curricular gaps are identified considering industry needs, employers feedback, alumni feedback, government policy on industrialization, new investments by private/ public sectors, societal needs and level of correlation of COs with POs and PSOs. Accordingly the details of CBS added and its correlation is given below.

Table.4 Identification of content beyond syllabus

Content beyond syllabus added	POs strengthened/Vacant filled	CO/Unit
Falkner – Skan Boundary Layer	PO5(2) Vacant filled	C210.5 & C210.6/ IV & V

7. Mapping of COs with POs, PSOs- after CBS.

Table.5 Mapping of COs, C, PSOs with POs- after CBS.

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C210.1	3	3	3	-	-	2	3	-	-	-	-	2	3	-
C210.2	3	3	3	-	-	3	3	-	-	-	-	2	3	1
C210.3	3	3	3	-	-	2	2	-	-	-	-	3	3	2
C210.4	3	3	2	-	-	2	2	-	-	-	-	3	2	2
C210.5	3	3	2	-	*2	2	2	-	-	-	-	2	3	1
C210.6	3	3	1	-	*2	2	1	-	-	-	-	1	3	-
C210	3	3	2	-	*2	2	2	-	-	-	-	2	3	1

8. Content beyond syllabus is thus identified based on the above. Plan for handling of CBS by internal/external resource person/ industrial visits are decided. This will be included in the class log book.
9. Lecture schedule should be prepared unit wise, as in the syllabus. Number of periods per unit and total number of periods planned should not be less than, periods allotted in the syllabus of Anna University.
10. Plan for additional Periods for IA tests, CBS, NPTEL delivery, Seminar, Quiz etc are to be incorporated in the lecture schedule. These periods are added exclusive of number of periods prescribed in the syllabus.
11. Plan for at least three assignments (with level of correlation), seminar topic, quiz questions discussed.
12. Separate tutorial sheets should be prepared and supplied to all students. Minimum three periods per unit to be planned, totally 15 tutorial periods. Minimum 3 tutorial questions should be set per unit, totally 15 tutorial questions.
13. Bright students and slow learners are to be identified, immediately after IA test - I. such students may be counselled suitably and the evidence for counselling to be recorded in the attendance cum assessment record. (Sign of students with date and time of counselling, to be strictly recorded and to be attached in the course file). Such counselling may be conducted after college hours.
14. For those students secured less than 60% in the IA Test, Makeup test should be conducted. Correspondingly root cause analysis for reasons of failure, corrective and preventive action, and follow up action taken should be filed properly.
15. Contents of course file to be reviewed periodically.
16. Lecture schedule, assignment questions, tutorial questions, course materials, AU questions (at least 5) should be supplied within one week after the commencement of classes.
17. Course material should be uploaded in the college website for student's reference.
18. Discrepancy in question paper, if any to be informed to the controller of examinations through web portal entry, after getting approval from the HoD & the Principal. Critically asked questions, if any to be discussed with the students of the next batch.
19. Immediately after the publication of the results, analysis are to be carried out and follow up action to be taken for the failures.
20. IA test question papers should be set as per the norms of the college, incorporating marks for learning outcomes and course outcomes. Common question papers should be set.
21. Certificate courses/Workshop/guest lectures may be planned inviting experts from industry/higher learning institutions.
22. After IA test, an objective type tests may be conducted (3 times in a semester-30 minutes duration-maximum 10 questions). Questions asked in GATE, TANCET, IES or any other Competitive examination can be taken as a reference. This is to facilitate the bright students to prepare for higher level of thinking and to enhance placement and higher studies opportunities.
23. IA test papers, assignment papers or any other papers submitted by the students, should be returned to the students within 5 days after correction. Sample paper should be suitably filed.
24. Long absentees of students if any to be informed to the parents through class coordinator, if such students attendance less than 75%.

Course coordinator **HOD / CIVIL**

Reg. No. : | | | | | | | | | | | | |

Question Paper Code : 40774

B.E./B.Tech. DEGREE EXAMINATION, APRIL/MAY 2018
Third Semester
Civil Engineering
CE 6303 – MECHANICS OF FLUIDS
(Common to Environmental Engineering)
(Regulations 2013)

Time : Three Hours | Maximum : 100 Marks

Answer ALL questions.

PART – A (10×2=20 Marks)

1. A needle 35 mm long rests on water surface at 20°C . What force over and above the needle's weight is required to lift the needle from contact with the water surface ? Take σ (for water with air) at 20°C is 0.0728 N/m.

2. What do you understand by Hydrostatic law ?

3. Write the expression for the rotational component of a fluid element in x-y, y-z and z-x plane.

4. Define the term 'vena contract'.

5. Draw the shear stress and velocity distribution diagram for the viscous flow in a circular conduit.

6. Find the head lost due to friction in a pipe of diameter 300 mm and length 50 m, through which water is flowing at a velocity of 3 m/s. Take kinematic viscosity of water is 0.01 stoke.

7. Differentiate displacement thickness and energy thickness.

8. How the drag force is different from a lift force ?

9. Deduce the expression for Froude number.

10. What is an undistorted model ?

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PART – B (5×13=65 Marks)

11. a) Define total pressure and centre of pressure and if a circular plate 2.5 m diameter is immersed in water with its greatest and least depth below the free surface being 3 m and 1 m respectively. Find (a) the total pressure on one face of the plate and (b) the position of the centre of pressure.

(OR)

b) For a compound manometer shown in figure Q. 11 b, what is the gauge pressure at C if the manometric fluid is mercury and if the fluid in the pipe and in the tubing which connects the two U tubes is water ?

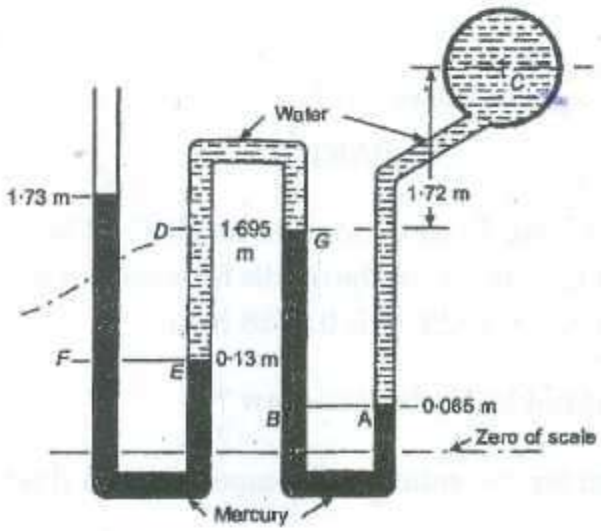


Fig. Q. 11 b

12. a) In a two dimensional incompressible flow, the fluid velocity components are given by $u = x - 4y$ and $v = -y - 4x$. Show that the velocity potential function exists and determine its form. Find also the stream function.

(OR)

b) Explain the principle of a venturimeter with a neat sketch. Derive the expression for the rate of flow of fluid through it.

13. a) Show that the difference of pressure head for a given length of the two parallel plates which are fixed and through which viscous fluid is flowing is given by $hf = (12 \mu u L)/(\rho g t^2)$.

(OR)

b) Derive an expression for the loss of head due to sudden enlargement and sudden contraction of a pipe.

14. a) For the velocity profile for laminar boundary layer $u/U = (3/2)(y/\delta) - (1/2)(y/\delta)^3$. Determine the boundary layer thickness and shear stress in terms of Reynolds number.

(OR)

b) Discuss the concept of boundary layer formation, derive the expression for displacement thickness and list the methods of boundary layer separation.

15. a) The efficiency η of geometrically similar fans depends upon the mass density of air ρ, its viscosity μ, speed of the fan N (revolutions per second), diameter of blades D and discharge Q. Perform dimensional analysis using Buckingham's theorem.

(OR)

b) Discuss the types of non-dimensional numbers and derive any two of them. Also explain the significances of these dimensionless numbers for fluid flow problem.

PART – C **(1×15=15 Marks)**

16. a) A pipe line of 0.6 m diameter is 1.5 km long. To increase the discharge another line of the same diameter is introduced parallel to the first in the second half of the length. Neglecting minor losses, find the increase in discharge if $4f = 0.04$. The head at inlet is 300 mm.

(OR)

b) The difference in water surface levels in the two tanks, which are connected by three pipes in series of lengths 300 m, 170 m and 210 m and of diameters 300 mm, 200 mm and 400 mm respectively, is 12 m. Determine the rate of flow of water if co-efficient of friction is 0.005, 0.0052 and 0.0048 respectively, considering (i) minor losses also (ii) Neglecting minor losses.

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Reg. No. : | | | | | | | | | | | | |

Question Paper Code : 50256

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2017

Third Semester

Environmental Engineering

CE 6303 – MECHANICS OF FLUIDS

(Common to Environmental Engineering)

(Regulations 2013)

Time : Three Hours | Maximum : 100 Marks

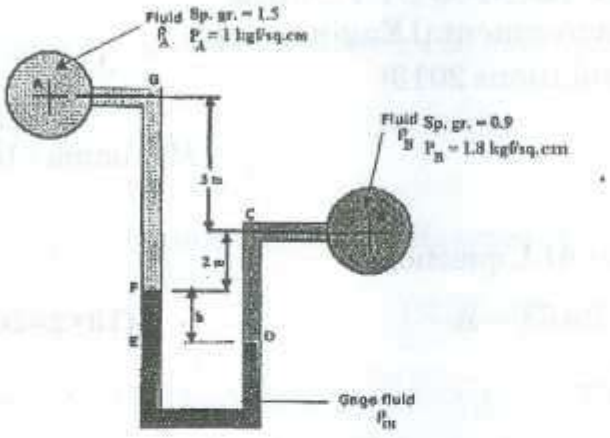
Answer ALL questions.

PART – A **(10×2=20 Marks)**

1. Differentiate Density and Viscosity.
2. Define the relationship between Absolute and Gauge Pressure.
3. Define Stream Line.
4. Explain the Continuity Equation.
5. Differentiate Major and Minor Headloss.
6. Define H.G.L.
7. Explain the term "Boundary Layer".
8. List out the Methods of Preventing the Separation of a Boundary Layer.
9. Explain the term "Dimensionless Numbers" and list any 2 Dimensionless numbers.
10. Define Model and Model Analysis.

PART – B (5×13=65 Marks)

11. a) A differential manometer is connected at the 2 points A and B of 2 pipes as shown in fig. The pipe A contains a liquid of sp. gr. = 1.5 while pipe B contains a liquid of sp. gr. = 0.9. The pressures at A and B are 1 kg.f/cm^2 and 1.8 kg. f/cm^2 respectively. Find the difference in mercury level in the differential manometer. (13)



(OR)

b) i) The dynamic viscosity of an oil, used for lubrication between a shaft and sleeve is 6 poise. The shaft is of diameter 0.4 m and rotates at 190 r.p.m. Calculate the power lost in the bearing for a sleeve length of 90 mm. The thickness of the oil film is 1.5 mm. (8)

ii) Explain the following terms : (5)

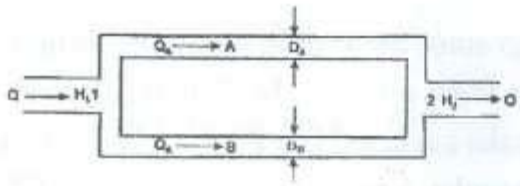
1) Mass Density
2) Specific Weight
3) Specific Volume
4) Specific Gravity

12. a) Water flows through a pipe AB 1.2 m diameter at 3 m/s and then passes through a pipe BC 1.5 m diameter. At C, pipe branches. Branch CD is 0.8 m in diameter and carries one-third of the flow in AB. The flow velocity in branch CE is 2.5 m/s. Find the volume rate of flow in AB, the velocity in BC, the velocity in CD and the diameter of CE. (13)

(OR)

b) The water is flowing through a pipe having diameters 20 cm and 10 cm at sections 1 and 2 respectively. The rate of flow through pipe is 35 lps. The section 1 is 6 m above datum and section 2 is 4 m above datum. If the pressure at section 1 is 39.24 N/cm^2, find the intensity of pressure at section 2. **(13)**

13. a) A Main Pipe divides into 2 parallel pipes which again forms one pipe as shown in fig. The length and diameter for the 1st parallel pipe are 2000 m and 1 m respectively, while the length and diameter of 2nd parallel pipe are 2000 m and 0.8 m. Find the rate of flow in each parallel pipe, if the total flow in the main is 3 m^3/s. The coefficient of friction for each parallel pipe is same and equal to 0.005. **(13)**



(OR)

b) Determine the rate of flow of water through a pipe of diameter 20 cm and length 50 m when one end of the pipe is connected to a tank and other end of the pipe is open to the atmosphere. The pipe is horizontal and the height of water in the tank is 4 m above the centre of the pipe. Consider all minor losses and take f = 0.009 in the formula $h_f = \frac{4.f.L.V^2}{2gd}$. **(13)**

14. a) Find the displacement thickness, the momentum thickness and energy thickness for the velocity distribution in the boundary layer given by $u/U = y/\delta$, where u is the velocity at a distance y from the plate and u = U at $y = \delta$, where δ = boundary layer thickness. Also calculate the value of δ^*/θ. **(13)**

(OR)

b) Air is flowing over a flat plate 500 mm long and 600 mm wide with a velocity of 4 m/s. The kinematic viscosity of air is given as 0.15×10^{-4} m^2/s. Find i) the boundary layer thickness at the end of the plate, ii) Shear stress at 200 mm from the leading edge and iii) drag force on one side of the plate. Take the velocity profile over the plate as $u/U = \sin(\pi/2.y/\delta)$ and density of air is 1.24 kg/m^3. **(13)**

15. a) Discuss about Buckingham's π theorem. State the procedure for solving problems. **(13)**

(OR)

b) Define Similitude and discuss its types of Similarities in detail. **(13)**

PART – C **(1×15=15 Marks)**

16. a) A standard basketball (mass = 624 grams ; 24.3 cm in diameter) is held fully under water. Calculate the buoyant force and weight. When released, does the ball sink to the bottom or float to the surface ? If it floats, what percentage of it is sticking out of the water ? If it sinks, what is the normal force, FN with which it sits on the bottom of the pool ?

(OR)

b) Explain the various applications of Bernoulli's Equation.

Reg. No. : | | | | | | | | | | | | |

Question Paper Code : 90104

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2019

Third Semester

Civil Engineering

CE 8302 – FLUID MECHANICS

(Regulations 2017)

Time : Three Hours | Maximum : 100 Marks

Answer ALL questions.

PART – A (10×2=20 Marks)

1. Write the unit and dimension for dynamic viscosity.
2. Write the unit and dimension for surface tension.
3. What are the advantages of orifice meter ?
4. A pitot tube was inserted in a river to measure the velocity of water in it. If the water rises in the tube above free surface of water is 300 mm, find the velocity of water (Cv = 0.98).
5. Illustrate the principle of dimensional homogeneity.
6. Write the fundamental dimensions and base units.
7. Illustrate the Moody's diagram.
8. What are major and minor losses of flow in pipes ?
9. Define the term boundary layer.
10. How do you classify boundary layer ?

PART – B (5×13=65 Marks)

11. a) i) Explain the difference between the solid and fluid. (7)

ii) A liquid has a mass density of 1550 kg/m^3. Calculate its specific weight, specific gravity and specific volume. (6)

(OR)

b) i) Explain briefly about the Newtonian Fluids and Non Newtonian Fluids with neat sketch. (6)

ii) Derive an expression for centre of pressure and hydrostatic pressure force for a plane submerged vertically in static liquid. (7)

12. a) i) Explain in detail about the various types of fluid flow. (6)

ii) Derive three dimensional continuity equation in Cartesian co-ordinate system. (7)

(OR)

b) i) A pitot static tube placed in the centre of a 250 mm pipe line has one leg pointing up stream and other perpendicular to that. The mean velocity in the pipe is 75% of the central velocity. Find the discharge through the pipe if the pressure difference between the two legs in 80 mm of water and take $C_v = 0.99$. (5)

ii) A venturimeter is used for measurement of discharge water in horizontal pipeline. If the ratio of upstream pipe diameter to that of throat in 2:1, upstream diameter is 300 mm the difference in pressure between the throat and upstream is equal to 3 m head of water and loss of head through meter is one-eight of the throat velocity head, calculate the discharge in the pipe. (8)

13. a) Drag force (F) of an partially submerged body is a function of relative velocity (v), linear dimension (L), surface roughness (k), fluid density (ρ), viscosity (μ), and acceleration due to gravity (g). Using Buckingham pi theorem method of dimensional analysis obtain an expressions for the drag in terms of dimensionless number. (13)

(OR)

b) The lift force 'F' on a missile is a function of its length L, velocity V, Diameter D, Angle of attack α, density ρ, viscosity μ and speed of sound 'C' of the air. Find the functional relationship in dimensionless form. (13)

14. a) Discuss in detail about the test procedure, apparatus and observation of Reynold's experiment with neat sketch. (13)

(OR)

b) Derive the Hagen-Poiseuille's equation for laminar flow of fluid in straight and circular pipe with proper assumptions and neat sketch. (13)

15. a) Describe briefly about the general characteristics of boundary layer on a flat plate and illustrate the definition for boundary layer thickness, displacement thickness and momentum thickness with neat sketch. (13)

(OR)

b) Explain in detail about the boundary layer separation phenomena and methods of controlling boundary layer separation with neat sketch. (13)

PART – C (1×15=15 Marks)

16. a) Explain in detail about the construction details and working principle of venturimeter with neat sketch and also derive the equation to determine volumetric flow rate. (15)

(OR)

b) Using Buckingham's π Theorem, show that the velocity through a circular orifice is given by $V = \sqrt{2gH}\,\phi\left[\frac{D}{H}, \frac{\mu}{\rho VH}\right]$ where H is the head causing flow, D is the diameter of the orifice, μ is the coefficient of viscosity, ρ is mass density and g is the acceleration due to gravity. (15)

Reg. No. : | | | | | | | | | | | | |

Question Paper Code : X10231

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2020

Third Semester

Civil Engineering

CE 8302 – FLUID MECHANICS

(Regulations 2017)

Time : Three Hours | Maximum : 100 Marks

Answer ALL questions

PART – A **(10×2=20 Marks)**

1. Illustrate the effect of temperature on Viscosity.
2. Distinguish between gauge pressure and absolute pressure.
3. Define flow net.
4. State momentum equation.
5. Distinguish between distorted and undistorted models.
6. State the methods of dimensional analysis.
7. List the general characteristics of laminar flow.
8. Glycerine of viscosity 0.835 Ns/m^2 flows through a 150 mm diameter, 40 m long iron pipe at a velocity of 3.25 m/s. Find the loss of head in the pipe. Take density of glycerine equal to 1260 kg/m^3.
9. Recall the ranges of Reynold's number for the flow in the boundary layer to be laminar and turbulent.
10. Define point of separation in the boundary layer.

PART – B **(5×13=65 Marks)**

11. a) i) A sluice gate is 2 m wide and 1.2 m high and hinged at the bottom. On the upstream side, there is seawater extending to a height of 1.6 m above the tip of the gate and on the downstream side, there is freshwater up to the top of the gate. Find (a) the resultant pressure force acting on the gate, (b) the position of the centre of pressure and (c) the least force acting at the top of the gate which will open the gate. Freshwater and seawater weigh 9.81 kN/m^3 and 10.05kN/m^3 respectively. **(8)**

ii) Explain with the neat sketch surface tension and capillarity and obtain necessary expressions. **(5)**

(OR)

b) i) A plate of metal 1 m × 1m × 2 mm is to be lifted up with a velocity of 0.1m/s through an infinitely extending gap 20 mm wide containing oil of specific gravity 0.9 and viscosity 2.15 Ns/m^2. Find the force required assuming the plate to remain midway in the gap. Assume the weight of the plate to be 29.5N. **(8)**

ii) Derive the equations to find the pressure inside the (a) Bubble, (b) Droplet and (c) jet. **(5)**

12. a) i) Derive Euler's equation of motion along a streamline and obtain Bernoulli's equation by its integration. State all assumptions made. **(8)**

ii) Explain the different types of classifications of flows. **(5)**

(OR)

b) i) A two-dimensional potential flow has the velocity potential of $\phi = x(2y-1)$. Determine the velocity at point P (4, 5). Also find the value of the stream function ψ at the point P. **(8)**

ii) Distinguish between Venturimeter, Orifice meter and Pitot tube. **(5)**

13. a) The thrust developed by a propeller shaft (F) depends upon angular velocity 'ω', speed of advance 'v', the diameter of the propeller 'd', the dynamic viscosity of the fluid 'μ', the density of the fluid 'ρ' and modulus of elasticity of the fluid 'K'. Using dimensional analysis (Buckingham's Π theorem) method, find the relationship between the parameters. **(13)**

(OR)

b) i) A prototype submarine moving with 40 km/hr in seawater is to be tested using a model of 1 in 30 size of the prototype in a wind tunnel. Determine the speed of air required in wind tunnel and ratio of drag between prototype and model. The kinematic viscosities of seawater and air are 0.015 stokes and 0.012 stokes respectively. The densities of seawater and air are 1030 kg/m^3 and 1.25 kg/m^3 respectively. **(8)**

ii) Discuss the guidelines for the selection of repeating variable in the dimensional analysis method. **(5)**

14. a) Derive an expression for steady laminar flow in circular pipes and prove that the max. Velocity (U_{max})/mean velocity (V) = 2 and head loss between two sections is $32\mu VL/(\rho g D^2)$, where μ is dynamic viscosity. Draw the necessary sketches. **(13)**

(OR)

b) i) Derive the Darcy-Weisbach equation for loss of head due to friction in turbulent flow through pipe. **(8)**

ii) A pipe of 5 cm diameter is carrying an oil of viscosity 0.8 stokes. If the Reynold's number of oil flow is 1800, find the velocity at radius 0.6 cm from the wall. **(5)**

15. a) Derive Von Karman momentum integral equation for bundary layer flows. **(13)**

(OR)

b) The velocity distribution in a boundary layer is given by $\frac{u}{U} = \left(\frac{y}{\delta}\right)^{\frac{1}{7}}$.

Find the displacement, momentum and energy thicknesses. **(13)**

PART – C **(1×15=15 Marks)**

16. a) A reservoir 'A' of surface-level 60 m above datum supplies fluid to a junction box through a 300 mm dia pipe of 1500 m long. From the junction box two 300 mm dia pipes each of 1500 m long feed respectively into two reservoirs whose surface levels are 30m and 15m above datum. Find the quantity of fluid entering each reservoir. Take the coefficient of friction as 0.01 for all pipes.

(OR)

b) i) Cork has a volume of 4.25 cm^3. The density of cork is 207 kg/m^3. (i) What volume of the cork is beneath the surface when the cork floats in water ? (ii) What downward force is needed to completely submerge the cork ? **(7)**

ii) A semi-circular 12 m diameter tunnel is to be built under a 45m deep lake shown in figure 16 b (ii) Determine the magnitude and direction of the hydrostatic force on the tunnel for unit length. **(8)**

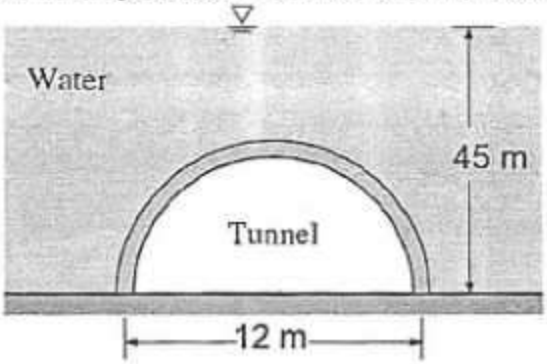


Fig. 16 (b) (ii)

Reg. No. : | | | | | | | | | | | | |

Question Paper Code : 80064

B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2019.

Third Semester

Civil Engineering

CE 8302 – FLUID MECHANICS

(Regulation 2017)

Time : Three hours Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Differentiate solid and fluid.
2. Define buoyancy.
3. Describe stream function.
4. Recall the application of Orifice-meter.
5. Describe dimensional homogeneity.
6. Describe distorted models
7. Recall the types of pipe flow based on viscosity.
8. Define major and minor losses.
9. Describe Boundary layer.
10. Define drag force.

PART B — (5 × 13 = 65 marks)

11. (a) (i) Describe the following properties of the fluid with the values of water at standard temperature and pressure: (1) Mass density, (2) Specific weight, (3) Specific gravity and (4) Viscosity. (7)

(ii) Explain surface tension and capillarity and derive an expression for capillarity. (6)

(b) (i) Compute the pressure of water in the pipe, if U tube mercury manometer is connected to a pipe line conveying water at 0.7m below the centre of pipe and the other leg (right leg) is open to atmosphere. The level of mercury in the right leg is 0.2m below the centre of pipe and the space above mercury in the right leg contains oil of specific gravity 0.9 to a height of 0.3m. (6)

(ii) Explain centre of pressure and total pressure, also derive an expression for it. (7)

12. (a) Compute the form of velocity potential if exists with proof and also find stream function in a two dimensional incompressible flow if the fluid velocity components are given by $u = x - 4y$ and $v = -y - 4x$.

Or

(b) Calculate the discharge of the oil and the pressure difference between the entrance section and throat section of a venturi-meter of size 30 cm × 15 cm fixed in a vertical pipe line carrying oil of specific gravity 0.9 flowing upwards. The difference in elevation of the throat section and entrance section of the venturimeter is 30 cm. The differential U tube mercury manometer shows a deflection of 25 cm. Take the co-efficient of meter as 0.98.

13. (a) Explain the procedure for dimensional analysis by Buckingham's law method.

Or

(b) Compute the velocity and rate of flow in the model, if a pipe of diameter 1.2 m is required to transport an oil of specific gravity 0.9 and viscosity of 0.03 poise flowing at the rate of 3000 l/s. Tests were conducted on a 15cm diameter pipe using water at 20°C. Find the velocity and rate of flow in the model. Take Viscosity of water at 20°C=0.01 poise.

14. (a) Derive Hagen — Poiseuille's equation for viscous flow through a circular pipe.

Or

(b) Determine (i) Reynolds number of flow, (ii) Centre line velocity, (iii) Wall shear stress and (iv) Power required to maintain the flow, for an oil of viscosity 1 poise and specific gravity 0.8 is flowing through 50 mm diameter pipe of length 500 m at the rate of 1.9 litres/sec.

15. (a) Calculate (i) The displacement thickness, (ii) The momentum thickness and (iii) The energy thickness in a boundary layer over the face of a high spillway for which the velocity distribution is $u/U = (y/\delta)$.

Or

(b) Describe boundary layer and the methods of preventing the separation of boundary layer.

PART C — (1 × 15 = 15 marks)

16. (a) Calculate the increase in discharge by neglecting minor losses, if a pipe line of 50 cm diameter of 1.5 km long is laid parallel to the second half of the existing line of 60 cm diameter. Take frictional coefficient of the pipe as 0.01 and head at inlet is 0.3 m.

Or

(b) Compute the forces required to drag a thin plate of surface area 0.75m^2 length 1 m, between the plane surfaces with a velocity of 0.3m/s, having 4 cm wide gap and the gap is filled with an oil of specific gravity 0.80 and dynamic viscosity 8.5 poise, if

(i) the thin plate is in the middle of the two plane surfaces

(ii) the thin plate is at a distance of 2.5 cm from one of the surfaces

UNIT – I

FLUID PROPERTIES AND FLUID STATICS

1. Define fluid mechanics.

It is the branch of science, which deals with the behavior of the fluids (liquids or gases) at rest as well as in motion.

2. Define Mass Density.

Mass Density or Density is defined as ratio of mass of the fluid to its volume (V)

Density of water = 1 gm/cm^3 or 1000 kg / m^3.

$$p = \frac{Mass\ of\ fluid}{Volume of\ fluid}$$

3. Define Specific Weight.

It is the ratio between weight of a fluid to its volume.

$$w = \frac{Weight\ of\ fluid}{Volume\ of\ fluid} = \left(\frac{Mass of\ fluid}{Volume\ of\ fluid}\right) \times g = p \times g$$

$$w = p \times g$$

Unit: N / m^3

4. Define Viscosity.

Viscosity is defined as the property of fluid, which offers resistance to the movement of one layer of fluid over another adjacent layer of fluid.

This shear stress is proportional to the rate of change of velocity.

$$\tau = \mu \frac{du}{dy}$$

$\mu \Rightarrow$ Coefficient of dynamic viscosity (or) only viscosity

du / dy = rate of shear strain

5. Define Specific Volume.

Volume per unit mass of a fluid is called specific volume

$$Sp.\ volume = \left(\frac{Volume\ of\ a\ fluid}{Mass\ of\ fluid}\right) = \frac{1}{p} = \frac{1}{\left(\frac{mass\ of\ fluid}{volume}\right)}$$

Unit: m^3 / kg.

6. Define Specific Gravity.

Specific gravity is the ratio of the weight density or density of a fluid to the weight density or density of standard fluid. It is also called as relative density.

Unit : Dimension less. Denoted as: 'S'

$$S(for liquid) = \frac{Weight\ density\ of\ liquid}{Weight\ density\ of\ water}$$

$$S(for\ gases) = \frac{Weight\ density\ of\ gas}{Weight\ density\ of\ air}$$

7. Calculate the specific weight, density and specific gravity of 1 litre of liquid which weighs 7 N.

Solution:

Given $V = 1 litre = \frac{1}{1000} m^3$

W = 7 N

i. Sp. Weight (w) $= \frac{weight}{volume} = \frac{7N}{\left(\frac{1}{1000}\right)m^3} = 7000\ N/m^3$

ii Density (p) $= \frac{w}{g} = \frac{7000\ N}{9.81 m^3} kg/m^3 = 713..5\ Kg/m^3$

iii. Sp. Gravity (S) $= \frac{Density\ of\ liquid}{Density\ of\ water} = \frac{713.5}{1000}$ (Density of water = 1000 kg / m^3)

S = 0.7135

8. State Newton's Law of Viscosity.

It states that the shear stress (τ) on a fluid element layer is directly proportional to the rate of shear strain. The constant of proportionality is called the co-efficient of viscosity

$$\tau = \mu \frac{du}{dy}$$

9. Name the Types of fluids.

1. Ideal fluid
2. Real fluid
3. Newtonian fluid
4. Non-Newtonian fluid
5. Ideal plastic fluid

10. Define Kinematic Viscosity.

It is defined as the ratio between the dynamic viscosity and density of fluid.

Represented as γ ; $\upsilon = \frac{Viscosity}{Density} = \frac{\mu}{p}$

Unit: m^2 / sec.

$$1\ Stoke = \frac{Cm^2}{S} = \left(\frac{1}{100}\right)^2 \frac{m^2}{S} = 10^{-4} m^2/s.$$

11. Find the Kinematic viscosity of an oil having density 981 kg/m. The shear stress at a point in oil is 0.2452 N/m^2 and velocity gradient at that point is 0.2 /sec.

Mass density p = 981 kg/m^3. Shear stress $\tau = 0.2452\,N/m^2$

Velocity gradient $\frac{du}{dy} = 0.2$

$$\tau = \mu \frac{du}{dy}$$

$$0.2452 = \mu \times 0.2 \Rightarrow \mu = \frac{0.2452}{0.2} = 1.226\,Ns/m^2.$$

$$kinematic\,viscosity(\upsilon) = \frac{\mu}{p} = \frac{1.226}{981}$$

$$-0.125 \times 10^{-2}\,m^2/s.$$

$$= 0.125 \times 10^{-2} \times 10^4\,cm^2/S$$

$$= 12.5\,stoke.$$

12. Determine the specific gravity of a fluid having viscosity 0.05 poise and Kinematic viscosity 0.035 stokes.

Given: Viscosity, μ = 0.05 poise = (0.05 / 10) Ns / m^2.

Kinematic viscosity ν = 0.035 stokes = 0.035 cm^2 / s

= 0.035 x 10^{-4} m^2 / s

$$\boxed{\upsilon = \frac{\mu}{p}}$$

$$0.035 \times 10^{-4} = \frac{0.05}{10} \times \frac{1}{p} \Rightarrow p = 1428.5\,kg/m^3$$

$$\text{Specific gravity of liquid} = \frac{\text{Density of liquid}}{\text{Density of water}} = \frac{1428.5}{1000} = 1.428 = 1.43$$

13. Define Compressibility.

Compressibility is the reciprocal of the bulk modulus of elasticity, K which is defined as the ratio of compressive stress to volumetric strain.

$$\therefore \quad \text{Bulk modulus } K = \frac{Increase\ of\ \text{Pr}essure}{Volumetric\ strain} = \frac{d_p}{\frac{-d\forall}{\forall}} = \boxed{-\frac{d_p}{d\forall}\forall}$$

$$\boxed{Compressibility = \frac{1}{K}}$$

14. Define Surface Tension.

Surface tension is defined as the tensile force acting on the surface of a liquid in contact with a gas or on the surface between two immiscible liquids such that the contact surface behaves like a membrance under tension.

Unit: N / m.

15. Define Capillarity:

Capillary is defined as a phenomenon of rise of a liquid surface is a small tube relative to adjacent general level of liquid when the tube is held vertically in the liquid. The resistance of liquid surface is known as capillary rise while the fall of the liquid surface is known as capillary depression. It is expressed in terms of cm or mm of liquid.

16. The Capillary rise in the glass tube is not to exceed 0.2 mm of water. Determine its minimum size, given that surface tension of water in contact with air = 0.0725 N/m

Solution:

Capillary rise, h = 0.2 mm = 0.2 x 10^3 m

Surface tension $\sigma = 0.0725\ N/m$

Let, Diameter of tube = d

Angel θ for water = 0

Density for water = 1000 kg / m^2

$$h = \frac{4\sigma}{p \times g \times d} \Rightarrow 0.2 \times 10^{-3} = \frac{4 \times 0.0725}{1000 \times 9.81 \times d}$$

$$d = \frac{4 \times 0.0725}{1000 \times 9.81 \times 0.2 \times 10^{-3}} = 0.148m = 14.8cm$$

Minimum ϕ of the tube = 14.8 cm.

17. Find out the minimum size of glass tube that can be used to measure water level if the capillary rise in the tube is to be restricted to 2mm. Consider surface tension of water in contact with air as 0.073575 N/m.

Solution:

Capillary rise h = 2.0 mm $= 2.0 \times 10^{-3} m$

Let, diameter – d

Density of water = 1000 kg / m^3

$\sigma = 0.073575\ N/m$

Angle for water $\theta = 0$

$$h = \frac{4\sigma}{p \times g \times d} \Rightarrow 2.0 \times 10^{-3} = \frac{4 \times 0.073575}{1000 \times 9.81 \times d}$$

d – 0.015 m – 1.5 cm.

Thus the minimum diameter of the tube should be 1.5 cm.

18. Define Real fluid and Ideal fluid.

Real Fluid:

A fluid, which possesses viscosity, is known as real fluid. All fluids, in actual practice, are real fluids.

Ideal Fluid:

A fluid, which is incompressible and is having no viscosity, is known as an ideal fluid. Ideal fluid is only an imaginary fluid as all the fluids, which exist, have some viscosity.

19. Write down the expression for capillary fall.

Height of depression in tube $h = \frac{4\sigma Cos\theta}{p \times g \times d}$

Where,

h = height of depression in tube.

d = diameter of the

σ = surface tension

ρ = density of the liquid.

θ = Angle of contact between liquid and gas.

20. Two horizontal plates are placed 1.25 cm apart. The space between them being filled with oil of viscosity 14 poises. Calculate the shear stress in oil if upper plate is moved with a velocity of 2.5 m/s.

Solution:

Given:

Distance between the plates, dy = 1.25 cm = 0.0125m.

Viscosity $\mu = 14$ poise $= 14 / 10$ Ns / m^2

Velocity of upper plate, u = 2.5 m/Sec.

Shear stress is given by equation as $\tau = \mu (du / dy)$.

Where du = change of velocity between the plates = u – 0 = u = 2.5 m/sec.

dy = 0.0125m.

$\tau = (14 / 10) \times (2.5 / 0.0125) = 280$ N/m^2.

UNIT II BASIC CONCEPTS OF FLUID FLOW

PART - A

1. Write down the types of fluid flow.

The fluid flow is classified as:

1. Steady and Unsteady flows.
2. Uniform and Non – uniform flows.
3. Laminar and Turbulent flows.
4. Compressible and Incompressible flows.
5. Rotational and Irrotational flows
6. One, Two and Three dimensional flows.

2. What do you understand by Continuity Equation?

The equation based on the principle of conservation of mass is called continuity equation. Thus for a fluid flowing through the pipe at all the cross-section, the quantity of fluid per second is constant.

$$A_1V_1 = A_2V_2$$

3. What is mean by Local acceleration?

Local acceleration is defined as the rate of increase of velocity with respect to time at a given point in a flow field. In total acceleration equation the expression ($\partial u / \partial t$) , ($\partial v / \partial t$) or ($\partial w / \partial t$) is known as local acceleration.

4. What is mean by Convective acceleration?

It is defined as the rate of change of velocity due to the change of position of fluid particles in a fluid flow. The expressions other than ($\partial u / \partial t$) , ($\partial v / \partial t$) and ($\partial w / \partial t$) in the total acceleration equation are known as convective acceleration.

5. Define Velocity potential function.

It is defined as a scalar function of space and time such that its negative derivative with respect to any direction gives the fluid velocity in that direction. It is defined by Φ (Phi). Mathematically, the velocity, potential is defined as $\Phi = f(x,y,z)$ for steady flow such that,

$u = -(\partial \Phi/\partial x)$ $v = -(\partial \Phi/\partial y)$ $w = -(\partial \Phi/\partial z)$ where, u,v and w are the components of velocity in x.y and z directions respectively.

6. Define Stream function.

It is defined as the scalar function of space and time, such that its partial derivative with respect to any direction gives the velocity component at right angles to that direction. It is denoted by ψ (Psi) and only for two dimensional flow. Mathematically. For steady flow is defined as $\psi = f(x,y)$ such that ,

$(\partial \psi / \partial x) = v$

$(\partial \psi / \partial y) = - u.$

7. What is mean by Flow net?

A grid obtained by drawing a series of equipotential lines and stream lines is called a flow net. The flow net is an important tool in analyzing the two – dimensional irrotational flow problems.

8. Write the properties of stream function.

The properties of stream function (ψ) are:

1. If stream function (ψ) exists, it is possible case of fluid flow which may be rotational or irrotational.

2. If stream function (ψ) satisfies the Laplace equation, it is a possible case of irrotational flow.

9. What are the types of Motion?

1. Linear Translation or Pure Translation.

2. Linear Deformation.

3. Angular deformation.

4. Rotation.

10. Define "Vortex flow".

Vortex flow is defined as the flow of a fluid along a curved path or the flow of a rotating mass of a fluid is known 'Vortex Flow'. The vortex flow is of two types namely:

1. Forced vortex flow, and

2. Free vortex flow.

11. The diameters of a pipe at the sections 1 and 2 are 10 cm and 15 cm respectively. Find the discharge through the pipe if the velocity of water flowing through the pipe section 1 is 5 m/s. Determine also the velocity at section 2.

Solution:

Given:

At section 1. D1 = 10 cm = 0.1 m.

$A1 = (\pi / 4) \text{ X } D1^2 = (\pi / 4) \text{ X } (0.1)^2 = 0.007854 \text{ m}^2$.

V1 = 5 m/s.

At section 2. D2 = 15 cm = 0.15 m.

$A2 = (\pi / 4) \text{ X } (0.15)^2 = 0.01767 \text{ m}^2$.

1. Discharge through pipe is given by

equation Q = A1 X V1

$= 0.007544 \text{ X } 5 = 0.03927 \text{ m}^3 / \text{s}$.

using equation, We have A1V1 = A2V2

V2 = (A1V1 / A2) = (0.007854 /0.01767) X 5 = 2.22 m/s.

12. Enlist the assumptions made in the derivation of Bernoulli's equation.

(i). The fluid is ideal, i.e., Viscosity is zero. (ii). The flow is steady

(iii). Te flow is incompressible. (iv). The flow is irrotational.

13. State Bernoulli's theorem for steady flow of an incompressible fluid.

It states that in a steady, ideal flow of an incompressible fluid, the total energy at any point of the fluid is constant. The total energy consists of pressure energy, kinetic energy and potential energy or datum energy. These energies per unit weight of the fluid are:

Pressure Energy = $p / \rho g$

Kinetic energy = $v^2 / 2g$

Datum Energy = z

The mathematically, Bernoulli's theorem is written as

$(p/w) + (v^2 / 2g) + z = \text{Constant}$.

14. Water is flowing through a pipe of 5 cm diameter under a pressure of 29.43 N/cm^2 (gauge) and with mean velocity of 2.0 m/s. find the total head or total energy per unit weight of the water at cross – section, which is 5 cm above the datum line. Given:

Diameter of the pipe 5 cm = 0.5 m.

Pressure $\rho = 29.43 \text{ N/cm}^2 = 29.43 \text{ X } 10^4 \text{N/m}^2$

Velocity, v = 2.0 m/s.

Datum head z = 5 m

Total head = Pressure head + Velocity head + Datum head

Pressure head = $(p/ \rho g) = (29.43\text{X}10^4 / (2\text{X}9.81)) = 30$ m

Kinetic head = $(v^2 / 2g) = (2^2 / (2X9.81)) = 0.204$

m Total head = $(p / (\rho g)) + (v^2 / 2g) + z = 30 +$

$0.204 + 5 = 35.204$m

15. A pitot – static tube is used to measure the velocity of water in a pipe. The stagnation pressure head is 6mm and static pressure head is 5m. Calculate the velocity of flow assuming the co-efficient of tube equal to 0.98.

Given:

Stagnation Pressure head, hs = 6mm.

Static pressure ht = 5 mm.

h = 6 – 5 = 1 m

Velocity of flow $V = C_V\sqrt{2gh} = 0.98X \sqrt{(2 X 9.81 X 1)} = 4.34$ m/s.

16. Write the equations of motion.

Fx = (Fg)x + (Fp)x+(Fv)x+(Ft)x+(Fc)x

If the force due to compressibility, Fc is negligible, the resulting net force.

Fx = (Fg)x + (Fp)x+(Fv)x+(Ft)x

Where Fg = gravity force

Fp = Pressure force

Fv = force due to viscosity

Ft = force due to turbulence

Fc = force due to compressibility

17. Write down the formulae for finding the discharge in Venturimeter.

$$Q = C_d \frac{a_1 a_2}{\sqrt{a_1^2 - a_2^2}} X\sqrt{2gh}$$

Where a1 = area of the inlet of venturi meter.

a2 = area at the throat

Cd = co-efficient of venture meter.

h = difference of pressure head in terms of fluid head flowing through venture meter

18. A sub-marine moves horizontally in a sea and has its axis 15 m below the surface of water. A pitot tube properly placed just in front of the sub-marine and along its axis connected to the two limbs of a U – tube containing mercury. The difference of mercury level is found to be 170 mm. find the speed of the sub-marine knowing that the sp.gr. of mercury is 13.6 and that of sea-water is 1.026 with respect fresh water.

Given :

Diff. of mercury level x = 170 mm = 0.17 m

Sp. gr. Of mercury Sg = 13.6

Sp. gr. Of sea-water So = 1.026

h = x[(*Sg* / *So*)- 1] = 0.17 [(13.6/1.026) -1] = 2.0834

m V = $2gh = 2 X 9.81 X 20.834$ = 6.393 m/s.

19. Write the impulse momentum equation.

$$F \times dt = d(mv)$$

Where F = Force acting

m = Mass v = Velocity dt = With respect to time

mv = Momentum

20. Write Euler equation of motion.

$dp/\rho + gdz + vdv = 0$

21. Write the continuity equation in three dimensional differential form.

$\partial u / \partial x + \partial v / \partial y + \partial w / \partial z = 0$

22. What are the applications of Bernoulli's equation?

1. Venturimeter

2. Orificmeter

3. Pitot tube

23. Write the moment of momentum equation and its application.

$T = \rho Q[V_2 r_2 - V_1 r_1]$

T = Torque P = Density Q = Discharge V_1, V_2 = Velocity at section 1 and

2 r_1, r_2 = radius of curvature at section 1 and 2

1. For analysis of flow problems in turbines and centrifugal pumps.

2. For finding torque exerted by water on sprinkler.

UNIT III

DIMENSIONAL ANALYSIS AND MODEL STUDIES

PART - A

1. What do you mean by Dimensional analysis?

Dimensional analysis is defined as a mathematical technique used in research work for design and conducting model tests.

2. What are Fundamental dimensions?

The fundamental units quantities such as length (L), mass (M), and time (T) are fixed dimensions known as fundamental dimensions.

3. Define Units.

Unit is defined as a yardstick to measure physical quantities like distance, area, volume, mass etc.

4. Derive the dimensions for velocity.

Velocity is the distance (L) travelled per unit time (T)

Velocity = Distance/ Time = $[L/T] = LT^{-1}$.

5. Differentiate Model and Prototype.

Model is nothing but small-scale repetition of the actual structure or machine or component.

Prototype is the actual size of the structure or machine or component.

6. List out the advantages of model analysis.

The advantages of model analysis are:

1. The performance of hydraulic structure or machine can be easily predicted in advance from its model.

2. The merits of alternative design can be predicted with the help of model testing and the most economical and safe design may be finally adopted.

7. Enlist the types of Similitude.

The three types of similarities are,

1. Geometric similarity
2. Kinematic similarity
3. Dynamic similarity

8. Define Scale ratio.

Scale ratio is the ratio of linear dimension in the model and prototype which are equal in a geometric similarity. It is denoted by Lr.

Lr = Lp/Lm = bp/bm = Dp/Dm

9. What do you mean by Dynamic similarity?

It means the similarity of forces at corresponding points in the model and prototype is equal.

10. What are all the forces acting in a moving fluid?

The types of forces in a moving fluid are,

1. Inertia force (Fi)
2. Viscous force (Fv)
3. Gravity force (Fg)
4. Pressure force (Fp)
5. surface tension (Fs)
6. Elastic force (Fe)

11. What are Dimensionless numbers?

Dimensionless numbers are the numbers obtained by dividing inertia force or gravity force or pressure force or elastic force or surface tension. They are called as non-dimensional parameters.

12. Define Surface tension.

Surface tension force is defined as the product of surface tension and length of surface of flowing fluid.

13. Define Pressure force.

Pressure force is the product of pressure intensity and cross-sectional area of the flowing fluid in case of pipe flow.

14. Define Elastic force.

Elastic force is defined as the product of elastic stress and the area of flowing fluid.

15. Jot down the types of dimensionless numbers.

The types of dimensionless numbers are:

1. Reynold's number
2. Froude's number
3. Euler's number
4. Weber's number
5. Mach's number

16. Define Reynold's number.

Reynold's number is defined as the ratio of inertia force of flowing fluid and viscous force of the fluid. It is denoted by (Re)

Re = V x d / v = ρ V d / μ

17. Define Froude's number.

Froude's number is defined as square root of ratio of inertia force of flowing fluid to gravity. It is denoted as Fr = $\sqrt{\frac{F_i}{f_g}} = \frac{V}{\sqrt{Lg}}$

18. Write the Classification of models.

The classifications of models are

i. Undistorted models

ii. Distorted models

19. Define Undistorted model.

If the scale ratio for the linear dimensions of the model and prototype is same, then the model is said to be undistorted model.

20. Define Distorted model.

A distorted model is said to be a distorted model only when it is not geometrically similar to prototype.

21. What are the advantages of distorted models?

The advantages of distorted models are,

1. The vertical dimensions of the model can be measured accurately.
2. The cost of model can be reduced.
3. Turbulent flow in the model can be maintained.

22. List out the types of model laws.

The types of model laws are

1. Reynolds's model laws
2. Froude's model laws
3. Euler's model laws
4. Weber's model laws
5. Mach's model laws

23. List out the application of Froude's model laws.

Froude's model laws is applied in

1. Free surface flow such as flow over spillways, weirs, sluices, channels etc.
2. Flow of jet from an orifice or nozzle.
3. Where waves are likely to be formed on surface.
4. Where fluids of different densities flow over one anther.

UNIT INCOMPRESSIBLE VISCOUS FLOW

PART - A

1. Define Hydraulic gradient line.

It is defined as the line which gives the sum of pressure head ($P/\rho g$) and datum head (z) of a flowing fluid in a pipe with respect to some reference line or is the line which is obtained by joining the top of all vertical ordinates, showing the pressure head ($P/\rho g$) of a pipe from the center of the pipe. It is briefly written as H.G.L.

2. Write about Major energy loss and minor energy loss in pipe.

The loss of head or energy due to friction in pipe is known as major loss while the loss of energy due to change of velocity of the flowing fluid in magnitude or direction is called minor loss of energy.

3. Define Total Energy line.

It is defined as the line, which gives sum of pressure head, datum head and kinetic head of a flowing fluid in a pipe with respect to some reference line.

4. What do you mean by Equivalent pipeline?

An Equivalent pipe is defined as the pipe of uniform diameter having loss of head and discharge of a compound pipe consisting of several pipes of different lengths and diameters.

5. Write a short note on Water Hammer in pipes.

Wave of high pressure has the effect of hammering action on the walls of pipe and hence it is known as water hammer. The pressure rise due to water hammer depends upon

1) Velocity of flow of water in pipe. 2) Length of pipe.

3) Time taken to close the valve (Sudden or Gradual)

4) Elastic property of the material of pipe.

6. How pipes are connected in series?

Pipes in series or compound pipes is defined as the pipes of different lengths and different diameters connected end to end (in series) to form a pipe line.

7. How pipes are connected in series?

The pipes are said to be parallel, when a main pipe divides into two or more parallel pipes, which again join together downstream and continues as a mainline. The pipes are connected in parallel in order to increase the discharge passing through the main.

8. Write Chezy's formula.

Chezy's formula is generally used for the flow through open channel.

$V = C\sqrt{mi}$

Where , C = chezy's constant, m = hydraulic mean depth and i = hf/ L.

9. Write the formula for finding the loss of head due to entrance of pipe.

$h_{entrance} = 0.5 (V^2 / 2g)$

10. Write the formula to finding efficiency of power transmission through pipes.

$$\eta = \frac{power\ available\ at\ outlet\ of\ the\ pipe}{power\ supplied\ at\ the\ inlet\ of\ the\ pipe}$$

$\acute{\eta} = (H - h_f) / H$

where, H = Total head at inlet of pipe.

h_f = Head lost due to friction

11. Write Darcy Weisbach equation.

$h_f = 4fLV^2 / 2gD$

h_f = Head lost due to friction f = Friction factor L = Length of the pipe

V = Velocity of fluid at pipe g = Acceleration due to gravity D = Diameter of the pipe

12. What are the examples laminar flow / viscous flow?

(i) Flow past tiny bodies,

(ii) Underground flow,

(iii) Movement of blood in the arteries of human body,

(iv) Flow of oil in measuring instruments,

(v) Rise of water in plants through their roots etc.,

13. Write the formula for loss of pressure head in viscous flow through circular pipes.

$$\frac{p_1 - p_2}{\rho g} = h_f = \frac{32\mu\bar{u}L}{\rho g D^2}$$

It is also now as Hagen Poisulle's formula.

14. Enlist various Minor energy losses.

a) Sudden expansion of pipe

b) Sudden contraction of pipe

c) Bend in pipe

d) Pipe fitting

e) An obstruction in pipe, etc.

15. Write the formula for velocity distribution in viscous flow through circular pipes.

$$u = -\frac{1}{4\mu}\frac{\partial p}{\partial x}[R^2 - r^2]$$

16. What is the ratio of maximum velocity to average velocity in viscous flow through circular pipes.

$$\frac{Umax}{\overline{u}} = \frac{-\frac{1}{4\mu}\frac{\partial p}{\partial x}R^2}{\frac{1}{8\mu}(-\frac{\partial p}{\partial x})R^2} = 2.0$$

17. Write the formula for loss of pressure head in viscous flow through parallel plates.

$$h_f = \frac{12\mu\overline{u}L}{\rho g t^2}$$

18. Write the formula for velocity distribution in viscous flow through parallel plates.

$$u = -\frac{1}{2\mu}\frac{\partial p}{\partial x}[ty - y^2]$$

19. What is the ratio of maximum velocity to average velocity in viscous flow through parallel plates.

$$\frac{Umax}{\overline{u}} = \frac{-\frac{1}{8\mu}\frac{\partial p}{\partial x}t^2}{\frac{1}{12\mu}(-\frac{\partial p}{\partial x})t^2} = 3/2$$

20. What is Kinetic energy correction factor?

$$\alpha = \frac{K.E/\sec based\ on\ actual\ velocity}{K.E/\sec based\ on\ average\ velocity}$$

21. What is Momentum correction factor?

$$\beta = \frac{momentum\ \ per\ second\ based\ on\ actual\ velocity}{Momentum\ per\ second\ based\ on\ average\ velocity}$$

22. What are the methods for determination of co-efficient of viscosity?

1. Capillary tube method.
2. Falling sphere resistance method.
3. By rotating cylinder method.
4. Orifice type viscometer.

23. Write the formula for finding the loss of head due to bend in a pipe.

$$h_b = \frac{kV^2}{2g}$$

The value of 'k' is depends upon

a) Angle of bend.

b) Radius of curvature of bend.

c) Diameter of pipe.

24. Derive maximum efficiency for transmission of power.

Condition for maximum transmission of power

Maximum efficiency of transmission of power:

$$\eta_{max} = \frac{H - H/3}{H}$$

$$\eta_{max} = 66.7\%$$

UNIT V

BOUNDARY LAYERS

PART - A

1. Define Boundary layer.

When a solid body is immersed in a flowing fluid, there is a narrow region of the fluid in neighbourhood of the solid body, where the velocity of fluid varies from zero to free stream velocity. This narrow region of fluid is called boundary layer.

2. Define Laminar sub layer.

In turbulent boundary layer region, adjacent to the solid boundary velocity for a small thickness variation is influenced by various effects. This layer is called as laminar sub layer.

3. Define Boundary layer thickness.

It is defined as the distance from the boundary of the solid body measured in the y – direction to the point where the velocity of the fluid is approximately equal to 0.99 times the free stream (v) velocity of the fluid.

4. **Define Momentum thickness**.

It is defined as the distance, measured perpendicular to the boundary of the solid body, by which the boundary should be displaced to compensate for the reduction in momentum of the flowing fluid of boundary.

$$\theta = \int [(u/U) - (u/U)^2]dy$$

5. Define Incompressible flow.

It is define as the type of flow in which the density is constant for the fluid flow. Mathematically ρ = constant. Examples: Subsonic, aerodynamics.

6. What are the different methods of preventing the separation of boundary layers?

1. Suction of slow moving fluid by suction slot.
2. Supplying additional energy from a blower.
3. Providing a bypass in the slotted wring.
4. Rotating boundary in the direction of flow.
5. Providing small divergence in diffuser.
6. Providing guide – blades in a bend.

7. Give some examples for laminar flow / viscous flow.

(i) Flow past tiny bodies.

(ii) Underground flow.

(iii) Movement of blood in the arteries of human body.

(iv) Flow of oil in measuring instruments.

(v) Rise of water in plants through their roots etc.,

8. What are the characteristics of laminar flow?

(i) No slip at the boundary.

(ii) Due to viscosity, there is a shear between fluid layers, which is given by t = m(du / dy) for flow in x- direction.

(iii)The flow is rotational.

(iv) Due to viscous shear, there is continuous dissipation of energy and for maintaining the flow must be supplied externally.

(v) Loss of energy is proportional to first power of velocity and first power of viscosity.

(vi) No mixing between different fluid layers (except by molecular motion, which is very small)

9. Differentiate between laminar boundary layer and turbulent boundary layer.

The boundary layer is called laminar, if the Renolds number of the flow is defined as Re = U **x** X / v(Nu) is less than $5x10^5$

If the Renolds number is more than $5x10^5$, the boundary layer is called turbulent boundary.
Where, U = Free stream velocity of flow

X = Distance from leading edge

V(Nu) = Kinematic viscosity of fluid

10. List the various types of boundary layer thickness.

a. Displacement thickness(δ*),

b. Momentum thickness(θ),

c. Energy thickness(δ**)

11. Define displacement thickness.

The displacement thickness (δ) is defined as the distance by which the boundary should be displaced to compensate for the reduction in flow rate on account of boundary layer formation.

$\delta^* = \int [\, 1 - (u/U) \,]\, dy$

12. Define energy thickness.

The energy thickness (δ**) is defined as the distance by which the boundary should be displaced to compensate for the reduction in kinetic energy of the flowing fluid on account of boundary layer formation.

$\delta^{**} = \int [(u/U) - (u/U)^3] dy$

13. Differentiate between Drag and Lift.

The component of the total force (F_R) in the direction of motion is called "drag". This component is denoted by F_D. Thus drag is the force exerted by the fluid in the direction of motion.

The component of the total force (F_R) in the direction perpendicular to the direction of motion is called "lift". This component is denoted by F_L. Thus lift is the force exerted by the fluid in the direction perpendicular to the direction of motion.

14. Define Drag and Lift Co-efficient.

$F_D = C_D \times A \times (\rho U^2/2)$ where C_D = Drag Co-efficient

$F_L = C_L \times A \times (\rho U^2/2)$ where C_L = Lift Co-efficient

15. Write the formula for resultant force and its direction.

$F_R = \sqrt{(F_D^2 + F_L^2)}$

$\Theta = \tan^{-1}(F_L / F_D)$

16. What is the power required to keep the plate in motion?

P = (Force in the direction of motion x Velocity) /

1000 **17. Enlist types of drag.**

1. Drag due to Pressure – **Pressure Drag or Form Drag**
2. Drag due to shear stress – **Shear Drag or Friction Drag or Skin Drag**
3. Drag due to Pressure and shear stress – Total Drag

18. State Von Karman Momentum Integral Equation.

$$\tau_o = \rho U^2 \frac{d\theta}{dx}$$

19 Write the formula for laminar boundary layer and co-efficient of drag according to Blasius solution.

Small Delta = $\delta = (4.91X / \sqrt{Re})$

$C_D = (1.328 / \sqrt{Re})s$

Saranathan College of Engineering

Tiruchirapalli

Internal Assessment Test - II			Date/ Session	17.10.22/ FN	Marks	50
Course code	CE3301	Course Title	Fluid Mechanics			
Batch No.		Duration	90 mins	Academic Year	2022 - 2023	
Year/	II	Semester/ Section	III / A	Department	Civil Engineering	

Part – A

(Answer all the questions 10 x 2 = 20marks)

Q. No.	Questions	CO	Skills
1	Enlist the assumptions made in the derivation of Bernoulli's equation.	C205.2	R
2	Write the moment of momentum equation and its applications.	C205.2	R
3	Write the impulse momentum equation.	C205.2	R
4	Write down the formulae for finding the discharge in Venturimeter.	C205.2	R
5	What are the applications of Bernoulli's equation?	C205.2	R
6	What do you mean by dimesnsional analysis?	C205.3	R
7	What are fundamental dimensions?	C205.3	R
8	Derive the dimensions of velocity.	C205.3	R
9	What do you mean by dimensional similarity?	C205.3	R
10	Jot down the types of dimensionless numbers.	C205.3	R

Part – B

(Answer all the questions 2 x 10 = 20marks)

Q. No.	Questions	CO	Skills
11	A pipe line carrying liquid of specific gravity 0.92, changes in diameter from 200mm to 500mm. The larger end is 4m above the datum. If pressures at both sections are 9.81 N/cm^2 and 5.886 N/cm^2 respectively, determine the head loss. The rate of flow is 3.33 x 10^{-3} m^3/s.	C205.2	U
	Or		
12	The water is flowing through a pipe having diameters 20 cm and 10 cm at Sections 1 and 2 respectively. The rate of flow through pipe is 35 litres/sec. The Section 1 is 6 m above datum and Section 2 is 4 m above the datum. If the pressure at Section 1 is 39.24 N/cm^2, find the intensity of pressure at Section 2.	C205.2	U
13	A horizontal venturimeter with inlet diameter 20 cm and throat diameter 10 cm is used to measure the flow of oil of specific gravity 0.8. The discharge of oil through venturimter is 60 litres/s. Find the reading of oil-mercury differential manometer. Take C_d = 0.98.	C205.2	U
	Or		
14	Find an expression for the drag force on smooth sphere of diameter D, moving with a uniform velocity V in a fluid of density ρ and dynamic viscosity μ.	C205.2	AZ

Part – C (1 x 10 =10)			
15	The efficiency η of a fan depends on the density ρ, the dynamic viscosity μ, of the fluid, the angular velocity ω, diameter D of the rotor and the discharge Q. Express η in terms of dimensionless parameters. Use Rayleigh's Method.	C205.3	AZ
Or			
16	Derive on the basis of dimensional analysis suitable parameters to present the thrust developed by a propeller. Assume that thrust force P depends upon the angular velocity ω, speed of advance V, diameter D, dynamic viscosity μ, mass density ρ, elasticity of the fluid medium which can be denoted by the velocity of sound in the medium C.	C205.3	AZ

Bloom's Skills: Remember (R), Understand (U), Apply (A), Analyze (AZ), Evaluate (E) and Create (C). Skill need to be mentioned against each question

Saranathan College of Engineering

Tiruchirapalli

Internal Assessment Test - I			Date/ Session	21-09-2021	Marks	50
Course code	CE3301	Course Title	Fluid Mechanics			
Batch No.		Duration	90 mins	Academic Year		2022 -2023 ODD
Year	II	Semester/ Section	III / A	Department		Civil Engineering

Part – A

(Answer all the questions 10 x 2 = 20 marks)

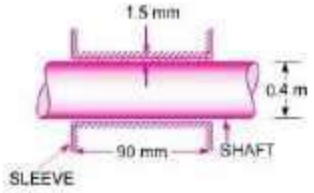
Q. No.	Questions	CO	Skills
1	Define Mass density and specific weight. Mass Density or Density is defined as ratio of mass of the fluid to its volume (V) Density of water = 1 gm/cm^3 or 1000 kg / m^3. $p = \frac{Mass\ of\ fluid}{Volume of\ fluid}$ It is the ratio between weight of a fluid to its volume $w = \frac{Weight\ of\ fluid}{Volume\ of\ fluid} = \left(\frac{Mass of\ fluid}{Volume\ of\ fluid}\right) \times g = p \times g$ $w = p \times g$ Unit: N / m^3	C203.1	R
2	Define Viscosity, its types and respective formula. Viscosity is defined as the property of fluid, which offers resistance to the movement of one layer of fluid over another adjacent layer of fluid. This shear stress is proportional to the rate of change of velocity. $\tau = \mu \frac{du}{dy}$ $\mu \Rightarrow$ Coefficient of dynamic viscosity (or) only viscosity du / dy = rate of shear strain	C203.1	R

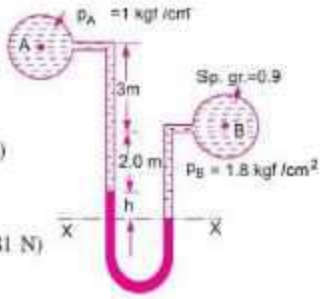
3	Calculate the specific weight, density and specific gravity of 1 litre of liquid which weighs 7 N. Given $V = 1litre = \frac{1}{1000} m^3$ W = 7 N i. Sp. Weight (w) $= \frac{weight}{volume} = \frac{7N}{\left(\frac{1}{1000}\right)m^3} = 7000\ N/m^3$ ii Density (p) $= \frac{w}{g} = \frac{7000\ N}{9.81 m^3} kg/m^3 = 713..5\ Kg/m^3$ iii. Sp. Gravity (S) $= \frac{Density\ of\ liquid}{Density\ of\ water} = \frac{713.5}{1000}$ (Density of water = 1000 kg / m^3) S = 0.7135	C203.1	A
4	Define Capillarity. Capillary is defined as a phenomenon of rise of a liquid surface is a small tube relative to adjacent general level of liquid when the tube is held vertically in the liquid. The resistance of liquid surface is known as capillary rise while the fall of the liquid surface is known as capillary depression. It is expressed in terms of cm or mm of liquid.	C203.1	R
5	The Capillary rise in the glass tube is not to exceed 0.2 mm of water. Determine its minimum size, given that surface tension of water in contact with air = 0.0725 N/m. $h = \frac{4\sigma}{p \times g \times d} \Rightarrow 0.2 \times 10^{-3} = \frac{4 \times 0.0725}{1000 \times 9.81 \times d}$ $d = \frac{4 \times 0.0725}{1000 \times 9.81 \times 0.2 \times 10^{-3}} = 0.148m = 14.8cm$ Minimum ϕ of the tube = 14.8 cm.	C203.1	A
6	What do you understand by Continuity Equation? The equation based on the principle of conservation of mass is called continuity equation. Thus for a fluid flowing through the pipe at all the cross-section, the quantity of fluid per second is constant. $A_1V_1 = A_2V_2$	C203.2	R
7	Write the equations of motion. Fx = (Fg)x + (Fp)x+(Fv)x+(Ft)x+(Fc)x If the force due to compressibility, Fc is negligible, the resulting net force. Fx = (Fg)x + (Fp)x+(Fv)x+(Ft)x Where Fg = gravity force Fp = Pressure force Fv = force due to viscosity Ft = force due to turbulence Fc = force due to compressibility	C203.2	R

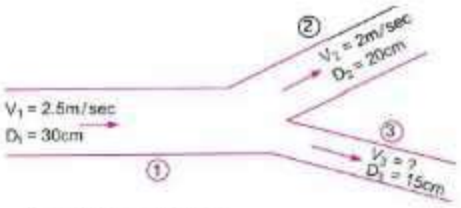
8	Write down the formulae for finding the discharge in Venturimeter. $Q = C_d \frac{a_1 a_2}{\sqrt{a_1^2 - a_2^2}} X\sqrt{2gh}$ Where a1 = area of the inlet of venturi meter. a2 = area at the throat Cd = co-efficient of venture meter. h = difference of pressure head in terms of fluid head flowing through venture meter	C203.2	R
9	Write Bernoulli's equation. It states that in a steady, ideal flow of an incompressible fluid, the total energy at any point of the fluid is constant. The total energy consists of pressure energy, kinetic energy and potential energy or datum energy. These energies per unit weight of the fluid are: Pressure Energy = $p / \rho g$ Kinetic energy = $v^2 / 2g$ Datum Energy = z The mathematically, Bernoulli's theorem is written as $(p/w) + (v^2 / 2g) + z$ = Constant.	C203.2	R
10	List out various applications of Bernoulli's equation. 1. Venturimeter 2. Orificmeter 3. Pitot tube	C203.2	R

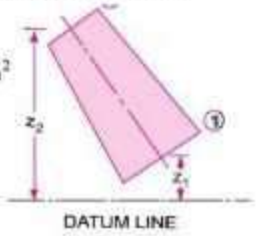
Part – B

(Answer all the questions 2 x 10 = 20 marks)

Q. No.	Questions	CO	Skills
11	The dynamic viscosity of oil, used for lubrication between a shaft and sleeve is 6 poise. The shaft is of diameter 0.4 m and rotates at 190 rpm. Calculate the power lost in the bearing for a sleeve length of 90 mm. The thickness of the oil film is 1.5 mm. **Solution.** Given : Viscosity $\mu = 6$ poise $= \frac{6}{10}\frac{\text{Ns}}{\text{m}^2} = 0.6\,\frac{\text{Ns}}{\text{m}^2}$ Dia. of shaft, $D = 0.4$ m Speed of shaft, $N = 190$ r.p.m Sleeve length, $L = 90\text{ mm} = 90 \times 10^{-3}$ m Thickness of oil film, $t = 1.5\text{ mm} = 1.5 \times 10^{-3}$ m  Fig. 1.5 Tangential velocity of shaft, $u = \frac{\pi DN}{60} = \frac{\pi \times 0.4 \times 190}{60} = 3.98$ m/s Using the relation $\tau = \mu \frac{du}{dy}$ where du = Change of velocity $= u - 0 = u = 3.98$ m/s dy = Change of distance $= t = 1.5 \times 10^{-3}$ m $\tau = 10 \times \frac{3.98}{1.5 \times 10^{-3}} = 1592$ N/m^2 This is shear stress on shaft $\therefore$ Shear force on the shaft, F = Shear stress × Area $= 1592 \times \pi D \times L = 1592 \times \pi \times .4 \times 90 \times 10^{-3} = 180.05$ N Torque on the shaft, T = Force $\times \frac{D}{2} = 180.05 \times \frac{0.4}{2} = 36.01$ Nm $\therefore$ *Power lost $= \frac{2\pi NT}{60} = \frac{2\pi \times 190 \times 36.01}{60} =$ **716.48 W. Ans.**	C203.1	AZ
	OR		

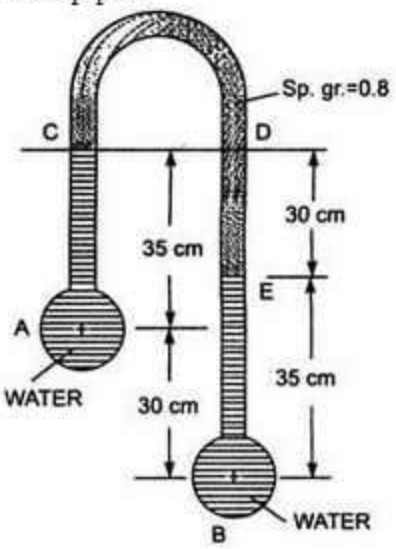
12	A differential manometer is connected at two points A and B of two pipes. The pipe A contains a liquid of specific gravity 1.5 while pipe B contains a liquid of specific gravity 0.9. The pressure at A and B are 9.81 N/m^2 and 17.658 N/m^2 respectively. The height difference between right limb and left limb is 3 m from top in which left limb is in higher elevation. The distance between the centre of pipe B and starting level of mercury is 2 m. The pressure maintained is vaccum pressure. Find the difference in mercury level. **Solution.** Given : Sp. gr. of liquid at A, $S_1 = 1.5$ $\therefore$ $\rho_1 = 1500$ Sp. gr. of liquid at B, $S_2 = 0.9$ $\therefore$ $\rho_2 = 900$ Pressure at A, $p_A = 1$ kgf/cm^2 $= 1 \times 10^4$ kgf/m^2 $= 10^4 \times 9.81$ N/m^2 ($\because$ 1 kgf = 9.81 N) Pressure at B, $p_B = 1.8$ kgf/cm^2 $= 1.8 \times 10^4$ kgf/m^2 $= 1.8 \times 10^4 \times 9.81$ N/m^2 ($\because$ 1 kgf = 9.81 N) Density of mercury $= 13.6 \times 1000$ kg/m^3 Taking X-X as datum line. Pressure above X-X in the left limb $= 13.6 \times 1000 \times 9.81 \times h + 1500 \times 9.81 \times (2 + 3) + p_A$ $= 13.6 \times 1000 \times 9.81 \times h + 7500 \times 9.81 + 9.81 \times 10^4$ Pressure above X-X in the right limb $= 900 \times 9.81 \times (h + 2) + p_B$ $= 900 \times 9.81 \times (h + 2) + 1.8 \times 10^4 \times 9.81$ Equating the two pressure, we get $13.6 \times 1000 \times 9.81h + 7500 \times 9.81 + 9.81 \times 10^4$ $= 900 \times 9.81 \times (h + 2) + 1.8 \times 10^4 \times 9.81$ Dividing by 1000×9.81, we get $13.6h + 7.5 + 10 = (h + 2.0) \times .9 + 18$ or $13.6h + 17.5 = 0.9h + 1.8 + 18 = 0.9h + 19.8$ or $(13.6 - 0.9)h = 19.8 - 17.5$ or $12.7h = 2.3$ $\therefore$ $h = \frac{2.3}{12.7} = 0.181$ m = **18.1 cm. Ans.**  Fig. 2.19	C203.1	AZ

13	A 30 cm diameter pipe, conveying water, branches into two pipes of diameters 20 cm and15 cm respectively. If the average velocity in the 30 cm pipe is 2.5 m/s, find the discharge in this pipe. Also determine the velocity in 15 cm pipe if the average velocity in 20 cm diameter pipe is 2 m/s. **Solution.** Given :  $D_1 = 30 \text{ cm} = 0.30 \text{ m}$ $\therefore \quad A_1 = \frac{\pi}{4} D_1^2 = \frac{\pi}{4} \times .3^2 = 0.07068 \text{ m}^2$ $V_1 = 2.5 \text{ m/s}$ $D_2 = 20 \text{ cm} = 0.20 \text{ m}$ $\therefore \quad A_2 = \frac{\pi}{4} (.2)^2 = \frac{\pi}{4} \times .4 = 0.0314 \text{ m}^2,$ $V_2 = 2 \text{ m/s}$ $D_3 = 15 \text{ cm} = 0.15 \text{ m}$ $\therefore \quad A_3 = \frac{\pi}{4} (.15)^2 = \frac{\pi}{4} \times 0.225 = 0.01767 \text{ m}^2$ Find (*i*) Discharge in pipe 1 or Q_1 (*ii*) Velocity in pipe of dia. 15 cm or V_3 Let Q_1, Q_2 and Q_3 are discharges in pipe 1, 2 and 3 respectively. Then according to continuity equation $Q_1 = Q_2 + Q_3 \quad \ldots(1)$ (*i*) **The discharge Q_1** in pipe 1 is given by $Q_1 = A_1 V_1 = 0.07068 \times 2.5 \text{ m}^3/\text{s} =$ **0.1767 m³/s. Ans.** (*ii*) **Value of V_3** $Q_2 = A_2 V_2 = 0.0314 \times 2.0 = 0.0628 \text{ m}^3/\text{s}$ Substituting the values of Q_1 and Q_2 in equation (1) $0.1767 = 0.0628 + Q_3$ $\therefore \quad Q_3 = 0.1767 - 0.0628 = 0.1139 \text{ m}^3/\text{s}$ But $\quad Q_3 = A_3 \times V_3 = 0.01767 \times V_3 \quad$ or $\quad 0.1139 = 0.01767 \times V_3$ $\therefore \quad V_3 = \frac{0.1139}{0.01767} =$ **6.44 m/s. Ans.**	C203.2	AZ
	OR		

14	A pipe line carrying liquid of specific gravity 0.92, changes in diameter from 200mm to 500mm. The larger end is 4m above the datum. If pressures at both sections are 9.81 N/cm^2 and 5.886 N/cm^2 respectively, determine the head loss. The rate of flow is 3.33 x 10^{-3} m^3/s. **Solution.** Given : **Section 1,** $D_1 = 300$ mm $= 0.3$ m $p_1 = 24.525$ N/cm^2 $= 24.525 \times 10^4$ N/m^2 **Section 2,** $D_2 = 200$ mm $= 0.2$ m $p_2 = 9.81$ N/cm^2 $= 9.81 \times 10^4$ N/m^2 Rate of flow $= 40$ lit/s or $Q = \frac{40}{1000} = 0.04$ m^3/s  Now $A_1V_1 = A_2V_2 =$ rate of flow $= 0.04$ $\therefore V_1 = \frac{.04}{A_1} = \frac{.04}{\frac{\pi}{4}D_1^2} = \frac{0.04}{\frac{\pi}{4}(0.3)^2} = 0.5658$ m/s $= 0.566$ m/s $V_2 = \frac{.04}{A_2} = \frac{.04}{\frac{\pi}{4}(D_2)^2} = \frac{0.04}{\frac{\pi}{4}(0.2)^2} = 1.274$ m/s Applying Bernoulli's equation at sections (1) and (2), we get $\frac{p_1}{\rho g} + \frac{V_1^2}{2g} + z_1 = \frac{p_2}{\rho g} + \frac{V_2^2}{2g} + z_2$ or $\frac{24.525 \times 10^4}{1000 \times 9.81} + \frac{.566 \times .566}{2 \times 9.81} + z_1 = \frac{9.81 \times 10^4}{1000 \times 9.81} + \frac{(1.274)^2}{2 \times 9.81} + z_2$ or $25 + .32 + z_1 = 10 + 1.623 + z_2$ or $25.32 + z_1 = 11.623 + z_2$ $\therefore z_2 - z_1 = 25.32 - 11.623 = 13.697 = 13.70$ m $\therefore$ Difference in datum head $= z_2 - z_1 =$ **13.70 m. Ans.**	C203.2	AZ

Part – C
(Answer all the questions 1 x 10 = 10 marks)

Q. No.	Questions	CO	Skills
15	The space between two square flat parallel plates is filled with oil. Each side of the plate is 60 cm. The thickness of the oil film is 12.5 mm, The upper plate which moves at 2.5 m/s requires a force of 98.1 N to maintain the speed. Determine i) Dynamic Viscosity ii) Kinematic viscosity of oil if specific gravity of oil is 0.95. **Solution.** Given : Each side of a square plate = 60 cm = 0.60 m $\therefore$ Area, $A = 0.6 \times 0.6 = 0.36\ m^2$ Thickness of oil film, $dy = 12.5\ mm = 12.5 \times 10^{-3}\ m$ Velocity of upper plate, $u = 2.5$ m/sec $\therefore$ Change of velocity between plates, $du = 2.5$ m/sec Force required on upper plate, $F = 98.1$ N $\therefore$ Shear stress, $\tau = \frac{\text{Force}}{\text{Area}} = \frac{F}{A} = \frac{98.1\ N}{0.36\ m^2}$ (*i*) Let μ = Dynamic viscosity of oil Using equation (1.2), $\tau = \mu \frac{du}{dy}$ or $\frac{98.1}{0.36} = \mu \times \frac{2.5}{12.5 \times 10^{-3}}$ $\therefore$ $\mu = \frac{98.1}{0.36} \times \frac{12.5 \times 10^{-3}}{2.5} = 1.3635\ \frac{Ns}{m^2}$ $\left(\because \frac{1\ Ns}{m^2} = 10\ \text{poise}\right)$ $= 1.3635 \times 10 =$ **13.635 poise. Ans.** (*ii*) Sp. gr. of oil, S = 0.95 Let v = kinematic viscosity of oil Using equation (1.1*A*), Mass density of oil, $\rho = S \times 1000 = 0.95 \times 1000 = 950\ kg/m^3$ Using the relation, $v = \frac{\mu}{\rho}$, we get $v = \frac{1.3635\left(\frac{Ns}{m^2}\right)}{950} = .001435\ m^2/sec = .001435 \times 10^4\ cm^2/s$ $=$ **14.35 stokes. Ans.** ($\because$ cm^2/s = stoke)	C203.1	AZ
	OR		

16	An inverted U tube manometer is connected to two horizontal pipes A and B. The vertical distance between the axis of these pipes is 30 cm. When an oil of specific gravity 0.8 is used as a gauge liquid, determine the pressure difference between the pipes.  	C203.1	AZ

Solution. Given :

Specific gravity of measuring liquid = 0.8

The arrangement is shown in Fig. 2.24 (*a*).

Let p_A = pressure at A

p_B = pressure at B.

The points C and D lie on the same horizontal line.

Hence pressure at C should be equal to pressure at D.

But pressure at C $= p_A - \rho g\, h$

$= p_A - 1000 \times 9.81 \times (0.35)$

And pressure at D $= p_B - \rho_1 g h_1 - \rho_2 g h_2$

$= p_B - 1000 \times 9.81 \times (0.35) - 800 \times 9.81 \times 0.3$

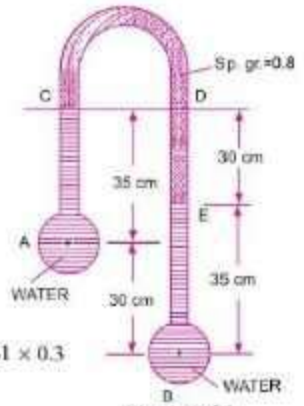


Fig. 2.24 (*a*)

But pressure at C = pressure at D

$\therefore \quad p_A - 1000 \times 9.81 \times .35$

$= p_B - 1000 \times 9.81 \times 0.35 - 800 \times 9.81 \times 0.3$

or $\quad 800 \times 9.81 \times 0.3 = p_B - p_A$

or $\quad p_B - p_A = 800 \times 9.81 \times 0.3 = \mathbf{2354.4}\ \frac{\mathbf{N}}{\mathbf{m^2}}$. **Ans.**

Bloom's Skills: Remember (R), Understand (U), Apply (A), Analyze (AZ), Evaluate (E) and Create (C). Skill need to be mentioned against each question

Saranathan College of Engineering

Tiruchirapalli

Internal Assessment Test - II			Date	17-10-2022	Marks	50
Course code	CE3301	Course Title	Fluid Mechanics			
Batch No.		Duration	90 mins	Academic Year	2022 - 2023	
Year	II	Semester/ Section	III / A	Department	Civil Engineering	

Part – A

(Answer all the questions 10 x 2 = 20 marks)

Q. No.	Questions	CO	Skills
1	What is meant by Local acceleration? Local acceleration is defined as the rate of increase of velocity with respect to time at a given point in a flow field. In total acceleration equation the expression $(\partial u / \partial t)$, $(\partial v / \partial t)$ or $(\partial w / \partial t)$ is known as local acceleration.	C203.2	R
2	Define Stream function. It is defined as the scalar function of space and time, such that its partial derivative with respect to any direction gives the velocity component at right angles to that direction. It is denoted by ψ (Psi) and only for two dimensional flow. Mathematically. For steady flow is defined as $\psi = f(x,y)$ such that , $(\partial \psi / \partial x) = v$ $(\partial \psi / \partial y) = - u$.	C203.2	R
3	Define Flow net? A grid obtained by drawing a series of equipotential lines and stream lines is called a flow net. The flow net is an important tool in analyzing the two – dimensional irrotational flow problems.	C203.2	A
4	Write the continuity equation in three dimensional differential form. $\partial u / \partial x + \partial v / \partial y + \partial w / \partial z = 0$	C203.2	R
5	Write the moment of momentum equation and its application. $T = \rho Q[V_2 r_2 - V_1 r_1]$ T = Torque P = Density Q = Discharge V_1, V_2 = Velocity at section 1 and 2 r_1, r_2 = radius of curvature at section 1 and 2 1. For analysis of flow problems in turbines and centrifugal pumps. 2. For finding torque exerted by water on sprinkler.	C203.2	A
6	Differentiate Model from Prototype. Model is nothing but small-scale repetition of the actual structure or machine or component. Prototype is the actual size of the structure or machine or component.	C203.3	R

7	Enlist the types of Similitude. The three types of similarities are, 1. Geometric similarity 2. Kinematic similarity 3. Dynamic similarity	C203.3	R
8	What are all the forces acting in a moving fluid? The types of forces in a moving fluid are, 1. Inertia force (Fi) 2. Viscous force (Fv) 3. Gravity force (Fg) 4. Pressure force (Fp) 5. surface tension (Fs) 6. Elastic force (Fe)	C203.3	R
9	Define Scale ratio. Scale ratio is the ratio of linear dimension in the model and prototype which are equal in a geometric similarity. It is denoted by Lr. Lr = Lp/Lm = bp/bm = Dp/Dm	C203.3	R
10	List out the advantages of model analysis. The advantages of model analysis are: 1. The performance of hydraulic structure or machine can be easily predicted in advance from its model. 2. The merits of alternative design can be predicted with the help of model testing and the most economical and safe design may be finally adopted.	C203.3	R

Part – B

(Answer all the questions 2 x 10 = 20 marks)

Q. No.	Questions	CO	Skills
11	A horizontal venturimeter with inlet diameter 20 cm and throat diameter 10 cm is used to measure the flow of oil of specific gravity 0.8. The discharge of oil through venturimter is 60 litres/s. Find the reading of oil-mercury differential manometer. Take $C_d = 0.98$. **Solution.** Given : $d_1 = 20$ cm $\therefore$ $a_1 = \frac{\pi}{4} 20^2 = 314.16$ cm^2 $d_2 = 10$ cm $\therefore$ $a_2 = \frac{\pi}{4} \times 10^2 = 78.54$ cm^2 $C_d = 0.98$ $Q = 60$ litres/s $= 60 \times 1000$ cm^3/s Using the equation (6.8), $Q = C_d \frac{a_1 a_2}{\sqrt{a_1^2 - a_2^2}} \times \sqrt{2gh}$ or $60 \times 1000 = 9.81 \times \frac{314.16 \times 78.54}{\sqrt{(314.16)^2 - (78.54)^2}} \times \sqrt{2 \times 981 \times h} = \frac{1071068.78\sqrt{h}}{304}$ or $\sqrt{h} = \frac{304 \times 60000}{1071068.78} = 17.029$ $\therefore$ $h = (17.029)^2 = 289.98$ cm of oil But $h = x\left[\frac{S_h}{S_o} - 1\right]$ where S_h = Sp. gr. of mercury = 13.6 S_o = Sp. gr. of oil = 0.8 x = Reading of manometer $\therefore$ $289.98 = x\left[\frac{13.6}{0.8} - 1\right] = 16x$ $\therefore$ $x = \frac{289.98}{16} = 18.12$ cm. $\therefore$ Reading of oil-mercury differential manometer = **18.12 cm. Ans.**	C203.2	AZ
	OR		

12	If for a two dimensional potential flow, the velocity potential is given by $\Phi = x(2y-1)$, determine the velocity at the point P(4,5). Determine also the value of stream function ψ (Shi) at the point P. **Solution.** Given : $\phi = x(2y-1)$ (*i*) The velocity components in the direction of x and y are $u = -\frac{\partial \phi}{\partial x} = -\frac{\partial}{\partial x}[x(2y-1)] = -[2y-1] = 1-2y$ $v = -\frac{\partial \phi}{\partial y} = -\frac{\partial}{\partial y}[x(2y-1)] = -[2x] = -2x$ At the point P (4, 5), *i.e.*, at $x = 4, y = 5$ $u = 1 - 2 \times 5 = -9$ units/sec $v = -2 \times 4 = -8$ units/sec $\therefore$ Velocity at P $= -9i - 8j$ or Resultant velocity at P $= \sqrt{9^2 + 8^2} = \sqrt{81+64} = 12.04$ units/sec = **12.04 units/sec. Ans.** (*ii*) **Value of Stream Function at P** We know that $\frac{\partial \psi}{\partial y} = -u = -(1-2y) = 2y-1$ ...(*i*) and $\frac{\partial \psi}{\partial x} = v = -2x$ ...(*ii*) Integrating equation (*i*) w.r.t. 'y', we get $\int d\psi = \int (2y-1)\,dy$ or $\psi = \frac{2y^2}{2} - y +$ Constant of integration. The constant of integration is not a function of y but it can be a function of x. Let the value of constant of integration is k. Then $\psi = y^2 - y + k$. ...(*iii*) Differentiating the above equation w.r.t. 'x', we get $\frac{\partial \psi}{\partial x} = \frac{\partial k}{\partial x}$. But from equation (*ii*), $\frac{\partial \psi}{\partial x} = -2x$ Equating the value of $\frac{\partial \psi}{\partial x}$, we get $\frac{\partial k}{\partial x} = -2x$. Integrating this equation, we get $k = \int -2x\,dx = -\frac{2x^2}{2} = -x^2$. Substituting this value of k in equation (*iii*), we get $\psi = y^2 - y - x^2$. **Ans.** $\therefore$ Stream function ψ at $P(4, 5) = 5^2 - 5 - 4^2 = 25 - 5 - 16 = 4$ **units. Ans.**	C203.2	AZ

13	The efficiency η of a fan depends on the density ρ, the dynamic viscosity μ, of the fluid, the angular velocity ω, diameter D of the rotor and the discharge Q. Express η in terms of dimensionless parameters. Use Rayleigh's Method. **Solution.** The efficiency η depends on (*i*) density, ρ (*ii*) viscosity, μ (*iii*) angular velocity, ω (*iv*) diameter, D (*v*) discharge, Q $\therefore \quad \eta = K\rho^a \cdot \mu^b \cdot \omega^c \cdot D^d \cdot Q^e$ ...(*i*) where K = Non-dimensional constant. Substituting the dimensions on both sides of equation (*i*) $M^0L^0T^0 = K\,(ML^{-3})^a \cdot (ML^{-1}T^{-1})^b \cdot (T^{-1})^c \cdot (L)^d \cdot (L^3T^{-1})^e$ Equating powers of M, L, T on both sides, Power of M, $0 = a + b$ Power of L, $0 = -3a - b + d + 3e$ Power of T, $0 = -b - c - e$. There are five unknowns but equations are three. Express the three unknowns in terms of the other two unknowns which are more important. Viscosity and discharge are more important in this problem. Hence expressing a, c and d in terms of b and e, we get $a = -b$ $c = -(b + e)$ $d = +3a + b - 3e = -3b + b - 3e = -2b - 3e$. Substituting these values in equation (*i*), we get $\eta = K\rho^{-b} \cdot \mu^b \cdot \omega^{-(b+e)} \cdot D^{-2b-3e} \cdot Q^e$ $= K\rho^{-b} \cdot \mu^b \cdot \omega^{-b} \cdot \omega^{-e} \cdot D^{-2b} \cdot D^{-3e} \cdot Q^e$ $= K\left(\frac{\mu}{\rho\omega D^2}\right)^b \cdot \left(\frac{Q}{\omega D^3}\right)^e = \phi\left[\left(\frac{\mu}{\rho\omega D^2}\right) \cdot \left(\frac{Q}{\omega D^3}\right)\right]$. **Ans.**	C203.3	AZ
	OR		

14	Discuss in detail about various steps in solving Buckingham's π Theorm method. **Procedure for Solving Problems by Buckingham's π-theorem.** The procedu for solving problems by Buckingham's π-theorem is explained by considering the problem 12.6 whi is also solved by the Rayleigh's method. The problem is : The resisting force R of a supersonic plane during flight can be considered as dependent upon t length of the aircraft l, velocity V, air viscosity μ, air density ρ and bulk modulus of air K. Express t functional relationship between these variables and the resisting force. **Solution. Step 1.** The resisting force R depends upon (*i*) l, (*ii*) V, (*iii*) μ, (*iv*) ρ and (*v*) K. Hence is a function of l, V, μ, ρ and K. Mathematically, $R = f(l, V, \mu, \rho, K)$ ...(or it can be written as $f_1(R, l, V, \mu, \rho, K) = 0$ ...($\therefore$ Total number of variables, $n = 6$. Number of fundamental dimensions, $m = 3$. [m is obtained by writing dimensions of each variables as $R = MLT^{-2}$, $V = LT^{-1}$, $\mu = ML^{-1}T$ $\rho = ML^{-3}$, $K = ML^{-1}T^{-2}$. Thus as fundamental dimensions in the problem are M, L, T and hence $m =$: Number of dimensionless π-terms $= n - m = 6 - 3 = 3$. Thus three π-terms say π_1, π_2 and π_3 are formed. Hence equation (*ii*) is written as $f_1(\pi_1, \pi_2, \pi_3) = 0$. ...(*i* **Step 2.** Each π term $= m + 1$ variables, where m is equal to 3 and also called repeating variable Out of six variables R, l, V, μ, ρ and K, three variables are to be selected as repeating variable. R is dependent variable and should not be selected as a repeating variable. Out of the five remaini variables, one variable should have geometric property, the second variable should have flow property and third one fluid property. These requirements are fulfilled by selecting l, V and ρ as repeating variables. The repeating variables themselves should not form a dimensionless term and should have themselves fundamental dimensions equal to m, *i.e.*, 3 here. Dimensions of l, V and ρ are L, LT^{-1}, ML^{-3} and hence the three fundamental dimensions exist in l, V and ρ and they themselves do not form dimensionless group. **Step 3.** Each π-term is written as according to equation (12.4) $\left.\begin{aligned}\pi_1 &= l^{a_1} \cdot V^{b_1} \cdot \rho^{c_1} \cdot R \\ \pi_2 &= l^{a_2} \cdot V^{b_2} \cdot \rho^{c_2} \cdot \mu \\ \pi_3 &= l^{a_3} \cdot V^{b_3} \cdot \rho^{c_3} \cdot K\end{aligned}\right\}$ ...(*iv*) **Step 4.** Each π-term is solved by the principle of dimensional homogeneity. For the first π-term, we have $\pi_1 = M^0L^0T^0 = L^{a_1} \cdot (LT^{-1})^{b_1} \cdot (ML^{-3})^{c_1} \cdot MLT^{-2}$. Equating the powers of M, L, T on both sides, we get Power of M, $0 = c_1 + 1$ $\therefore$ $c_1 = -1$ Power of L, $0 = a_1 + b_1 - 3c_1 + 1$, $\therefore$ $a_1 = -b_1 + 3c_1 - 1 = 2 - 3 - 1 = -2$ Power of T, $0 = -b_1 - 2$ $\therefore$ $b_1 = -2$ Substituting the values of a_1, b_1 and c_1 in equation (*iv*), $\pi_1 = l^{-2} \cdot V^{-2} \cdot \rho^{-1} \cdot R$ or $\pi_1 = \dfrac{R}{l^2V^2\rho} = \dfrac{R}{\rho l^2V^2}$ ...(*v*)	C203.3	AZ

Part – C
(Answer all the questions 1 x 10 = 10 marks)

Q. No.	Questions	CO	Skills
15	A ship 300 m long moves in sea water, whose density is 1030 Kg/m^3. A 1:1000 model of this ship is to be tested in a wind tunnel. The velocity of air in the wind tunnel around the model is 30 m/s and the resistance of the model is 60 N. Determine the velocity of ship in sea water and also the resistance of the ship in sea water. The density of air is given as 124 Kg/m^3. Take the kinematic viscosity of sea water and air as 0.012 stokes and 0.018 stokes respectively. **Solution.** Given : Prototype (sub-marine) and its model. **For prototype,** Speed $V_p = 10$ m/s Fluid = Sea - water Kinematic viscosity, $\nu_p = 0.012$ stokes = .012 cm^2/s $= .012 \times 10^{-4}$ m^2/s $\{\because$ Stoke = cm^2/s$\}$ Density, $\rho_p = 1030$ kg/m^3 **For model** Fluid = Air Kinematic viscosity, $\nu_m = 0.016$ stokes = 0.016 cm^2/s = $.016 \times 10^{-4}$ m^2/s Density, $\rho_m = 1.24$ kg/m^3 Also $\frac{\text{Length of prototype}}{\text{Length of model}} = \frac{L_p}{L_m} = 30.0$ Let the velocity of air in model = V_m. For dynamic similarity between model and sub-marine, the viscous resistance is to be overcame and hence for fully submerged sub-marine, the Reynold's number for model and prototype should be same. $\therefore \quad \frac{\rho_p V_p D_p}{\mu_p} = \frac{\rho_m V_m D_m}{\mu_m}$ or $\frac{V_p D_p}{(\mu/\rho)_p} = \frac{V_m D_m}{(\mu/\rho)_m}$; $\frac{V_p D_p}{\nu_p} = \frac{V_m D_m}{\nu_m}$ $\therefore \quad V_m = \frac{\nu_m}{\nu_p} \times \frac{D_p}{D_m} \times V_p$ $= \frac{0.016 \times 10^{-4}}{.012 \times 10^{-4}} \times 30 \times 10$ m/s $\left\{\because \frac{D_p}{D_m} = \frac{L_p}{L_m} = 30\right\}$ $= \frac{0.016}{.012} \times 30 \times 10 =$ **400 m/s. Ans.** Ratio of drag force (resistance) : Drag force = Mass × Acceleration $= \rho L^3 \times \frac{V}{t} = \rho \cdot L^2 \cdot \frac{L}{t} \times V = \rho L^2 V^2 \quad \left\{\because \frac{L}{t} = V\right\}$ Let F_p and F_m denote the drag force for the prototype and for the model respectively then, $\frac{F_p}{F_m} = \frac{\rho_p L_p^2 V_p^2}{\rho_m L_m^2 V_m^2} = \frac{\rho_p}{\rho_m} \times \left(\frac{L_p}{L_m}\right)^2 \times \left(\frac{V_p}{V_m}\right)^2$ $= \frac{1030}{1.24} \times 30^2 \times \left(\frac{10}{400}\right)^2 =$ **467.22. Ans.**	C203.3	AZ
	OR		

16	Derive on the basis of dimensional analysis suitable parameters to present the thrust developed by a propeller. Assume that thrust force P depends upon the angular velocity ω, speed of advance V, diameter D, dynamic viscosity μ, mass density ρ, elasticity of the fluid medium which can be denoted by the velocity of sound in the medium C. **Solution.** Thrust P is a function of $\omega, V, D, \mu, \rho, C$ or $P = f(\omega, V, D, \mu, \rho, C)$ or $f_1 = (P, \omega, V, D, \mu, \rho, C) = 0$ ...(i) $\therefore$ Total number of variables, $n = 7$ Writing dimensions of each variable, we have $P = MLT^{-2}, \omega = T^{-1}, V = LT^{-1}, D = L,$ $\mu = ML^{-1}T^{-1}, \rho = ML^{-3}, C = LT^{-1}$ $\therefore$ Number of fundamental dimensions, $m = 3$ $\therefore$ Number of π-terms $= n - m = 7 - 3 = 4$ Hence, equation (i) can be written as $f_1(\pi_1, \pi_2, \pi_3, \pi_4) = 0$ ...(ii) Each π-term contains $m + 1$, *i.e.*, $3 + 1 = 4$ variables. Out of four variables, three are repeating variables. Choosing D, V, ρ as repeating variables, we get π-terms as $\pi_1 = D^{a_1} \cdot V^{b_1} \cdot \rho^{c_1} \cdot P$ $\pi_2 = D^{a_2} \cdot V^{b_2} \cdot \rho^{c_2} \cdot \omega$ $\pi_3 = D^{a_3} \cdot V^{b_3} \cdot \rho^{c_3} \cdot \mu$ $\pi_4 = D^{a_4} \cdot V^{b_4} \cdot \rho^{c_4} \cdot C$ **First π-term** $\pi_1 = D^{a_1} \cdot V^{b_1} \cdot \rho^{c_1} \cdot P$ Writing dimensions on both sides, $M^0L^0T^0 = L^{a_1} \cdot (LT^{-1})^{b_1} \cdot (ML^{-3})^{c_1} \cdot MLT^{-2}$. Equating powers of M, L, T on both sides, Power of M, $0 = c_1 + 1$, $\because$ $c_1 = -1$ Power of L, $0 = a_1 + b_1 - 3c_1 + 1$, $a_1 = -b_1 + 3c_1 - 1 = 2 - 3 - 1 = -2$ Power of T, $0 = -b_1 - 2$, $\therefore$ $b_1 = -2$ Substituting the values of a_1, b_1 and c_1 in π_1, $\pi_1 = D^{-2} \cdot V^{-2} \cdot \rho^{-1} P = \frac{P}{D^2V^2\rho}$. **Second π-term** $\pi_2 = D^{a_2} \cdot V^{b_2} \cdot \Delta^{c_2} \cdot \omega$ Writing dimensions on both sides, $M^0L^0T^0 = L^{a_2} \cdot (LT^{-1})^{b_2} \cdot (ML^{-3})^{c_2} \cdot T^{-1}$ Equating the powers of M, L, T on both sides, Power of M, $0 = c_2$, $\therefore$ $c_2 = 0$ Power of L, $0 = a_2 + b_2 - 3c_2$, $\therefore$ $a_2 = -b_2 + 3c_2 = 1 + 0 = 1$ Power of T, $0 = -b_2 - 1$, $\therefore$ $b_2 = -1$ Substituting the values of a_2, b_2, c_2 in π_2, Power of M, $0 = c_4$, $\therefore$ $c_4 = 0$ Power of L, $0 = a_4 + b_4 - 3c_4 + 1$, $\therefore$ $a_4 = -b_4 + 3c_4 - 1 = 1 + 0 - 1 = 0$ Power of T, $0 = -a_4 - 1$, $\therefore$ $b_4 = -1$ Substituting the values of a_4, b_4 and c_4 in π_4, $\pi_4 = D^0 \cdot V^{-1} \cdot \rho^0 \cdot C = \frac{C}{V}$. Substituting the values of π_1, π_2, π_3 and π_4 in equation (ii), $f_1\left(\frac{P}{D^2V^2\rho}, \frac{D\omega}{V}, \frac{\mu}{DV\rho}, \frac{C}{V}\right) = 0$ or $\frac{P}{D^2V^2\rho} = \phi\left(\frac{D\omega}{V}, \frac{\mu}{DV\rho}, \frac{C}{V}\right)$ or $\mathbf{P = D^2V^2\rho\, \phi\left(\frac{D\omega}{V}, \frac{\mu}{DV\rho}, \frac{C}{V}\right)}$. **Ans.**	C203.3	AZ

Bloom's Skills: Remember (R), Understand (U), Apply (A), Analyze (AZ), Evaluate (E) and Create (C). Skill need to be mentioned against each question

Saranathan College of Engineering

Tiruchirapalli

Model Exam			Date	16-12-2022	Marks	100
Course code	CE3301	Course Title	Fluid Mechanics			
Batch No.		Duration	3 Hours	Academic Year	2022 - 2023	
Year	II	Semester/ Section	III / A	Department	Civil Engineering	

Part – A

(Answer all the questions 10 x 2 = 20 marks)

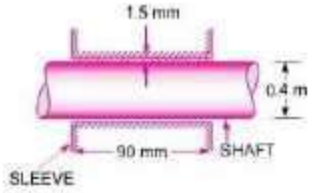
Q. No.	Questions	CO	Skills
1	Define Mass density and specific weight. Mass Density or Density is defined as ratio of mass of the fluid to its volume (V) Density of water = 1 gm/cm^3 or 1000 kg / m^3. $p = \frac{Mass\ of\ fluid}{Volume of\ fluid}$ It is the ratio between weight of a fluid to its volume $w = \frac{Weight\ of\ fluid}{Volume\ of\ fluid} = \left(\frac{Mass of\ fluid}{Volume\ of\ fluid}\right) \times g = p \times g$ $w = p \times g$ Unit: N / m^3	C203.1	R
2	Calculate the specific weight, density and specific gravity of 1 litre of liquid which weighs 7 N. Given $V = 1litre = \frac{1}{1000} m^3$ W = 7 N i. Sp. Weight (w) $= \frac{weight}{volume} = \frac{7N}{\left(\frac{1}{1000}\right)m^3} = 7000\ N/m^3$ ii Density (p) $= \frac{w}{g} = \frac{7000\ N}{9.81 m^3} kg/m^3 = 713..5\ Kg/m^3$ iii. Sp. Gravity (S) $= \frac{Density\ of\ liquid}{Density\ of\ water} = \frac{713.5}{1000}$ (Density of water = 1000 kg / m^3) S = 0.7135	C203.1	A

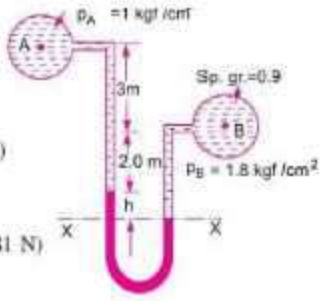
3	What do you understand by Continuity Equation? The equation based on the principle of conservation of mass is called continuity equation. Thus for a fluid flowing through the pipe at all the cross-section, the quantity of fluid per second is constant. $A_1V_1 = A_2V_2$	C203.2	R
4	Write the equations of motion. $F_x = (F_g)_x + (F_p)_x+(F_v)_x+(F_t)_x+(F_c)_x$ If the force due to compressibility, Fc is negligible, the resulting net force. $F_x = (F_g)_x + (F_p)_x+(F_v)_x+(F_t)_x$ Where Fg = gravity force Fp = Pressure force Fv = force due to viscosity Ft = force due to turbulence Fc = force due to compressibility	C203.2	R
5	Differentiate Model from Prototype. Model is nothing but small-scale repetition of the actual structure or machine or component. Prototype is the actual size of the structure or machine or component.	C203.3	A
6	List out the advantages of model analysis. The advantages of model analysis are: 1. The performance of hydraulic structure or machine can be easily predicted in advance from its model. 2. The merits of alternative design can be predicted with the help of model testing and the most economical and safe design may be finally adopted.	C203.4	R
7	What are Major energy loss and Minor energy loss in pipe? The loss of head or energy due to friction in pipe is known as major loss while the loss of energy due to change of velocity of the flowing fluid in magnitude or direction is called minor loss of energy.	C203.4	R
8	Write a short note on Water Hammer in pipes. Wave of high pressure has the effect of hammering action on the walls of pipe and hence it is known as water hammer. The pressure rise due to water hammer depends upon 1) Velocity of flow of water in pipe. 2) Length of pipe. 3) Time taken to close the valve (Sudden or Gradual) 4) Elastic property of the material of pipe.	C203.5	R
9	Define Boundary layer thickness. It is defined as the distance from the boundary of the solid body measured in the y – direction to the point where the velocity of the fluid is approximately equal to 0.99 times the free stream (v) velocity of the fluid.	C203.5	R

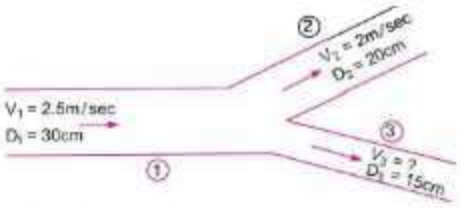
10	What are the different methods of preventing separation of boundary layers? 1. Suction of slow moving fluid by suction slot. 2. Supplying additional energy from a blower. 3. Providing a bypass in the slotted wring. 4. Rotating boundary in the direction of flow. 5. Providing small divergence in diffuser. 6. Providing guide – blades in a bend.	C203.6	R

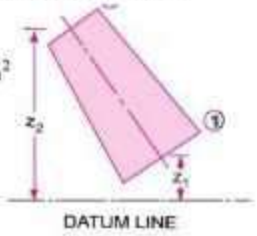
Part – B

(Answer all the questions 5 x 13 = 65 marks)

Q. No.	Questions	CO	Skills
11 a.	The dynamic viscosity of oil, used for lubrication between a shaft and sleeve is 6 poise. The shaft is of diameter 0.4 m and rotates at 190 rpm. Calculate the power lost in the bearing for a sleeve length of 90 mm. The thickness of the oil film is 1.5 mm. **Solution.** Given : Viscosity $\mu = 6$ poise $= \frac{6}{10}\frac{\text{Ns}}{\text{m}^2} = 0.6\frac{\text{Ns}}{\text{m}^2}$ Dia. of shaft, $D = 0.4$ m Speed of shaft, $N = 190$ r.p.m Sleeve length, $L = 90 \text{ mm} = 90 \times 10^{-3}$ m Thickness of oil film, $t = 1.5 \text{ mm} = 1.5 \times 10^{-3}$ m  Fig. 1.5 Tangential velocity of shaft, $u = \frac{\pi DN}{60} = \frac{\pi \times 0.4 \times 190}{60} = 3.98$ m/s Using the relation $\tau = \mu \frac{du}{dy}$ where du = Change of velocity $= u - 0 = u = 3.98$ m/s dy = Change of distance $= t = 1.5 \times 10^{-3}$ m $\tau = 10 \times \frac{3.98}{1.5 \times 10^{-3}} = 1592 \text{ N/m}^2$ This is shear stress on shaft $\therefore$ Shear force on the shaft, F = Shear stress × Area $= 1592 \times \pi D \times L = 1592 \times \pi \times .4 \times 90 \times 10^{-3} = 180.05$ N Torque on the shaft, T = Force $\times \frac{D}{2} = 180.05 \times \frac{0.4}{2} = 36.01$ Nm $\therefore$ *Power lost $= \frac{2\pi NT}{60} = \frac{2\pi \times 190 \times 36.01}{60} =$ **716.48 W. Ans.**	C203.1	AZ
	OR		

11 b.	A differential manometer is connected at two points A and B of two pipes. The pipe A contains a liquid of specific gravity 1.5 while pipe B contains a liquid of specific gravity 0.9. The pressure at A and B are 9.81 N/m^2 and 17.658 N/m^2 respectively. The height difference between right limb and left limb is 3 m from top in which left limb is in higher elevation. The distance between the centre of pipe B and starting level of mercury is 2 m. The pressure maintained is vaccum pressure. Find the difference in mercury level. **Solution.** Given : Sp. gr. of liquid at A, $S_1 = 1.5$ $\therefore$ $\rho_1 = 1500$ Sp. gr. of liquid at B, $S_2 = 0.9$ $\therefore$ $\rho_2 = 900$ Pressure at A, $p_A = 1$ kgf/cm^2 $= 1 \times 10^4$ kgf/m^2 $= 10^4 \times 9.81$ N/m^2 ($\because$ 1 kgf = 9.81 N) Pressure at B, $p_B = 1.8$ kgf/cm^2 $= 1.8 \times 10^4$ kgf/m^2 $= 1.8 \times 10^4 \times 9.81$ N/m^2 ($\because$ 1 kgf = 9.81 N) Density of mercury $= 13.6 \times 1000$ kg/m^3 Taking X-X as datum line. Pressure above X-X in the left limb $= 13.6 \times 1000 \times 9.81 \times h + 1500 \times 9.81 \times (2 + 3) + p_A$ $= 13.6 \times 1000 \times 9.81 \times h + 7500 \times 9.81 + 9.81 \times 10^4$ Pressure above X-X in the right limb $= 900 \times 9.81 \times (h + 2) + p_B$ $= 900 \times 9.81 \times (h + 2) + 1.8 \times 10^4 \times 9.81$ Equating the two pressure, we get $13.6 \times 1000 \times 9.81h + 7500 \times 9.81 + 9.81 \times 10^4$ $= 900 \times 9.81 \times (h + 2) + 1.8 \times 10^4 \times 9.81$ Dividing by 1000×9.81, we get $13.6h + 7.5 + 10 = (h + 2.0) \times .9 + 18$ or $13.6h + 17.5 = 0.9h + 1.8 + 18 = 0.9h + 19.8$ or $(13.6 - 0.9)h = 19.8 - 17.5$ or $12.7h = 2.3$ $\therefore$ $h = \frac{2.3}{12.7} = 0.181$ m = **18.1 cm. Ans.**	 Fig. 2.19	C203.1	AZ

12 a.	A 30 cm diameter pipe, conveying water, branches into two pipes of diameters 20 cm and15 cm respectively. If the average velocity in the 30 cm pipe is 2.5 m/s, find the discharge in this pipe. Also determine the velocity in 15 cm pipe if the average velocity in 20 cm diameter pipe is 2 m/s. **Solution.** Given :  $D_1 = 30 \text{ cm} = 0.30 \text{ m}$ $\therefore \quad A_1 = \frac{\pi}{4} D_1^2 = \frac{\pi}{4} \times .3^2 = 0.07068 \text{ m}^2$ $V_1 = 2.5 \text{ m/s}$ $D_2 = 20 \text{ cm} = 0.20 \text{ m}$ $\therefore \quad A_2 = \frac{\pi}{4} (.2)^2 = \frac{\pi}{4} \times .4 = 0.0314 \text{ m}^2,$ $V_2 = 2 \text{ m/s}$ $D_3 = 15 \text{ cm} = 0.15 \text{ m}$ $\therefore \quad A_3 = \frac{\pi}{4} (.15)^2 = \frac{\pi}{4} \times 0.225 = 0.01767 \text{ m}^2$ Find (*i*) Discharge in pipe 1 or Q_1 (*ii*) Velocity in pipe of dia. 15 cm or V_3 Let Q_1, Q_2 and Q_3 are discharges in pipe 1, 2 and 3 respectively. Then according to continuity equation $Q_1 = Q_2 + Q_3 \quad \ldots(1)$ (*i*) **The discharge Q_1** in pipe 1 is given by $Q_1 = A_1 V_1 = 0.07068 \times 2.5 \text{ m}^3/\text{s} =$ **0.1767 m³/s. Ans.** (*ii*) **Value of V_3** $Q_2 = A_2 V_2 = 0.0314 \times 2.0 = 0.0628 \text{ m}^3/\text{s}$ Substituting the values of Q_1 and Q_2 in equation (1) $0.1767 = 0.0628 + Q_3$ $\therefore \quad Q_3 = 0.1767 - 0.0628 = 0.1139 \text{ m}^3/\text{s}$ But $\quad Q_3 = A_3 \times V_3 = 0.01767 \times V_3 \quad$ or $\quad 0.1139 = 0.01767 \times V_3$ $\therefore \quad V_3 = \frac{0.1139}{0.01767} =$ **6.44 m/s. Ans.**	C203.2	AZ
	OR		

12 b.	A pipe line carrying liquid of specific gravity 0.92, changes in diameter from 200mm to 500mm. The larger end is 4m above the datum. If pressures at both sections are 9.81 N/cm^2 and 5.886 N/cm^2 respectively, determine the head loss. The rate of flow is 3.33 x 10^{-3} m^3/s. **Solution.** Given : **Section 1,** $D_1 = 300$ mm $= 0.3$ m $p_1 = 24.525$ N/cm^2 $= 24.525 \times 10^4$ N/m^2 **Section 2,** $D_2 = 200$ mm $= 0.2$ m $p_2 = 9.81$ N/cm^2 $= 9.81 \times 10^4$ N/m^2 Rate of flow $= 40$ lit/s or $Q = \frac{40}{1000} = 0.04$ m^3/s  Now $A_1V_1 = A_2V_2 =$ rate of flow $= 0.04$ $\therefore V_1 = \frac{.04}{A_1} = \frac{.04}{\frac{\pi}{4}D_1^2} = \frac{0.04}{\frac{\pi}{4}(0.3)^2} = 0.5658$ m/s $= 0.566$ m/s $V_2 = \frac{.04}{A_2} = \frac{.04}{\frac{\pi}{4}(D_2)^2} = \frac{0.04}{\frac{\pi}{4}(0.2)^2} = 1.274$ m/s Applying Bernoulli's equation at sections (1) and (2), we get $\frac{p_1}{\rho g} + \frac{V_1^2}{2g} + z_1 = \frac{p_2}{\rho g} + \frac{V_2^2}{2g} + z_2$ or $\frac{24.525 \times 10^4}{1000 \times 9.81} + \frac{.566 \times .566}{2 \times 9.81} + z_1 = \frac{9.81 \times 10^4}{1000 \times 9.81} + \frac{(1.274)^2}{2 \times 9.81} + z_2$ or $25 + .32 + z_1 = 10 + 1.623 + z_2$ or $25.32 + z_1 = 11.623 + z_2$ $\therefore z_2 - z_1 = 25.32 - 11.623 = 13.697 = 13.70$ m $\therefore$ Difference in datum head $= z_2 - z_1 =$ **13.70 m. Ans.**	C203.2	AZ

13 a.	The efficiency η of a fan depends on the density ρ, the dynamic viscosity μ, of the fluid, the angular velocity ω, diameter D of the rotor and the discharge Q. Express η in terms of dimensionless parameters. Use Rayleigh's Method. **Solution.** The efficiency η depends on (*i*) density, ρ (*ii*) viscosity, μ (*iii*) angular velocity, ω (*iv*) diameter, D (*v*) discharge, Q $\therefore \quad \eta = K\rho^a \cdot \mu^b \cdot \omega^c \cdot D^d \cdot Q^e$ ...(*i*) where K = Non-dimensional constant. Substituting the dimensions on both sides of equation (*i*) $M^0L^0T^0 = K\,(ML^{-3})^a \cdot (ML^{-1}T^{-1})^b \cdot (T^{-1})^c \cdot (L)^d \cdot (L^3T^{-1})^e$ Equating powers of M, L, T on both sides, Power of M, $0 = a + b$ Power of L, $0 = -3a - b + d + 3e$ Power of T, $0 = -b - c - e$. There are five unknowns but equations are three. Express the three unknowns in terms of the other two unknowns which are more important. Viscosity and discharge are more important in this problem. Hence expressing a, c and d in terms of b and e, we get $a = -b$ $c = -(b + e)$ $d = +3a + b - 3e = -3b + b - 3e = -2b - 3e$. Substituting these values in equation (*i*), we get $\eta = K\rho^{-b} \cdot \mu^b \cdot \omega^{-(b+e)} \cdot D^{-2b-3e} \cdot Q^e$ $= K\rho^{-b} \cdot \mu^b \cdot \omega^{-b} \cdot \omega^{-e} \cdot D^{-2b} \cdot D^{-3e} \cdot Q^e$ $= \mathbf{K\left(\frac{\mu}{\rho\omega D^2}\right)^b \cdot \left(\frac{Q}{\omega D^3}\right)^e = \phi\left[\left(\frac{\mu}{\rho\omega D^2}\right) \cdot \left(\frac{Q}{\omega D^3}\right)\right]}$. **Ans.**	C203.3	AZ
	OR		

13 b.	Derive on the basis of dimensional analysis suitable parameters to present the thrust developed by a propeller. Assume that thrust force P depends upon the angular velocity ω, speed of advance V, diameter D, dynamic viscosity μ, mass density ρ, elasticity of the fluid medium which can be denoted by the velocity of sound in the medium C. **Solution.** Thrust P is a function of $\omega, V, D, \mu, \rho, C$ or $P = f(\omega, V, D, \mu, \rho, C)$ or $f_1 = (P, \omega, V, D, \mu, \rho, C) = 0$ ...(*i*) $\therefore$ Total number of variables, $n = 7$ Writing dimensions of each variable, we have $P = MLT^{-2}$, $\omega = T^{-1}$, $V = LT^{-1}$, $D = L$, $\mu = ML^{-1}T^{-1}$, $\rho = ML^{-3}$, $C = LT^{-1}$ $\therefore$ Number of fundamental dimensions, $m = 3$ $\therefore$ Number of π-terms $= n - m = 7 - 3 = 4$ Hence, equation (*i*) can be written as $f_1(\pi_1, \pi_2, \pi_3, \pi_4) = 0$ ...(*ii*) Each π-term contains $m + 1$, *i.e.*, $3 + 1 = 4$ variables. Out of four variables, three are repeating variables. Choosing D, V, ρ as repeating variables, we get π-terms as $\pi_1 = D^{a_1} \cdot V^{b_1} \cdot \rho^{c_1} \cdot P$ $\pi_2 = D^{a_2} \cdot V^{b_2} \cdot \rho^{c_2} \cdot \omega$ $\pi_3 = D^{a_3} \cdot V^{b_3} \cdot \rho^{c_3} \cdot \mu$ $\pi_4 = D^{a_4} \cdot V^{b_4} \cdot \rho^{c_4} \cdot C$ **First π-term** $\pi_1 = D^{a_1} \cdot V^{b_1} \cdot \rho^{c_1} \cdot P$ Writing dimensions on both sides, $M^0L^0T^0 = L^{a_1} \cdot (LT^{-1})^{b_1} \cdot (ML^{-3})^{c_1} \cdot MLT^{-2}$. Equating powers of M, L, T on both sides, Power of M, $0 = c_1 + 1$, $\therefore \quad c_1 = -1$ Power of L, $0 = a_1 + b_1 - 3c_1 + 1$, $a_1 = -b_1 + 3c_1 - 1 = 2 - 3 - 1 = -2$ Power of T, $0 = -b_1 - 2$, $\therefore \quad b_1 = -2$ Substituting the values of a_1, b_1 and c_1 in π_1, $\pi_1 = D^{-2} \cdot V^{-2} \cdot \rho^{-1} P = \frac{P}{D^2V^2\rho}$. **Second π-term** $\pi_2 = D^{a_2} \cdot V^{b_2} \cdot \Delta^{c_2} \cdot \omega$ Writing dimensions on both sides, $M^0L^0T^0 = L^{a_2} \cdot (LT^{-1})^{b_2} \cdot (ML^{-3})^{c_2} \cdot T^{-1}$ Equating the powers of M, L, T on both sides, Power of M, $0 = c_2$, $\therefore \quad c_2 = 0$ Power of L, $0 = a_2 + b_2 - 3c_2$, $\therefore \quad a_2 = -b_2 + 3c_2 = 1 + 0 = 1$ Power of T, $0 = -b_2 - 1$, $\therefore \quad b_2 = -1$ Substituting the values of a_2, b_2, c_2 in π_2.	C203.3	AZ

14 a.	An oil of viscosity 0.1 Ns/m^2 and relative density 0.9 is flowing through a circular pipe of diameter 50 mm and of length 300 m. The rate of flow of fluid through the pip is 3.5 litres/s. Find the pressure drop in a length of 300 m and also the shear stress at the pipe wall. **Solution.** Given : Viscosity, $\mu = 0.1$ Ns/m^2 Relative density $= 0.9$ $\therefore$ ρ_0 or density of oil $= 0.9 \times 1000 = 900$ kg/m^3 ($\because$ Density of water = 1000 kg/m^3) $D = 50$ mm $= .05$ m $L = 300$ m $Q = 3.5$ litres/s $= \frac{3.5}{1000} = .0035$ m^3/s Find (*i*) Pressure drop, $p_1 - p_2$ (*ii*) Shear stress at pipe wall, τ_0 (*i*) **Pressure drop ($p_1 - p_2$)** $= \frac{32\mu\bar{u}L}{D^2}$, where $\bar{u} = \frac{Q}{\text{Area}} = \frac{.0035}{\frac{\pi}{4}D^2} = \frac{.0035}{\frac{\pi}{4}(.05)^2} = 1.782$ m/s The Reynolds number (R_e) is given by, $R_e = \frac{\rho VD}{\mu}$ where $\rho = 900$ kg/m^3, V = average velocity $= \bar{u} = 1.782$ m/s $\therefore$ $R_e = 900 \times \frac{1.782 \times .05}{0.1} = 801.9$ As Reynolds number is less than 2000, the flow is viscous or laminar $\therefore$ $p_1 - p_2 = \frac{32 \times 0.1 \times 1.782 \times 3000}{(.05)^2}$ $= 684288$ N/m^2 $= 68428 \times 10^{-4}$ N/cm^2 = **68.43 N/cm^2. Ans.** (*ii*) **Shear Stress at the pipe wall (τ_0)** The shear stress at any radius r is given by the equation (9.1) *i.e.*, $\tau = -\frac{\partial p}{\partial x}\frac{r}{2}$ $\therefore$ Shear stress at pipe wall, where $r = R$ is given by $\tau_0 = \frac{-\partial p}{\partial x}\frac{R}{2}$ Now $\frac{-\partial p}{\partial x} = \frac{-(p_2 - p_1)}{x_2 - x_1} = \frac{p_1 - p_2}{x_2 - x_1} = \frac{p_1 - p_2}{L}$ $= \frac{684288}{300}\frac{\text{N/m}^2}{\text{m}} = 2280.96$ N/m^3 and $R = \frac{D}{2} = \frac{.05}{2} = .025$ m $\tau_0 = 2280.96 \times \frac{.025}{2}\frac{\text{N}}{\text{m}^2} =$ **28.512 N/m^2. Ans.**	C203.4	AZ
	OR		

14 b.	Three pipes of 400mm, 200mm and 300mm diameters have lengths of 400m, 200m and 300 m respectively. They are connected in series to make a compound pipe. The ends of this compound pipe are connected with two tanks whose difference of water levels is 16m. If co-efficient of friction for these pipes is same and equal to 0.005, determine the discharge through the compound pipe neglecting first the minor losses and then including them.	C203.4	AZ

Solution. Given :

Difference of water levels, $H = 16$ m

Length and dia. of pipe 1, $L_1 = 400$ m and $d_1 = 400$ mm $= 0.4$ m

Length and dia. of pipe 2, $L_2 = 200$ m and $d_2 = 200$ mm $= 0.2$ m

Length and dia. of pipe 3, $L_3 = 300$ m and $d_3 = 300$ mm $= 0.3$ m

Also $f_1 = f_2 = f_3 = 0.005$

(*i*) **Discharge through the compound pipe first neglecting minor losses.**

Let V_1, V_2 and V_3 are the velocities in the 1st, 2nd and 3rd pipe respectively.

From continuity, we have $A_1V_1 = A_2V_2 = A_3V_3$

$$\therefore \quad V_2 = \frac{A_1V_1}{A_2} = \frac{\frac{\pi}{4}d_1^2}{\frac{\pi}{4}d_2^2} \times V_1 = \frac{d_1^2}{d_2^2}V_1 = \left(\frac{0.4}{0.2}\right)^2 V_1 = 4V_1$$

and $$V_3 = \frac{A_1V_1}{A_3} = \frac{\frac{\pi}{4}d_1^2}{\frac{\pi}{4}d_3^2} \times V_1 = \frac{d_1^2}{d_3^2}V_1 = \left(\frac{0.4}{0.2}\right)^2 V_1 = 1.77V_1$$

Now using equation (11.13), we have

$$H = \frac{4f_1L_1V_1^2}{d_1 \times 2g} + \frac{4f_2L_2V_2^2}{d_2 \times 2g} + \frac{4f_3L_3V_3^2}{d_3 \times 2g}$$

or $$16 = \frac{4 \times 0.005 \times 400 \times V_1^2}{0.4 \times 2 \times 9.81} + \frac{4 \times 0.005 \times 200 \times (4V_1)^2}{0.2 \times 2 \times 9.81} + \frac{4 \times 0.005 \times 300}{0.3 \times 2 \times 9.81} \times (1.77\,V_1)^2$$

$$= \frac{V_1^2}{2 \times 9.81}\left(\frac{4 \times 0.005 \times 400}{0.4} + \frac{4 \times 0.005 \times 200 \times 16}{0.2} + \frac{4 \times 0.005 \times 300 \times 3.157}{0.3}\right)$$

$$16 = \frac{V_1^2}{2 \times 9.81}(20 + 320 + 63.14) = \frac{V_1^2}{2 \times 9.81} \times 403.14$$

$$\therefore \quad V_1 = \sqrt{\frac{16 \times 2 \times 9.81}{403.14}} = 0.882 \text{ m/s}$$

$\therefore$ Discharge, $Q = A_1 \times V_1 = \frac{\pi}{4}(0.4)^2 \times 0.882 =$ **0.1108 m³/s. Ans.**

(*ii*) **Discharge through the compound pipe considering minor losses also.**

Minor losses are :

(*a*) At inlet, $h_i = \frac{0.5V_1^2}{2g}$

(*b*) Between 1st pipe and 2nd pipe, due to contraction,

$$h_c = \frac{0.5V_2^2}{2g} = \frac{0.5(4V_1^2)}{2g} \qquad (\because V_2 = 4V_1)$$

$$= \frac{0.5 \times 16 \times V_1^2}{2g} = 8 \times \frac{V_1^2}{2g}$$

But total loss must be equal to H (or 16 m)

$$\therefore \quad 419.746 \times \frac{V_1^2}{2g} = 16 \quad \therefore \quad V_1 = \sqrt{\frac{16 \times 2 \times 9.81}{419.746}} = 0.864 \text{ m/s}$$

$\therefore$ Discharge, $Q = A_1V_1 = \frac{\pi}{4}(0.4)^2 \times 0.864 =$ **0.1085 m³/s. Ans.**

15 a.	Find the displacement thickness, momentum thickness and energy thickness for the velocity distribution in the boundary layer given by $u/U = (3/2)(y/\delta) - (1/2)(y/\delta)^3$	C203.5	AZ

Solution. Given :

Velocity distribution, $\frac{u}{U} = \frac{3}{2}\left(\frac{y}{\delta}\right) - \frac{1}{2}\left(\frac{y}{\delta}\right)^3$

Using equation (13.10), we have $\frac{\tau_0}{\rho U^2} = \frac{\partial}{\partial x}\left[\int_0^\delta \frac{u}{U}\left(1 - \frac{u}{U}\right) dy\right]$

Substituting the value of $\frac{u}{U} = \frac{3}{2}\left(\frac{y}{\delta}\right) - \frac{1}{2}\left(\frac{y}{\delta}\right)^3$ in the above equation

$$\frac{\tau_0}{\rho U^2} = \frac{\partial}{\partial x}\left[\int_0^\delta \left[\frac{3}{2}\left(\frac{y}{\delta}\right) - \frac{1}{2}\left(\frac{y}{\delta}\right)^3\right]\left[1 - \left\{\frac{3}{2}\left(\frac{y}{\delta}\right) - \frac{1}{2}\left(\frac{y}{\delta}\right)^3\right\}\right] dy\right]$$

$$= \frac{\partial}{\partial x}\left[\int_0^\delta \left(\frac{3y}{2\delta} - \frac{y^3}{2\delta^3}\right)\left(1 - \frac{3y}{2\delta} + \frac{y^3}{2\delta^3}\right) dy\right]$$

$$= \frac{\partial}{\partial x}\left[\int_0^\delta \left(\frac{3y}{2\delta} - \frac{9y^2}{4\delta^2} + \frac{3y^4}{4\delta^4} - \frac{y^3}{2\delta^3} + \frac{3y^4}{4\delta^4} - \frac{y^6}{4\delta^6}\right) dy\right]$$

$$= \frac{\partial}{\partial x}\left[\frac{3y^2}{2\times 2\delta} - \frac{9y^3}{3\times 4\delta^2} + \frac{3y^5}{5\times 4\delta^4} - \frac{y^4}{4\times 2\delta^3} + \frac{3y^5}{5\times 4\delta^4} - \frac{y^7}{7\times 4\delta^6}\right]_0^\delta$$

$$= \frac{\partial}{\partial x}\left[\frac{3\delta^2}{4\delta} - \frac{3\delta^3}{4\delta^2} + \frac{3}{20}\frac{\delta^5}{\delta^4} - \frac{1}{8}\frac{\delta^4}{\delta^3} + \frac{3}{20}\frac{\delta^5}{\delta^4} - \frac{1}{28}\frac{\delta^7}{\delta^6}\right]$$

$$= \frac{\partial}{\partial x}\left[\frac{3}{4}\delta - \frac{3}{4}\delta + \frac{3}{20}\delta - \frac{1}{8}\delta + \frac{3}{20}\delta - \frac{1}{28}\delta\right]$$

$$= \frac{\partial}{\partial x}\left[\frac{6}{20}\delta - \frac{1}{8}\delta - \frac{1}{28}\delta\right] = \frac{\partial\delta}{\partial x}\left[\frac{84 - 35 - 10}{280}\right] = \frac{39}{280}\frac{\partial\delta}{\partial x}$$

$$\tau_0 = \rho U^2 \times \frac{39}{280}\frac{\partial\delta}{\partial x} = \frac{39}{280}\rho U^2 \frac{\partial\delta}{\partial x} \qquad \ldots(13.20)$$

Also the shear stress τ_0 is given by $\tau_0 = \mu\left(\frac{du}{dy}\right)_{y=0}$, where $u = U\left[\frac{3}{2}\frac{y}{\delta} - \frac{y^3}{2\delta^3}\right]$

$$\therefore \quad \frac{du}{dy} = U\left[\frac{3}{2\delta} - \frac{3y^2}{2\delta^3}\right]$$

Hence $\left(\frac{du}{dy}\right)_{y=0} = U\left[\frac{3}{2\delta} - \frac{3}{2\delta^3}\times 0\right] = \frac{3U}{2\delta}$

$$\therefore \quad \tau_0 = \mu\left(\frac{du}{dy}\right)_{y=0} = \mu\frac{3U}{2\delta} = \frac{3}{2}\frac{\mu U}{\delta} \qquad \ldots(13.21)$$

or $$\delta = \sqrt{\frac{420\times 2}{39}\frac{\mu}{\rho U}}\,x = 4.64\sqrt{\frac{\mu x}{\rho U}} = 4.64\sqrt{\frac{\mu x\times x}{\rho U x}}$$

$$= 4.64\sqrt{\frac{\mu}{\rho U x}}\,x = \frac{4.64\,x}{\sqrt{R_{e_x}}}$$

OR

15 b.	Experiments were conducted in a wind tunnel with a wind speed of 50 Km/hr on a flat plate of size 2 m long and 1 m wide. The density of air is 1.15 Kg/m^3. The co-efficient of lift and drag are 0.75 and 0.15 respectively. Determine (i) The lift force (ii) The drag force (iii) The resultant force (iv) Direction of resultant force (v) Power exerted by air on the plate. **Solution.** Given : Length of plate, $L = 1$ m Width of plate, $b = 0.8$ m Velocity of fluid (water), $U = 150$ mm/s = 0.15 m/s μ for water $= 0.01$ poise $= \frac{0.01}{10}\frac{\text{Ns}}{\text{m}^2} = 0.001\ \frac{\text{Ns}}{\text{m}^2}$ Reynold number at the end of the plate *i.e.*, at a distance of 1 m from leading edge is given by $R_{e_L} = \frac{\rho UL}{\mu} = 1000 \times \frac{0.15 \times 1.0}{.001}$ $(\because \rho = 1000)$ $= \frac{1000 \times .15 \times 1.0}{0.001} = 150000$ (*i*) As laminar boundary layer exists upto Reynold number $= 2 \times 10^5$. Hence this is the case of laminar boundary layer. Thickness of boundary layer at $x = 1.0$ m is given by equation (13.17) as $\delta = 5.48\ \frac{x}{\sqrt{R_{e_x}}} = \frac{5.48 \times 1.0}{\sqrt{150000}} = 0.01415$ m = **14.15 mm. Ans.** (*ii*) Drag force on one side of the plate is given by equation (13.18) $F_D = 0.73\ b\mu U \sqrt{\frac{\rho UL}{\mu}}$ $= 0.73 \times 0.8 \times 0.001 \times 0.15 \times \sqrt{150000}$ $\left\{\because \frac{\rho UL}{\mu} = R_{e_L}\right\}$ **= 0.0338 N. Ans.** (*iii*) Co-efficient of drag, C_D is given by equation (13.19) as $C_D = \frac{1.46}{\sqrt{R_{e_L}}} = \frac{1.46}{\sqrt{150000}} =$ **.00376. Ans.**	C203.5	AZ

Part – C
(Answer all the questions 1 x 15 = 15 marks)

Q. No.	Questions	CO	Skills
16 a.	Find the maximum shear stress, boundary layer thickness by using Von Karman equation for the velocity distribution in the boundary layer given by $\mathbf{u/U = 2(y/\delta) - (y/\delta)^2}$	C203.6	AZ

Solution. Given :

(*i*) The velocity distribution $\frac{u}{U} = 2\left(\frac{y}{\delta}\right) - \left(\frac{y}{\delta}\right)^2$ ...(*i*)

$$\frac{\tau_0}{\rho U^2} = \frac{\partial}{\partial x}\left[\int_0^\delta \frac{u}{U}\left(1 - \frac{u}{U}\right) dy\right] = \frac{\partial}{\partial x}\left[\int_0^\delta \left[\frac{2y}{\delta} - \frac{y^2}{\delta^2}\right]\left[1 - \left(\frac{2y}{\delta} - \frac{y^2}{\delta^2}\right)\right] dy\right]$$

$$= \frac{\partial}{\partial x}\left[\int_0^\delta \left[\frac{2y}{\delta} - \frac{y^2}{\delta^2}\right]\left[1 - \frac{2y}{\delta} + \frac{y^2}{\delta^2}\right] dy\right]$$

$$= \frac{\partial}{\partial x}\left[\int_0^\delta \left[\frac{2y}{\delta} - \frac{4y^2}{\delta^2} + \frac{2y^3}{\delta^3} - \frac{y^2}{\delta^2} + \frac{2y^3}{\delta^3} - \frac{y^4}{\delta^4}\right] dy\right]$$

$$= \frac{\partial}{\partial x}\int_0^\delta \left[\frac{2y}{\delta} - \frac{5y^2}{\delta^2} + \frac{4y^3}{\delta^3} - \frac{y^4}{\delta^4}\right] dy = \frac{\partial}{\partial x}\left[\frac{2y^2}{2\delta} - \frac{5 \times y^3}{3\delta^2} + \frac{4y^4}{4\delta^3} - \frac{y^5}{5\delta^4}\right]_0^\delta$$

$$= \frac{\partial}{\partial x}\left[\frac{\delta^2}{\delta} - \frac{5}{3}\frac{\delta^3}{\delta^2} + \frac{\delta^4}{\delta^3} - \frac{\delta^5}{5\delta^4}\right] = \frac{\partial}{\partial x}\left[\delta - \frac{5}{3}\delta + \delta - \frac{\delta}{5}\right]$$

$$= \frac{\partial}{\partial x}\left[\frac{15\delta - 25\delta + 15\delta - 3\delta}{15}\right] = \frac{\partial}{\partial x}\left[\frac{30\delta - 28\delta}{15}\right] = \frac{\partial}{\delta x}\left[\frac{2\delta}{15}\right] = \frac{2}{15}\frac{\partial}{\partial x}[\delta]$$

$$\therefore \quad \tau_0 = \rho U^2 \times \frac{2}{15}\frac{\partial}{\partial x}[\delta] = \frac{2}{15}\rho U^2 \frac{\partial[\delta]}{\partial x} \quad \text{...(13.15)}$$

The shear stress at the boundary in laminar flow is also given by Newton's law of viscosity as

$$\tau_0 = \mu\left(\frac{du}{dy}\right)_{y=0} \quad \text{...(ii)}$$

But from equation (*i*), $u = U\left[\frac{2y}{\delta} - \frac{y^2}{\delta^2}\right]$

$$\therefore \quad \frac{du}{dy} = U\left[\frac{2}{\delta} - \frac{2y}{\delta^2}\right] \qquad [\because \ U \text{ is constant}]$$

$$\therefore \quad \left(\frac{du}{dy}\right)_{y=0} = U\left[\frac{2}{\delta} - \frac{2 \times (0)}{\delta^2}\right] = \frac{2U}{\delta}$$

Substituting this value in (*ii*), we get

$$\tau_0 = \mu \times \frac{2U}{\delta} = \frac{2\mu U}{\delta} \quad \text{...(iii)}$$

Equating the two values of τ_0 given by equation (13.15) and (*iii*)

$$\frac{2}{15}\rho U^2 \frac{\partial}{\partial x}[\delta] = \frac{2\mu U}{\delta}$$

or $$\frac{\delta\partial}{\partial x}[\delta] = \frac{15\mu U}{\rho U^2} = \frac{15\mu}{\rho U} \quad \text{or} \quad \delta\partial[\delta] = \frac{15\mu}{\rho U}\partial x$$

As the boundary layer thickness (δ) is a function of x only.
Hence partial derivative can be changed to total derivative

(*ii*) **Shear stress (τ_0) in terms of Reynolds number**

From equation (*iii*), we have $\tau_0 = \frac{2\mu U}{\delta}$

Substituting the value of δ from equation (13.17), in the above equation, we get

$$\tau_0 = \frac{2\mu U}{\frac{5.48x}{\sqrt{R_{e_x}}}} = \frac{2\mu U\sqrt{R_{e_x}}}{5.48x} = 0.365\,\frac{\mu U}{x}\sqrt{R_{e_x}}$$

OR

16 b.	Find the displacement thickness, momentum thickness and energy thickness for the velocity distribution in the boundary layer given by $\mathbf{u/U = 2(y/\delta) - (y/\delta)^2}$	C203.6	AZ

Solution. Given :

Velocity distribution $\frac{u}{U} = 2\left(\frac{y}{\delta}\right) - \left(\frac{y}{\delta}\right)^2$

(*i*) Displacement thickness δ^* is given by equation (13.2),

$$\delta^* = \int_0^\delta \left(1 - \frac{u}{U}\right) dy$$

Substituting the value of $\frac{u}{U} = 2\left(\frac{y}{\delta}\right) - \left(\frac{y}{\delta}\right)^2$, we have

$$\delta^* = \int_0^\delta \left\{1 - \left[2\left(\frac{y}{\delta}\right) - \left(\frac{y}{\delta}\right)^2\right]\right\} dy$$

$$= \int_0^\delta \left\{1 - 2\left(\frac{y}{\delta}\right) + \left(\frac{y}{\delta}\right)^2\right\} dy = \left[y - \frac{2y^2}{2\delta} + \frac{y^3}{3\delta^2}\right]_0^\delta$$

$$= \delta - \frac{\delta^2}{\delta} + \frac{\delta^3}{3\delta^2} = \delta - \delta + \frac{\delta}{3} = \frac{\delta}{3}. \quad \textbf{Ans.}$$

(*ii*) Momentum thickness θ, is given by equation (13.5),

$$\theta = \int_0^\delta \frac{u}{U}\left\{1 - \frac{u}{U}\right\} dy = \int_0^\delta \left(\frac{2y}{\delta} - \frac{y^2}{\delta^2}\right)\left[1 - \left(\frac{2y}{\delta} - \frac{y^2}{\delta^2}\right)\right] dy$$

$$= \int_0^\delta \left[\frac{2y}{\delta} - \frac{y^2}{\delta^2}\right]\left[1 - \frac{2y}{\delta} + \frac{y^2}{\delta^2}\right] dy$$

$$= \int_0^\delta \left[\frac{2y}{\delta} - \frac{4y^2}{\delta^2} + \frac{2y^3}{\delta^3} - \frac{y^2}{\delta^2} + \frac{2y^3}{\delta^3} - \frac{y^4}{\delta^4}\right] dy$$

$$= \int_0^\delta \left[\frac{2y}{\delta} - \frac{5y^2}{\delta^2} + \frac{4y^3}{\delta^3} - \frac{y^4}{\delta^4}\right] dy = \left[\frac{2y^2}{2\delta} - \frac{5y^3}{3\delta^2} + \frac{4y^4}{4\delta^3} - \frac{y^5}{5\delta^4}\right]_0^\delta$$

$$= \left[\frac{\delta^2}{\delta} - \frac{5\delta^3}{3\delta^2} + \frac{\delta^4}{\delta^3} - \frac{\delta^5}{5\delta^4}\right] = \delta - \frac{5\delta}{3} + \delta - \frac{\delta}{5}$$

$$= \frac{15\delta - 25\delta + 15\delta - 3\delta}{15} = \frac{30\delta - 28\delta}{15} = \frac{2\delta}{15}. \quad \textbf{Ans.}$$

(*iii*) Energy thickness δ^{**} is given by equation (13.6),

$$\delta^{**} = \int_0^\delta \frac{u}{U}\left[1 - \frac{u^2}{U^2}\right] dy = \int_0^\delta \left(\frac{2y}{\delta} - \frac{y^2}{\delta^2}\right)\left(1 - \left[\frac{2y}{\delta} - \frac{y^2}{\delta^2}\right]^2\right) dy$$

$$= \int_0^\delta \left(\frac{2y}{\delta} - \frac{y^2}{\delta^2}\right)\left(1 - \left[\frac{4y^2}{\delta^2} + \frac{y^4}{\delta^4} - \frac{4y^3}{\delta^3}\right]\right) dy$$

$$= \int_0^\delta \left(\frac{2y}{\delta} - \frac{y^2}{\delta^2}\right)\left(1 - \frac{4y^2}{\delta^2} - \frac{y^4}{\delta^4} + \frac{4y^3}{\delta^3}\right) dy$$

$$= \frac{\delta^2}{\delta} - \frac{\delta^3}{3\delta^2} - \frac{2\delta^4}{\delta^3} + \frac{12\delta^5}{5\delta^4} - \frac{\delta^6}{\delta^5} + \frac{\delta^7}{7\delta^6} = \delta - \frac{\delta}{3} - 2\delta + \frac{12}{5}\delta - \delta + \frac{\delta}{7}$$

$$= -2\delta - \frac{\delta}{3} + \frac{12}{5}\delta + \frac{\delta}{7} = \frac{-210\delta - 35\delta + 252\delta + 15\delta}{105}$$

$$= \frac{-245\delta + 267\delta}{105} = \frac{22\delta}{105}. \quad \textbf{Ans.}$$

Bloom's Skills: Remember (R), Understand (U), Apply (A), Analyze (AZ), Evaluate (E) and Create (C). Skill need to be mentioned against each question

Saranathan College of Engineering

Tiruchirapalli

Model Exam			Date	16-12-2022	Marks	100
Course code	CE3301	Course Title	Fluid Mechanics			
Batch No.		Duration	3 Hours	Academic Year		2022 – 2023
Year	II	Semester/ Section	III / A	Department		Civil Engineering

Part – A

(Answer all the questions 10 x 2 = 20 marks)

Q. No.	Questions	CO	Skills
1	Differentiate Model from Prototype.	C203.3	R
2	Enlist the types of Similitude.	C203.3	R
3	What are all the forces acting in a moving fluid?	C203.3	R
4	Define Scale ratio.	C203.3	R
5	List out the advantages of model analysis.	C203.3	R
6	Define hydraulic gradient line.	C203.4	R
7	What are major energy loss and minor energy loss in pipe?	C203.4	R
8	Write a short note on Water Hammer.	C203.5	R
9	Define Boundary layer thickness.	C203.5	R
10	What are the different methods of preventing separation of boundary layers?	C203.5	R

Part – B

(Answer all the questions 5 x 13 = 65 marks)

Q. No.	Questions	CO	Skills
11 a.	A ship 300 m long moves in sea water, whose density is 1030 Kg/m^3, A 1:1000 model of this ship is to be tested in a wind tunnel. The velocity of air in the wind tunnel around the model is 30 m/s and the resistance of the model is 60 N. Determine the velocity of ship in sea water and also the resistance of the ship in sea water. The density of air is given as 124 Kg/m^3. Take the kinematic viscosity of sea water and air as 0.012 stokes and 0.018 stokes respectively.	C203.3	AZ
	OR		
11 b.	Discuss in detail about various steps in solving Buckingham's π Theorem method.	C203.3	AZ
12 a.	Derive Hagen Poisulle's equation for viscous flow.	C203.3	AZ
	OR		
12 b.	Explain in detail about various steps in solving Rayleigh's method.	C203.3	AZ
13 a.	The efficiency η of a fan depends on the density ρ, the dynamic viscosity μ, of the fluid, the angular velocity ω, diameter D of the rotor and the discharge Q. Express η in terms of dimensionless parameters. Use Rayleigh's Method.	C203.3	AZ
	OR		
13 b.	Derive on the basis of dimensional analysis suitable parameters to present the thrust developed by a propeller. Assume that thrust force P depends	C203.3	AZ

	upon the angular velocity ω, speed of advance V, diameter D, dynamic viscosity μ, mass density ρ, elasticity of the fluid medium which can be denoted by the velocity of sound in the medium C.		
14 a.	An oil of viscosity 0.1 Ns/m^2 and relative density 0.9 is flowing through a circular pipe of diameter 50 mm and of length 300 m. The rate of flow of fluid through the pip is 3.5 litres/s. Find the pressure drop in a length of 300 m and also the shear stress at the pipe wall.	C203.4	AZ
	OR		
14 b.	Three pipes of 400mm, 200mm and 300mm diameters have lengths of 400m, 200m and 300 m respectively. They are connected in series to make a compound pipe. The ends of this compound pipe are connected with two tanks whose difference of water levels is 16m. If co-efficient of friction for these pipes is same and equal to 0.005, determine the discharge through the compound pipe neglecting first the minor losses and then including them.	C203.4	AZ
15 a.	Find the displacement thickness, momentum thickness and energy thickness for the velocity distribution in the boundary layer given by $\mathbf{u/U = (y/\delta) - (2/3)(y/\delta)}$	C203.5	AZ
	OR		
15 b.	Experiments were conducted in a wind tunnel with a wind speed of 50 Km/hr on a flat plate of size 2 m long and 1 m wide. The density of air is 1.15 Kg/m^3. The co-efficient of lift and drag are 0.75 and 0.15 respectively. Determine (i) The lift force (ii) The drag force (iii) The resultant force (iv) Direction of resultant force (v) Power exerted by air on the plate.	C203.5	AZ

Part – C

(Answer all the questions 1 x 15 = 15 marks)

Q. No.	Questions	CO	Skills
16 a.	Find the maximum shear stress, boundary layer thickness by using Von Karman equation for the velocity distribution in the boundary layer given by $\mathbf{u/U = (y/\delta) - (2/3)(y/\delta)}$	C203.5	AZ
	OR		
16 b.	Find the displacement thickness, momentum thickness and energy thickness for the velocity distribution in the boundary layer given by $\mathbf{u/U = (3/2)(y/\delta) - (1/2)(y/\delta)^3}$	C203.5	AZ

Bloom's Skills: Remember (R), Understand (U), Apply (A), Analyze (AZ), Evaluate (E) and Create (C). Skill need to be mentioned against each question

Saranathan College of Engineering
Tiruchirappalli - 620012

Internal Assessment Test - I			Date/Session	21.09.2021 / FN	Marks	50
Course code	CE3301	Course Title	FUID MECHANICS			
Batch No.		Duration	1Hr. 30 Min.	Academic Year	2022-2023/ODD	
Year	II	Semester	III	Department	Civil Engineering	

Part – A (20 Marks)

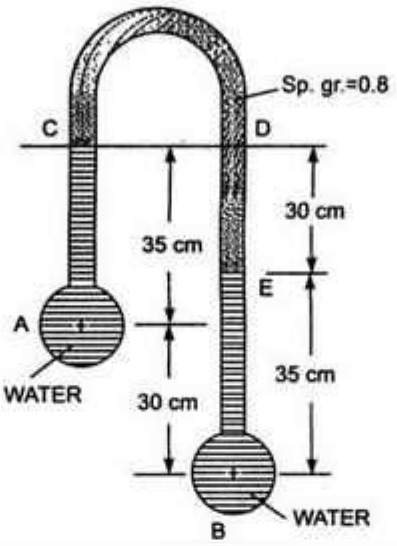
I. Answer all the Questions **(10x2=20Marks)**

Q. No.	Questions	CO	Skills
1	Define Mass density and specific weight.	C203.1	R
2	Define Viscosity, its types and respective formula.	C203.1	R
3	Calculate the specific weight, density and specific gravity of 1 litre of liquid which weighs 7 N.	C203.1	A
4	Define Capillarity.	C203.1	R
5	The Capillary rise in the glass tube is not to exceed 0.2 mm of water. Determine its minimum size, given that surface tension of water in contact with air = 0.0725 N/m.	C203.1	A
6	What do you understand by Continuity Equation?	C203.2	R
7	Write the equations of motion.	C203.2	R
8	Write down the formulae for finding the discharge in Venturimeter.	C203.2	R
9	Write Bernoulli's equation.	C203.2	R
10	List out various applications of Bernoulli's equation.	C203.2	R

Part – B
(Answer all the questions 2 x 10 = 20marks)

Q. No.	Questions	CO	Skills
11	The dynamic viscosity of oil, used for lubrication between a shaft and sleeve is 6 poise. The shaft is of diameter 0.4 m and rotates at 190 rpm. Calculate the power lost in the bearing for a sleeve length of 90 mm. The thickness of the oil film is 1.5 mm.	C203.1	AZ
	Or		
12	A differential manometer is connected at two points A and B of two pipes. The pipe A contains a liquid of specific gravity 1.5 while pipe B contains a liquid of specific gravity 0.9. The pressure at A and B are 9.81 N/m^2 and 17.658 N/m^2 respectively. The height difference between right limb and left limb is 3 m from top in which left limb is in higher elevation. The distance between the centre of pipe B and starting level of mercury is 2 m. The pressure maintained is vaccum pressure. Find the difference in mercury level.	C203.1	AZ
13	A 30 cm diameter pipe, conveying water, branches into two pipes of diameters 20 cm and15 cm respectively. If the average velocity in the 30 cm pipe is 2.5 m/s, find the discharge in this pipe. Also determine the velocity in 15 cm pipe if the average velocity in 20 cm diameter pipe is 2 m/s.	C203.2	AZ
	Or		
14	A pipe line carrying liquid of specific gravity 0.92, changes in diameter from 200mm to 500mm. The larger end is 4m above the datum. If pressures at both sections are 9.81 N/cm^2 and 5.886 N/cm^2 respectively, determine the head loss. The rate of flow is 3.33×10^{-3} m^3/s.	C203.2	AZ

Part – C
(Answer all the questions 1 x 10 = 10marks)

Q.No.	Questions	CO	Skills
15	The space between two square flat parallel plates is filled with oil. Each side of the plate is 60 cm. The thickness of the oil film is 12.5 mm. The upper plate which moves at 2.5 m/s requires a force of 98.1 N to maintain the speed. Determine i) Dynamic Viscosity ii) Kinematic viscosity of oil if specific gravity of oil is 0.95.	C203.1	AZ
	Or		
16	An inverted U tube manometer is connected to two horizontal pipes A and B. The vertical distance between the axis of these pipes is 30 cm. When an oil of specific gravity 0.8 is used as a gauge liquid, determine the pressure difference between the pipes. 	C203.1	AZ

Bloom's Skills: Remember (R), Understand (U), Apply (A), Analyze (AZ), Evaluate (E) and Create (C). Skill need to be mentioned against each question

Saranathan College of Engineering
Tiruchirappalli - 620012

Internal Assessment Test - I			Date/Session	21.09.2021 / FN	Marks	50
Course code	CE3301	Course Title	FUID MECHANICS			
Batch No.		Duration	1Hr. 30 Min.	Academic Year	2022-2023/ODD	
Year	II	Semester	III	Department	Civil Engineering	

Part – A (Answer all the Questions 5 x 2 = 10Marks)

Q. No.	Questions	CO	Skills
1	Define specific volume.	C203.1	R
2	State newton's law of viscosity	C203.1	R
3	Write down the expression for capillary fall.	C203.1	A
4	State bernoulli's equation with its assumptions	C203.2	R
5	Wite Euler's equation of motion.	C203.2	A

Part – B (Answer all the questions)

11	A pipe line carrying liquid of specific gravity 0.8, changes in diameter from 100mm to 400mm. The larger end is 6m above the datum. If pressures at both sections are 9.81 N/cm^2 and 17.658 N/cm^2 respectively, determine the head loss. The rate of flow is 5 litres/s. **(8)**	C203.2	AZ
	and		
12	A differential manometer is connected at two points A and B of two pipes. The pipe A contains a liquid of specific gravity 0.8 while pipe B contains a liquid of specific gravity 0.9. The pressure at A and B are 9.81 N/m^2 and 17.658 N/m^2 respectively. The height difference between right limb and left limb is 4 m from top in which left limb is in higher elevation. The distance between the centre of pipe B and starting level of mercury is 1.5 m. The pressure maintained is vaccum pressure. Find the difference in mercury level. **(7)**	C203.1	AZ

Saranathan College of Engineering
Tiruchirappalli - 620012

Internal Assessment Test - I			Date/Session	21.09.2021 / FN	Marks	50
Course code	CE3301	Course Title	FUID MECHANICS			
Batch No.		Duration	1Hr. 30 Min.	Academic Year	2022-2023/ODD	
Year	II	Semester	III	Department	Civil Engineering	

Part – A (Answer all the Questions 5 x 2 = 10Marks)

Q. No.	Questions	CO	Skills
1	Define specific volume.	C203.1	R
2	State newton's law of viscosity	C203.1	R
3	Write down the expression for capillary fall.	C203.1	A
4	State bernoulli's equation with its assumptions	C203.2	R
5	Wite Euler's equation of motion.	C203.2	A

Part – B (Answer all the questions)

11	A pipe line carrying liquid of specific gravity 0.8, changes in diameter from 100mm to 400mm. The larger end is 6m above the datum. If pressures at both sections are 9.81 N/cm^2 and 17.658 N/cm^2 respectively, determine the head loss. The rate of flow is 5 litres/s. **(8)**	C203.2	AZ
	and		
12	A differential manometer is connected at two points A and B of two pipes. The pipe A contains a liquid of specific gravity 0.8 while pipe B contains a liquid of specific gravity 0.9. The pressure at A and B are 9.81 N/m^2 and 17.658 N/m^2 respectively. The height difference between right limb and left limb is 4 m from top in which left limb is in higher elevation. The distance between the centre of pipe B and starting level of mercury is 1.5 m. The pressure maintained is vaccum pressure. Find the difference in mercury level. **(7)**	C203.1	AZ

Saranathan College of Engineering
Tiruchirappalli - 620012

Slip Test - II			Date/Session	29-10-2022	Marks	25
Course code	CE3301	Course Title	Fluid Mechanics			
Batch No.		Duration	45 Minutes	Academic Year	2022-2023/ODD	
Year	II	Semester	III	Department	CIVIL	

Part – A (Answer all the questions 2 x 5 = 10marks)

Q. No.	Questions	CO	Skills
1.	Write the continuity equation in three dimensional form.	C203.2	U
2.	Write the moment of momentum equation and its application.	C203.2	R
3.	Differentiate Model from Prototype.	C203.3	U
4.	Enlist the types of Similitude.	C203.3	R
5.	Define Scale ratio.	C203.3	R

Part – B (Answer any one question 1 x 15 = 15marks)

Q. No.	Questions	CO	Skills
6	The efficiency η of a fan depends on the density ρ, the dynamic viscosity μ, of the fluid, the angular velocity ω, diameter D of the rotor and the discharge Q. Express η in terms of dimensionless parameters. Use Rayleigh's Method.	C203.3	AZ
	Or		
7	A horizontal venturimeter with inlet diameter 20 cm and throat diameter 10 cm is used to measure the flow of oil of specific gravity 0.8. The discharge of oil through venturimter is 60 litres/s. Find the reading of oil-mercury differential manometer. Take $C_d = 0.98$.	C203.2	AZ

Saranathan College of Engineering
Tiruchirappalli - 620012

Slip Test - II			Date/Session	29-10-2022	Marks	25
Course code	CE3301	Course Title	Fluid Mechanics			
Batch No.		Duration	45 Minutes	Academic Year	2022-2023/ODD	
Year	II	Semester	III	Department	CIVIL	

Part – A (Answer all the questions 2 x 5 = 10marks)

Q. No.	Questions	CO	Skills
1.	Write the continuity equation in three dimensional form.	C203.2	U
2.	Write the moment of momentum equation and its application.	C203.2	R
3.	Differentiate Model from Prototype.	C203.3	U
4.	Enlist the types of Similitude.	C203.3	R
5.	Define Scale ratio.	C203.3	R

Part – B (Answer any one question 1 x 15 = 15marks)

Q. No.	Questions	CO	Skills
6	The efficiency η of a fan depends on the density ρ, the dynamic viscosity μ, of the fluid, the angular velocity ω, diameter D of the rotor and the discharge Q. Express η in terms of dimensionless parameters. Use Rayleigh's Method.	C203.3	AZ
	Or		
7	A horizontal venturimeter with inlet diameter 20 cm and throat diameter 10 cm is used to measure the flow of oil of specific gravity 0.8. The discharge of oil through venturimter is 60 litres/s. Find the reading of oil-mercury differential manometer. Take $C_d = 0.98$.	C203.2	AZ

Classwise Internal Assessment Mark Report

Class:CIVIL Semester:3 Section:A: Assessment Test -1 Sem Period:22-23ODD

S.no	Regno	Batchno	Name	CE3301	CE3302	CE3303	CE3351	MA3351	ME3351	Tota
1	813821103001	247001	AMARNATH PRAVEEN. M	40	52	78	60	52	54	336
2	813821103002	247002	AMEERUDEEN. K	4	42	52	64	24	68	254
3	813821103003	247003	ARUN KUMAR. P	32	80	A	34	84	80	310
4	813821103004	247004	DHEENADHAYALAN. V	4	12	50	34	4	56	160
5	813821103005	247005	GIRIDHARAN. A	38	14	58	28	66	40	244
6	813821103006	247006	GOKULA KRISHNAN. K S	14	66	50	32	14	34	210
7	813821103007	247007	GOKULESH. S	28	84	70	88	54	44	368
8	813821103008	247008	HARINI. E L	34	74	62	58	34	44	306
9	813821103009	247009	JAFFREY SAMUEL. F	A	A	A	50	34	54	138
10	813821103010	247010	LIJO SOOSAI. S	78	80	90	94	66	84	492
11	813821103011	247011	LYDIA MARY VINCENT AROCKIARAJ	80	80	82	90	86	92	510
12	813821103012	247012	MANIMOZHI. T	52	64	72	72	52	68	380
13	813821103013	247013	MOHAMED ASHFAK. U	42	86	66	62	82	44	382
14	813821103014	247014	MOHAMMED FARIZ. M	52	40	56	44	62	58	312
15	813821103015	247015	MUGESH. M	26	72	54	60	60	44	316
16	813821103016	247016	NAVEEN KUMAR. P	12	A	40	42	18	36	148
17	813821103017	247017	SANJAY. R	14	70	68	70	26	34	282
18	813821103018	247018	SANTHOSH. M	18	54	52	50	14	30	218
19	813821103019	247019	SATHISH KUMAR. D	34	78	64	70	56	50	352
20	813821103020	247020	SATHYA. M E	84	78	52	56	56	94	420
21	813821103021	247021	SRINITHI. E	80	76	84	72	76	86	474
22	813821103022	247022	SRINIVASAN. S	64	66	50	70	50	80	380
23	813821103023	247023	THANGAPRABAKARAN. T	10	32	38	54	4	22	160
24	813821103024	247024	VENGATESH. V	42	66	68	62	70	56	364
25	813821103025	247025	VIJAYAPRABHA. K	86	92	80	100	74	84	516
26	813821103026	247026	VIKAS. S	12	62	58	50	40	40	262
27	813821103027	247027	VIMAL. S	76	82	80	96	82	88	504

28	813821103302	247028	VIJAY RAGHAV. S	12	62	70	70	40	56	310
29	813821103301	247029	ARUN HAREESH. K	A	A	A	A	0	NA	0

Performance Analysis

Total Appeared	29	29	29	29	29	29
Total Passed	9	21	24	22	17	17
Total Failed(Fail + Absent)	20	8	5	7	12	12
Above 80	4	7	5	5	4	8
Between 50-59	2	2	10	6	6	7
Pass%	**31**	**72**	**83**	**76**	**59**	**59**

Subcode	Title	Faculty Name
CE3301	FLUID MECHANICS	Mr.A.Anand Raj
CE3302	CONSTRUCTION MATERIALS AND TECHNOLOGY	Mr.G.Venkatesan
CE3303	WATER SUPPLY AND WASTEWATER ENGINEERING	Mr.C.Kesava Raja
CE3351	SURVEYING AND LEVELLING	Mr.S.Kannan
MA3351	TRANSFORMS AND PARTIAL DIFFERENTIAL EQUATIONS	Dr.S.Anupriya
ME3351	ENGINEERING MECHANICS	Mr.S.Vinoth Kumar

Classwise Internal Assessment Mark Report

Class:CIVIL Semester:3 Section:A: Assessment Test -2 Sem Period:22-23ODD

S.no	Regno	Batchno	Name	CE3301	CE3302	CE3303	CE3351	MA3351	ME3351	Tota
1	813821103001	247001	AMARNATH PRAVEEN. M	44	70	70	54	68	42	348
2	813821103002	247002	AMEERUDEEN. K	68	70	56	8	54	58	314
3	813821103003	247003	ARUN KUMAR. P	74	88	50	78	72	84	446
4	813821103004	247004	DHEENADHAYALAN. V	64	78	54	4	50	74	324
5	813821103005	247005	GIRIDHARAN. A	52	42	30	6	44	64	238
6	813821103006	247006	GOKULA KRISHNAN. K S	52	68	52	6	18	66	262
7	813821103007	247007	GOKULESH. S	68	74	60	56	68	20	346
8	813821103008	247008	HARINI. E L	60	68	70	50	60	42	350
9	813821103009	247009	JAFFREY SAMUEL. F	54	52	56	50	60	42	314
10	813821103010	247010	LIJO SOOSAI. S	90	82	72	80	84	80	488
11	813821103011	247011	LYDIA MARY VINCENT AROCKIARAJ	100	82	78	88	74	72	494
12	813821103012	247012	MANIMOZHI. T	72	62	50	58	78	34	354
13	813821103013	247013	MOHAMED ASHFAK. U	A	A	A	A	A	A	0
14	813821103014	247014	MOHAMMED FARIZ. M	52	70	46	50	80	58	356
15	813821103015	247015	MUGESH. M	62	68	50	28	52	50	310
16	813821103016	247016	NAVEEN KUMAR. P	40	38	30	50	40	4	202
17	813821103017	247017	SANJAY. R	34	60	54	4	16	24	192
18	813821103018	247018	SANTHOSH. M	36	60	64	22	32	22	236
19	813821103019	247019	SATHISH KUMAR. D	70	64	68	62	62	54	380
20	813821103020	247020	SATHYA. M E	42	82	62	40	60	68	354
21	813821103021	247021	SRINITHI. E	74	82	82	70	76	72	456
22	813821103022	247022	SRINIVASAN. S	68	52	50	64	60	44	338
23	813821103023	247023	THANGAPRABAKARAN. T	34	40	26	14	34	6	154
24	813821103024	247024	VENGATESH. V	62	80	66	50	68	36	362
25	813821103025	247025	VIJAYAPRABHA. K	96	90	84	90	84	82	526
26	813821103026	247026	VIKAS. S	34	78	52	34	42	20	260
27	813821103027	247027	VIMAL. S	76	86	26	34	90	78	390

28	813821103302	247028	VIJAY RAGHAV. S	74	68	62	52	56	22	334
29	813821103301	247029	ARUN HAREESH. K	46	52	30	38	50	10	226

Performance Analysis

Total Appeared	29	29	29	29	29	29
Total Passed	20	25	22	16	21	14
Total Failed(Fail + Absent)	9	4	7	13	8	15
Above 80	3	8	2	3	4	3
Between 50-59	4	3	10	9	5	4
Pass%	**69**	**86**	**76**	**55**	**72**	**48**

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MA3351	TRANSFORMS AND PARTIAL DIFFERENTIAL EQUATIONS	Dr.S.Anupriya
ME3351	ENGINEERING MECHANICS	Mr.S.Vinoth Kumar

Classwise Internal Assessment Mark Report

Class:CIVIL Semester:3 Section:A: Assessment Test -3 Sem Period:22-23ODD

S.no	Regno	Batchno	Name	CE3301	CE3302	CE3303	CE3351	MA3351	ME3351	Tota
1	813821103001	247001	AMARNATH PRAVEEN. M	64	43	59	50	51	40	307
2	813821103002	247002	AMEERUDEEN. K	52	23	20	22	14	11	142
3	813821103003	247003	ARUN KUMAR. P	75	50	69	61	53	53	361
4	813821103004	247004	DHEENADHAYALAN. V	10	14	7	6	20	8	65
5	813821103005	247005	GIRIDHARAN. A	8	19	9	0	27	5	68
6	813821103006	247006	GOKULA KRISHNAN. K S	30	31	13	3	24	37	138
7	813821103007	247007	GOKULESH. S	35	34	21	33	7	35	165
8	813821103008	247008	HARINI. E L	48	57	43	51	22	45	266
9	813821103009	247009	JAFFREY SAMUEL. F	54	46	37	50	30	64	281
10	813821103010	247010	LIJO SOOSAI. S	82	51	66	68	75	81	423
11	813821103011	247011	LYDIA MARY VINCENT AROCKIARAJ	100	52	91	92	90	86	511
12	813821103012	247012	MANIMOZHI. T	68	44	56	59	57	41	325
13	813821103013	247013	MOHAMED ASHFAK. U	64	35	22	10	22	14	167
14	813821103014	247014	MOHAMMED FARIZ. M	58	53	42	50	23	50	276
15	813821103015	247015	MUGESH. M	50	12	13	2	12	30	119
16	813821103016	247016	NAVEEN KUMAR. P	54	30	20	26	16	31	177
17	813821103017	247017	SANJAY. R	22	60	45	35	4	22	188
18	813821103018	247018	SANTHOSH. M	12	52	28	23	14	28	157
19	813821103019	247019	SATHISH KUMAR. D	78	62	64	51	38	53	346
20	813821103020	247020	SATHYA. M E	48	65	41	58	32	57	301
21	813821103021	247021	SRINITHI. E	82	70	67	64	55	77	415
22	813821103022	247022	SRINIVASAN. S	94	59	34	69	73	50	379
23	813821103023	247023	THANGAPRABAKARAN. T	36	26	10	11	3	6	92
24	813821103024	247024	VENGATESH. V	64	40	46	38	35	32	255
25	813821103025	247025	VIJAYAPRABHA. K	100	87	70	91	91	65	504
26	813821103026	247026	VIKAS. S	20	54	16	11	4	8	113
27	813821103027	247027	VIMAL. S	100	71	58	84	60	83	456

28	813821103302	247028	VIJAY RAGHAV. S	18	52	42	27	25	33	197
29	813821103301	247029	ARUN HAREESH. K	32	50	11	39	10	51	193

Performance Analysis

Total Appeared	29	29	29	29	29	29
Total Passed	17	16	9	14	9	12
Total Failed(Fail + Absent)	12	13	20	15	20	17
Above 80	6	1	1	3	2	3
Between 50-59	5	10	3	7	4	6
Pass%	**59**	**55**	**31**	**48**	**31**	**41**

Subcode	Title	Faculty Name
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CE3351	SURVEYING AND LEVELLING	Mr.S.Kannan
MA3351	TRANSFORMS AND PARTIAL DIFFERENTIAL EQUATIONS	Dr.S.Anupriya
ME3351	ENGINEERING MECHANICS	Mr.S.Vinoth Kumar

SARANATHAN COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

ROOT CAUSE ANALYSIS

Academic Year:2022-23ODD Date:24/09/2022

Name of the Faculty: **Mr.A.Anand Raj**	Course Code & Name:**CE3301 & FLUID MECHANICS**
Degree & Program:B.E/B.TECH**(CIVIL)**	Semester & Section: **3-A**
IA Test: Internal Assessment Test -1	University Exam Month & Year:**22-23ODD**
Target:90%	Achieved:38%

S.NO	BATCH NO	NAME OF THE STUDENT	CAUSES FOR FAILURE	CORRECTIVE ACTION TAKEN
1	247001	AMARNATH PRAVEEN. M	Unable to understand concepts	Special coaching classes and remedial classes & additional tests conducted for all students
2	247002	AMEERUDEEN. K	Problems were difficult	
3	247003	ARUN KUMAR. P	Unable to understand concepts	
4	247004	DHEENADHAYALAN. V	Problems were difficult	
5	247005	GIRIDHARAN. A	Unable to understand concepts	
6	247006	GOKULA KRISHNAN. K S	Problems were difficult	
7	247007	GOKULESH. S	Unable to understand concepts	
8	247008	HARINI. E L	Problems were difficult	
9	247013	MOHAMED ASHFAK. U	Unable to understand concepts	
10	247015	MUGESH. M	Problems were difficult	
11	247016	NAVEEN KUMAR. P	Unable to understand concepts	
12	247017	SANJAY. R	Problems were difficult	
13	247018	SANTHOSH. M	Unable to understand concepts	
14	247019	SATHISH KUMAR. D	Problems were difficult	
15	247023	THANGAPRABAKARAN. T	Unable to understand concepts	
16	247024	VENGATESH. V	Problems were difficult	
17	247026	VIKAS. S	Unable to understand concepts	
18	247028	VIJAY RAGHAV. S	Problems were difficult	

Signature of the Staff **Head of the Department**

SARANATHAN COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

ROOT CAUSE ANALYSIS

Academic Year:2022-23ODD Date:21/10/2022

Name of the Faculty: **Mr.A.Anand Raj**	Course Code & Name:**CE3301 & FLUID MECHANICS**
Degree & Program:B.E/B.TECH(**CIVIL**)	Semester & Section: **3-A**
IA Test: Internal Assessment Test -2	University Exam Month & Year:**22-23ODD**
Target:90%	Achieved:72%

S.NO	BATCH NO	NAME OF THE STUDENT	CAUSES FOR FAILURE	CORRECTIVE ACTION TAKEN
1	247001	AMARNATH PRAVEEN. M	Fail due to poor and slow understanding	Counseling was given and also motivated to attend the test
2	247016	NAVEEN KUMAR. P		
3	247017	SANJAY. R		
4	247018	SANTHOSH. M		
5	247020	SATHYA. M E		
6	247023	THANGAPRABAKARAN. T		
7	247026	VIKAS. S		
8	247029	ARUN HAREESH. K		

Signature of the Staff **Head of the Department**

SARANATHAN COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

ROOT CAUSE ANALYSIS

Academic Year:2022-23ODD Date:23/12/2022

Name of the Faculty: **Mr.A.Anand Raj**	Course Code & Name:**CE3301 & FLUID MECHANICS**
Degree & Program:B.E/B.TECH**(CIVIL)**	Semester & Section: **3-A**
IA Test: Internal Assessment Test -3	University Exam Month & Year:**22-23ODD**
Target:90%	Achieved:59%

S.NO	BATCH NO	NAME OF THE STUDENT	CAUSES FOR FAILURE	CORRECTIVE ACTION TAKEN
1	247004	DHEENADHAYALAN. V		
2	247005	GIRIDHARAN. A	Fail due to poor and slow understanding	Question bank and subject notes given
3	247006	GOKULA KRISHNAN. K S		
4	247007	GOKULESH. S		
5	247008	HARINI. E L		
6	247017	SANJAY. R		
7	247018	SANTHOSH. M		
8	247020	SATHYA. M E		
9	247023	THANGAPRABAKARAN. T		
10	247026	VIKAS. S		
11	247028	VIJAY RAGHAV. S		
12	247029	ARUN HAREESH. K		

Signature of the Staff

Head of the Department

Classwise Internal Assessment Mark Report

Class:CIVIL Semester:3 Section:A: Assessment Make-up Test-2 Sem Period:22-23ODD

S.no	Regno	Batchno	Name	CE3301	CE3302	CE3303	CE3351	MA3351	ME3351	Tota
1	813821103001	247001	AMARNATH PRAVEEN. M	84					56	140
2	813821103002	247002	AMEERUDEEN. K				16			16
3	813821103004	247004	DHEENADHAYALAN. V				0			0
4	813821103005	247005	GIRIDHARAN. A		72	68	32	32		204
5	813821103006	247006	GOKULA KRISHNAN. K S				16	A		16
6	813821103007	247007	GOKULESH. S						60	60
7	813821103008	247008	HARINI. E L						52	52
8	813821103009	247009	JAFFREY SAMUEL. F						A	0
9	813821103012	247012	MANIMOZHI. T						68	68
10	813821103013	247013	MOHAMED ASHFAK. U	A	68	52	28	A	A	148
11	813821103014	247014	MOHAMMED FARIZ. M			56				56
12	813821103015	247015	MUGESH. M				36			36
13	813821103016	247016	NAVEEN KUMAR. P	56	56	36		40	52	240
14	813821103017	247017	SANJAY. R	52			60	52	52	216
15	813821103018	247018	SANTHOSH. M	32			32	40	60	164
16	813821103020	247020	SATHYA. M E	A			64			64
17	813821103022	247022	SRINIVASAN. S						88	88
18	813821103023	247023	THANGAPRABAKARAN. T	16	48	36	24	32	40	196
19	813821103024	247024	VENGATESH. V						64	64
20	813821103026	247026	VIKAS. S	44			4	28	44	120
21	813821103027	247027	VIMAL. S			68	36			104
22	813821103302	247028	VIJAY RAGHAV. S						52	52
23	813821103301	247029	ARUN HAREESH. K	64		40	52		52	208

Performance Analysis

Total Appeared	23	23	23	23	23	23
Total Passed	4	3	4	3	1	11

Total Failed(Fail + Absent)	5	1	3	10	7	4
Above 80	1	0	0	0	0	1
Between 50-59	2	1	2	1	1	6
Pass%	**17**	**13**	**17**	**13**	**4**	**48**

Subcode	Title	Faculty Name
CE3301	FLUID MECHANICS	Mr.A.Anand Raj
CE3302	CONSTRUCTION MATERIALS AND TECHNOLOGY	Mr.G.Venkatesan
CE3303	WATER SUPPLY AND WASTEWATER ENGINEERING	Mr.C.Kesava Raja
CE3351	SURVEYING AND LEVELLING	Mr.S.Kannan
MA3351	TRANSFORMS AND PARTIAL DIFFERENTIAL EQUATIONS	Dr.S.Anupriya
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Classwise Internal Assessment Mark Report

Class:CIVIL Semester:3 Section:A: Assessment Make-up Test-1 Sem Period:22-23ODD

S.no	Regno	Batchno	Name	CE3301	CE3302	CE3303	CE3351	MA3351	ME3351	Tota
1	813821103001	247001	AMARNATH PRAVEEN. M	64						64
2	813821103002	247002	AMEERUDEEN. K	48	68			64		180
3	813821103003	247003	ARUN KUMAR. P	56		56	40			152
4	813821103004	247004	DHEENADHAYALAN. V	24	A		A	32		56
5	813821103005	247005	GIRIDHARAN. A	40	48		68		52	208
6	813821103006	247006	GOKULA KRISHNAN. K S	52			A	44	A	96
7	813821103007	247007	GOKULESH. S	44					44	88
8	813821103008	247008	HARINI. E L	20				20	A	40
9	813821103009	247009	JAFFREY SAMUEL. F	56	68	68		72		264
10	813821103013	247013	MOHAMED ASHFAK. U	76					52	128
11	813821103014	247014	MOHAMMED FARIZ. M		88		92			180
12	813821103015	247015	MUGESH. M	68					50	118
13	813821103016	247016	NAVEEN KUMAR. P	76	68	A	60	40	60	304
14	813821103017	247017	SANJAY. R	44				52	60	156
15	813821103018	247018	SANTHOSH. M	48				40	60	148
16	813821103019	247019	SATHISH KUMAR. D	88						88
17	813821103023	247023	THANGAPRABAKARAN. T	24	48	52		32	50	206
18	813821103024	247024	VENGATESH. V	72						72
19	813821103026	247026	VIKAS. S	36				76	24	136
20	813821103302	247028	VIJAY RAGHAV. S	60				48		108
21	813821103301	247029	ARUN HAREESH. K	20	68	52	60	12		212

Performance Analysis

Total Appeared	21	21	21	21	21	21
Total Passed	10	5	4	4	4	7
Total Failed(Fail + Absent)	10	3	1	3	8	4
Above 80	1	1	0	1	0	0

Between 50-59	3	0	3	0	1	4
Pass%	**48**	**24**	**19**	**19**	**19**	**33**

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CE3301	FLUID MECHANICS	Mr.A.Anand Raj
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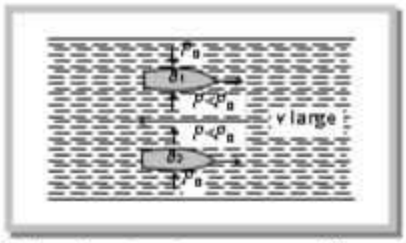
CONTENT BEYOND SYLLABUS

CE8302 FLUID MECHANICS

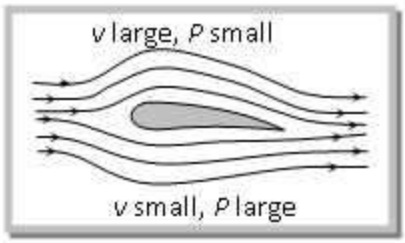
UNIT II FLUID KINEMATICS AND DYNAMICS

Applications of Bernoulli's Theorem

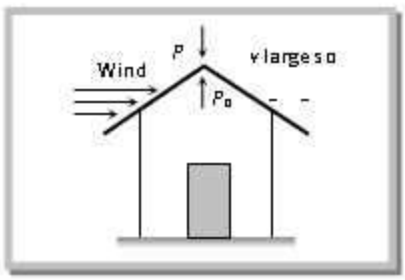
(i) **Attraction between two closely parallel moving boats (or buses):** When two boats or buses move side by side in the same direction, the water (or air) in the region between them moves faster than that on the remote sides. Consequently in accordance with Bernoulli's principle the pressure between them is reduced and hence due to pressure difference they are pulled towards each other creating the so called attraction.



(ii) **Working of an Aeroplane:** This is also based on Bernoulli's principle. The wings of the aeroplane are of the shape as shown in fig. Due to this specific shape of wings when the aeroplane runs, air passes at higher speed over it as compared to its lower surface. This difference of air speeds above and below the wings, in accordance with Bernoulli's principle, creates a pressure difference, due to which an upward force called 'dynamic lift' (= pressure difference × area of wing) acts on the plane. If this force becomes greater than the weight of the plane, the plane will rise up.



(iii) **Blowing off roofs by wind storms:** During a tornado or hurricane, when a high speed wind blows over a straw or tin roof, it creates a low pressure (P) in accordance with Bernoulli's principle.However, the pressure below the roof (i.e., inside the room) is still atmospheric (= P_o). So due to this difference of pressure the roof is lifted up and is then blown off by the wind.



(iv) **Magnus effect:** When a spinning ball is thrown, it deviates from its usual path in flight. This effect is called Magnus effect and plays as important role in tennis, cricket and soccer, etc. as by applying appropriate spin the moving ball can be made to curve in any desired direction.



CONTENT BEYOND SYLLABUS

CE8302 FLUID MECHANICS

UNIT IV FLOW THROUGH PIPES

Friction Factor

- The Moody friction chart (friction factor vs Reynolds number) is the most convenient method of getting the value of moody friction factor 'f'.
- For laminar pipe flows (Reynolds number R less than 2000), f = 64/R; because R head loss in laminar flows is independent of wall roughness.
- If the duct or pipe is not of circular cross-section area, an equivalent hydraulic diameter D_{eq} as defined earlier is used for calculating head loss or friction factor.
- The Swamee-Jain empirical equation may be used to calculate a pipe design diameter directly.

$$D = 0.66\left[\varepsilon^{1.25}\left(\frac{LQ^2}{gh_f}\right)^{4.75} + vQ^{9.4}\left(\frac{L}{gh_f}\right)^{5.2}\right]^{0.04}$$

where hydraulic diameter 'D' is a function of:

Roughness height 'ε' (m, ft),

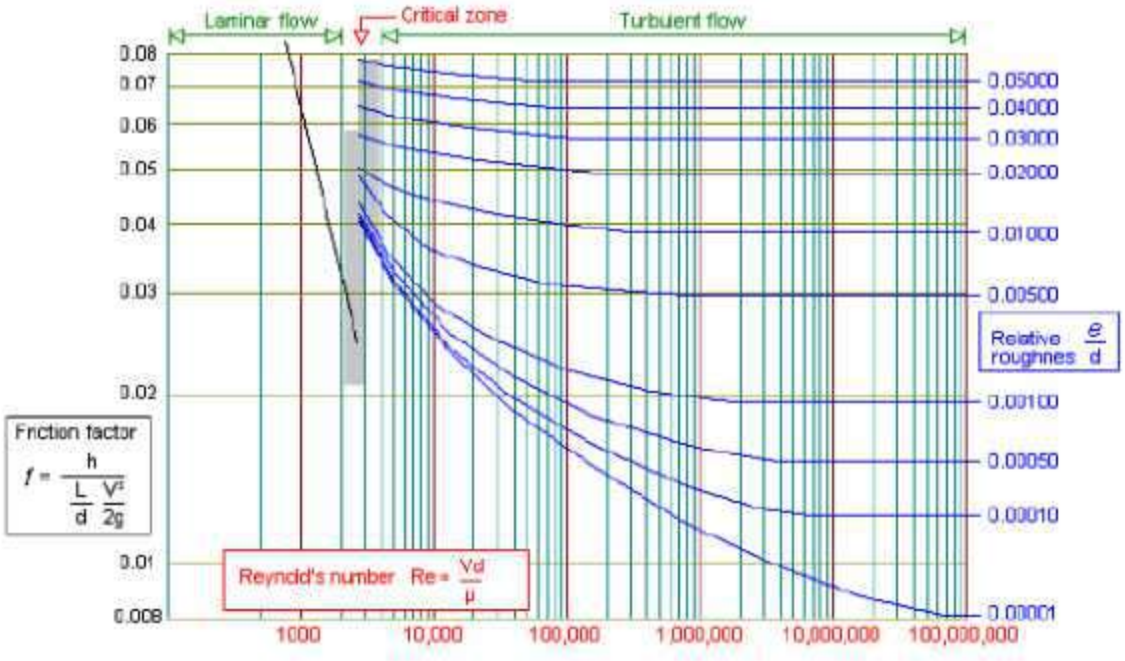
Volume flow rate 'Q' (m^3/s, ft^3/s),

Length 'L' (m, ft),

Velocity 'v' (m/s, ft/s),

Gravitational constant 'g' is in (m/s^2, ft/s^2), and

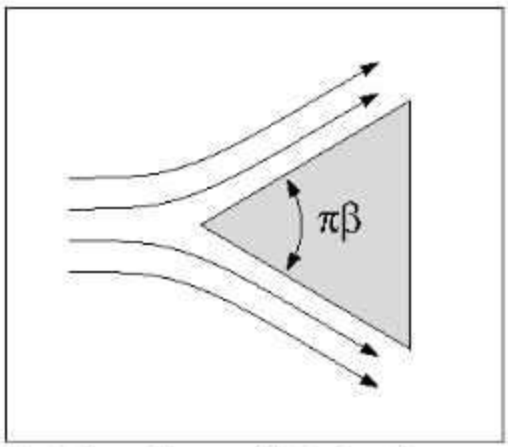
Head loss 'h_f', (m, ft).



Moody friction factor chart: Friction factor vs Reynolds number

Falkner–Skan boundary layer

In fluid dynamics, the Falkner–Skan boundary layer describes the steady two-dimensional laminar boundary layer that forms on a wedge, i.e. flows in which the plate is not parallel to the flow. It is a generalization of the Blasius boundary layer.



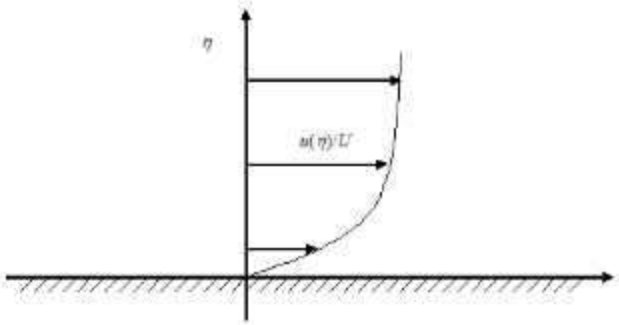
The displacement thickness for the Falkner-Skan profile is given by

$$\delta = \left(\frac{2}{m+1}\right)^{1/2}\left(\frac{\nu x}{U}\right)^{1/2}\int_0^\infty (1-f')d\eta$$

and the shear stress acting at the wedge is given by

$$\tau_w = \mu\left(\frac{m+1}{2}\right)^{1/2}\left(\frac{U^3}{\nu x}\right)^{1/2} f''(0)$$

Here, $m < 0$ corresponds to an adverse pressure gradient (often resulting in boundary layer separation) while $m > 0$ represents a favorable pressure gradient. (Note that $m = 0$ recovers the Blasius equation). In 1937 Douglas Hartree showed that physical solutions to the Falkner–Skan equation exist only in the range. For more negative values of m, that is, for stronger adverse pressure gradients, all solutions satisfying the boundary conditions at $\eta = 0$ have the property that $f(\eta) > 1$ for a range of values of η. This is physically unacceptable because it implies that the velocity in the boundary layer is greater than in the main flow.



SARANATHAN COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

DEPARTMENT OF CIVIL ENGINEERING

Assignment – 01			Date of Issue:	22.09.2022	Marks	40
Course code	CE3301	Course Title	Fluid Mechanics			
Year	II	Semester/Section	III / A	Date of Submission:	27.09.2022	

Q.No	Questions	CO
1	IA TEST - I Question Paper	C203.1,2

Name and Signature of the Faculty- Incharge

HoD/Civil

SARANATHAN COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

DEPARTMENT OF CIVIL ENGINEERING

Assignment – 02			Date of Issue:	19.10.2022	Marks	40
Course code	CE3301	Course Title	Fluid Mechanics			
Year	II	Semester/Section	III / A	Date of Submission:	26.10.2022	

Q.No	Questions	CO
1	IA TEST - II Question Paper	C203.3,4

Name and Signature of the Faculty- Incharge

HoD/Civil

Name : S. KANNAN

Designation : ASSISTANT PROFESSOR

Department : CIVIL ENGINEERING

Academic Year : 2022-2023

Semester / Year : V - SEM / III - YEAR

Details of Courses assigned to teach :

1. Programme : B.E.

2. Discipline : CIVIL ENGINEERING

3. Section : 'A'

4. Course Code : CE 8591

5. Course Title : FOUNDATION ENGINEERING

COURSE SCHEDULE

Day Order	1 9.15 10.05	2 10.05 10.55	10.55 11.05	3 11.05 11.55	4 11.55 12.45	12.45 1.25	5 1.25 2.15	6 2.15 3.05	3.05 3.15	7 3.15 4.00	8 4.00 4.45
I			BREAK		CE8591	LUNCH BREAK			BREAK		
II	CE8591										
III							CE8591				
IV								CE8591			
V	CE8591										

VISION

The program has been started with the noble vision of producing innovative engineers with social consciousness, who can richly contribute towards creating a more ecologically friendly environment.

Mission of the Department

MISSION

- To provide essential knowledge & skill to the students and enhance their employability potential and entrepreneurial capabilities.
- Produce graduates of high professional and ethical standards.
- Carry out high quality construction projects which are beneficial to the society.

Program Educational Objectives (PEOs)

- To prepare students for successful careers in Civil Engineering field that meets the needs of Indian and multinational companies.
- To develop the confidence and ability among students to synthesize data and technical concepts and thereby apply it in real world problems.
- To provide students with a sound foundation in mathematical, scientific and engineering fundamentals necessary to formulate, solve and analyze engineering problems and to prepare them for graduate studies.
- To promote students to work collaboratively on multi-disciplinary projects and make them engage in life-long learning process throughout their professional life.

Program Specific Outcomes (PSOs)

- To accomplish an elevated level of technical expertise to shine in higher education / profession by attaining knowledge in basic sciences, design and drawing and engineering principles.
- To explore and relate the modern engineering tools for planning, design, execution and maintenance of works that is technically feasible, economically and socially acceptable.
- To enhance good communication skills, team work in their responsibilities with excellence and to be prepared to take up challenges in the present scenario.

Course Outcomes (COs)

At the end of this course, Students will be able to

CO-Code	Course outcome Description
C304.1	Understand the site investigation, methods and sampling
C304.2	Get knowledge on bearing capacity and testing methods
C304.3	Design shallow footings
C304.4	Determine the load carrying capacity, settlement of pile foundation
C304.5	Determine the earth pressure on retaining walls
C304.6	Analyze the stability of retaining walls

COs	Programme Outcomes												PSOs			
	1	2	3	4	5	6	7	8	9	10	11	12	I	II	III	IV
C304.1	2	2	2	2	2	1	2	2	1	-	-	1	1	1	-	-
C304.2	3	3	3	2	2	1	2	2	1	-	-	1	1	1	-	-
C304.3	3	3	3	3	2	1	2	2	1	-	-	1	1	1	-	-
C304.4	3	3	3	3	2	1	2	2	1	-	-	1	1	1	-	-
C304.5	2	2	2	3	2	1	2	2	1	-	-	1	1	1	-	
C304.6	3	3	2	3	2	1	2	2	1	-	-	1	1	1		

SYLLABUS

OBJECTIVES:

To impart knowledge to plan and execute a detail site investigation programme, to select geotechnical design parameters and type of foundations. Also to familiarize the students for the geotechnical design of different type of foundations and retaining walls.

UNIT I SITE INVESTIGATION AND SELECTION OF FOUNDATION 9

Scope and objectives – Methods of exploration – Auguring and boring – Wash boring and rotary drilling – Depth and spacing of bore holes – Soil samples – Representative and undisturbed – Sampling methods – Split spoon sampler, Thin wall sampler, Stationary piston sampler – Penetration tests (SPT and SCPT) – Data interpretation - Strength parameters - Bore log report and Selection of foundation

UNIT II SHALLOW FOUNDATION 9

Location and depth of foundation – Codal provisions – Bearing capacity of shallow foundation on homogeneous deposits – Terzaghi's formula and BIS formula – Factors affecting bearing capacity – Bearing capacity from in-situ tests (SPT, SCPT and plate load) – Allowable bearing pressure – Seismic considerations in bearing capacity evaluation. Determination of Settlement of foundations on granular and clay deposits – Total and differential settlement – Allowable settlements – Codal provision – Methods of minimizing total and differential settlements.

UNIT III FOOTINGS AND RAFTS 9

Types of Isolated footing, Combined footing, Mat foundation – Contact pressure and settlement distribution – Proportioning of foundations for conventional rigid behaviour – Minimum thickness for rigid behaviour – Applications – Compensated foundation – Codal provision

UNIT IV PILE FOUNDATION 9

Types of piles and their functions – Factors influencing the selection of pile – Carrying capacity of single pile in granular and cohesive soil – Static formula – Dynamic formulae (Engineering news and Hileys) – Capacity from insitu tests (SPT and SCPT) – Negative skin friction – Uplift capacity-Group capacity by different methods (Feld's rule, Converse – Labarra formula and block failure criterion) – Settlement of pile groups – Interpretation of pile load test (routine test only). Under reamed piles – Capacity under compression and uplift – Cohesive – expansive – non expansive – Cohesionless soils – Codal provisions.

UNIT V RETAINING WALLS 9

Plastic equilibrium in soils – Active and passive states – Rankine's theory – Cohesionless and cohesive soil – Coulomb's wedge theory – Condition for critical failure plane – Earth pressure on retaining walls of simple configurations – Culmann's Graphical method – Pressure on the wall due to line load – Stability analysis of retaining walls – Codal provisions.

TOTAL: 45 PERIODS

OUTCOMES:

Students will be able to

- Understand the site investigation, methods and sampling.
- Get knowledge on bearing capacity and testing methods.
- Design shallow footings.
- Determine the load carrying capacity, settlement of pile foundation.
- Determine the earth pressure on retaining walls and analysis for stability.

TEXTBOOKS:

1. Murthy, V.N.S., "Text book of Soil Mechanics and Foundation Engineering", CBS Publishers Distribution Ltd., New Delhi, 2014.

2. Arora, K.R., "Soil Mechanics and Foundation Engineering", Standard Publishers and Distributors, New Delhi, 7th Edition, 2017 (Reprint).

3. Punmia, B.C., "Soil Mechanics and Foundations", Laxmi Publications Pvt. Ltd. New Delhi, 16th Edition 2017.

REFERENCES:

1. Braja M Das, "Principles of Foundation Engineering" (Eigth edition), Cengage Learning 2014.

2. Kaniraj, S.R. "Design aids in Soil Mechanics and Foundation Engineering", Tata McGraw Hill publishing company Ltd., New Delhi, 2014.

3. Joseph E bowles, "Foundation Analysis and design", McGraw Hill Education, 5th Edition, 28th August 2015.

4. IS Code 6403 : 1981 (Reaffirmed 1997) "Bearing capacity of shallow foundation", Bureau of Indian Standards, New Delhi.

LESSON PLAN

UNIT I **SITE INVESTIGATION AND SELECTION OF FOUNDATION**

Session No.	Topics to be covered	Time (Min)	Ref.	Teaching Method
1	Scope and objectives of site investigation	50	T1,T3	BB
2	Methods of exploration – Auguring and boring , Wash boring	50	T1,T3	BB
3	Rotary drilling, Percussion Drilling, Core drilling.	50	T1,T3	BB
4	Depth and spacing of bore holes – Soil samples – Representative and undisturbed	50	T1,T3	BB
5	Sampling methods – Split spoon sampler, Thin wall sampler,	50	T1,T3	BB
6	Stationary piston sampler, Hand carved sampler	50	T1,T3	BB
7	Penetration tests (SPT and SCPT)	50	T1,T3	BB
8	Data interpretation - Strength parameters	50	T1,T3	BB
9	Bore log report and Selection of foundation.	50	T1,T3	BB
	Unit Total	9 Periods		

UNIT II **SHALLOW FOUNDATION**

Session No.	Topics to be covered	Time (Min)	Ref.	Teaching Method
10	Location and depth of foundation	50	T1,T3	BB
11	Codal provisions – Bearing capacity of shallow foundation on homogeneous deposits	50	T1,T3	BB
12	Terzaghi's formula - Bearing capacity of shallow foundation	50	T1,T3	BB
13	BIS formula – Bearing capacity of shallow foundation	50	T1,T3	BB
14	Factors affecting bearing capacity, Bearing capacity from in-situ tests – SPT, SCPT	50	T1,T3	BB
15	Bearing capacity from in-situ tests - plate load	50	T1,T3	BB
16	Allowable bearing pressure – Seismic considerations in bearing capacity evaluation.	50	T1,T3	BB
17	Determination of Settlement of foundations on granular and clay deposits – Total and differential settlement	50	T1,T3	BB
18	Allowable settlements – Codal provision – Methods of minimizing total and differential settlements.	50	T1,T3	BB
	Unit Total	9 Periods		

LESSON PLAN

UNIT III **FOOTINGS AND RAFTS**

Session No.	Topics to be covered	Time (Min)	Ref	Teaching Method
19	Types of Isolated footings	50	T2,T3	BB
20	Rectangular Combined footing - Design	50	T2,T3	BB
21	Trapezoidal Combined footing - Design	50	T2,T3	BB
22	Strap footing - Design	50	T1,T3	BB
23	Mat foundation - Design	50	T1,T3	BB
24	Contact pressure and settlement distribution	50	T1,T3	BB
25	Proportioning of foundations for conventional rigid behavior	50	T1,T3	BB
26	Minimum thickness for rigid behaviour and Applications	50	T2,T3	BB
27	Compensated foundation - Codal provision	50	T2,T3	BB
	Unit Total		9 Periods	

UNIT IV **PILE FOUNDATION**

Session No.	Topics to be covered	Time (Min)	Ref	Teaching Method
28	Types of piles and their functions - Factors influencing the selection of pile	50	T2,T3	BB
29	Carrying capacity of single pile in granular and cohesive soil	50	T2,T3	BB
30	Static formula - Dynamic formulae (Engineering news and Hileys)	50	T2,T3	BB
31	Capacity from insitu tests (SPT and SCPT) - Negative skin friction	50	T1,T3	BB
32	Uplift capacity - Group capacity by different methods (Feld's rule, Converse - Labarra formula)	50	T1,T3	BB
33	Group capacity by different methods (Block failure criterion) Settlement of pile groups	50	T1,T3	BB
34	Interpretation of pile load test (routine test only)	50	T1,T3	BB
35	Under reamed piles - Capacity under compression and uplift - Cohesive	50	T2,T3	BB
36	Expansive - non expansive - Cohesionless soils - Codal provisions	50	T2,T3	BB
	Unit Total		9 Periods	

LESSON PLAN

UNIT V RETAINING WALLS

Session No.	Topics to be covered	Time (Min)	Ref.	Teaching Method
37	Plastic equilibrium in soils – Active and passive states	50	T1,T3	BB
38	Rankine's theory – Cohesionless	50	T1,T3	BB
39	Rankine's theory - cohesive soil	50	T1,T3	BB
40	Coulomb's wedge theory	50	T1,T3	BB
41	Condition for critical failure plane	50	T1,T3	BB
42	Earth pressure on retaining walls of simple configurations	50	T2,T3	BB
43	Culmann's Graphical method	50	T2,T3	BB
44	Pressure on the wall due to line load	50	T1,T3	BB
45	Stability analysis of retaining walls – Codal provisions.	50	T1,T3	BB
	Unit Total	9 Periods		

Note: T1 refers to Text book 1, T2 refers to Text book 2, T3 refers to Text book 3 suggested in Page 1 of Lesson Plan. BB refers to teaching with Black Board.

COURSE DELIVERY PLAN:

Week	1	2	3	4	5	6	7	8	9	10	11	12
Units		I			II		III	IV			V	

	Prepared by	Approved by
Signature		
Name	Mr. S. KANNAN	Dr. A. BELIN JUDE
Designation	Asst. Professor	Asst. Professor and Head
Date	17-08-2022	17-08-2022

Name : S KANNAN

Designation : ASSISTANT PROFESSOR

Department : CIVIL ENGINEERING

Academic Year : 2022-2023

Semester / Year : IV SEM / II YEAR

Details of Courses assigned to teach :

1. Programme : B.E.
2. Discipline : CIVIL ENGINEERING
3. Section : A
4. Course Code : CE 3402
5. Course Title : STRENGTH OF MATERIALS

COURSE SCHEDULE

Day Order	1 9.15 10.05	2 10.05 10.55	10.55 11.05	3 11.05 11.55	4 11.55 12.45	12.45 1.25	5 1.25 2.15	6 2.15 3.05	3.05 3.15	7 3.15 4.00	8 4.00 4.45
I			BREAK			LUNCH BREAK	SOM		BREAK		
II					SOM					SOM	
III		SOM								SOM	
IV				SOM							
V											

(1)

Vision of the Department

VISION

The Programme has been started with the noble vision of producing innovative Engineers with social consciousness, who can richly contribute towards creating a more ecological environment and enrich them in technological advancements.

Mission of the Department

- To provide essential knowledge and skill to the students and enhance their employability potential and entrepreneurial capabilities.
- To produce graduates of highly Professional and Ethical standards.
- To produce knowledge base and consultancy services to the community in all areas of Civil Engineering.
- To promote innovative and original thinking in the minds of budding Engineers to face the challenges of future.

Program Educational Objectives (PEOs)

- To prepare the students for successful careers in Civil Engineering field that meets the standards of Indian and Multinational Companies.
- To develop confidence and ability among students to synthesize data and technical concepts to apply it in real world problems.
- To provide students with a sound foundation in Mathematical, Scientific, and Engineering fundamentals necessary to formulate solve and analyse engineering problems and strengthen foundations for graduate studies.
- To promote students to work collaboratively on Multi-Disciplinary projects and make them engage in life-long learning process throughout their professional life.

Program Specific Outcomes (PSOs)

- To accomplish an elevated level of Technical Expertise to shine in Higher Education / Profession by attaining knowledge in Basic Sciences, Design and Drawing and Engineering Principles.
- To explore and relate Modern Engineering Tools for Planning, Design, Execution and Maintenance of works that is Technically feasible, economically and socially acceptable.
- To enhance Good Communication Skills, Team work in their responsibilities with excellence and to be prepared to face challenges in all occasions.

Course Outcomes (COs)

C211.1	Understand the concepts of stress and strain, principal stresses and principal planes.
C211.2	Determine Shear force and bending moment in beams and understand concept of theory of simple bending.
C211.3	Calculate the deflection of beams by different methods and selection of method for determining slope or deflection.
C211.4	Analyze propped cantilever, fixed beams and continuous beams for external loadings and support settlements.
C211.5	Determine the stresses due to Unsymmetrical bending of beams, locate the shear center
C211.6	study the various theories of failure

CO-Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C211.1	3	3	2	1	-	2	1	1	-	-	1	3	3	2	1
C211.2	3	3	2	1	-	2	1	1	-	-	1	3	3	2	1
C211.3	3	3	2	1	-	2	1	1	-	-	1	3	3	2	1
C211.4	3	3	2	1	-	2	1	1	-	-	1	3	3	2	1
C211.5	3	3	2	1	-	2	1	1	-	-	1	3	3	2	1
C211.6	3	3	2	1	-	2	1	1	-	-	1	3	3	2	1

SYLLABUS

CE3402 STRENGTH OF MATERIALS L T P C
3 0 0 3

OBJECTIVES:

- To learn the fundamental concepts of Stress in simple and complex states and to know the mechanism of load transfer in beams and the induced stresses due to simple bending and unsymmetrical bending and to determine the deformation in determinate beams and to know the basic concepts of analysis of indeterminate beams

UNIT I SIMPLE AND COMPOUND STRESSES 9

Stresses in simple and compound bars – Thermal stresses – Elastic constants - Thin cylindrical and spherical shells – Biaxial state of stress – Principal stresses and principal planes – Mohr's circle of stresses - Torsion on circular shafts

UNIT II BENDING OF BEAMS 9

Types of beams and transverse loadings– Shear force and bending moment for simply supported, cantilever and over-hanging beams - Theory of simple bending – Bending stress distribution – Shear stress distribution

UNIT III DEFLECTION OF BEAMS 9

Double Integration method – Macaulay's method – Area moment method – Conjugate beam method - Strain energy method for determinate beams

UNIT IV INDETERMINATE BEAMS 9

Propped Cantilever and Fixed Beams – Fixed end moments reactions, slope and deflection for standard cases of loading — Continuous beams – support reactions and moments – Theorem of three moments – Shear Force and Bending Moment Diagrams

UNIT V ADVANCED TOPICS 9

Unsymmetrical bending of beams - shear centerapplied - Thick cylinders - Theories of failure – Principal stress, principal strain, shear stress, strain energy and distortion energy theories – application problems

TOTAL: 45 PERIODS

OUTCOMES:

Students will be able to

CO1 Understand the concepts of stress and strain, principal stresses and principal planes

CO2 Determine Shear force and bending moment in beams and understand concept of theory of simple bending.

CO3 Calculate the deflection of beams by different methods and selection of method for determining slope or deflection.

CO4 Analyze propped cantilever, fixed beams and continuous beams for external loadings and support settlements.

CO5 Determine the stresses due to Unsymmetrical bending of beams, locate the shear center, and study the various theories of failure

TEXTBOOKS

1. Rajput R.K, "Strength of Materials (Mechanics of Solids)", S.Chand & company Ltd., New Delhi, 2018.
2. Rattan S.S., "Strength of Materials", Tata McGraw Hill Education Pvt. Ltd., New Delhi, 2017.
3. Punmia B.C., Ashok Kumar Jain and Arun Kumar Jain,"Theory of Structures" (SMTS) Vol -II, Laxmi Publishing Pvt Ltd, New Delhi 2017.
4. Basavarajiah and Mahadevapa, Strength of Materials, University press, Hyderabad, 2016
5. Vazirani.V.N, Ratwani M.M, Duggal S.K Analysis of Structures: Analysis, Design and Detailing of Structures-Vol.1, Khanna Publishers, New Delhi 2014.

1. UNIT I SIMPLE AND COMPOUND STRESSES

Session No.	Topics to be covered	Time (Min)	Ref.	Teaching Method
1	Stresses in simple and compound bars	50	T1,T3	BB
2	Thermal stresses	50	T1,T3	BB
3	Elastic constants	50	T1,T3	BB
4	Thin cylindrical shells	50	T1,T3	BB
5	spherical shells	50	T1,T3	BB
6	Biaxial state of stress	50	T1,T3	BB
7	Principal stresses and principal planes	50	T1,T3	BB
8	Mohr's circle of stresses	50	T1,T3	BB
9	Torsion on circular shafts.	50	T1,T3	BB
	Unit Total	9 Periods		

UNIT II BENDING OF BEAMS

Session No.	Topics to be covered	Time (Min)	Ref.	Teaching Method
10,11	Types of beams and transverse loadings	50	T1,T3	BB
12	Shear force and bending moment for simply supported beam	50	T1,T3	BB
13	Shear force and bending moment for cantilever beam	50	T1,T3	BB
14,15	Shear force and bending moment for over-hanging beams	50	T1,T3	BB
16	Theory of simple bending	50	T1,T3	BB
17	Bending stress distribution	50	T1,T3	BB
18	Shear stress distribution.	50	T1,T3	BB
	Unit Total	9 Periods		

LESSON PLAN

UNIT III	DEFLECTION OF BEAMS			
Session No	Topics to be covered	Time (Min)	Ref.	Teaching Method
19,20	Double Integration method	50	T2,T3	BB
21,22	Macaulay's method	50	T2,T3	BB
23,24	Area moment method	50	T1,T3	BB
25,26	Conjugate beam method	50	T1,T3	BB
27	Strain energy method for determinate beams	50	T2,T3	BB
	Unit Total	9 Periods		

UNIT IV	INDETERMINATE BEAMS			
Session No.	Topics to be covered	Time (Min)	Ref.	Teaching Method
28,29	Propped Cantilever - Fixed end moments reactions, slope and deflection for standard cases of loading	50	T2,T3	BB
30,31	Fixed Beams -Fixed end moments reactions, slope and deflection for standard cases of loading	50	T2,T3	BB
32,33	Continuous beams – support reactions and moments	50	T1,T3	BB
34,35	Theorem of three moments –	50	T1,T3	BB
36	Shear Force and Bending Moment Diagrams	50	T1,T3	BB
	Unit Total	9 Periods		

LESSON PLAN

UNIT V ADVANCED TOPICS

Session No.	Topics to be covered	Time (Min)	Ref.	Teaching Method
37	Unsymmetrical bending of beams – application problems.	50	T1,T3	BB
38	shear centerapplied – application problems.	50	T1,T3	BB
39	Thick cylinders – application problems.	50	T1,T3	BB
40	Theories of failure – application problems.	50	T1,T3	BB
41	Principal stress – application problems.	50	T1,T3	BB
42	principal strain – application problems.	50	T2,T3	BB
43	shear stress – application problems.	50	T2,T3	BB
44	strain energy – application problems.	50	T1,T3	BB
45	distortion energy theories – application problems.	50	T1,T3	BB
	Unit Total	9 Periods		

Note: T1 refers to Text book 1, T2 refers to Text book 2, T3 refers to Text book 3 suggested in Page 1 of Lesson Plan. BB refers to teaching with Black Board.

COURSE DELIVERY PLAN:

Week	1	2	3	4	5	6	7	8	9	10	11	12
Units		I			II		III	IV			V	

	Prepared by	Approved by
Signature		
Name	Mr. S. KANNAN	Dr. A. BELIN JUDE
Designation	Asst. Professor	Asst. Prof. and Head
Date	31-01-2023	31-01-2023

SARANATHAN COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

DEPARTMENT OF CIVIL ENGINEERING

Assignment – 01			Date of Issue:	22.09.2022	Marks	40
Course code	CE3301	Course Title	Fluid Mechanics			
Year	II	Semester/Section	III / A	Date of Submission:	27.09.2022	

Q.No	Questions	CO
1	IA TEST - I Question Paper	C203.1,2

Name and Signature of the Faculty- Incharge **HoD/Civil**

SARANATHAN COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

DEPARTMENT OF CIVIL ENGINEERING

Assignment – 02			Date of Issue:	19.10.2022	Marks	40
Course code	CE3301	Course Title	Fluid Mechanics			
Year	II	Semester/Section	III / A	Date of Submission:	26.10.2022	

Q.No	Questions	CO
1	IA TEST - II Question Paper	C203.3,4

Name and Signature of the Faculty- Incharge **HoD/Civil**

Saranathan College of Engineering

Tiruchirappalli - 620012

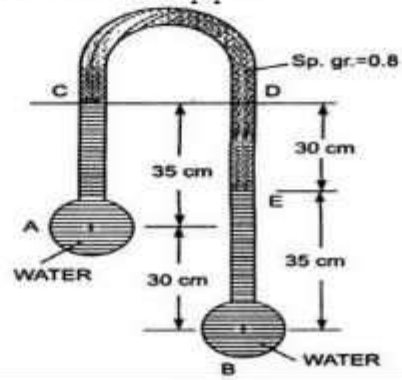
Assignment 1 Questions

Part – A

I. Answer all the Questions

Q. No.	Questions
1	Define Mass density and specific weight.
2	Define Viscosity, its types and respective formula.
3	Calculate the specific weight, density and specific gravity of 1 litre of liquid which weighs 7 N.
4	Define Capillarity.
5	The Capillary rise in the glass tube is not to exceed 0.2 mm of water. Determine its minimum size, given that surface tension of water in contact with air = 0.0725 N/m.
6	What do you understand by Continuity Equation?
7	Write the equations of motion.
8	Write down the formulae for finding the discharge in Venturimeter.
9	Write Bernoulli's equation.
10	List out various applications of Bernoulli's equation.

Part – B

Q. No.	Questions
11	The dynamic viscosity of oil, used for lubrication between a shaft and sleeve is 6 poise. The shaft is of diameter 0.4 m and rotates at 190 rpm. Calculate the power lost in the bearing for a sleeve length of 90 mm. The thickness of the oil film is 1.5 mm.
12	A differential manometer is connected at two points A and B of two pipes. The pipe A contains a liquid of specific gravity 1.5 while pipe B contains a liquid of specific gravity 0.9. The pressure at A and B are 9.81 N/m^2 and 17.658 N/m^2 respectively. The height difference between right limb and left limb is 3 m from top in which left limb is in higher elevation. The distance between the centre of pipe B and starting level of mercury is 2 m. The pressure maintained is vaccum pressure. Find the difference in mercury level.
13	A 30 cm diameter pipe, conveying water, branches into two pipes of diameters 20 cm and15 cm respectively. If the average velocity in the 30 cm pipe is 2.5 m/s, find the discharge in this pipe. Also determine the velocity in 15 cm pipe if the average velocity in 20 cm diameter pipe is 2 m/s.
14	A pipe line carrying liquid of specific gravity 0.92, changes in diameter from 200mm to 500mm. The larger end is 4m above the datum. If pressures at both sections are 9.81 N/cm^2 and 5.886 N/cm^2 respectively, determine the head loss. The rate of flow is 3.33×10^{-3} m^3/s.
15	The space between two square flat parallel plates is filled with oil. Each side of the plate is 60 cm. The thickness of the oil film is 12.5 mm. The upper plate which moves at 2.5 m/s requires a force of 98.1 N to maintain the speed. Determine i) Dynamic Viscosity ii) Kinematic viscosity of oil if specific gravity of oil is 0.95.
16	An inverted U tube manometer is connected to two horizontal pipes A and B. The vertical distance between the axis of these pipes is 30 cm. When an oil of specific gravity 0.8 is used as a gauge liquid, determine the pressure difference between the pipes. 

Saranathan College of Engineering

Tiruchirapalli

Assignment 2

Part – A

Q. No.	Questions
1	Enlist the assumptions made in the derivation of Bernoulli's equation.
2	Write the moment of momentum equation and its applications.
3	Write the impulse momentum equation.
4	Write down the formulae for finding the discharge in Venturimeter.
5	What are the applications of Bernoulli's equation?
6	What do you mean by dimesnsional analysis?
7	What are fundamental dimensions?
8	Derive the dimensions of velocity.
9	What do you mean by dimensional similarity?
10	Jot down the types of dimensionless numbers.

Part – B

Q. No.	Questions
11	A pipe line carrying liquid of specific gravity 0.92, changes in diameter from 200mm to 500mm. The larger end is 4m above the datum. If pressures at both sections are 9.81 N/cm^2 and 5.886 N/cm^2 respectively, determine the head loss. The rate of flow is 3.33×10^{-3} m^3/s.
12	The water is flowing through a pipe having diameters 20 cm and 10 cm at Sections 1 and 2 respectively. The rate of flow through pipe is 35 litres/sec. The Section 1 is 6 m above datum and Section 2 is 4 m above the datum. If the pressure at Section 1 is 39.24 N/cm^2, find the intensity of pressure at Section 2.
13	A horizontal venturimeter with inlet diameter 20 cm and throat diameter 10 cm is used to measure the flow of oil of specific gravity 0.8.The discharge of oil through venturimter is 60 litres/s. Find the reading of oil-mercury differential manometer. Take $C_d = 0.98$.
14	Find an expression for the drag force on smooth sphere of diameter D, moving with a uniform velocity V in a fluid of density ρ and dynamic viscosity μ.
15	The efficiency η of a fan depends on the density ρ, the dynamic viscosity μ, of the fluid, the angular velocity ω, diameter D of the rotor and the discharge Q. Express η in terms of dimensionless parameters. Use Rayleigh's Method.
16	Derive on the basis of dimensional analysis suitable parameters to present the thrust developed by a propeller. Assume that thrust force P depends upon the angular velocity ω, speed of advance V, diameter D, dynamic viscosity μ, mass density ρ, elasticity of the fluid medium which can be denoted by the velocity of sound in the medium C.

Subject Code: CE8601
Subject Name: Design of Steel Structural Elements
Tutorial Hour Details : 5th Day Order 2nd Hour

Sl.No.	Date	Content Teaching
1	13.02.2023	Design of Tension Members (Working Stress Method) - Problems
		1. Calculate the design tensile strength of a platein rupture, if it is connected to a gusset plate by welding. The plate size is 300mm x 10mm. Take fu = 410 N/ mm^2, fy = 250 N/ mm^2. 2. Design a hot rolled section beam of span 4.9m, 6m and 4.9m carrying a UDL of 32.5 kN/m and the beam is laterally supported.
2	21.02.2023	Determine the load carrying capacity of Beams - Working Stress Method
		Determine the loadf carrying capacity of a 3.5m high stanchion consisting of an ISHB 300@58.5kg/m section of grade Fe410. the section effectively held in position and restrained against rotation at both ends.
3	06.03.2023	Design of Bolted Joints - Problem
		Design a Lap Joint between 2 Plates each of width 120mm, if the thickness of one plate is 16mm and the other 12mm. The joint to transfer a design load of 160kN. The Plates are Fe410 grade. Use bearing Bolts for connections.
4	20.03.2023	Design of Welded Tension members - Problem (Limit state Method)
		A tie Member constist of 2Nos of ISMC 250 channels. The channels are connected on either side of 12mm thick gusset plate. Design the welded joint to develop the full strength of the tie. The overlap is limited to 400mm.
5	29.03.2023	Design of Built up section - Problem
		Design a single angle section for a tension member of a truss member to carry a factored load of 225 kN. The member is subjected to the possible reversal of stress due to the action of wind. The length of the member is 3m. Use 20mm shop bolt of grade 4.6 for the connection.
6	01.04.2023	Pesign of Compression Members - Problem
		Design a column to support a factored load of 1050kN. The column has a effective length of 7m with respect to Z axis and 5m with respect to the Y axis. Use steel grade Fe410.
7	05.04.2023	Design of Built up Column Section - Problem
		A Column 4m long has to support a factored load 6000kN. The column is effectively held at both ends and restrained against in direction at one of the ends. Design the column using Beam section and plates.
8	08.05.2023	Laterally Supported beams - Problem
		A simply supported beam of 5m span carries a UDL of 40kN/m. Inaddition with the beam carries a central point load of 50kN. The beam is laterally supported. Design the section and check the section for shear and deflection.

Faculty Incharge

HoD / Civil

CE8611 HIGHWAY ENGINEERING LABORATORY **L T P C**
0 0 4 2

OBJECTIVE :

- To learn the principles and procedures of testing of highway materials

EXCERCISES :

I TEST ON AGGREGATES

a) Specific Gravity
b) Los Angeles Abrasion Test
c) Water Absorption of Aggregates

II TEST ON BITUMEN

a) Specific Gravity of Bitumen
b) Penetration Test
c) Viscosity Test
d) Softening Point Test
e) Ductility Test

III TESTS ON BITUMINOUS MIXES

a) Stripping Test
b) Determination of Binder Content
c) Marshall Stability and Flow Values

IV DEMONSTRATION OF ANY ONE FIELD TESTING EQUIPMENT LIKE SKID RESISTANCE TESTER/ BENKELMAN BEAM ETC

OUTCOME: **TOTAL: 60 PERIODS**

- Student knows the techniques to characterize various pavement materials through relevant tests.

REFERENCES:

1. Highway Materials and Pavement Testing, Nem Chand and Bros., Roorkee, Revised Fifth Edition, 2009
2. Methods for testing tar and bituminous materials, IS 1201–1978 to IS 1220– 1978, Bureau of Indian Standards
3. Methods of test for aggregates, IS 2386 – 1978, Bureau of Indian Standards
4. Mix Design Methods Asphalt Institute Manual Series No. 2, Sixth Edition,1997, Lexington, KY, USA.

Vision of the Department

The program has been started with the noble vision of producing innovative engineers with social consciousness, who can richly contribute towards creating a more ecological' friendly environment.

Mission of the Department

- To provide essential knowledge & skill to the students and enhance their employability potential and entrepreneurial capabilities.
- Produce graduates of high professional and ethical standards.
- Carry out high quality construction projects which are beneficial to the society.

PROGRAMME EDUCATIONAL OBJECTIVES (PEOs) :

- To prepare students for successful careers in Civil Engineering field that meets the needs of Indian and multinational companies.
- To develop the confidence and ability among students to synthesize data and technical concepts and thereby apply it in real world problems.
- To provide students with a sound foundation in mathematical, scientific and engineering fundamentals necessary to formulate, solve and analyze engineering problems and to prepare them for graduate studies.
- To promote students to work collaboratively on multi-disciplinary projects and make them engage in life-long learning process throughout their professional life.

PROGRAMME SPECIFIC OUTCOME (PSO)

- To accomplish an elevated level of technical expertise to shine in higher education / profession by attaining knowledge in basic sciences, design and drawing and engineering principles.
- To explore and relate the modern engineering tools for planning, design, execution and maintenance of works that is technically feasible, economically and socially acceptable.
- To enhance good communication skills, team work in their responsibilities with excellence and to be prepared to take up challenges in the present scenario.

Course Outcomes (COs)

At the end of this course, Student will be able to

CO-Code	Course outcome Description
C316.1	Students will be able to knows the techniques to characterize various pavement materials through aggregate test
C316.2	Students will be able to knows the techniques to characterize various pavement materials through bitumen test
C316.3	Students will be able to knows the techniques to characterize various pavement materials through bituminous mixes test
C316.4	Students will be able to knows the techniques to characterize various pavement materials through skid resistance test
C316.5	Students will be able to knows the techniques to characterize various pavement materials through benkelman beam test
C316.6	Students will be able to knows the techniques to characterize various pavement materials through relavant test

COs	Programme Outcomes												PSOs			
	1	2	3	4	5	6	7	8	9	10	11	12	I	II	III	IV
C316.1	1	3	2	-	2	1	1	2	1	1	1	2	3	2	2	
C316.2	1	3	2	-	2	1	1	2	1	1	1	2	3	1	2	
C316.3	1	3	2	-	2	1	1	2	1	1	1	2	3	2	1	
C316.4	1	3	2	-	2	1	1	1	1	1	1	2	1	1	1	
C316.5	1	3	2	-	2	1	1	2	1	1	1	2	1	2	2	
C316.6	1	3	2	-	2	1	1	2	1	1	1	2	1	1	1	

Program Educational Objectives (PEOs)

- To prepare the students for successful careers in Civil Engineering field that meets the standards of Indian and Multinational Companies.
- To develop confidence and ability among students to synthesize data and technical concepts to apply it in real world problems.
- To provide students with a sound foundation in Mathematical, Scientific, and Engineering fundamentals necessary to formulate solve and analyse engineering problems and strengthen foundations for graduate studies.
- To promote students to work collaboratively on Multi-Disciplinary projects and make them engage in life-long learning process throughout their professional life.

Program Specific Outcomes (PSOs)

- To accomplish an elevated level of Technical Expertise to shine in Higher Education / Profession by attaining knowledge in Basic Sciences, Design and Drawing and Engineering Principles.
- To explore and relate Modern Engineering Tools for Planning, Design, Execution and Maintenance of works that is Technically feasible, economically and socially acceptable.
- To enhance Good Communication Skills, Team work in their responsibilities with excellence and to be prepared to face challenges in all occasions.

Course Outcomes (COs)

NBA Code for the Subject C316 Target 75 Credits:2

- At the end of this course, Student will be able to

CO	Course outcome Description
C316.1	Students will be able to knows the techniques to characterize various pavement materials through aggregate test
C316.2	Students will be able to knows the techniques to characterize various pavement materials through bitumen test
C316.3	Students will be able to knows the techniques to characterize various pavement materials through bituminous mixes
C316.4	Students will be able to knows the techniques to characterize various pavement materials through skid resistance test
C316.5	Students will be able to knows the techniques to characterize various pavement materials through benkelman beam test
C316.6	Students will be able to knows the techniques to characterize various pavement materials through relavant test

COs	Programme Outcomes												PSOs			
	1	2	3	4	5	6	7	8	9	10	11	12	I	II	III	IV
C316.1	1	3	2	-	2	1	1	2	1	1	1	2	3	2	2	
C316.2	1	3	2	-	2	1	1	2	1	1	1	2	3	1	2	
C316.3	1	3	2	-	2	1	1	2	1	1	1	2	3	2	1	
C316.4	1	3	2	-	2	1	1	1	1	1	1	2	1	1	1	
C316.5	1	3	2	-	2	1	1	2	1	1	1	2	1	2	2	
C316.6	1	3	2	-	2	1	1	2	1	1	1	2	1	1	1	

Branch: CIVIL ENGINEERING

COURSE LOG

Subject: CE 8611 - HIGHWAY ENGINEERING LABORATORY

Date	Day Order	Period	Particulars of Portions Covered	Remarks
08.02.2023	III	6,7,8	LOS ANGELES ABRASION TEST	BATCH 2
17.02.2023	V	6,7,8	SPECIFIC GRAVITY TEST ON AGGREGATES	BATCH-I
24.02.2023	V	6,7,8	WATER ABSORPTION OF AGGREGATE	BATCH-I
10.03.2023	V	6,7,8	SPECIFIC GRAVITY OF BITUMEN.	BATCH-I
17.03.2023	V	6,7,8	PENETRATION VALUE OF BITUMEN	BATCH-I
24.03.2023	V	6,7,8	VISCOSITY TEST ON BITUMEN	BATCH-I
31.03.2023	V	6,7,8	STRIPPING TEST ON BITUMINOUS MIXES	BATCH-I
21.04.2023	V	6,7,8	DETERMINATION OF BINDER CONTENT ON BITUMINOUS MIXES	BATCH-I
28.04.2023	V	6,7,8	SOFTENING POINT TEST ON BITUMEN	BATCH-I
05.05.2023	V	5,6,7,8	DUCTILITY TEST ON BITUMEN	BATCH-I
12.05.2023	V	6,7,8	MARSHALL STABILITY AND FLOW VALUES.	BATCH-I

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPALLI - 620 012.

Date: 27.05.2023

Ref : SCE/Syllabus/ Theory/2022-23 - ODD sem/ Civil Engineering

STATEMENT FOR SYLLABUS COMPLETION

I have handled the subject FOUNDATION ENGINEERING , code CE 8591 for III year, V semester, department of CIVIL ENGG B.E/~~B.Tech~~/~~MBA~~ during the academic year 2022 – 23, even semester.

In this regard, I confirm , that I have taught all the topics mentioned in the syllabus, and took lectures for 45 periods, revised syllabus for 45 periods and discussed the Anna University Examination question papers of the last 4 years.

Signature :

Name : S.KANNAN

Designation : ASSISTANT PROFESSOR

Department : CIVIL ENGINEERING

Date : 20-11-2023

Signature of HoD :

Principal :

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPALLI - 620 012.

Date: 27.05.2023

Ref : SCE/Syllabus/ Theory/2022-23 - Even sem/ Civil Engineering

STATEMENT FOR SYLLABUS COMPLETION

I have handled the subject STRUCTURAL ANALYSIS II , code CE 8602 for III year, VI semester, department of CIVIL ENGG B.E/~~B.Tech~~/~~MBA~~ during the academic year 2022 – 23, even semester.

In this regard, I confirm , that I have taught all the topics mentioned in the syllabus, and took lectures for 60 periods, revised syllabus for 60 periods and discussed the Anna University Examination question papers of the last 4 years.

Signature : K. SATHYA

Name : K.SATHYA PRABHA

Designation : ASSISTANT PROFESSOR

Department : CIVIL ENGINEERING

Date : 27-05-2023

Signature of HoD :

Principal :

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPALLI - 620 012.

Date: 02.12.2022

Ref : SCE/Syllabus/Laboratory/2022-23- Odd sem/ CE3361 – Surveying and Levelling laboratory

STATEMENT FOR LABORATORY EXPERIMENT COMPLETION

I hereby affirm that all the experiments listed in the next page, have been actually performed by the students as part of the prescribed course work by Anna University **(III Semester - Regulation 2021 - CE3361 - Surveying and Levelling Laboratory).** In cases where the experiments could not be conducted, the same has been listed separately with reasons.

I confirm that the experiments were done by me in the beginning of this semester, and the readings were recorded.

I confirm that the students submitted the laboratory record of the experiments performed by them, and that I have also corrected them every week and awarded appropriate marks. I also confirm that the completed laboratory record was submitted by each student.

Signature :

Name : S.KANNAN

Designation : ASSISTANT PROFESSOR

Department : CIVIL ENGINEERING

Signature of HoD :

Principal :

Note: List of the students who have not got bonafide, if any, to be enclosed.

Date: 02.12.2022

CE3361 – Surveying and Levelling Laboratory

Chain Survey

1. Study of chains and its accessories, Aligning, Ranging, Chaining and Marking Perpendicular offset
2. Setting out works – Foundation marking using tapes single Room and Double Room

Compass Survey

3. Compass Traversing – Measuring Bearings & arriving included angles

Levelling – Study of levels and levelling staff

4. Fly levelling using Dumpy level &Tilting level
5. Check levelling

Theodolite – Study of Theodolite

6. Measurements of horizontal angles by reiteration and repetition and vertical angles
7. Determination of elevation of an object using single plane method when base is Accessible/inaccessible.

Tacheometry – Tangential system – Stadia system

8. Determination of Tacheometric Constants
9. Heights and distances by stadia Tacheometry
10. Heights and distances by Tangential Tacheometry

Total Station – Study of Total Station, Measuring Horizontal and vertical angles

11. Traverse using Total station and Area of Traverse
12. Determination of distance and difference in elevation between two inaccessible points using Total station

Signature :

Name : S.KANNAN

Designation : ASSISTANT PROFESSOR

Department : CIVIL ENGINEERING

Signature of HoD :

Principal :

Note: List of the students who have not got bonafide, if any, to be enclosed.

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPALLI - 620 012.

Date: 27.05.2023

Ref : SCE/Syllabus/Laboratory/2022-23- Even sem/ CE8612 – Irrigation and Environmental Engineering Drawing

STATEMENT FOR LABORATORY EXPERIMENT COMPLETION

I hereby affirm that all the experiments listed in the next page, have been actually performed by the students as part of the prescribed course work by Anna University **(VI Semester - Regulation 2021 - CE8612 - Irrigation and Environmental Engineering Drawing)**. In cases where the experiments could not be conducted, the same has been listed separately with reasons.

I confirm that the experiments were done by me in the beginning of this semester, and the readings were recorded.

I confirm that the students submitted the laboratory record of the experiments performed by them, and that I have also corrected them every week and awarded appropriate marks. I also confirm that the completed laboratory record was submitted by each student.

Signature :

Name : K.SATHYAPRABHA

Designation : ASSISTANT PROFESSOR

Department : CIVIL ENGINEERING

Signature of HoD :

Principal :

Note: List of the students who have not got bonafide, if any, to be enclosed.

Date: 27.05.2023

CE8612 – Irrigation and Environmental Engineering Drawing

LABORATORY EXPERIMENT CYCLE

PART A: IRRIGATION ENGINEERING

I. TANK COMPONENTS

1.Fundamentals of design - Tank surplus weir
2.Tank sluice with tower head - Drawings showing foundation details, plan and elevation

II. IMPOUNDING STRUCTURES

3.Design principles - Earth dam
4.Profile of Gravity Dam

III. CROSS DRAINAGE WORKS

5.General design principles - Aqueducts
6.Syphon aqueduct (Type III) –
7.Canal drop (Notch Type) – Drawing showing plan, elevation and foundation details.

IV. CANAL REGULATION STRUCTURES

8.General Principles - Direct Sluice
9.Canal regulator - Drawing showing detailed plan, elevation and foundation details.

PART B: ENVIRONMENTAL ENGINEERING

V.WATER SUPPLY AND TREATMENT

10.Design and Drawing of flash mixer with flocculator
11.Design and Drawing of clarifier
12. Design and Drawing of Rapid sand filter
13. Design and Drawing of Service reservoirs with Pumping station
14.House service connection for water supply and drainage.

VI. SEWAGE TREATMENT & DISPOSAL

15.Design and Drawing of screen chamber
16. Design and Drawing of Grit channel
17. Design and Drawing of Primary clarifier
18. Design and Drawing of Activated sludge process
19. Design and Drawing of Aeration tank
20. Design and Drawing of Trickling filter
21. Design and Drawing of Sludge digester
22. Design and Drawing of Sludge drying beds
23. Design and Drawing of Septic tanks and disposal arrangements.

Signature : K. [illegible]

Name :K.SATHYAPRABHA

Designation : ASSISTANT PROFESSOR

Department : CIVIL ENGINEERING

Signature of HoD :

Principal :

Note: List of the students who have not got bonafide, if any, to be enclosed.

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPPALI – 12

QAC – QUALITY ASSESSMENT CELL

ACADEMIC YEAR: 2022-2023 ODD SEMESTER

NAME OF THE DEPARTMENT : CIVIL			DETAILS OF EXAMINATION IA TEST : I Makeup Test : I		
Sl.No	Subject Code	List of Batch Nos Verified	Subject Log book Verified [Y/N]	Assignments Verified [Y/N]	Remarks
YEAR/SEM/SEC : II / III / A					
		IA Test / Makeup Test			
1	CE 3301	247006, 20 / 247004, 28	Y		NIL
2	CE 3302	247021, 24 / 247002, 14	Y	–	NIL
3	CE 3303	247005, 18 / 09, 23	Y	–	NIL
4	CE 3351	247008, 21 / 247003, 29	Y		NIL
5	MA 3351	247006, 11 / 247006, 02	Y		NIL
6	ME 3351	247010, 01 / 247017, 29			
YEAR/SEM/SEC : III / V / A					
		IA Test / Makeup Test			
1	CE 8501	237005, 17 / 237022, 23	Y	–	NIL
2	CE 8502	237017, 004 / 237014, 25	Y		NIL
3	CE 8591	237005, 23 / 237027, 14	Y		NIL
4	EN 8491	237008, 25 / –	Y	–	NIL
5	GE 8071	237001, 23 / 237010, 27	Y		NIL
6	OAI 551	237009, 16 / 237012, 27	Y		

VERIFIED BY

1 10/10/22

2

SIGNATURE WITH DATE OF THE QAC MEMBERS

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPPALLI – 12

QAC – QUALITY ASSESSMENT CELL

ACADEMIC YEAR: 2022-2023 ODD SEMESTER

NAME OF THE DEPARTMENT : CIVIL			DETAILS OF EXAMINATION IA TEST : I Makeup Test : I			
Sl.No	Subject Code	List of Batch Nos Verified	Subject Log book Verified [Y/N]	Assignments Verified [Y/N]	Remarks	
YEAR/SEM/SEC : IV / VII / A						
		IA Test	Makeup Test			
1	CE 8701	227031, 10	227027, 40	Y		NIL
2	CE 8702	227004, 32	227013, 33	Y		NIL
3	CE 8703	227007, 32	227005, 28	Y		NIL
4	EN 8591	227014, 31	227009, 11	Y	—	NIL
5	OME 754	227024, 06	227008, 10	Y		NIL
6						
YEAR/SEM/SEC :						
		IA Test	Makeup Test			
1						
2						
3						
4						
5						
6						

VERIFIED BY

1 10/10/22

2

SIGNATURE WITH DATE OF THE QAC MEMBERS

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPPALLI – 12

QAC – QUALITY ASSESSMENT CELL

ACADEMIC YEAR: 2022-2023 ODD SEMESTER

NAME OF THE DEPARTMENT : CIVIL			DETAILS OF EXAMINATION IA TEST : II Makeup Test : II			
Sl.No	Subject Code	List of Batch Nos Verified	Subject Log book Verified [Y/N]	Assignments Verified [Y/N]	Remarks	
YEAR/SEM/SEC : II / III / A						
		IA Test	Makeup Test			
1	CE 3301	249010, 21	247016, 01	Y	Y	NIL
2	CE 3302	247007, 20	247005, 13	Y	—	NIL
3	CE 3303	249007, 24	247007, 27	Y	—	NIL
4	CE 3351	247008, 21	247017, 26	Y	—	NIL
5	MA 3351	247010, 15	247017, 26	Y	Y	NIL
6	ME 3351	247020, 12	247007, 08	Y	Y	NIL
YEAR/SEM/SEC : III / V / A						
		IA Test	Makeup Test			
1	CE 8501	237008, 20	237022, 10	Y	Y	NIL
2	CE 8502	237010, 12	237002, 09	Y	—	NIL
3	CE 8591	237012, 25	237005, 14	Y	Y	Two students not submitted the assignment. [LONG ABSENT]
4	EN 8491	237025, 10	237009, 22	Y	—	NIL
5	GE 8071	237009, 24	237003, 27	Y	—	NIL
6	OAI 551	237011, 18	237006, 03	Y	—	NIL

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1 10/11/22

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SIGNATURE WITH DATE OF THE QAC MEMBERS .

SARANATHAN COLLEGE OF [illegible]

TIRUCHIRAPPALLI – 12

QAC – QUALITY ASSESSMENT CELL

ACADEMIC YEAR: 2022-2023 ODD SEMESTER

NAME OF THE DEPARTMENT : CIVIL

DETAILS OF EXAMINATION

IA TEST : II Makeup Test : II

Sl.No	Subject Code	List of Batch Nos Verified	Subject Log book Verified [Y/N]	Assignments Verified [Y/N]	Remarks
YEAR/SEM/SEC : IV / VII / A					
		IA Test	Makeup Test		
1	CE 8701	227010, 35	227003, 19	Y	Y	NIL
2	CE 8702	227008, 32	227003, 34	Y	Y	NIL
3	CE 8703	227009, 18	227016, 38	Y	Y	NIL
4	EN 8591	227014, 31	227008, 40	Y	Y	NIL
5	OME 754	227009, 21	227003, 30	Y	Y	NIL
6						
YEAR/SEM/SEC :						
		IA Test	Makeup Test			
1						
2						
3						
4						
5						
6						

VERIFIED BY

1 10/11/22

2

SIGNATURE WITH DATE OF THE QAC MEMBERS

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPPALLI – 12

QAC – QUALITY ASSESSMENT CELL

ACADEMIC YEAR: 2022-2023 ODD SEMESTER

NAME OF THE DEPARTMENT : CIVIL			DETAILS OF EXAMINATION IA TEST : MODEL Makeup Test : -			
Sl.No	Subject Code	List of Batch Nos Verified		Subject Log book Verified [Y/N]	Assignments Verified [Y/N]	Remarks
YEAR/SEM/SEC : II / III / A						
		IA Test	Makeup Test			
1	CE 3301	247010, 21	—	Y	—	NIL
2	CE 3302	247001, 27	—	Y	—	NIL
3	CE 3303	247004, 25	—	Y	—	NIL
4	CE 3351	247008, 16	—	Y	—	NIL
5	MA 3351	247001, 25	—	Y	—	NIL
6	ME 3351	247010, 26	—	Y	—	NIL
YEAR/SEM/SEC : IV / VII / A						
		IA Test	Makeup Test			
1						
2						
3						
4						
5						
6						

VERIFIED BY

1 30/12/22

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SIGNATURE WITH DATE OF THE QAC MEMBERS

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPPALLI – 12

QAC – QUALITY ASSESSMENT CELL

ACADEMIC YEAR: 2022-2023 ODD SEMESTER

NAME OF THE DEPARTMENT : CIVIL			DETAILS OF EXAMINATION IA TEST : III Makeup Test : III			
Sl.No	Subject Code	List of Batch Nos Verified	Subject Log book Verified [Y/N]	Assignments Verified [Y/N]	Remarks	
YEAR/SEM/SEC : III / V / A						
		IA Test	Makeup Test			
1	CE 8501	237020, 26	–	Y	–	NIL
2	CE 8502	237014, 15	–	Y	–	NIL
3	CE 8591	237018, 27	–	Y	–	NIL
4	EN 8491	237012, 18	–	Y	–	NIL
5	GE 8071	237005, 09	–	Y	–	NIL
6	OAI 551	237020, 27	–	Y	–	NIL
YEAR/SEM/SEC : IV / VII / A						
		IA Test	Makeup Test			
1	CE 8701	227001, 39	–	Y	–	NIL
2	CE 8702	227006, 01	–	Y	–	NIL
3	CE 8703	227011, 25	–	Y	–	NIL
4	EN 8591	227011, 27	–	Y	–	NIL
5	OME754	227003, 39	–	Y	–	NIL
6						

VERIFIED BY

1 02/12/22

2

SIGNATURE WITH DATE OF THE QAC MEMBERS

Saranathan College of Engineering
QAC - Audit Report
Academic Year : 2022- 2023

Sem : Odd

Dept : CIVIL

Year/ Sem/Sec	II / III / A		Test I					Test II					Test III				
Subject Code	Name of faculty		No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %
CE 3301	Mr. A. Anand Raj	IA Test	29	27	02	18	31	29	28	01	08	69	29	29	—	12	59
		Make up Test	20	20	—	10	50	09	07	02	04	43					
		Remarks	Students were baffled by encountering Problematic questions for first time.					Due to health reasons Some of them didn't Perform Well.					Not able to solve the problems Completely. Calculation mistakes.				
CE 3302	Mr. G. Venkatesan	IA Test	29	26	03	05	72	29	28	01	03	86	29	29	—	13	55
		Make up Test	08	07	01	02	63	04	04	00	01	75					
		Remarks	—					—					Need sentence formation and also Question Bank given				
CE 3303	Mr. C. Kesava Raja	IA Test	29	26	03	02	83	29	28	01	06	76	29	29	—	20	31
		Make up Test	05	04	01	—	80	07	07	—	03	57					
		Remarks	—					Need more writing practice and also Question Bank given					Not able to write theory Need more writing practices.				
Signature of QAC members with name			[R. SURESH BABU]					[R. SURESH BABU]					[R. SURESH BABU]				
Signature of HOD																	
QAC In-Charge																	
IQAC Co-ordinator																	
Principal																	

Saranathan College of Engineering
QAC - Audit Report
Academic Year : 2022- 2023

Sem: Odd

Dept: CIVIL

Year/ Sem/Sec	II / III / A		Test I					Test II					Test III				
Subject Code	Name of faculty		No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %
CE 3351	Mr. S. Kannan	IA Test	29	28	01	06	76	29	28	01	12	55	29	29	—	15	48
		Make up Test	07	05	02	01	57	13	13	—	10	23					
		Remarks	Due to health issue two numbers of students are unable to attend the Remedial Class					Lack of solving problems & calculations					Lack of calculation mistakes Assignments are given and Question bank given				
MA 3351	Dr. S. Anu Priya	IA Test	29	29	—	12	59	29	28	01	07	72	29	29	—	20	31
		Make up Test	12	12	—	08	33	08	06	02	05	13					
		Remarks	Less Concentration in part-B questions					Lack of writing practice.					Less weightage in 16 marks questions				
ME 3351	Mr. S. Vinoth Kumar	IA Test	29	28	01	11	59	29	28	01	14	48	29	29	—	17	41
		Make up Test	11	09	02	02	64	15	13	02	02	73					
		Remarks	More number of problems given for practices.					Needs to improve conceptual understanding.					More problems given for practice.				
Signature of QAC members with name			[R. SURESH BABU]					[R. SURESH BABU]					[R. SURESH BABU]				
Signature of HOD																	
QAC In-Charge																	
IQAC Co-ordinator																	
Principal																	

Saranathan College of Engineering

QAC - Audit Report

Academic Year : 2022- 2023

Sem: Odd

Dept: CIVIL

Year/ Sem/Sec	III / V / A		Test I					Test II					Test III				
Subject Code	Name of faculty		No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %
CE 8501	Mr. G. Venkatesan	IA Test	27	24	03	10	52	26	24	02	08	62	26	21	05	04	65
		Make up Test	12	11	01	05	50	10	05	05	-	50					
		Remarks	Problematic paper, difficult to manage time					Due to student absence, Pass % is low.					—				
CE 8502	Ms. K. Sathya Prabha	IA Test	27	27	—	14	48	26	23	03	05	69	26	18	08	03	58
		Make up Test	13	10	03	—	77	08	08	—	—	100					
		Remarks	Problematic subject, since basics were very slow in understanding.					—					Need more Problems to be worked out by Students				
CE 8591	Mr. S. Kannan	IA Test	26	25	01	06	73	26	23	03	08	58	26	21	05	07	54
		Make up Test	07	03	04	01	29	11	09	02	02	64					
		Remarks	Due to health issue, four numbers of students are unable to attend the test					Need more writing practice					Due to health issue, five nos of Students are unable to attend the test				
Signature of QAC members with name			[R. SURESH BABU]					[R. SURESH BABU]					[R. SURESH BABU]				
Signature of HOD																	
QAC In-Charge			S.N.A					S.N.A					S.N.A				
IQAC Co-ordinator																	
Principal																	

Saranathan College of Engineering
QAC - Audit Report
Academic Year : 2022- 2023

Year/ Sem/Sec	III / V / A													Sem: Odd				
														Dept		CIVIL		
			Test I					Test II						Test III				
Subject Code	Name of faculty		No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %		No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %
EN 8491	Mr. C. Kesava Raja	IA Test	27	27	—	01	96	26	23	03	07	62		26	22	04	05	65
		Make up Test	01	—	01	—	-0-	10	10	—	01	90						
		Remarks	Due to health issue absent for rescheduled class of Test					—						—				
GE 8071	Mr. G. Venkatesan	IA Test	27	23	04	04	70	26	25	01	03	85		26	20	06	03	65
		Make up Test	08	02	06	—	25	04	04	—	02	50						
		Remarks	3 students not interested to perform, irregular for classes					study materials circulated to failures.						—				
QAI 551	Ms. K. Sathya Prabha	IA Test	27	23	04	04	70	26	23	03	—	88		26	20	06	01	73
		Make up Test	07	04	03	—	57	03	03	—	—	100						
		Remarks	Unable to write theory properly, more failures					—						—				
Signature of QAC members with name			[R. SURESH BABU]					[R. SURESH BABU]						[R. SURESH BABU]				
Signature of HOD																		
QAC In-Charge			S.A.A					S.A.A						S.A.A				
IQAC Co-ordinator																		
Principal																		

Saranathan College of Engineering

QAC - Audit Report

Academic Year : 2022- 2023

Sem: Odd

Dept: CIVIL

Year/ Sem/Sec	IV / VII / A		Test I					Test II					Test III				
Subject Code	Name of faculty		No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %
CE 8701	Dr. A. Belin Jude	IA Test	38	32	06	06	68	38	36	02	17	50	38	38	—	04	89
		Make up Test	12	12	—	01	92	19	16	03	04	63					
		Remarks	—					Most of questions are Problems. Students are not aware of current list of materials.					—				
CE 8702	Mr.A. Anand Raj	IA Test	38	34	04	06	74	38	37	01	06	82	38	33	05	14	50
		Make up Test	10	04	06	—	40	07	06	01	—	86					
		Remarks	Most of the Relast attending students are lethargic. Proper Motivation was given					—					Need More Writing Practices.				
CE 8703	Ms. K. Sathya Prabha	IA Test	38	35	03	20	39	38	35	03	10	66	38	37	01	18	50
		Make up Test	23	14	09	—	61	13	12	01	05	54					
		Remarks	Design Subject Some they doesn't follow proper procedure					Design subject some students didn't follow Procedure.					Need to work out more Problems.				
Signature of QAC members with name			[R. SURESH BABU]					[R. SURESH BABU]					[R. SURESH BABU]				
Signature of HOD																	
QAC In-Charge			S.A.A					S.A.A					S.A.A				
IQAC Co-ordinator																	
Principal																	

Saranathan College of Engineering
QAC - Audit Report
Academic Year : 2022- 2023

Sem: Odd

Dept: CIVIL

Year/ Sem/Sec	IV / VII / A		Test I					Test II					Test III				
Subject Code	Name of faculty		No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %
EN 8591	Mr. C. Kesava Raja	IA Test	38	37	01	05	84	38	36	02	11	66	38	37	01	15	58
		Make up Test	06	06	–	–	100	13	07	06	–	54	–	–	–	–	–
		Remarks	–					Due to health issues students are getting Absent. Advised for Improving Attendance.					Need to Concentrate on Presentation and writting Skill. Assignments given for Practice.				
OME 754	Mr. A .Anand Raj	IA Test	38	34	04	07	71	38	34	04	05	76	38	36	02	12	63
		Make up Test	11	07	04	01	55	09	08	01	–	89					
		Remarks	Most of the Retest attending Students are lethargic. Proper Motivation was given.					–					–				
		IA Test	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
		Make up Test	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
		Remarks	–					–					–				
Signature of QAC members with name			[R. SURESH BABU]					[R. SURESH BABU]					[R. SURESH BABU]				
Signature of HOD																	
QAC In-Charge																	
IQAC Co-ordinator																	
Principal																	

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPPALLI – 12

QAC – QUALITY ASSESSMENT CELL

ACADEMIC YEAR: 2022-2023 EVEN SEMESTER

NAME OF THE DEPARTMENT : CIVIL			DETAILS OF EXAMINATION IA TEST : I Makeup Test : I		
Sl.No	Subject Code	List of Batch Nos Verified	Subject Log book Verified [Y/N]	Assignments Verified [Y/N]	Remarks
YEAR/SEM/SEC : II / IV / A					
		IA Test	Makeup Test		
1	CE 3401	247008, 29	249004, 28	Y	Y	NIL
2	CE 3402	247011, 22	249009, 23	Y	Y	NIL
3	CE 3403	247003, 22	249014, 06	Y	Y	NIL
4	CE3404	247011, 18	249007, 29	Y	Y	NIL
5	CE 3405	247008, 21	247006, 23	Y	Y	NIL
6	GE 3451	249007, 249019	249006, 18	Y	Y	NIL
YEAR/SEM/SEC : III / VI / A					
		IA Test	Makeup Test		
1	CE 8601	237003, 18	237007, 10	Y	Y	NIL
2	CE 8602	237008, 22	237002, 15	Y	Y	NIL
3	CE 8603	237009, 21	237002, 27	Y	Y	NIL
4	CE 8604	237005, 17	237012, 14	Y	Y	NIL
5	EN8592	237013, 20	237002, 14	Y	Y	NIL
6						

VERIFIED BY

1 12/05/23

2

SIGNATURE WITH DATE OF THE QAC MEMBERS

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPPALLI – 12

QAC – QUALITY ASSESSMENT CELL

ACADEMIC YEAR: 2022-2023 EVEN SEMESTER

NAME OF THE DEPARTMENT : CIVIL			DETAILS OF EXAMINATION IA TEST : I Makeup Test : I		
Sl.No	Subject Code	List of Batch Nos Verified	Subject Log book Verified [Y/N]	Assignments Verified [Y/N]	Remarks
YEAR/SEM/SEC : IV / VIII / A					
		IA Test	Makeup Test		
1	CE 8020	227009, 27	227012, 19	Y	Y	NIL
2						
3						
4						
5						
6						
YEAR/SEM/SEC :					
		IA Test	Makeup Test		
1						
2						
3						
4						
5						
6						

VERIFIED BY

1 12/05/23

2

SIGNATURE WITH DATE OF THE QAC MEMBERS

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPPALLI – 12

QAC – QUALITY ASSESSMENT CELL

ACADEMIC YEAR: 2022-2023 EVEN SEMESTER

NAME OF THE DEPARTMENT : CIVIL			DETAILS OF EXAMINATION IA TEST : II Makeup Test : II			
Sl.No	Subject Code	List of Batch Nos Verified		Subject Log book Verified [Y/N]	Assignments Verified [Y/N]	Remarks
YEAR/SEM/SEC : II / IV / A						
		IA Test	Makeup Test			
1	CE 3401	247011, 13	247002, 17	Y	Y	NIL
2	CE 3402	247001, 247003	247002, 18	Y	Y	NIL
3	CE 3403	247009, 28	247016, 23	Y	Y	NIL
4	CE3404	247004, 19	247009, 20	Y	Y	NIL
5	CE 3405	247008, 26	247005, 18	Y	Y	NIL
6	GE 3451	247010, 25	247002, 09	Y	Y	NIL
YEAR/SEM/SEC : III / VI / A						
		IA Test	Makeup Test			
1	CE 8601	237015, 27	237015, 23	Y	Y	NIL
2	CE 8602	237001, 14	237021, 23	Y	Y	NIL
3	CE 8603	237012, 23	237003, 06	Y	Y	NIL
4	CE 8604	237000, 22	237002, 03	Y	Y	NIL
5	EN8592	237012, 18	237010, 15	Y	–	NIL
6						

VERIFIED BY

1 12/05/23

2

SIGNATURE WITH DATE OF THE QAC MEMBERS

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPPALLI – 12

QAC – QUALITY ASSESSMENT CELL

ACADEMIC YEAR: 2022-2023 EVEN SEMESTER

NAME OF THE DEPARTMENT : CIVIL			DETAILS OF EXAMINATION IA TEST : II Makeup Test : II		
Sl.No	Subject Code	List of Batch Nos Verified	Subject Log book Verified [Y/N]	Assignments Verified [Y/N]	Remarks
YEAR/SEM/SEC : IV / VIII / A					
		IA Test	Makeup Test		
1	CE 8020	227012, 24	Y	Y	NIL
2					
3					
4					
5					
6					
YEAR/SEM/SEC :					
		IA Test	Makeup Test		
1					
2					
3					
4					
5					
6					

VERIFIED BY

1 12/05/23

2

SIGNATURE WITH DATE OF THE QAC MEMBERS

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPPALLI – 12

QAC – QUALITY ASSESSMENT CELL

ACADEMIC YEAR: 2022-2023 EVEN SEMESTER

NAME OF THE DEPARTMENT : CIVIL			DETAILS OF EXAMINATION IA TEST : III Makeup Test : III		
Sl.No	Subject Code	List of Batch Nos Verified	Subject Log book Verified [Y/N]	Assignments Verified [Y/N]	Remarks
YEAR/SEM/SEC : II / IV / A					
		IA Test	Makeup Test		
1	CE 3401	247011, 24	—	Y	Y	NIL
2	CE 3402	247010, 25	—	Y	Y	NIL
3	CE 3403	247012, 27	—	Y	Y	NIL
4	CE3404	247009, 21	—	Y	Y	NIL
5	CE 3405	247023, 08	—	Y	Y	NIL
6	GE 3451	247010, 21	—	Y	Y	NIL
YEAR/SEM/SEC : III / VI / A					
		IA Test	Makeup Test		
1	CE 8601	237005, 15	—	Y	Y	NIL
2	CE 8602	237001, 20	—	Y	Y	NIL
3	CE 8603	237011, 25	—	Y	Y	NIL
4	CE 8604	237012, 26	—	Y	Y	NIL
5	EN8592	237010, 20	—	Y	Y	NIL
6						

VERIFIED BY

1 07/06/23

2

SIGNATURE WITH DATE OF THE QAC MEMBERS

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPPALLI – 12

QAC – QUALITY ASSESSMENT CELL

ACADEMIC YEAR: 2022-2023 EVEN SEMESTER

NAME OF THE DEPARTMENT : CIVIL			DETAILS OF EXAMINATION IA TEST : III Makeup Test : III			
Sl.No	Subject Code	List of Batch Nos Verified		Subject Log book Verified [Y/N]	Assignments Verified [Y/N]	Remarks
YEAR/SEM/SEC : IV / VIII / A						
		IA Test	Makeup Test			
1	CE 8020	—	—	—	—	—
2						
3						
4						
5						
6						
YEAR/SEM/SEC :						
		IA Test	Makeup Test			
1						
2						
3						
4						
5						
6						

VERIFIED BY

1 07/04/23

2

SIGNATURE WITH DATE OF THE QAC MEMBERS

Saranathan College of Engineering
QAC - Audit Report
Academic Year : 2022- 2023

Year/ Sem/Sec	II / IV / A												Sem: Even				
					Test I						Test II					Dept	CIVIL			
Subject Code	Name of faculty		No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	Test III				
													No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %
CE 3401	Mr.A.Anandraj	IA Test	29	29	–	15	48	29	29	–	09	69	29	29	–	14	52
		Make up Test	15	13	02	03	67	09	09	–	07	22	–	–	–	–	–
		Remarks	Extra Class notes were given. Motivated to Improve in next exams.					Extra Coaching given to the slow learners.					Revision Classes Conducted. Important questions were given				
CE3402	Mr.S.Kannan	IA Test	29	29	–	16	45	29	29	–	13	55	29	28	01	12	55
		Make up Test	16	16	–	08	50	13	13	–	07	46	–	–	–	–	–
		Remarks	The questions from past University exams are revised.					Revision Classes has been conducted.					Question Bank and Important Questions given				
CE3403	Ms.K.Sathya Prabha	IA Test	29	28	01	09	66	29	29	–	03	90	29	29	–	04	86
		Make up Test	10	08	02	–	80	03	03	–	–	100	–	–	–	–	–
		Remarks	–					–					–				
Signature of QAC members with name			12/05/23 [R. SURESH BABU]					12/05/23 [R. SURESH BABU]					07/06/23 [R. SURESH BABU]				
Signature of HOD																	
QAC In-Charge																	
IQAC Co-ordinator																	
Principal																	

Saranathan College of Engineering
QAC - Audit Report
Academic Year : 2022- 2023

Sem: Even

Year/ Sem/Sec	II / IV / A												Dept	CIVIL			
			Test I					Test II					Test III				
Subject Code	Name of faculty		No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %
CE 3404	Mr.G.Venkatesan	IA Test	29	29	–	14	52	29	29	–	10	66	29	29	–	19	34
		Make up Test	14	11	03	–	57	10	10	–	06	40	–	–	–	–	–
		Remarks	Important Questions with short cuts circulated.					Brief notes for Part - B circulated.					Revision Class Conducted Important Problems solved				
CE3405	Mr.C.Kesava Raja	IA Test	29	29	–	07	76	29	29	–	06	79	29	29	–	12	59
		Make up Test	07	07	–	03	100	06	06	–	02	67	–	–	–	–	–
		Remarks	—					—					Important Questions and Answers are dictated in all units				
GE3451	Dr.V.Balamurugan	IA Test	29	29	–	18	38	29	29	–	09	69	29	29	–	25	14
		Make up Test	18	17	01	10	39	09	09	–	04	56	–	–	–	–	–
		Remarks	Assignment Given to Students.					Important Questions with answers given					Question Bank given and Revision Class Conducted				
Signature of QAC members with name			12/05/23 [R.SURESH BABU]					[R.SURESH BABU]					01/06/23 [R.SURESH BABU]				
Signature of HOD																	
QAC In-Charge																	
IQAC Co-ordinator																	
Principal																	

Saranathan College of Engineering
QAC - Audit Report
Academic Year : 2022- 2023

Year/ Sem/Sec	III / VI / A												Sem: Even				
													Dept	CIVIL			
			Test I					Test II					Test III				
Subject Code	Name of faculty		No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %
CE 8601	Dr.A.Belin Jude	IA Test	26	24	02	03	81	26	24	02	08	62	26	21	05	05	62
		Make up Test	05	05	–	02	60	10	05	05	–	50	–	–	–	–	–
		Remarks	–					02 student - Health issue 03 - Attendance defaulter					–				
CE 8602	Ms.K.Sathya Prabha	IA Test	26	21	05	05	62	26	23	03	02	81	25	23	02	01	88
		Make up Test	10	08	02	02	60	05	05	–	–	100	–	–	–	–	–
		Remarks	–					–					–				
CE 8603	Mr.G.Venkatesan	IA Test	26	22	04	05	65	26	25	01	03	85	25	22	03	11	44
		Make up Test	09	07	02	–	78	04	03	01	03	–	–	–	–	–	–
		Remarks	–					–					Question Bank Given				
Signature of QAC members with name			12/05/23 [R.SURESH BABU]					12/05/23 [R.SURESH BABU]					09/06/23 [R.SURESH BABU]				
Signature of HOD																	
QAC In-Charge																	
IQAC Co-ordinator																	
Principal																	

Saranathan College of Engineering

QAC - Audit Report

Academic Year : 2022- 2023

Year/ Sem/Sec	III / VI / A												Sem: Even				
													Dept	CIVIL			
			Test I					Test II					Test III				
Subject Code	Name of faculty		No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %
CE 8604	Mr.A.Anandraj	IA Test	26	25	01	08	65	26	24	02	03	91	25	21	04	08	52
		Make up Test	09	07	02	01	67	05	04	01	–	80	–	–	–	–	–
		Remarks	–					–					Revision Classes Conducted. Important questions were Given.				
EN 8592	Mr.S.Kannan	IA Test	26	22	04	13	35	26	24	02	05	73	25	21	04	04	68
		Make up Test	17	13	04	03	59	07	02	05	–	29	–	–	–	–	–
		Remarks	The questions from part University exams are revised.					Revision Classes has been conducted.					–				
		IA Test															
		Make up Test															
		Remarks															
Signature of QAC members with name			12/05/23 [R.SURESH BABU]					12/05/23 [R.SURESH BABU]					27/06/23 [R.SURESH BABU]				
Signature of HOD																	
QAC In-Charge			S.A.Ac					S.A.Ac					S.A.Ac				
IQAC Co-ordinator																	
Principal																	

Saranathan College of Engineering

QAC - Audit Report

Academic Year : 2022- 2023

Year/ Sem/Sec	IV / VIII / A		Sem: Even										Dept	CIVIL			
			Test I					Test II					Test III				
Subject Code	Name of faculty		No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %
CE 8020	Ms. P.Vaishali	IA Test	38	37	01	16	55	38	38	—	30	21	—	—	—	—	—
		Make up Test	17	07	10	02	29						—	—	—	—	—
		Remarks	Previous year University QP and answers were given.					Additional notes were given and videos were shown for better understanding					—				
		IA Test															
		Make up Test															
		Remarks															
		IA Test															
		Make up Test															
		Remarks															
Signature of QAC members with name			12/05/23 [R.SURESH BABU]					8/5/23 [R.SURESH BABU]					27/6/23 [R.SURESH BABU]				
Signature of HOD																	
QAC In-Charge																	
IQAC Co-ordinator																	
Principal																	

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Academic Year : **2022-23ODD** Semester : **5** Programme: **B.E/B.Tech (CIVIL)**
Subject Code : **CE8502** NBA Code : **C302** Title **STRUCTURAL ANALYSIS I**
Faculty: Ms.K.Sathya Prabha

Cos	CO Description	Attained Level	%
C302.1	Analyze continuous beams, pin-jointed indeterminate plane frames and rigid frames by strain energy method.	3.0	100.00
C302.2	Analyze continuous beams by slope deflection method.	3.0	100.00
C302.3	Analyze plane and inclined rigid frames by slope deflection method.	2.46	82.00
C302.4	Understand the concept of moment distribution and analysis of continuous beams and rigid frames with and without sway.	2.5	83.33
C302.5	Analyze the indeterminate pin-jointed plane frames, continuous beams and rigid frames using matrix flexibility method.	2.5	83.33
C302.6	Understand the concept of matrix stiffness method and analysis of continuous beams, pin-jointed truss and rigid plane frames.	3.0	100.00

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 26

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
237001	CE8502	3	3	2	3	3	3	24/02/2023	CIVIL	5
237002	CE8502	3	3	3	2	2	3	24/02/2023	CIVIL	5
237003	CE8502	3	3	3	2	3	3	24/02/2023	CIVIL	5
237005	CE8502	3	3	2	2	2	3	24/02/2023	CIVIL	5
237006	CE8502	3	3	3	3	2	3	24/02/2023	CIVIL	5
237007	CE8502	3	3	3	3	3	3	24/02/2023	CIVIL	5
237008	CE8502	3	3	2	3	3	3	24/02/2023	CIVIL	5
237009	CE8502	3	3	3	3	2	3	24/02/2023	CIVIL	5
237010	CE8502	3	3	2	3	2	3	24/02/2023	CIVIL	5

237011	CE8502	3	3	2	3	3	3	24/02/2023	CIVIL	5
237012	CE8502	3	3	3	3	2	3	24/02/2023	CIVIL	5
237013	CE8502	3	3	3	2	2	3	24/02/2023	CIVIL	5
237014	CE8502	3	3	3	3	3	3	24/02/2023	CIVIL	5
237015	CE8502	3	3	2	3	2	3	24/02/2023	CIVIL	5
237016	CE8502	3	3	2	2	3	3	24/02/2023	CIVIL	5
237017	CE8502	3	3	2	2	3	3	24/02/2023	CIVIL	5
237018	CE8502	3	3	2	3	3	3	24/02/2023	CIVIL	5
237020	CE8502	3	3	3	2	2	3	24/02/2023	CIVIL	5
237021	CE8502	3	3	3	2	3	3	24/02/2023	CIVIL	5
237022	CE8502	3	3	2	2	3	3	24/02/2023	CIVIL	5
237023	CE8502	3	3	2	2	2	3	24/02/2023	CIVIL	5
237024	CE8502	3	3	2	2	2	3	24/02/2023	CIVIL	5
237025	CE8502	3	3	2	3	3	3	24/02/2023	CIVIL	5
237026	CE8502	3	3	3	2	2	3	24/02/2023	CIVIL	5
237027	CE8502	3	3	2	2	2	3	24/02/2023	CIVIL	5
237028	CE8502	3	3	3	3	3	3	24/02/2023	CIVIL	5
Attained Level		3.0	3.0	2.46	2.5	2.5	3.0			
%		100.00	100.00	82.00	83.33	83.33	100.00			

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Academic Year : **2022-23ODD** Semester : **7** Programme: **B.E/B.Tech (CIVIL)**
Subject Code : **OME754** NBA Code : **C405** Title **INDUSTRIAL SAFETY**
Faculty: Mr.A.Anand Raj

Cos	CO Description	Attained Level	%
C405.1	Students will be able to understand and prevent the problems related to fire safety.	3.0	100.00
C405.2	Students must be able to identify and prevent chemical hazards.	3.0	100.00
C405.3	Students must be able to recognize and prevent environmental hazards.	2.45	81.67
C405.4	Students will be able to learn various methods of hazard analysis.	2.5	83.33
C405.5	Students will obtain knowledge on various safety regulations.	2.42	80.67
C405.6	Students must be able to apply proper safety techniques on safety engineering and management.	3.0	100.00

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 38

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
227001	OME754	3	3	2	3	3	3	24/02/2023	CIVIL	7
227002	OME754	3	3	3	2	2	3	24/02/2023	CIVIL	7
227003	OME754	3	3	2	2	3	3	24/02/2023	CIVIL	7
227004	OME754	3	3	2	2	2	3	24/02/2023	CIVIL	7
227005	OME754	3	3	2	3	3	3	24/02/2023	CIVIL	7
227006	OME754	3	3	3	2	2	3	24/02/2023	CIVIL	7
227007	OME754	3	3	3	3	2	3	24/02/2023	CIVIL	7
227008	OME754	3	3	3	3	2	3	24/02/2023	CIVIL	7
227009	OME754	3	3	2	3	3	3	24/02/2023	CIVIL	7
227010	OME754	3	3	3	2	2	3	24/02/2023	CIVIL	7
227011	OME754	3	3	2	2	2	3	24/02/2023	CIVIL	7
227012	OME754	3	3	3	3	3	3	24/02/2023	CIVIL	7
227013	OME754	3	3	2	3	3	3	24/02/2023	CIVIL	7
227014	OME754	3	3	3	3	2	3	24/02/2023	CIVIL	7
227016	OME754	3	3	3	2	2	3	24/02/2023	CIVIL	7
227017	OME754	3	3	3	3	3	3	24/02/2023	CIVIL	7

227018	OME754	3	3	3	2	3	3	24/02/2023	CIVIL	7
227019	OME754	3	3	2	3	2	3	24/02/2023	CIVIL	7
227020	OME754	3	3	3	2	2	3	24/02/2023	CIVIL	7
227021	OME754	3	3	3	2	3	3	24/02/2023	CIVIL	7
227022	OME754	3	3	2	2	3	3	24/02/2023	CIVIL	7
227023	OME754	3	3	2	2	3	3	24/02/2023	CIVIL	7
227024	OME754	3	3	2	2	2	3	24/02/2023	CIVIL	7
227025	OME754	3	3	3	3	3	3	24/02/2023	CIVIL	7
227026	OME754	3	3	2	2	2	3	24/02/2023	CIVIL	7
227027	OME754	3	3	2	2	2	3	24/02/2023	CIVIL	7
227028	OME754	3	3	2	3	3	3	24/02/2023	CIVIL	7
227030	OME754	3	3	2	2	3	3	24/02/2023	CIVIL	7
227031	OME754	3	3	3	2	3	3	24/02/2023	CIVIL	7
227032	OME754	3	3	3	2	2	3	24/02/2023	CIVIL	7
227033	OME754	3	3	2	2	2	3	24/02/2023	CIVIL	7
227034	OME754	3	3	2	3	3	3	24/02/2023	CIVIL	7
227035	OME754	3	3	2	3	2	3	24/02/2023	CIVIL	7
227036	OME754	3	3	2	3	2	3	24/02/2023	CIVIL	7
227038	OME754	3	3	2	3	2	3	24/02/2023	CIVIL	7
227039	OME754	3	3	2	3	2	3	24/02/2023	CIVIL	7
227040	OME754	3	3	3	3	2	3	24/02/2023	CIVIL	7
227042	OME754	3	3	3	3	2	3	24/02/2023	CIVIL	7
Attained Level		3.0	3.0	2.45	2.5	2.42	3.0			
%		100.00	100.00	81.67	83.33	80.67	100.00			

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Academic Year : **2022-23ODD** Semester : **7** Programme: **B.E/B.Tech (CIVIL)**
Subject Code : **EN8591** NBA Code : **C406** Title **MUNICIPAL SOLID WASTE MANAGEMENT**
Faculty: Mr.C.Kesava Raja

Cos	CO Description	Attained Level	%
C406.1	Students will have an understanding of the nature and characteristics of municipal solid wastes	3.0	100.00
C406.2	Students will have an understanding of the regulatory requirements regarding municipal solid waste management	3.0	100.00
C406.3	Students will have the ability to plan waste minimization and storage design	2.42	80.67
C406.4	Students will have the ability to plan collection and transportation of waste	2.47	82.33
C406.5	Students will have the knowledge of processing of waste	2.45	81.67
C406.6	Students will understand and design the various methods of disposal of municipal solid waste	3.0	100.00

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 38

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
227001	EN8591	3	3	3	2	3	3	24/02/2023	CIVIL	7
227002	EN8591	3	3	2	3	2	3	24/02/2023	CIVIL	7
227003	EN8591	3	3	3	2	3	3	24/02/2023	CIVIL	7
227004	EN8591	3	3	3	3	2	3	24/02/2023	CIVIL	7
227005	EN8591	3	3	2	3	2	3	24/02/2023	CIVIL	7
227006	EN8591	3	3	2	3	2	3	24/02/2023	CIVIL	7
227007	EN8591	3	3	2	2	2	3	24/02/2023	CIVIL	7
227008	EN8591	3	3	3	3	3	3	24/02/2023	CIVIL	7
227009	EN8591	3	3	2	3	3	3	24/02/2023	CIVIL	7
227010	EN8591	3	3	3	2	2	3	24/02/2023	CIVIL	7
227011	EN8591	3	3	3	2	3	3	24/02/2023	CIVIL	7
227012	EN8591	3	3	2	2	3	3	24/02/2023	CIVIL	7
227013	EN8591	3	3	3	3	2	3	24/02/2023	CIVIL	7
227014	EN8591	3	3	2	2	3	3	24/02/2023	CIVIL	7

227016	EN8591	3	3	2	3	2	3	24/02/2023	CIVIL	7
227017	EN8591	3	3	2	2	3	3	24/02/2023	CIVIL	7
227018	EN8591	3	3	2	3	3	3	24/02/2023	CIVIL	7
227019	EN8591	3	3	3	3	3	3	24/02/2023	CIVIL	7
227020	EN8591	3	3	2	3	2	3	24/02/2023	CIVIL	7
227021	EN8591	3	3	2	2	3	3	24/02/2023	CIVIL	7
227022	EN8591	3	3	2	2	2	3	24/02/2023	CIVIL	7
227023	EN8591	3	3	3	3	3	3	24/02/2023	CIVIL	7
227024	EN8591	3	3	3	2	2	3	24/02/2023	CIVIL	7
227025	EN8591	3	3	2	2	2	3	24/02/2023	CIVIL	7
227026	EN8591	3	3	3	2	2	3	24/02/2023	CIVIL	7
227027	EN8591	3	3	2	2	2	3	24/02/2023	CIVIL	7
227028	EN8591	3	3	2	3	3	3	24/02/2023	CIVIL	7
227030	EN8591	3	3	2	3	3	3	24/02/2023	CIVIL	7
227031	EN8591	3	3	3	3	2	3	24/02/2023	CIVIL	7
227032	EN8591	3	3	3	2	3	3	24/02/2023	CIVIL	7
227033	EN8591	3	3	3	2	3	3	24/02/2023	CIVIL	7
227034	EN8591	3	3	2	2	3	3	24/02/2023	CIVIL	7
227035	EN8591	3	3	2	3	2	3	24/02/2023	CIVIL	7
227036	EN8591	3	3	2	3	2	3	24/02/2023	CIVIL	7
227038	EN8591	3	3	3	2	2	3	24/02/2023	CIVIL	7
227039	EN8591	3	3	2	2	2	3	24/02/2023	CIVIL	7
227040	EN8591	3	3	2	3	2	3	24/02/2023	CIVIL	7
227042	EN8591	3	3	3	2	2	3	24/02/2023	CIVIL	7
Attained Level		3.0	3.0	2.42	2.47	2.45	3.0			
%		100.00	100.00	80.67	82.33	81.67	100.00			

Saranathan College of Engineering
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Course End Survey - Consolidated Report

Academic Year : **2022-23ODD** Semester : **7** Programme: **B.E/B.Tech (CIVIL)**
Subject Code : **CE8702** NBA Code : **C402** Title **RAILWAYS AIRPORTS AND HARBOUR ENGINEERING**
Faculty: Mr.A.Anand Raj

Cos	CO Description	Attained Level	%
C402.1	Students will be able to describe about various activities regarding railway planning.	3.0	100.00
C402.2	Students will be able to explain about the construction and maintenance of railways.	3.0	100.00
C402.3	Students will be able to describe about the various activities regarding airport planning.	2.55	85.00
C402.4	Students will be able to explain about the various design aspects of airports.	2.45	81.67
C402.5	Students will be able to describe about various activities regarding harbour planning.	2.53	84.33
C402.6	Students will have the ability to design various civil engineering aspects of harbour.	3.0	100.00

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 38

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
227001	CE8702	3	3	2	2	3	3	24/02/2023	CIVIL	7
227002	CE8702	3	3	2	2	2	3	24/02/2023	CIVIL	7
227003	CE8702	3	3	2	2	3	3	24/02/2023	CIVIL	7
227004	CE8702	3	3	3	2	3	3	24/02/2023	CIVIL	7
227005	CE8702	3	3	3	2	3	3	24/02/2023	CIVIL	7
227006	CE8702	3	3	2	3	3	3	24/02/2023	CIVIL	7
227007	CE8702	3	3	3	2	2	3	24/02/2023	CIVIL	7
227008	CE8702	3	3	2	3	3	3	24/02/2023	CIVIL	7
227009	CE8702	3	3	3	3	3	3	24/02/2023	CIVIL	7
227010	CE8702	3	3	3	2	2	3	24/02/2023	CIVIL	7
227011	CE8702	3	3	2	3	3	3	24/02/2023	CIVIL	7
227012	CE8702	3	3	2	2	2	3	24/02/2023	CIVIL	7
227013	CE8702	3	3	3	2	3	3	24/02/2023	CIVIL	7
227014	CE8702	3	3	3	2	3	3	24/02/2023	CIVIL	7

227016	CE8702	3	3	2	2	3	3	24/02/2023	CIVIL	7
227017	CE8702	3	3	2	2	2	3	24/02/2023	CIVIL	7
227018	CE8702	3	3	3	3	3	3	24/02/2023	CIVIL	7
227019	CE8702	3	3	3	2	3	3	24/02/2023	CIVIL	7
227020	CE8702	3	3	3	3	2	3	24/02/2023	CIVIL	7
227021	CE8702	3	3	3	2	2	3	24/02/2023	CIVIL	7
227022	CE8702	3	3	3	3	2	3	24/02/2023	CIVIL	7
227023	CE8702	3	3	3	2	3	3	24/02/2023	CIVIL	7
227024	CE8702	3	3	2	3	3	3	24/02/2023	CIVIL	7
227025	CE8702	3	3	3	3	2	3	24/02/2023	CIVIL	7
227026	CE8702	3	3	3	2	3	3	24/02/2023	CIVIL	7
227027	CE8702	3	3	2	2	2	3	24/02/2023	CIVIL	7
227028	CE8702	3	3	3	3	3	3	24/02/2023	CIVIL	7
227030	CE8702	3	3	2	2	2	3	24/02/2023	CIVIL	7
227031	CE8702	3	3	2	2	2	3	24/02/2023	CIVIL	7
227032	CE8702	3	3	2	3	3	3	24/02/2023	CIVIL	7
227033	CE8702	3	3	3	3	3	3	24/02/2023	CIVIL	7
227034	CE8702	3	3	2	2	2	3	24/02/2023	CIVIL	7
227035	CE8702	3	3	3	3	2	3	24/02/2023	CIVIL	7
227036	CE8702	3	3	2	3	3	3	24/02/2023	CIVIL	7
227038	CE8702	3	3	2	3	2	3	24/02/2023	CIVIL	7
227039	CE8702	3	3	3	2	2	3	24/02/2023	CIVIL	7
227040	CE8702	3	3	3	3	2	3	24/02/2023	CIVIL	7
227042	CE8702	3	3	3	3	2	3	24/02/2023	CIVIL	7
Attained Level		3.0	3.0	2.55	2.45	2.53	3.0			
%		100.00	100.00	85.00	81.67	84.33	100.00			

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Academic Year : **2022-23ODD** Semester : **7** Programme: **B.E/B.Tech (CIVIL)**
Subject Code : **CE8701** NBA Code : **C401** Title **ESTIMATION, COSTING AND VALUATION ENGINEERING**
Faculty: Dr.A.Belin Jude

Cos	CO Description	Attained Level	%
C401.1	The students will be able to Estimate the quantities for buildings.	3.0	100.00
C401.2	The students will be able to Estimate the quantities for Roads and other irrigation Structures.	3.0	100.00
C401.3	The students will be able to analyse the rates for all Building works and Cost Estimate.	2.63	87.67
C401.4	To Understand types of specifications, principles for report preparation, tender notices types.	2.45	81.67
C401.5	The students will be able to Gain knowledge on types of contracts	2.53	84.33
C401.6	The students will be able to Evaluate valuation for building and land	3.0	100.00

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 38

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
227001	CE8701	3	3	3	3	3	3	24/02/2023	CIVIL	7
227002	CE8701	3	3	3	3	2	3	24/02/2023	CIVIL	7
227003	CE8701	3	3	2	2	3	3	24/02/2023	CIVIL	7
227004	CE8701	3	3	3	2	2	3	24/02/2023	CIVIL	7
227005	CE8701	3	3	3	3	2	3	24/02/2023	CIVIL	7
227006	CE8701	3	3	2	2	2	3	24/02/2023	CIVIL	7
227007	CE8701	3	3	2	3	2	3	24/02/2023	CIVIL	7
227008	CE8701	3	3	2	2	3	3	24/02/2023	CIVIL	7
227009	CE8701	3	3	3	3	3	3	24/02/2023	CIVIL	7
227010	CE8701	3	3	3	2	3	3	24/02/2023	CIVIL	7
227011	CE8701	3	3	2	2	2	3	24/02/2023	CIVIL	7
227012	CE8701	3	3	2	2	2	3	24/02/2023	CIVIL	7
227013	CE8701	3	3	3	2	3	3	24/02/2023	CIVIL	7
227014	CE8701	3	3	3	2	2	3	24/02/2023	CIVIL	7

227016	CE8701	3	3	2	2	3	3	24/02/2023	CIVIL	7
227017	CE8701	3	3	2	2	3	3	24/02/2023	CIVIL	7
227018	CE8701	3	3	3	3	3	3	24/02/2023	CIVIL	7
227019	CE8701	3	3	3	3	3	3	24/02/2023	CIVIL	7
227020	CE8701	3	3	3	3	2	3	24/02/2023	CIVIL	7
227021	CE8701	3	3	2	3	2	3	24/02/2023	CIVIL	7
227022	CE8701	3	3	3	3	2	3	24/02/2023	CIVIL	7
227023	CE8701	3	3	3	2	2	3	24/02/2023	CIVIL	7
227024	CE8701	3	3	3	2	3	3	24/02/2023	CIVIL	7
227025	CE8701	3	3	3	3	3	3	24/02/2023	CIVIL	7
227026	CE8701	3	3	3	2	3	3	24/02/2023	CIVIL	7
227027	CE8701	3	3	3	2	2	3	24/02/2023	CIVIL	7
227028	CE8701	3	3	3	2	2	3	24/02/2023	CIVIL	7
227030	CE8701	3	3	3	3	3	3	24/02/2023	CIVIL	7
227031	CE8701	3	3	3	3	3	3	24/02/2023	CIVIL	7
227032	CE8701	3	3	2	2	3	3	24/02/2023	CIVIL	7
227033	CE8701	3	3	3	2	3	3	24/02/2023	CIVIL	7
227034	CE8701	3	3	3	3	2	3	24/02/2023	CIVIL	7
227035	CE8701	3	3	3	3	3	3	24/02/2023	CIVIL	7
227036	CE8701	3	3	3	2	2	3	24/02/2023	CIVIL	7
227038	CE8701	3	3	2	3	2	3	24/02/2023	CIVIL	7
227039	CE8701	3	3	2	2	3	3	24/02/2023	CIVIL	7
227040	CE8701	3	3	2	3	2	3	24/02/2023	CIVIL	7
227042	CE8701	3	3	2	2	3	3	24/02/2023	CIVIL	7
Attained Level		3.0	3.0	2.63	2.45	2.53	3.0			
%		100.00	100.00	87.67	81.67	84.33	100.00			

Saranathan College of Engineering
Tiruchirappalli-12

FeedBack Report : CIVIL Month&Year: SEP2022 Academic Year :2022-23ODD

S.no	etaffcode	branch /Sem	No. partici pated	Subject Code /Title	(1) Does the faculty come Prepared for the Classes ?	(2) Subject Knowledge and Clarity of the Faculty	(3) Impartiality and Fairness to Students ?	(4) Interaction with Students by the faculty	(5) Valuable/Extra Information given during the Lectures by the faculty	(6) Enthusiasm for Subject ?	(7) Showing Concern and Care for Students?	(8) Punctuality in Evaluation of Exam Papers/ Assignments ?
	Weigtage				15.0	15.0	8.0	12.0	12.0	12.0	4.0	6.0
1	anandraj-ce	CIVIL-A/3	27	CE3301/Fluid Mechanics	12.89	12.44	6.70	9.78	9.69	9.51	3.20	4.89
2	venkatesan-ce	CIVIL-A/3	26	CE3302/Construction Materials And Technology	13.62	13.04	6.95	10.34	9.88	10.06	3.51	5.08
3	kesavaraja-ce	CIVIL-A/3	26	CE3303/Water Supply And Wastewater Engineering	12.23	11.88	6.40	9.32	9.69	9.78	3.23	4.98
4	kannan-ce	CIVIL-A/3	25	CE3351/Surveying And Levelling	12.84	12.60	6.85	10.18	10.27	10.08	3.36	5.14
5	venkatesan-ce	CIVIL-A/5	22	CE8501/Design Of Reinforced Cement Concrete Elements	12.68	12.14	6.62	10.25	9.49	10.04	3.38	5.24
6	sathyaprabha-ce	CIVIL-A/5	21	CE8502/Structural Analysis I	13.43	13.14	6.86	10.29	10.51	10.17	3.62	5.26
7	kannan-ce	CIVIL-A/5	21	CE8591/Foundation Engineering	13.43	13.00	6.78	10.29	10.63	10.51	3.35	5.37
8	kesavaraja-ce	CIVIL-A/5	21	EN8491/Water Supply Engineering	13.00	12.57	6.55	9.37	9.26	9.60	3.20	5.43
9	venkatesan-ce	CIVIL-A/5	21	GE8071/Disaster Management	12.14	11.86	6.40	9.37	9.26	9.71	3.31	4.91
10	sathyaprabha-ce	CIVIL-A/5	22	OAI551/Environment And Agriculture	14.18	13.50	7.27	10.80	11.02	10.80	3.60	5.13
11	belin-ce	CIVIL-A/7	39	CE8701/Estimation, Costing And Valuation Engineering	12.00	11.69	6.32	9.66	9.54	9.48	3.16	4.80
12	anandraj-ce	CIVIL-A/7	40	CE8702/Railways Airports And Harbour Engineering	12.52	12.23	6.48	9.90	9.84	9.90	3.22	4.83
13	sathyaprabha-ce	CIVIL-A/7	39	CE8703/Structural Design Drawing	9.54	9.23	4.96	7.32	7.32	7.51	2.63	3.82
14	sathyaprabha-ce	CIVIL-A/7	40	CE8711/Creative And Innovative Project (Activity Based -Subject Related)	11.02	10.73	5.68	8.58	8.22	8.52	2.78	4.20
15	belin-ce	CIVIL-A/7	39	CE8712/Industrial Training (4 Weeks During Vi Semester ? Summer)	11.46	11.23	6.15	9.11	9.11	8.92	3.04	4.58
16	kesavaraja-ce	CIVIL-A/7	41	EN8591/Municipal Solid Waste Management	10.46	10.68	5.58	8.25	8.25	8.43	2.79	4.01
17	anandraj-ce	CIVIL-A/7	41	OME754/Industrial Safety	12.29	12.51	6.67	9.78	10.01	9.89	3.32	4.98

Saranathan College of Engineering
Tiruchirappalli-12

FeedBack Report : CIVIL Month&Year: NOV2022 Academic Year :2022-23ODD

S.no	etaffcode	branch /Sem	No. partici pated	Subject Code /Title	(1) Does the faculty come Prepared for the Classes ?	(2) Subject Knowledge and Clarity of the Faculty	(3) Impartiality and Fairness to Students ?	(4) Interaction with Students by the faculty	(5) Valuable/Extra Information given during the Lectures by the faculty	(6) Enthusiasm for Subject ?	(7) Showing Concern and Care for Students?	(8) Punctuality in Evaluation of Exam Papers/ Assignments ?
	Weigtage				15.0	15.0	8.0	12.0	12.0	12.0	4.0	6.0
1	anandraj-ce	CIVIL-A/3	25	CE3301/Fluid Mechanics	13.20	13.44	7.04	10.56	10.56	10.85	3.65	5.38
2	venkatesan-ce	CIVIL-A/3	25	CE3302/Construction Materials And Technology	12.36	12.48	6.40	9.60	9.50	9.50	3.17	4.85
3	kesavaraja-ce	CIVIL-A/3	25	CE3303/Water Supply And Wastewater Engineering	12.12	12.24	6.21	9.41	9.70	9.89	3.30	4.80
4	kannan-ce	CIVIL-A/3	24	CE3351/Surveying And Levelling	13.25	13.00	7.13	10.40	10.30	10.20	3.53	5.25
5	venkatesan-ce	CIVIL-A/5	22	CE8501/Design Of Reinforced Cement Concrete Elements	12.27	11.73	6.18	9.60	9.27	9.27	3.27	4.96
6	sathyaprabha-ce	CIVIL-A/5	22	CE8502/Structural Analysis I	12.14	11.73	6.11	9.27	9.16	9.16	3.13	4.58
7	kannan-ce	CIVIL-A/5	26	CE8591/Foundation Engineering	13.04	13.04	6.71	9.78	9.97	9.88	3.32	4.98
8	kesavaraja-ce	CIVIL-A/5	22	EN8491/Water Supply Engineering	12.41	12.14	6.25	9.05	9.16	9.71	3.05	5.02
9	venkatesan-ce	CIVIL-A/5	24	GE8071/Disaster Management	12.50	12.62	6.73	9.40	9.60	9.30	3.13	4.65
10	sathyaprabha-ce	CIVIL-A/5	21	OAI551/Environment And Agriculture	11.57	11.57	6.02	9.37	9.71	9.14	3.09	4.51
11	belin-ce	CIVIL-A/7	29	CE8701/Estimation, Costing And Valuation Engineering	13.14	13.14	6.95	10.34	10.26	10.26	3.45	5.17
12	anandraj-ce	CIVIL-A/7	29	CE8702/Railways Airports And Harbour Engineering	13.24	13.03	6.95	10.34	10.68	10.18	3.45	5.17
13	sathyaprabha-ce	CIVIL-A/7	30	CE8703/Structural Design Drawing	12.10	11.90	6.29	9.44	9.44	9.36	3.31	4.84
14	sathyaprabha-ce	CIVIL-A/7	29	CE8711/Creative And Innovative Project (Activity Based -Subject Related)	12.10	12.10	6.40	9.68	9.68	9.52	3.23	4.80
15	belin-ce	CIVIL-A/7	31	CE8712/Industrial Training (4 Weeks During Vi Semester ? Summer)	12.39	12.39	6.50	9.75	9.75	9.75	3.25	4.88
16	kesavaraja-ce	CIVIL-A/7	30	EN8591/Municipal Solid Waste Management	11.80	11.70	6.24	9.36	9.20	8.96	3.07	4.68
17	anandraj-ce	CIVIL-A/7	29	OME754/Industrial Safety	12.83	12.83	6.73	10.18	10.26	10.10	3.39	5.09

Saranathan College of Engineering
Tiruchirappalli-12

FeedBack Report : CIVIL Month&Year: MARCH2023 Academic Year :2022-23EVEN

S.no	etaffcode	branch /Sem	No. partici pated	Subject Code /Title	(1) Does the faculty come Prepared for the Classes ?	(2) Subject Knowledge and Clarity of the Faculty	(3) Impartiality and Fairness to Students ?	(4) Interaction with Students by the faculty	(5) Valuable/Extra Information given during the Lectures by the faculty	(6) Enthusiasm for Subject ?	(7) Showing Concern and Care for Students?	(8) Punctuality in Evaluation of Exam Papers/ Assignments ?
	Weigtage				15.0	15.0	8.0	12.0	12.0	12.0	4.0	6.0
1	venkatesan-ce	CIVIL-A/2	18	GE3252/Tamils And Technology	10.33	9.50	5.33	7.47	7.87	7.20	2.71	3.67
2	anandraj-ce	CIVIL-A/4	20	CE3401/Applied Hydraulics Engineering	12.75	12.45	6.64	10.20	10.20	10.20	3.40	5.04
3	kannan-ce	CIVIL-A/4	21	CE3402/Strength Of Materials Pcc 3 0 0 3	12.57	12.57	6.70	10.06	10.29	10.29	3.43	5.09
4	sathyaprabha-ce	CIVIL-A/4	20	CE3403/Concrete Technology Pcc 3 0 0 3 3	12.15	12.30	6.48	9.72	9.84	9.72	3.32	5.10
5	venkatesan-ce	CIVIL-A/4	20	CE3404/Soil Mechanics Pcc 3 0 0 3 3	11.70	11.40	5.84	9.00	9.36	9.60	3.24	4.68
6	kesavaraja-ce	CIVIL-A/4	19	CE3405/Highway And Railway Engineering	12.95	12.32	6.74	10.11	9.98	9.98	3.28	4.99
7	belin-ce	CIVIL-A/6	18	CE8601/Design Of Steelstructural Elements	13.50	13.83	7.02	10.53	10.40	10.67	3.47	5.13
8	sathyaprabha-ce	CIVIL-A/6	18	CE8602/Structural Analysis Ii	13.00	12.50	6.22	9.73	10.40	10.27	3.29	4.93
9	venkatesan-ce	CIVIL-A/6	18	CE8603/Irrigation Engineering	12.17	12.00	6.67	9.60	9.60	9.73	3.24	5.20
10	anandraj-ce	CIVIL-A/6	18	CE8604/Highway Engineering	12.33	12.50	6.58	9.47	10.13	9.73	3.11	4.73
11	kannan-ce	CIVIL-A/6	18	EN8592/Wastewater Engineering	13.00	13.67	7.02	10.27	10.27	10.27	3.33	5.27
12	vaishali-ce	CIVIL-A/6	18	TP/Training And Placement	12.83	12.17	6.84	10.00	9.33	10.00	3.24	4.87
13	vaishali-ce	CIVIL-A/8	17	CE8020/Maintenance, Repair And Rehabilitation Of Structures	13.41	13.24	7.15	10.59	10.31	10.16	3.48	5.08
14	vaishali-ce	ICE-A/2	26	BE3255/Basic Civil And Mechanical Engineering	12.81	12.58	6.77	9.97	9.88	9.69	3.20	4.98

Saranathan College of Engineering
Tiruchirappalli-12

FeedBack Report : CIVIL Month&Year: may2023 Academic Year :2022-23EVEN

S.no	etaffcode	branch /Sem	No. partici pated	Subject Code /Title	(1) Does the faculty come Prepared for the Classes ?	(2) Subject Knowledge and Clarity of the Faculty	(3) Impartiality and Fairness to Students ?	(4) Interaction with Students by the faculty	(5) Valuable/Extra Information given during the Lectures by the faculty	(6) Enthusiasm for Subject ?	(7) Showing Concern and Care for Students?	(8) Punctuality in Evaluation of Exam Papers/ Assignments ?
	Weigtage				15.0	15.0	8.0	12.0	12.0	12.0	4.0	6.0
1	venkatesan-ce	CIVIL-A/2	14	GE3252/Tamils And Technology	13.50	13.71	6.51	9.43	10.46	10.63	3.54	5.40
2	anandraj-ce	CIVIL-A/4	23	CE3401/Applied Hydraulics Engineering	13.43	13.30	7.23	10.64	10.43	10.54	3.55	5.22
3	kannan-ce	CIVIL-A/4	23	CE3402/Strength Of Materials Pcc 3 0 0 3	12.91	12.91	6.82	10.02	10.23	10.12	3.41	5.11
4	sathyaprabha-ce	CIVIL-A/4	24	CE3403/Concrete Technology Pcc 3 0 0 3 3	12.62	12.75	6.73	10.20	9.90	9.70	3.37	5.05
5	venkatesan-ce	CIVIL-A/4	23	CE3404/Soil Mechanics Pcc 3 0 0 3 3	12.65	12.91	6.96	10.33	10.54	10.12	3.48	5.32
6	kesavaraja-ce	CIVIL-A/4	23	CE3405/Highway And Railway Engineering	12.00	12.26	6.54	10.02	10.12	10.02	3.27	5.06
7	belin-ce	CIVIL-A/6	21	CE8601/Design Of Steelstructural Elements	13.14	13.00	7.09	10.40	10.40	10.40	3.54	5.20
8	sathyaprabha-ce	CIVIL-A/6	21	CE8602/Structural Analysis Ii	12.14	11.86	6.40	9.94	9.14	9.49	3.20	4.86
9	venkatesan-ce	CIVIL-A/6	21	CE8603/Irrigation Engineering	12.29	12.43	6.78	9.94	9.60	9.94	3.20	5.03
10	anandraj-ce	CIVIL-A/6	21	CE8604/Highway Engineering	12.86	12.29	6.86	10.05	10.40	9.94	3.24	4.97
11	kannan-ce	CIVIL-A/6	22	EN8592/Wastewater Engineering	12.41	12.14	6.33	9.16	9.49	9.16	3.27	4.75
12	vaishali-ce	CIVIL-A/6	22	TP/Training And Placement	12.41	11.86	6.55	9.71	9.71	9.38	3.31	4.75
13	vaishali-ce	CIVIL-A/8	27	CE8020/Maintenance, Repair And Rehabilitation Of Structures	12.67	12.78	6.76	9.96	10.13	9.96	3.35	4.98
14	vaishali-ce	ICE-A/2	9	BE3255/Basic Civil And Mechanical Engineering	12.67	11.33	5.33	8.27	9.33	9.07	3.20	4.53

SARANATHAN COLLEGE OF ENGINEERING, TRICHY-12

Academic Planner for Even Semester(2022-23) - II, III & IV UG

FEB'22	DAY	DETAILS	working days	MAR'22	DAY	DETAILS	working days	APR'22	DAY	DETAILS	working days	MAY'22	DAY	DETAILS	working days
01	WED	Classes commence for IV & VI semester T&P Training for III Year	1	01	WED		21	01	SAT	Holiday		01	MON	May Day Holiday	
02	THU	T&P Training for III Year	2	02	THU	Sports Day	22	02	SUN	Holiday		02	TUE		62
03	FRI	Founder's day T&P Training for III Year	3	03	FRI	College Day	23	03	MON		44	03	WED		63
04	SAT	T&P Training for III Year Holiday		04	SAT	Graduation Day Holiday		04	TUE		45	04	THU		64
05	SUN	Holiday		05	SUN	Holiday		05	WED		46	05	FRI	Naan Mudhalvan	65
06	MON		4	06	MON		24	06	THU		47	06	SAT	Holiday	
07	TUE		5	07	TUE		25	07	FRI	Good Friday Holiday		07	SUN	Holiday	
08	WED		6	08	WED	Womania 2023 Women's Day	26	08	SAT	Holiday		08	MON		66
09	THU		7	09	THU	IA test-1	27	09	SUN	Holiday		09	TUE		67
10	FRI		8	10	FRI	IA test-1	28	10	MON	IA test-2	48	10	WED		68
11	SAT	Holiday		11	SAT	IA test-1	29	11	TUE	IA test-2	49	11	THU		69
12	SUN	Holiday		12	SUN	Holiday		12	WED	IA test-2	50	12	FRI	Naan Mudhalvan	70
13	MON		9	13	MON	IA test-1	30	13	THU	IA test-2	51	13	SAT	Holiday	
14	TUE		10	14	TUE	IA test-1	31	14	FRI	Tamil New Year Day Holiday		14	SUN	Holiday	
15	WED		11	15	WED	IA test-1	32	15	SAT	Holiday		15	MON	IA test-3	71
16	THU		12	16	THU		33	16	SUN	Holiday		16	TUE	IA test-3	72
17	FRI		13	17	FRI		34	17	MON	IA test-2	52	17	WED	IA test-3	73
18	SAT	Holiday		18	SAT	Holiday		18	TUE	IA test-2	53	18	THU	IA test-3	74
19	SUN	Holiday		19	SUN	Holiday		19	WED		54	19	FRI		75
20	MON	Classes commence for VIII semester	14	20	MON	Students Feedback-I	35	20	THU		55	20	SAT	Holiday	
21	TUE		15	21	TUE		36	21	FRI	Naan Mudhalvan	56	21	SUN	Holiday	
22	WED		16	22	WED	Telugu New Year Day Holiday		22	SAT	Holiday		22	MON	IA test-3	76
23	THU		17	23	THU		37	23	SUN	Holiday		23	TUE	IA test-3	77
24	FRI		18	24	FRI	Naan Mudhalvan	38	24	MON	Students Feedback-II	57	24	WED	Syllabus completion	78
25	SAT	Holiday		25	SAT	Holiday		25	TUE		58	25	THU		
26	SUN	Holiday		26	SUN	Holiday		26	WED		59	26	FRI	Commencement of University Practical exams	
27	MON		19	27	MON		39	27	THU	Founder's Memorial day	60	27	SAT		
28	TUE	National Science Day	20	28	TUE		40	28	FRI	Naan Mudhalvan	61	28	SUN		
				29	WED		41	29	SAT	Holiday		29	MON		
				30	THU		42	30	SUN	Holiday		30	TUE		
				31	FRI	Naan Mudhalvan	43					31	WED		
No. of Working days			20				23				15				17
														Total No.of working days for the semester :	78

Prepared by

Ms. N. Bhuvani, Asso Prof IT dept

Dr. R. Senthamil Selvi,Asso Prof CSE Dept

Principal

Scanned with CamScanner

SARANATHAN COLLEGE OF ENGINEERING, TRICHY-12

Department of CSBS

Academic Planner for Even Semester(2022-23) - II Year

FEB'22	DAY	DETAILS	working days	MAR'22	DAY	DETAILS	working days	APR'22	DAY	DETAILS	working days	MAY'22	DAY	DETAILS	working days
01	WED	Classes commence for IV & VI semester T&P Training for III Year	1	01	WED		21	01	SAT	Holiday		01	MON	May Day Holiday	
02	THU	T&P Training for III Year	2	02	THU	Sports Day	22	02	SUN	Holiday		02	TUE		62
03	FRI	Founder's day T&P Training for III Year	3	03	FRI	College Day	23	03	MON		44	03	WED		63
04	SAT	T&P Training for III Year Holiday		04	SAT	Graduation Day Holiday		04	TUE		45	04	THU	IA test-3	64
05	SUN	Holiday		05	SUN	Holiday		05	WED		46	05	FRI	IA test-3	65
06	MON		4	06	MON	Class Commitee meeting I	24	06	THU		47	06	SAT	IA test-3	66
07	TUE		5	07	TUE		25	07	FRI	Good Friday Holiday		07	SUN	Holiday	
08	WED		6	08	WED	Womania 2023 Women's Day	26	08	SAT	Holiday		08	MON	IA test-3	67
09	THU		7	09	THU	IA test-1	27	09	SUN	Holiday		09	TUE	IA test-3	68
10	FRI		8	10	FRI	IA test-1	28	10	MON	IA test-2	48	10	WED	IA test-3	69
11	SAT	Holiday		11	SAT	IA test-1	29	11	TUE	IA test-2	49	11	THU	Class Commitee meeting II	70
12	SUN	Holiday		12	SUN	Holiday		12	WED	IA test-2	50	12	FRI	Syllabus completion	71
13	MON		9	13	MON	IA test-1	30	13	THU	IA test-2	51	13	SAT	Holiday	
14	TUE		10	14	TUE	IA test-1	31	14	FRI	Tamil New Year Day Holiday		14	SUN	Holiday	
15	WED		11	15	WED	IA test-1	32	15	SAT	Holiday		15	MON	Commencement of University Practical exams	
16	THU		12	16	THU		33	16	SUN	Holiday		16	TUE		
17	FRI		13	17	FRI		34	17	MON	IA test-2	52	17	WED		
18	SAT	Holiday		18	SAT	Holiday		18	TUE	IA test-2	53	18	THU		
19	SUN	Holiday		19	SUN	Holiday		19	WED		54	19	FRI		
20	MON		14	20	MON	Students Feedback-I	35	20	THU		55	20	SAT		
21	TUE		15	21	TUE		36	21	FRI		56	21	SUN		
22	WED		16	22	WED	Telugu New Year Day Holiday		22	SAT	Ramzan Holiday		22	MON		
23	THU		17	23	THU		37	23	SUN	Holiday		23	TUE		
24	FRI		18	24	FRI		38	24	MON	Students Feedback-II	57	24	WED		
25	SAT	Holiday		25	SAT	Holiday		25	TUE		58	25	THU		
26	SUN	Holiday		26	SUN	Holiday		26	WED		59	26	FRI	Commencement of University Theory exams	
27	MON		19	27	MON		39	27	THU	Founder's Memorial day	60	27	SAT		
28	TUE		20	28	TUE		40	28	FRI		61	28	SUN		
				29	WED		41	29	SAT	Holiday		29	MON		
				30	THU		42	30	SUN	Holiday		30	TUE		
				31	FRI		43					31	WED		
No. of Working days			20				23				18				10
														Total No.of working days for the semester :	71

HOD/CSBS

Principal

SARANATHAN COLLEGE OF ENGINEERING

Venkateswara Nagar, Panjappur, Tiruchirappalli - 620012

DEPARTMENT OF COMPUTER SCIENCE AND BUSINESS SYSTEMS

WORKLOAD -ALLOCATION FOR THE ACADEMIC YEAR 2022-2023 EVEN SEMESTER

S.NO.	NAME	SUBJECT	SUBJECT CODE	YEAR / SEM	THEORY/LAB	HOURS	TOTAL HOURS
1	S.Venkatasubramanian	Machine Learning	AL3451	II / IV	T	5	6
		Tamils and Technology	GE3252	I / II	T	1	
2	R.MohanKumar	Database Managements Systems	CS3492	II / IV	T	5	8
		Database Managements Systems Lab	CS3481	II / IV	L	3	
3	V.R. Sridevi	Operating Systems Lab(Integrated)	AL3452	II / IV	L	2	10
		Data Structures Design	AD3251	I / II	L	4	
		Data Structures Design Lab	AD3271	I / II	T	4	
4	A.Mohanadevi	Operating Systems	AL3451	II / IV	T	5	12
		Machine Learning Lab	AL3461	II / IV	L	3	
		Data Structures Design Lab	AD3271	I / II	T	4	

Timetable Coordinator

HOD/CSBS 22/1/23

Principal

SARANATHAN COLLEGE OF ENGINEERING

Tiruchirappalli - 620012

DEPARTMENT OF Computer Science & Business Systems

YEAR : 2022-2026(Even) REVIEW OF COURSE FILE AL0453 - DS V Year/IX Sem

S. No.	Details	Status
1.	Vision, Mission, PEOs, POs, PSOs, Blooms taxonomy	✓
2.	Timetable/Workload of the staff	✓
3.	Syllabus signed by staff & HoD	✓
4.	Lecture Schedule signed by staff & HoD	✓
5.	Course Committee meeting circular and minutes	✓
6.	Identification of Curricular gap and Content Beyond the syllabus	✓
7.	Previous AU Question papers	✓
8.	Unit wise Q&A and Objective type questions	✓
9.	Unit wise course material	✓
10.	Assignment question paper with sample answer sheets and mark entry	✓
11.	Tutorial question paper with key and mark entry	—
12.	IA test Q Paper with Key, sample answer papers and mark entry	✓
13.	IA Test- Performance analysis-CAP-evidence-root cause analysis.	
14.	Makeup Test –Q paper-Attendance-marks - sample answer papers	✓
15.	Remedial Test-Q paper-Attendance-marks - sample answer papers	—
16.	AU Web portal entry sheet	✓
17.	Very poor performance in first two tests-action taken- evidence.	—
18.	Absence for two tests-action taken-evidence.	—
19.	Indiscipline of student reported, if any	—
20.	Special class/coaching class/remedial class/attendance-CAP	✓
21.	Conduct of Seminar, Quizzes - proof	✓
22.	Content beyond the syllabus – proof	✓
23.	Course end survey	✓
24.	Internal Assessment sheet	✓
25.	AU question paper with students feedback	✓
26.	Discrepancy of the question paper and correspondence, if any	—
27.	AU result analysis-Details of arrear students.	✓
28.	AU grade sheet	✓
29.	CO – PO & PSO attainment sheet	✓
	Signature of Faculty	
	Signature of HoD	

LESSON PLAN

LESSON PLAN

SUBJECT : ENVIRONMENTAL SCIENCES AND SUSTAINABILITY
SUBJECT CODE : GE 3451 YEAR : II
DEPARTMENT : CHEMISTRY SEMESTER: IV (2022-2023)

UNIT-I: ENVIRONMENT AND BIODIVERSITY

TOPIC	*NO. OF PERIODS*	*REFERENCE*
Definition, scope and importance, need for public awareness	1	Benny Joseph "Environmental Science and Engineering" Tata Mc Graw-Hill, New Delhi, 2006 Gilbert M. Masters "Introduction to Environmental Engineering and Science" 2nd edition, Pearson Education, 2004
Ecosystem and Energy flow, Ecological succession	1	
Types of biodiversity: genetic, species and ecosystem diversity– values of biodiversity	2	
India as a mega-diversity nation – hot-spots of biodiversity	1	
Threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife conflicts	1	
conservation of biodiversity: *in-situ* and *ex-situ*	1	

TOTAL = 7 PERIODS

UNIT-II: ENVIRONMENTAL POLLUTION

TOPIC	*NO. OF PERIODS*	*REFERENCE*
Causes and effects and preventive measures of water pollution	2	Benny Joseph "Environmental Science and Engineering" Tata Mc Graw-Hill, New Delhi, 2006 Gilbert M. Masters "Introduction to Environmental Engineering and Science" 2nd edition, Pearson Education, 2004 R.K. Trivedi, 'Handbook of Environmental Laws, Rules, Guidelines, Compliances and Standards', Vol. I and II, Enviro Media
Causes, effects of soil pollution	1	
Cause, effects and preventive measures of air and noise pollution	2	
Solid management	1	
Hazardous management-Case studies on Occupational Health and Safety Management	2	

System (OHASMS)		
Environment protection	1	
Environment protection acts	1	

TOTAL = 10 PERIODS

UNIT III: RENEWABLE SOURCES OF ENERGY

TOPIC	*NO. OF PERIODS*	*REFERENCE*
Energy management	1	Benny Joseph "Environmental Science and Engineering" Tata Mc Graw-Hill, New Delhi, 2006 Gilbert M. Masters "Introduction to Environmental Engineering and Science" 2nd edition, Pearson Education, 2004
Energy conservation	1	
New energy sources	1	
Need of new sources	1	
Different types of new energy sources-hydrogen energy	1	
Ocean energy sources, Tidal energy conversion	1	
Concept, origin and power plants of geothermal energy	1	

TOTAL = 7 PERIOD

UNIT – IV: SUSTAINABILITY AND MANAGEMENT

TOPIC	*NO. OF PERIODS*	*REFERENCE*
Development, GDP, Sustainability	1	
Concept, needs and challenges-economic, social and aspects of sustainability from unsustainability to sustainability	1	

Millennium development goals, and protocols – Sustainable development goals	1	Allen, D. T. and Shonnard, D. R., Sustainability Engineering: Concepts, Design and Case Studies, Prentice Hall Gilbert M. Masters "Introduction to Environmental Engineering and Science" 2nd edition, Pearson Education, 2004
Targets, indicators, and intervention areas	1	
Climate change- global regional and local environment issues and possible solutions-case studies	1	
Carbon foot print, environment management in industry- A case study	2	

TOTAL = 7 PERIODS

UNIT – V: SUSTAINABILITY PRACTICES

TOPIC	*NO. OF PERIODS*	*REFERENCE*
ISO 14,000 series, materials life cycle assessment, environment impact assessment	1	Allen, D. T. and Shonnard, D. R., Sustainability Engineering: Concepts, Design and Case Studies, Prentice Hall Environment Impact Assessment Guidelines, Notification of Government of India Gilbert M. Masters "Introduction to Environmental Engineering and Science" 2nd edition, Pearson Education, 2004
Sustainable habitat, green buildings ,Green materials, energy efficiency,	1	
Sustainable transport and sustainable energy	1	
Non-conventional energy sources	1	
Continuation of non-conventional energy sources	1	
Energy cycles, carbon cycle, emission and sequestration	1	
Green engineering. Sustainable urbanization Socio-economical and technological change	1	

TOTAL = 7 PERIODS

SARANATHAN COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

DEPARTMENT OF COMPUTER SCIENCE AND BUSINESS SYSTEMS

Assignment – 01			Date of Issue	17-02-2023	Marks	40
Course code	AL3452	Course Title	Operating Systems			
Year	II	Semester/Section	IV/A	Date of Submission	20-02-2023	

1. Explain in detail about Evolutions of Operating Systems. (5)
2. Write short notes on System calls. (5)
3. Explain OS structuring methods in detail. (5)
4. Solve the following CPU Scheduling problems. (10)
   a. Assume the following workload in a system. All the jobs arrive at time 0 in the order given. Draw the Gantt chart, calculate average waiting time and average turn around time for FCFS, SJF, RR(QT=4) and non-pre-emptive priority CPU scheduling.

Jobs	Burst time(ms)	Priority
A	8	2
B	4	1
C	5	4
D	2	2
E	1	3

   b. Consider the following set of processes with the length of the CPU burst time given in milliseconds.
   Draw the Gantt chart, calculate average waiting time and average Turnaround time for this using FCFS, SJF, RR(Q=2) and Priority scheduling algorithms.

Jobs	Burst time(ms)	Priority
P1	8	3
P2	3	1
P3	4	4
P4	2	2
P5	6	5

5. Describe about Inter-process communication. (5)
6. Explain various Multithreading models. (5)
7. Write brief note on Process Scheduling. (5)

Name and Signature of the Faculty In-charge

A. MOHANADEVI

17/2/23

HOD/CSBS

SARANATHAN COLLEGE OF ENGINEERING

PANJAPPUR, TIRUCHIRAPPALLI – 620012

DEPARTMENT OF COMPUTER SCIENCE AND BUSINESS SYSTEMS

ASSIGNMENT 2

2022-23 EVEN

NAME : THEBIGAN.S

BATCH NO : 249060

COURSE CODE : AL3452

COURSE TITLE : OPERATING SYSTEMS

YEAR/SEM/SEC : II nd / 4th / "A"

CONTENT (25)	SUBMISSION (5)	PRESENTATION (10)	TOTAL (40)	STAFF SIGNATURE
25	5	10	40	

Name : Thusigan. B

Batch no : 249060

Dept : CSE, BS

Subject : Operating Systems

IA-2 Assignment

@VAC

J. Bubesh Nivith 11/5/2025

J. BOOBACA MURALITHARAN

1) Classical problem of Synchronization:-

1. The Bounded-Buffer problem

The bounded-buffer problem is commonly used to illustrate the power of synchronization primitives. We present here a general structure of this schema, without committing ourselves to any particular implementation.

We assume that the pool consists of n buffers, each capable of holding one item.

The mutex semaphores provides mutual exclusion for accesses to the buffer pool and is initialized to the value 1. The empty and full semaphores count the number of empty and full buffers. respectively. The semaphore empty is initialized to the value n the semaphore full is initialized to the value 0.

The code for the producer process is

```
do{
produce an item in
nextp
...
wait(empty);
wait(mutex);
...
add nextp to buffer
....
signal(mutex);
signal(full);
} while(1);
```

The code for the consumer process is

```
do{
wait (full);
wait (mutex);
...
remove an item from buffer to next c
...
signal (mutex);
signal (empty);
...
consume the item in next c
...
}while (1);
```

The symmetry between the producer and the customer. We can interpret this code as the producer producing full buffers for the consumer producing empty buffers for the producer.

2. The Readers - Writers Problem:-

A data object (such as a file or record) is to be shared among several concurrent processes. Some of these processes may want only to read the content of the shared object, whereas others may want to update (that is, to read and write) the shared object.

We distinguish between these two types of processes by referring to those processes that are interested in only reading as readers, and to the rest as writers. Obviously, if two readers access the shared data object simultaneously, no adverse effects will result. However, if a writer and some other process (either a reader or a writer) access the shared object simultaneously, chaos may ensue. To ensure that these difficulties do not arise, we require that the writers have

The code for the consumer process is

```
do{
wait(full);
wait(mutex);
...
remove an item from buffer to nextc
...
signal(mutex);
signal(empty);
...
consume the item in nextc
...
}while(1);
```

The symmetry between the producer and the customer. We can interpret this code as the producer producing full buffers for the consumer producing empty buffers for the producer.

2. The Readers-Writers Problem:-

A data object (such as a file or record) is to be shared among several concurrent processes. Some of these processes may want only to read the content of the shared object, whereas others may want to update (that is, to read and write) the shared object.

We distinguish between these two types of processes by referring to those processes that are interested in only reading as readers, and to the rest as writers. Obviously, if two readers access the shared data object simultaneously, no adverse effects will result. However, if a writer and some other process (either a reader or a writer) access the shared object simultaneously, chaos may ensue. To ensure that these difficulties do not arise, we require that the writers have

exclusive access to the shared object. This synchronization problem is referred to as the readers-writer problem. Since it was originally stated, it has been used to test nearly every new synchronization primitive. The readers-writer problem has several variations, all involving priorities. The simplest one, referred to as the first readers-writers problem, requires that no reader will be kept waiting unless a writer has already obtained permission to use the shared object. In other words, no reader should wait for other readers to finish simply because a writer is waiting. The second readers-writers problem requires that, once a writer is ready, that writer performs its write as soon as possible. In other words, if a writer is waiting to access the object, no new readers may start reading.

A solution to either problem may result in starvation. In the first case, writers may starve; in the second case, readers may starve. For this reason, other variants of the problem have been proposed. In this section, we present a solution to the first readers-writers problem.

In the solution to the first reader-writers problem, the reader processes share the following data structures:

```
Semaphores mutex, wrt;
Int readcount;
```

* The semaphores mutex and wrt are initialized to 1; readcount is initialized to 0.

* The semaphore wrt is common to both the reader and writer processes.

* The mutex semaphore is used to ensure mutual exclusion when the variable readcount is updated.

* The readcount variable keeps track of how many processes are currently reading the object.

* The semaphore wrt functions as a mutual-exclusion semaphore for the writers. It is also used by readers who enter or exit while other readers are in their critical sections.

The code for a writer process is

```
do
{
wait(wrt);
...
writing is performed
... signal(wrt);
}while(1);
```

The code for a reader process is

```
do
{
wait(mutex);
readcount++;
if (readcount == 1).
        wait(wrt);
signal(mutex);
...
reading is performed.
...
wait(mutex);
readcount--;
if (readcount == 0)
        signal(wrt);
signal(mutex);
}while(1);
```

* The readcount variable keeps track of how many processes are currently reading the object.

* The semaphore wrt functions as a mutual-exclusion semaphore for the writers. It is also used by readers who enter or exit while other readers are in their critical sections.

The code for a writer process is

```
do
{
wait(wrt);
...
writing is performed
... signal(wrt);
}while(1);
```

The code for a reader process is

```
do
{
wait(mutex);
readcount++;
if (readcount == 1).
        wait(wrt);
signal(mutex);
...
reading is performed.
...
wait(mutex);
readcount--;
if (readcount == 0)
        signal(wrt());
signal(mutex);
}while(1);
```

Note that, if a writer is in the critical section and n readers are waiting, then one reader is queued on wrt, and n-1 readers are queued on mutex. Also observe that, when a writer executes signal(wrt), we may the execution of either the waiting readers or a single waiting writer.

Dining-Philosophers Problem:-

The dining philosophers problem states that K-philosophers seated around a circular table with one chopstick between each pair of philosophers. There is one chopstick between each philosopher. A philosopher may eat if he can pickup the two chopsticks adjacent to him. One chopstick may be picked up by any one of its adjacent followers but not both. This problem involves the allocation of limited resources to a group of processes in a deadlock-free and starvation-free manner.

The structure of philosopher

```
do
{
wait (chopstick [i]);
wait (chopstick [(i+1) % 5]);
...
Eat
...
signal (chopstick [i]);
signal (chopstick [(i+1) % 5]);
...
think...
} while (1);
```

Several possible remedies to the deadlock problem are listed next.

* Allow at most four philosophers to be sitting simultaneously at the table.

* Allow a philosopher to pick up her chopsticks only if both chopsticks are available (to do this, she must pick them up in a critical section).

* Use an asymmetric solution, that is an odd philosopher picks up first her left chopstick and then her right chopstick, whereas an even philosopher picks up her right chopstick and then her left chopstick.

Finally, any satisfactory solution to the dining-philosophers problem must guard against the possibility that one of the philosophers will starve to death.

---

2. Monitors:-

The disadvantage of semaphore is that it is unstructured construct. wait and signal operations can that data that are independent of any specific implimentation of the ADT.

* An abstract data type - or ADT - encapsulates data with a set of functions to operate on that data that are independent of any specific implimentation of the ADT.

* A monitor type is an ADT that includes a set of programmer defined operations that are provided with mutual exclusion within the monitor.

* The monitor type also declares the variables whose values define the state of an instance of that type, along with the bodies of functions that operates on those variables.

Syntax of monitor:-

```
monitor monitor-name
{
//Shared variable declarations
procedure P1(...)(...)
procedure Pn(....){.....}
Initialization code(...){...}
}
}
```

Schematic view of monitor:-

The monitor construct is not sufficiently powerful for modeling some synchronization schemas.

Solution- Additional synchronization mechanism provided by condition variables

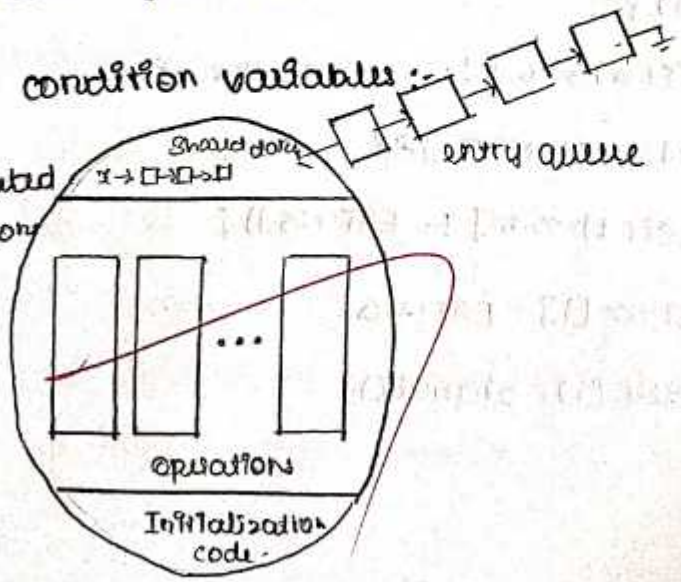
Syntax : condition x,y;

operations invoked on a condition variable are:

1. x.wait() - the process invoking this operation is suspended until another process invokes x.signal()

2. x.signal()- This operation resumes exactly one suspended process. If no process is suspended, then the signal() operation has no effect; that is, the state of x is the same as if the operation had never been executed.

Monitor and condition variables:-



```
initialization_code(){
    for (int i = 0; i<5; i++)
        state[i] = THINKING;
}

pickup(int i){
    state[i] = HUNGRY;
    test(i);
    if (state[i] != EATING)
        self[i].wait();
}

putdown(int i){
    state[i] = THINKING;
    test((i+4)%5);
    test((i+1)%5);
}
```

Resuming process within monitor:-

* If several processes are suspended on condition x, and a x.signal() operation is executed by some process, then how we determine which of the suspended processes should be resumed next?

* For this purpose, the condition wait construct can be

=> x.wait(c);

=> where c is an integer expression that is evaluated when the wait() operation is executed.

Deadlocks:-

* A system consists of a finite number of resources distributed among a number of competing processes.

* The resources may be partitioned into several types (or classes), each consisting of some number of identical instances. CPU cycles, files and I/o devices (such as printers, DVD drives) are examples of resource types. If a system has two CPUs, then the resource type CPU has two instances.

```
initialization_code() {
    for (int i = 0; i < 5; i++)
        state[i] = THINKING;
}

DiningPhilosophers.pickup(i);
        ...
        eat
        ...
DiningPhilosophers.putdown(i);
```

Resuming process within monitors:-

* If several processes are suspended on condition x, and an x.signal() operation is executed by some process, then how do we determine which of the suspended processes should be resumed next?

* For this purpose, the condition wait construct can be used

    => x.wait(c);

    => where c is an integer expression that is evaluated when the wait() operation is executed.

Deadlocks:-

* A system consists of a finite number of resources to be distributed among a number of competing processes.

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Methods for handling Deadlocks : 3 WAYS

Deadlock Prevention : We can use a protocol to prevent or avoid deadlocks, ensuring that the system will never enter deadlocked state.

Deadlock Avoidance :- We can allow the system to enter a deadlocked state, detect it, and recover.

Deadlock Detection :- We can ignore the problem altogether and pretend that deadlocks never occur in the system.

1. Deadlock prevention :

a) Mutual Exclusion :-

i) The mutual exclusion condition must hold. That is, at least one resource must be non-shareable.

b) Hold and wait :-

i) To ensure that the hold-and-wait condition never occur in the system, we must guarantee that, whenever a process request a resources, it does not hold any other resources.

ii) Drawback :-

a) Starvation is possible

c) No premption :-

i) If a process is holding some resources and requests another resource that cannot be immediately allocated to it (that is, the process must wait), then all resources the process is currently holding are preempted.

ii) In other words, these resource are implicitly released.

Deadlock avoidance :-

* Effects of preventing deadlocks by this method, however, are low device utilization and reduced system throughput.

* An alternative method for avoiding deadlocks is to require additional information about how resources are to be requested.

Safe state :-

* A state is safe if the system can allocate resources to each process (up to its maximum) in some order and some avoid a deadlock.

* A system is in a safe state only if there exists a safe sequence.

* A safe state is not a deadlocked state.

Deadlock Detection :-

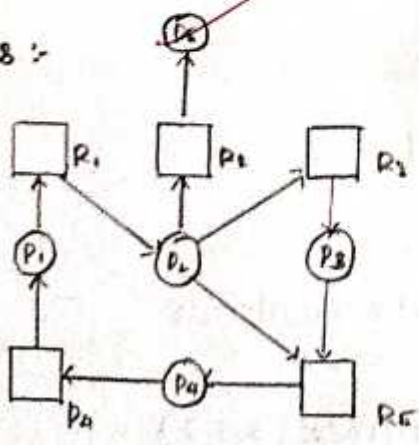
* If a system does not employ either a deadlock-prevention or a deadlock avoidance algorithm, then a deadlock situation may occur.

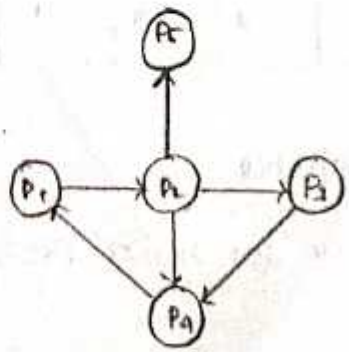
* In this environment, the system may provide :-

* An algorithm that examines the state of the system to determine whether a deadlock has occurred.

* An algorithm to recover from the deadlock.

Examples :-





* As before, a deadlock exists in the system if and only if the wait-for graph contains a cycle.

4. Banker's Algorithm :-

Consider 5 process P0, P1, P2, P3, P4 and 3 RESOURCES A, B, C The instances are 10, 5, 7 respectively Let the snapshot be; at T0:-

Process	Allocation			Max required			Available		
	A	B	C	A	B	C	A	B	C
P0	0	1	0	7	5	3	3	3	2
P1	2	0	0	3	2	2			
P2	3	0	2	9	0	2			
P3	2	1	1	2	2	2			
P4	0	0	2	4	3	3			

Solution :

Total resources = Total of Allocation + Available

= (7, 8, 5) + (3, 3, 2) => (10, 5, 7)

i) content of Need Matrix

Process	A	B	C
P0	7	4	3
P1	1	2	2
P2	6	0	0
P3	0	1	1
P4	4	3	1

ii) Safe Sequence

Check for every process Pi, Need < Available

i) process P0 : Need (7, 4, 3) and available (3, 3, 2)

Check : Need ≤ available

(7,4,3) ≤ (3,3,2) => False

→ Move to next process.

ii) process P_1: Need (1,2,2) and available (3,3,2)

Check: Need ≤ available

(1,2,2) ≤ (3,3,2) => True

→ complete the task and release the allocated resources to available.

∴ Available = Available + Allocation (P_0)

= (3,3,2) + (2,0,0)

new Available = (5,3,2)

iii) process P_2 : Need (6,0,0) and available (5,3,2)

Check : Need ≤ available.

(6,0,0) ≤ (5,3,2) => False

→ Move to next process.

iv) process P_3 : Need (0,1,1) and available (5,3,2)

Check : Need ≤ available

(0,1,1) ≤ (5,3,2) => True

=> complete the state and release the allocated resource to available.

∴ Available = Available + Allocation (P_3)

= (5,3,2) + (2,1,1)

new Available = (7,4,3).

v) process (P_4) :- Need (4,3,1) and available (7,4,3)

Check : Need ≤ available.

(7,3,1) ≤ (7,4,3) => True

=> complete the task and release the allocated resource to available

∴ Available = Available + Allocation (P_0)

= (7,4,3) + (0,0,2)

New Available = (7,4,5)

Iteration - II

i) process P_0: Need (7,4,3) and available (7,4,5)

check : Need ≤ Available

(7,4,3) ≤ (7,4,5) => True

=> complete the task and release the allocated resource to Available.

∴ Available = Available + Allocation (P_0)

= (7,4,5) + (0,1,0)

new Available = (7,5,5)

ii) process (P_2) :- Need (6,0,0) and available (7,5,5)

Check : Need ≤ Available

(6,0,0) ≤ (7,5,5) => True

=> complete the task and release the allocated resource to Available.

∴ Available = Available + Allocation (P_2)

= (7,5,5) + (3,0,2)

= (10,5,7).

Thus the system is in safe state.

Hence the safe sequence is $<P_1, P_3, P_4, P_0, P_2>$.

ii) If process P_1 request (1, 0, 2)

Hence the snapshot is.

process	Allocation			Max Required			Available			Need		
	A	B	C	A	B	C	A	B	C	A	B	C
P_0	0	1	0	7	5	3	2	3	0	7	4	3
P_1	3	0	2	3	2	2				0	2	0
P_2	3	0	2	9	0	2				6	0	0
P_3	2	1	1	2	2	2				0	1	1
P_4	0	0	2	4	3	3				4	3	1

To check for Safe state: find safe sequence

i) process P_0: Need (7, 4, 3) and available (2, 3, 0)

Check : Need ≤ Available

(7, 4, 3) ≤ (2, 3, 0) => False

ii) process P_1 : Need (0, 2, 0) and available (2, 3, 0)

Check : Need ≤ Available

(0, 2, 0) ≤ (2, 3, 0) -> True

=> complete the task and release the allocated resources to available.

Available = Available + Allocation (P_1)

(2, 3, 0) + (3, 0, 2) = (5, 3, 2)

new Available = (5, 3, 2)

iii) process P_2 : Need (6, 0, 0) and available (5, 3, 2)

Check : Need ≤ Available

(6, 0, 0) ≤ (5, 3, 2) => False

iv) process P_3 : Need (0, 1, 1) and Available (5, 3, 2)

Check : Need ≤ Available

(0,1,1) ≤ (5,3,2) => True

=> complete the task and release the allocated resources to Available.

Available = Available + Allocation (P_3)

= (5,3,2) + (2,1,1)

new Available = (7,4,3)

v) process P_4 : Need (4,3,1) and Available (7,4,3)

Check : Need ≤ Available

(4,3,1) ≤ (7,4,3) → True

-> complete the task and release the allocated resources to available.

Available = Available + Allocation (P_4)

= (7,4,3) + (0,2,2)

new Available = (7,4,5).

Situation II :-

i) process P_0 : Need (7,4,3) and available (7,4,3)

Check : Need ≤ Available

(7,4,3) ≤ (7,4,5) = True

=> complete the task and release the allocated resources to

Available = Available + Allocation (P_0)

= (7,4,5) + (0,1,0)

new Available = (7,5,5).

ii) process P_2 : Need (6,0,0) and Available (7,5,5)

Check: Need ≤ Available

(6,2,0) ≤ (7,6,5) => True

Available = Available + Allocation (P_2)

= (7,6,5) + (3,0,2)

= (10,6,7)

The safe sequence is <(P_1, P_3, P_4, P_0, P_2)>

Thus the system remains in safe of state after allocating the resources requested by P1, so the resources can be allocated to P1.

---

5. Paging:-

* Paging is a memory-management scheme.

* This permit the physical-address space of a process to be non-contiguous.

* This also solves the considerable problem of fitting memory-chunks of varying sizes onto the backing-store.

* Traditionally, support for paging has been handled by hardware.

* Recent designs: the hardware & OS are closely integrated.

Structure of the page table:-

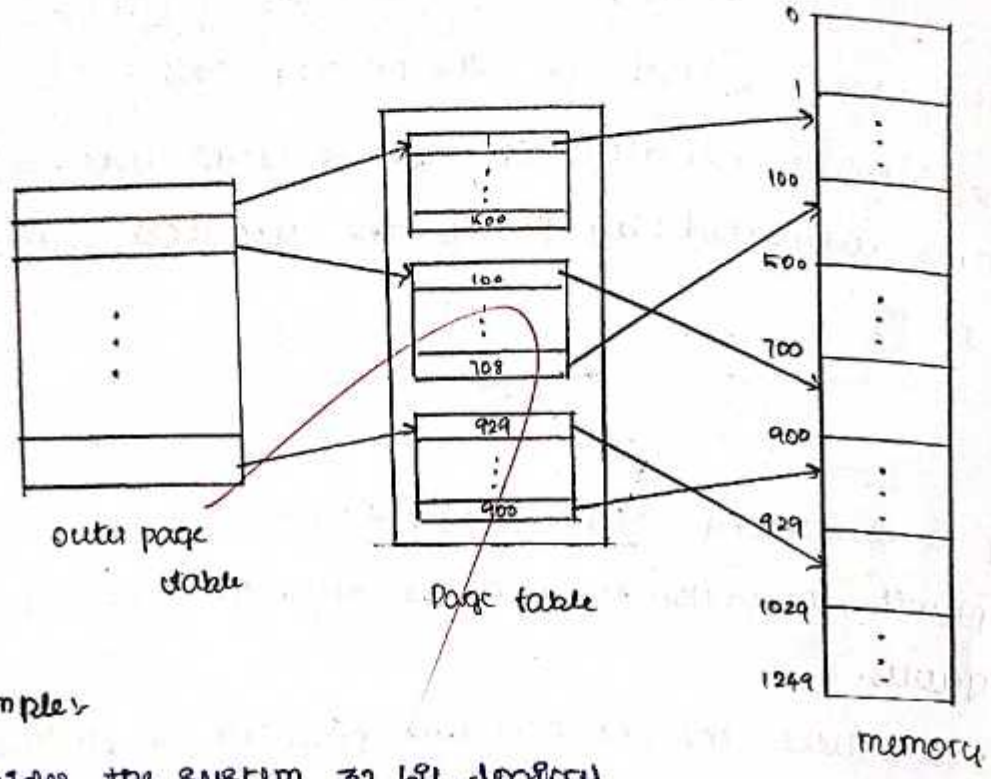
The most common techniques for structuring the page table:-

1. Hierarchical Paging
2. Hashed Page-tables
3. Inverted Page-table.

1. Hierarchical Paging:-

* problem: Most computers supports a large logical address space (232 to 264). In these systems, the page tables itself becomes excessively large.

* Solution: Divide the page table into smaller pieces.



For example:-

Consider, the system 32 bit logical address space and a page-size of 4 kB. A logical address is divided into

-> 20-bit page number and

-> 12-bit page-offset.

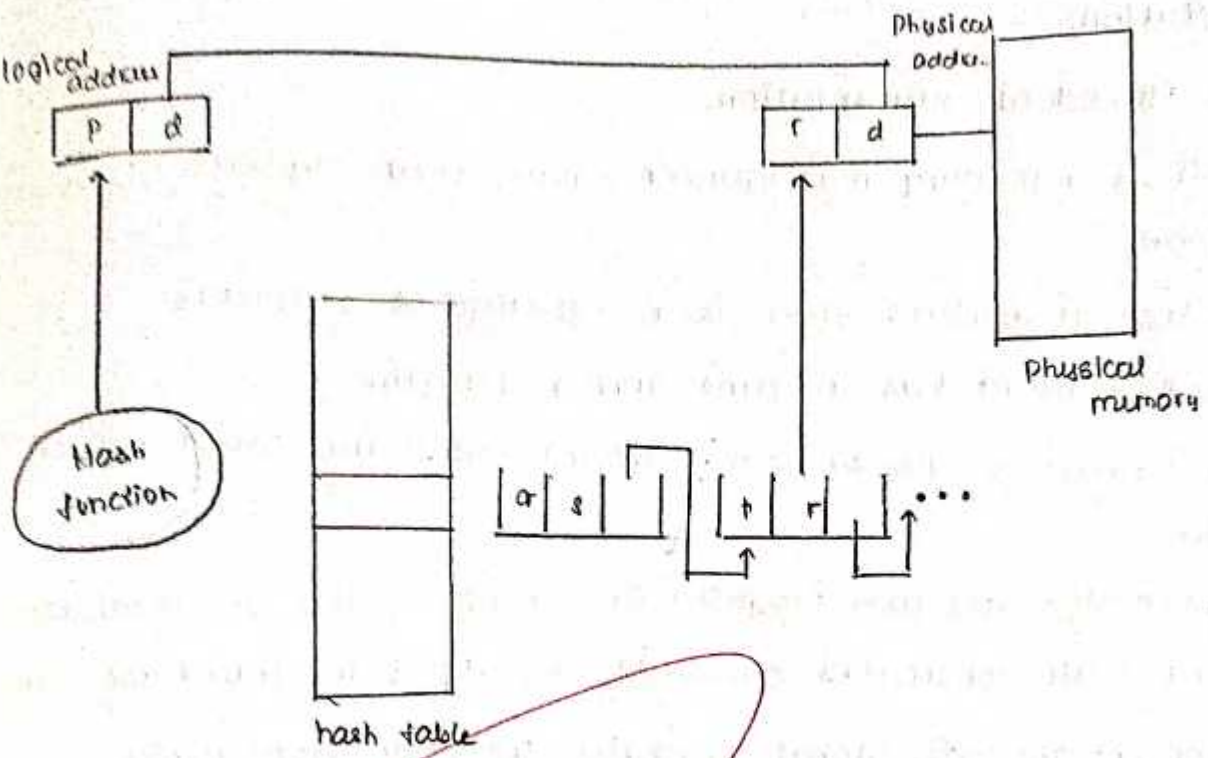
2. Hashed-Page Table:-

* This approach is used for handling address spaces larger than 32-bits.

* The hash-value is the virtual page number.

* Each entry in the hash-table contains a linked-list of elements that hash to the same location (to handle collisions).

* Each element consists of 3 fields:-



3. Inverted Page table:-

* Has one entry for each real page of memory.

* Each entry consists of virtual-address of the page stored in that real memory-location and information about the process that owns the page.

* Each-virtual-address consists of a triplet <process-id, page-number, offset>,

* Each Inverted Page-table entry is a pair <process-id, Page-number>

Advantage:-

Decreases memory needed to store each page-table.

Disadvantage:-

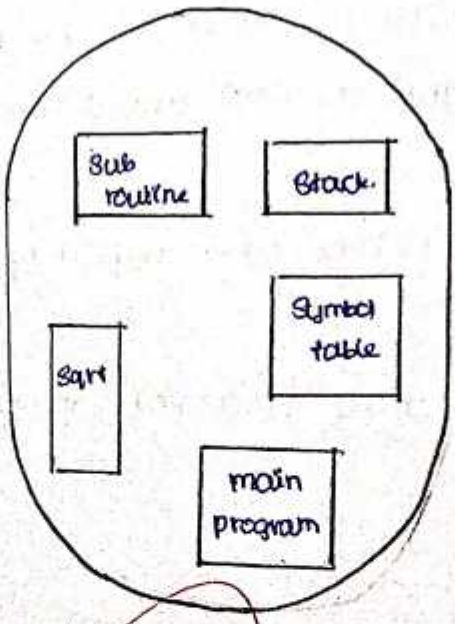
i) Increases amount of time needed to search table when a page reference occurs.

ii) Difficulty implementation shared memory.

8. Segmentation:-

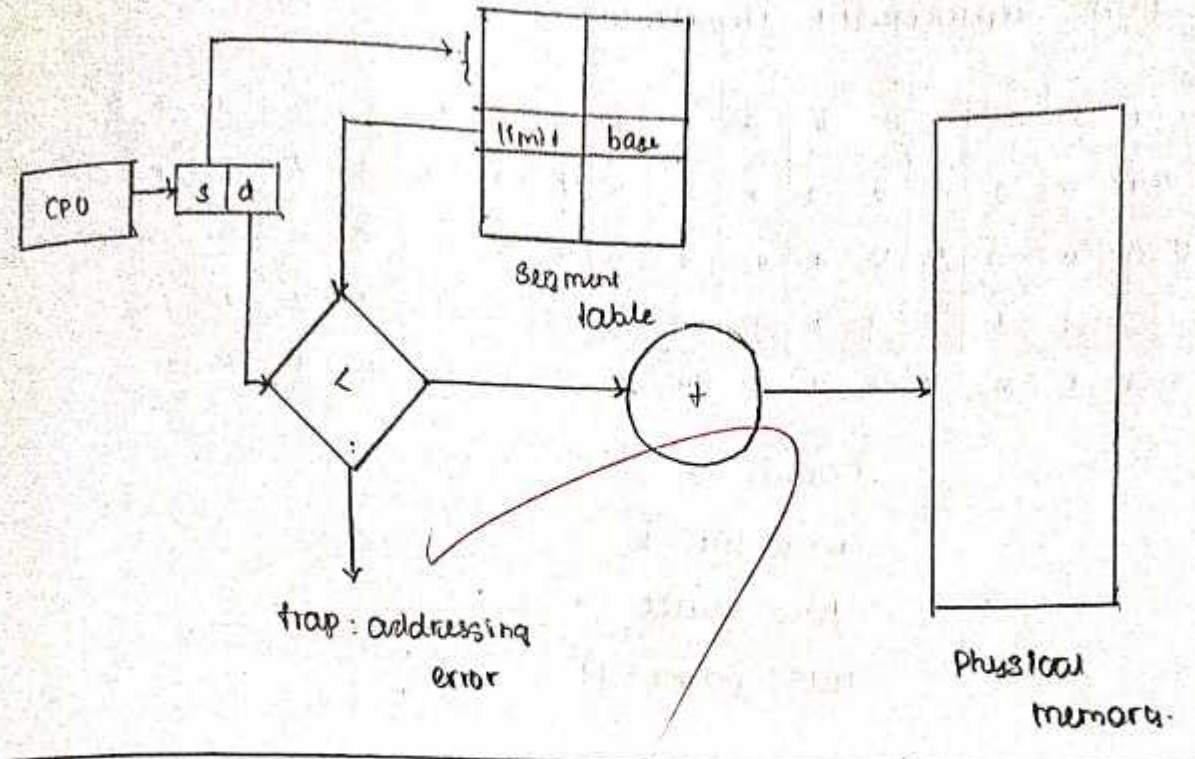
Basic Method of Segmentation:-

* This is a memory management scheme that supports user-view of memory.
* A logical address space is a collection of segments.
* Each segment has a name and a length.
* The address specifies both segment-name and offset within segment.
* Normally, the user-program is compiled, and the compiler automatically constructs segments reflecting the input program.
* For ex: The code, Global Variables, The heap, from which memory is allocated, The stacks used by each thread, The standard C library.



Hardware support for Segmentation:-

* Segment-table map 2-dimensional user-defined addresses into one-dimensional physical addresses.
* If offset is legal, then it is added to the segment-base to produce the physical memory.



Virtual replacement algorithm :-

1) FIFO Page replacement Algorithm
2) Optimal Page replacement Algorithm,
3) Least Recently used algorithm
4) LRU Approximation
   * Second chance algorithms
   * Enhanced second chance algorithms.
5) Counting Based Page replacement algorithms.

FIFO Replacement Algorithm :-

Frames	7	0	1	2	0	3	0	4	2	3	0	3	2	1	2	0	1	7	0
1	7	7	7	2	2	2	2	4	4	4	0	0	0	0	0	0	0	0	7
2		0	0	0	0	3	3	3	2	2	2	2	2	1	1	1	1	1	0
3			1	1	1	1	0	0	0	3	3	3	3	3	2	2	2	2	0
	*	*	*	*	H	*	*	*	*	*	*	H	H	*	*	H	H	*	*

Frames = 3

Hit = 5

miss = 14

Total page : 19.

Optimal page replacement algorithm :-

Frame	7	0	1	2	0	3	0	4	2	3	0	3	2	1	2	0	1	7	0
1	7	7	7	2	2	2	2	2	2	2	2	2	2	2	2	2	2	7	7
2		0	0	0	0	0	0	4	4	4	0	0	0	0	0	0	0	0	0
3			1	1	1	3	3	3	3	3	3	3	3	1	1	1	1	1	1
	F	F	F	F	H	F	H	F	H	H	F	H	H	F	H	H	H	F	H

Frame = 3

Page Hit = 10

Page Fault = 9

Total pages = 19.

LPU page replacement algorithm :-

Frame	7	0	1	2	0	3	0	4	2	3	0	3	2	1	2	0	1	7	0
1	7	7	7	2	2	2	2	4	4	4	0	0	0	1	1	1	1	1	1
2		0	0	0	0	0	0	0	0	3	3	3	3	3	3	0	0	0	0
3			1	1	1	3	3	3	2	2	2	2	2	2	2	2	2	7	7

Frame = 3

Page Hit = 7

Page Fault = 12

Total page = 19.

---

8. The critical-section problem :-

* There are n processes that are competing to use some shared data.

* Each processes has a code segment, called critical section, in which the shared data is accessed.

* In this section, process can change common variables, update tables, write files etc...,

Each process must ask permission to enter critical section in entry section, may follow critical section with exit section, then remainder section

Problem - ensure that when one process is executing in its critical section, no other process is allowed to execute in its critical section.

```
do {
    entry section
        critical section
    exit section
        remainder section
} while (true);
```

1. Mutual Exclusion -

If processes P_i is executing in its critical section then no other processes can be executing in their critical sections.

2. Progress -

If no process is executing in its critical section and there exist some processes that wish to enter their critical section, then the selection of the processes that will enter the critical section next cannot be postponed indefinitely.

3. Bounded Waiting -

A bound must exist on the number of times that other processes are allowed to enter their control critical section after a process has made a request to enter its critical section and before that request is granted.

Solutions to critical section problem:

1. Approaches in OS:-

There are two approaches that are commonly used in operating system to handle critical section preemptive kernel- A preemptive kernel allows a process to be preempted while it is running in kernel mode.

Non-preemptive kernels - A non-preemptive kernel doesn't allows a process running in kernel mode to be preempted.

2. Peterson's Solution.

Peterson's solution is a classic based software solution to the critical-section problem. It is restricted to two processes that alternate execution between their critical sections and remainder sections.

* Good algorithmic description of solving the problem.
* Two process solution
* The two process share two variables.
    * int turn;
    * Boolean flag[2];

* The variable turn indicates whose turn it is to enter the critical section.

* The flag array is used to indicate if a process is ready to enter the critical section.

flag[i] = true implies that process Pi is ready to enter the critical section.

SARANATHAN COLLEGE OF ENGINEERING

PANJAPPUR, TIRUCHIRAPPALLI – 620 012

DEPARTMENT OF MATHEMATICS

Batch: 2022– 2026	Branch: CSBS	AY : 2023– 2024	SEM:II
Date: 19.05.2023	TUTORIAL - 1		
SUBJECT CODE/NAME:MA3251/ STATISTICS AND NUMERICAL METHODS			
UNIT – III: Solution of Equation and Eigen value Problems			

1. Use Newton-Raphson method to find a real root of the equation $x^4 - x = 10$ correct to four decimal places.

2. Find the real roots of the equation $cosx = 3x - 1$ correct to 4 decimal places by iteration method.

3. Solve the equation by Gauss Elimination method $2y - 3z = -5, x + 4y - 7z = -8, 2x - y - z = -4, x + y + z = 6$.

4. Solve the equations by Gauss Jordan method $x - y + z = 1, -3x + 2y - 3z = -6, 2x - 5y + 4z = 5$.

SCE

SARANATHAN COLLEGE OF ENGINEERING

PANJAPPUR, TIRUCHIRAPPALLI – 620 012

DEPARTMENT OF MATHEMATICS

Batch: 2022– 2026	Branch: CSBS	AY : 2023– 2024	SEM:II
Date: 23.06.2023	TUTORIAL - 2		
SUBJECT CODE/NAME:MA3251/ STATISTICS AND NUMERICAL METHODS			
UNIT – IV: Interpolation ,Numerical differentiation and numerical Integration			

1. Evaluate $\int_0^{\frac{\pi}{2}} \int_0^{\frac{\pi}{2}} \sin(x+y)\, dxdy$ using Simpon's rule taking $h = k = \pi/4$ compare with the actual value

2. Evaluate $\int_2^{2.4} \int_4^{4.4} xy\, dxdy$ using Simpson rule, given $h = k = 0.1$
3. Evaluate $\int_0^1 \int_0^1 e^{x+y}\, dxdy$ using Trapezoidal rule and Simpson's Rule

SCE

SARANATHAN COLLEGE OF ENGINEERING

PANJAPPUR, TIRUCHIRAPPALLI – 620 012

DEPARTMENT OF MATHEMATICS

Batch: 2022– 2026	Branch: CSBS	AY : 2023– 2024	SEM:II
Date: 14.07.2023	TUTORIAL - 3		
SUBJECT CODE/NAME:MA3251/ STATISTICS AND NUMERICAL METHODS			
UNIT – I: Testing of Hypothesis			

1. A Sample analysis of examination results of 500 students was made. It was found the 220 students have failed,170 secured a 3rd class,90 secured a 2nd class and the rest a 1st class. Do these figures support the general belief that the above categories are in the ratio 4:3:2:1

2.Fit a poisson distribution to the following data and test the goodness of fit

x	0	1	2	3	4	5	6
f	275	72	30	7	5	2	1

SCE

Sem Period : 22-23EVEN Subject Code : AL3461 Faculty name : mohanadevi-csbs

Date Order Descending

S.no	Date	Branch	Sem	Sec	Day-order	Period	Topic	Absentees
1	22/05/2023	CSBS	4	A	1	4	Revision Lab	249026 , 249028 - [2]
2	22/05/2023	CSBS	4	A	1	3	Revision Lab	249026 , 249028 - [2]
3	17/05/2023	CSBS	4	A	3	8	Revision lab	249036 - [1]
4	17/05/2023	CSBS	4	A	3	7	Revision lab	249036 - [1]
5	17/05/2023	CSBS	4	A	3	6	Revision lab	249029 - [1]
6	15/05/2023	CSBS	4	A	1	4	Practice lab	249026 , 249011 - [2]
7	15/05/2023	CSBS	4	A	1	3	Practice lab	249026 , 249011 - [2]
8	10/05/2023	CSBS	4	A	3	8	ML Model lab exam	249036 - [1]
9	10/05/2023	CSBS	4	A	3	7	ML Model lab exam	249036 - [1]
10	10/05/2023	CSBS	4	A	3	6	ML Model lab exam	249036 - [1]
11	03/05/2023	CSBS	4	A	3	8	Classification Algorithms	249035 , 249036 , 249042 , 249043 , 249044 , 249051 , 249057 - [7]
12	03/05/2023	CSBS	4	A	3	7	Classification Algorithms	249035 , 249036 , 249042 , 249043 , 249044 , 249051 , 249057 - [7]
13	03/05/2023	CSBS	4	A	3	6	Classification Algorithms	249035 , 249036 , 249042 , 249043 , 249044 , 249051 , 249057 - [7]
14	26/04/2023	CSBS	4	A	3	8	clustering algorithm comparison	249035 , 249046 , 249051 , 249053 - [4]
15	26/04/2023	CSBS	4	A	3	7	clustering algorithm comparison	249035 , 249046 , 249051 , 249053 - [4]
16	26/04/2023	CSBS	4	A	3	6	clustering algorithm comparison	249035 , 249046 , 249051 , 249053 - [4]
17	24/04/2023	CSBS	4	A	1	4	clustering algorithm comparison	249035 , 249014 - [2]
18	24/04/2023	CSBS	4	A	1	3	clustering algorithm comparison	249029 , 249014 - [2]
19	24/04/2023	CSBS	4	A	1	2	clustering algorithm comparison	249029 , 249014 - [2]
20	20/04/2023	CSBS	4	A	4	8	K means classification algorithm prediction	249036 - [1]
21	20/04/2023	CSBS	4	A	4	7	K means classification algorithm prediction	249036 - [1]
22	17/04/2023	CSBS	4	A	1	4	K means classification algorithm prediction	- [0]
23	17/04/2023	CSBS	4	A	1	3	K means classification algorithm prediction	- [0]
24	12/04/2023	CSBS	4	A	3	8	Comparison of EM and Kmeans clustering	- [0]
25	12/04/2023	CSBS	4	A	3	7	Comparison of EM and Kmeans clustering	- [0]
26	12/04/2023	CSBS	4	A	3	6	Comparison of EM and Kmeans clustering	- [0]
27	10/04/2023	CSBS	4	A	1	4	Comparison of EM and Kmeans clustering algorithms	- [0]
28	10/04/2023	CSBS	4	A	1	3	Comparison of EM and Kmeans clustering algorithms	- [0]
29	05/04/2023	CSBS	4	A	3	8	bayesian network	249047 - [1]
30	05/04/2023	CSBS	4	A	3	7	bayesian network	249047 - [1]
31	05/04/2023	CSBS	4	A	3	6	bayesian network	249047 - [1]
32	03/04/2023	CSBS	4	A	1	4	Bayesian network(Medical data)	249037 , 249023 , 249031 , 249032 - [4]
33	03/04/2023	CSBS	4	A	1	3	Bayesian network(Medical data)	249037 , 249023 , 249031 , 249032 - [4]
34	03/04/2023	CSBS	4	A	1	2	Bayesian network(Medical data)	249037 , 249023 , 249031 , 249032 - [4]
35	29/03/2023	CSBS	4	A	3	8	Naive Bayesian Classifier(text classification)	249024 , 249030 , 249037 , 249038 , 249039 - [5]
36	29/03/2023	CSBS	4	A	3	7	Naive Bayesian Classifier(text classification)	249034 , 249035 , 249037 , 249038 , 249039 - [5]
37	29/03/2023	CSBS	4	A	3	6	Naive Bayesian Classifier(text classification)	249034 , 249035 , 249037 , 249038 , 249039 - [5]
38	27/03/2023	CSBS	4	A	1	4	Naive Bayesian Classifier(text classification)	249005 , 249008 , 249020 , 249024 , 249031 , 249050 , 249051 , 249056 , 249062 - [9]
39	27/03/2023	CSBS	4	A	1	3	Naive Bayesian Classifier(text classification)	249005 , 249008 , 249020 , 249024 , 249031 , 249050 , 249051 , 249056 , 249062 - [9]
40	27/03/2023	CSBS	4	A	1	2	Naive Bayesian Classifier(text classification)	249005 , 249008 , 249020 , 249024 , 249031 , 249050 , 249051 , 249056 , 249062 - [9]
41	20/03/2023	CSBS	4	A	1	4	linear regression algorithm	249001 , 249003 , 249005 , 249009 , 249010 , 249013 - [6]
42	20/03/2023	CSBS	4	A	1	3	linear regression algorithm	249001 , 249003 , 249005 , 249009 , 249010 , 249013 - [6]
43	20/03/2023	CSBS	4	A	1	2	linear regression algorithm	249001 , 249003 , 249005 , 249009 , 249010 , 249013 - [6]

HOD/CSBS

42	20/03/2023	CSBS	4	A	1	3	linear regression algorithm	249001 , 249003 , 249007 , 249009 , 249010 , 249013 - [6]
43	20/03/2023	CSBS	4	A	1	2	linear regression algorithm	249001 , 249003 , 249007 , 249009 , 249010 , 249013 - [6]
44	15/03/2023	CSBS	4	A	3	6	Naive Bayesian Classifier	249035 , 249053 - [2]
45	15/03/2023	CSBS	4	A	3	7	Naive Bayesian Classifier	249035 , 249053 - [2]
46	15/03/2023	CSBS	4	A	3	5	Naive Bayesian Classifier	249035 , 249053 - [2]
47	15/03/2023	CSBS	4	A	3	4	Naive Bayesian Classifier	- [0]
48	15/03/2023	CSBS	4	A	3	3	Naive Bayesian Classifier	249035 , 249053 - [2]
49	15/03/2023	CSBS	4	A	3	2	Naive Bayesian Classifier	- [0]
50	13/03/2023	CSBS	4	A	1	4	Naive Bayesian Classifier	249013 , 249030 - [2]
51	13/03/2023	CSBS	4	A	1	3	Naive Bayesian Classifier	249013 , 249030 - [2]
52	11/03/2023	CSBS	4	A	3	8	Artificial Neural Network by back propagation	- [0]
53	11/03/2023	CSBS	4	A	3	7	Artificial Neural Network by back propagation	- [0]
54	11/03/2023	CSBS	4	A	3	6	Artificial Neural Network by back propagation	- [0]
55	06/03/2023	CSBS	4	A	1	4	Artificial Neural Network by back propagation	249005 , 249008 , 249011 , 249016 , 249028 , 249030 - [6]
56	06/03/2023	CSBS	4	A	1	3	Artificial Neural Network by back propagation	249005 , 249008 , 249011 , 249016 , 249028 , 249030 - [6]
57	06/03/2023	CSBS	4	A	1	2	Artificial Neural Network by back propagation	249005 , 249008 , 249011 , 249016 , 249028 , 249030 - [6]
58	01/03/2023	CSBS	4	A	3	8	Find-S Algorithm	249037 , 249042 , 249047 , 249049 , 249050 , 249052 , 249055 , 249060 , 249064 - [9]
59	01/03/2023	CSBS	4	A	3	7	Find-S Algorithm	249037 , 249042 , 249047 , 249049 , 249050 , 249052 , 249055 , 249060 , 249064 - [9]
60	01/03/2023	CSBS	4	A	3	6	Find-S Algorithm	249037 , 249042 , 249047 , 249049 , 249050 , 249052 , 249055 , 249060 , 249064 - [9]
61	27/02/2023	CSBS	4	A	1	4	Find-S Algorithm	249011 , 249023 - [2]
62	27/02/2023	CSBS	4	A	1	3	Find-S Algorithm	249011 , 249023 - [2]
63	27/02/2023	CSBS	4	A	1	2	Find-S Algorithm	249011 , 249023 - [2]
64	20/02/2023	CSBS	4	A	1	4	Decision Tree based on ID3 algorithm	249004 , 249009 , 249011 , 249025 - [4]
65	20/02/2023	CSBS	4	A	1	3	Decision Tree based on ID3 algorithm	249004 , 249009 , 249011 , 249025 - [4]
66	20/02/2023	CSBS	4	A	1	2	Decision Tree based on ID3 algorithm	249004 , 249009 , 249011 , 249025 - [4]
67	13/02/2023	CSBS	4	A	1	4	Candidate Elimination Algorithm	249003 , 249009 , 249024 - [3]
68	13/02/2023	CSBS	4	A	1	3	Candidate Elimination Algorithm	249003 , 249009 , 249024 - [3]
69	13/02/2023	CSBS	4	A	1	2	Candidate Elimination Algorithm	249003 , 249009 , 249024 - [3]
70	08/02/2023	CSBS	4	A	3	6	Basics of Pandas and Numpy	249043 , 249050 , 249053 , 249060 , 249061 - [5]
71	08/02/2023	CSBS	4	A	3	7	Basics of Pandas and Numpy	249043 , 249050 , 249053 , 249060 , 249061 - [5]
72	08/02/2023	CSBS	4	A	3	5	Basics of Pandas and Numpy	249043 , 249050 , 249053 , 249060 , 249061 - [5]
73	06/02/2023	CSBS	4	A	1	4	Basics of Pandas and Numpy	249008 , 249020 - [2]
74	06/02/2023	CSBS	4	A	1	3	Basics of Pandas and Numpy	249008 , 249020 - [2]
75	06/02/2023	CSBS	4	A	1	2	Basics of Pandas and Numpy	249008 , 249020 - [2]

HOD/CSBS

SARANATHAN COLLEGEOF ENGINEERING

TIRUCHIRAPALLI-620 012.

Date: 27. 05. 2023

Ref:SCE/Syllabus/ Theory/

STATEMENT FOR SYLLABUS COMPLETION 2022-23 EVEN SEMESTER

I have handled the subject Introduction to Business Systems, code CW3401 for CSBS - II year, 4th semester, department of CSBS B.Tech duringthe academicyear 2022– 23, even semester.

In this regard, Iconfirm, that I have taught all the topics mentioned in the syllabus, and took lectures for 48 periods, revised syllabus for 5 periods and discussed the Anna University Examination question papers of the last years / question bank question(for fresh subject in R2021 curriculum).

Signature : 27/05/23

Name : S. SARAVANAN

Designation : ASSISTANT PROFESSOR

Department : MANAGEMENT STUDIES

Date : 27. 05. 2023.

Signatureof HoD: 27/05/23

Principal :

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPALLI - 620 012.

Ref : SCE/Syllabus/Laboratory/

Date: 29/05/23

STATEMENT FOR LABORATORY EXPERIMENT COMPLETION

I hereby affirm that all the experiments listed in the next page, have been actually performed by the students as part of the prescribed course work by Anna University (mention details). In cases where the experiments could not be conducted, the same has been listed separately with reasons.

I confirm that the experiments were done by me in the beginning of this semester, and the readings were recorded.

I confirm that the students submitted the laboratory record of the experiments performed by them, and that I have also corrected them every week and awarded appropriate marks. I also confirm that the completed laboratory record was submitted by each student.

CS3481 - DBMS LAB

Signature : 29/5/23

Name : R. MOHAN KUMAR

Designation : ASSISTANT PROFESSOR

Department : CSBS

Signature of HoD :

Principal :

Note: List of the students who have not got bonafide, if any, to be enclosed.

CS3481 DATABASE MANAGEMENT SYSTEMS LABORATORY

SYLLABUS

LIST OF EXPERIMENTS:

1. Create a database table, add constraints (primary key, unique, check, Not null), insert rows, update and delete rows using SQL DDL and DML commands.
2. Create a set of tables, add foreign key constraints and incorporate referential integrity.
3. Query the database tables using different 'where' clause conditions and also implement aggregate functions.
4. Query the database tables and explore sub queries and simple join operations.
5. Query the database tables and explore natural, equi and outer joins.
6. Write user defined functions and stored procedures in SQL.
7. Execute complex transactions and realize DCL and TCL commands.
8. Write SQL Triggers for insert, delete, and update operations in a database table.
9. Create View and index for database tables with a large number of records.
10. Create an XML database and validate it using XML schema.
11. Create Document, column and graph based data using NOSQL database tools.
12. Develop a simple GUI based database application and incorporate all the above-mentioned features
13. Case Study using any of the real life database applications from the following list
    a) Inventory Management for aEMart Grocery Shop
    b) Society Financial Management
    c) Cop Friendly App – Eseva
    d) Property Management – eMall
    e) Star Small and Medium Banking and Finance

- Build Entity Model diagram. The diagram should align with the business and functional goals stated in the application.
- Apply Normalization rules in designing the tables in scope.
- Prepared applicable views, triggers (for auditing purposes), functions for enabling enterprise grade features.
- Build PL SQL / Stored Procedures for Complex Functionalities, ex EOD Batch Processing for calculating the EMI for Gold Loan for each eligible Customer.
- Ability to showcase ACID Properties with sample queries with appropriate settings

List of Equipments:(30 Students per Batch) MYSQL / SQL : 30 Users

TOTAL: 45 PERIODS

Saranathan College of Engineering
QAC - Audit Report
Academic Year :

Year/ Sem/Sec	I / II													Sem: ODD/ EVEN				
														Dept	CSBS			
			Test I					Test II						Test III				
Subject Code	Name of faculty		No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %		No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %
AD3251	Ms. Bhavani - IT	IA Test	62	59	3	22	60	62	59	3	25	55		62	56	6	8	68
		Make up Test	25	24	1	15	36	28	27	1	8	68						
		Remarks	Students have not prepared well due to lack of time for Retest.					Students were not able to remember all the algorithms						Students did not prepare well for the test				
BE3251	Mr. Sridhar - EEE	IA Test	62	58	4	46	19	62	60	2	35	40		62	54	8	32	35
		Make up Test	50	43	7	33	20	37	35	2	21	39						
		Remarks	Students didn't prepare well					Need writing practice						Students did not prepare well.				
GE3251	Dr. Mercyraman - Mech	IA Test	62	60	2	20	65	62	60	2	27	53						
		Make up Test	22	22	-	14	36	29	24	5	13	38						
		Remarks	They have not prepared well					need to improve presentation.										
Signature of QAC members with name			[S. SANDRA]					[S. SANDRA]						[S. SANDRA]				
Signature of HOD																		
QAC In-Charge			S.A.					S.A.						S.A.				
IQAC Co-ordinator																		
Principal																		

Saranathan College of Engineering
QAC - Audit Report
Academic Year :

Sem: ODD/ EVEN

Dept: CSBS

Year/ Sem/Sec	I / II																	
			Test I					Test II					Test III					
Subject Code	Name of faculty		No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	
HS3251	Mr. Sri Ram - English	IA Test	62	62	0	12	81	62	60	2	32	61						
		Make up Test	12	12	0	0	100	24	22	2	2	83						
		Remarks	—					—										
MA3251	Dr. Revathi - Maths	IA Test	62	58	4	15	69	62	60	2	14	74	62	57	5	42	24	
		Make up Test	19	17	2	9	42	16	15	1	5	63						
		Remarks	They made careless mistakes both in part A&B					—					Lazy to write and made careless mistakes.					
PH3256	Dr. Karthikeyan Physics	IA Test	62	62	0	39	37	62	59	3	34	40	62	58	4	37	34	
		Make up Test	39	36	3	19	44	37	34	3	26	22						
		Remarks	Students did not prepare well					Students did not prepare well					Students did not Concentrate in They solved					
Signature of QAC members with name			S. SANDRA					S. SANDRA					S. SANDRA					
Signature of HOD																		
QAC In-Charge																		
IQAC Co-ordinator																		
Principal																		

SARANATHAN COLLEGE OF ENGINEERING
TIRUCHIRAPPALLI – 12
QAC – QUALITY ASSESSMENT CELL
ACADEMIC YEAR: 2021-2022 EVEN SEMESTER

NAME OF THE DEPARTMENT CSBS			DETAILS OF EXAMINATION IA TEST : I		Makeup Test : I
Sl.No	**Subject Code**	**List of Batch Nos Verified**	**Subject Log book Verified [Y/N]**	**Assignments Verified [Y/N]**	**Remarks**
YEAR/SEM/SEC :					
		IA Test	**Makeup Test**		
1	BE3251.	249049, 05, 58	249007, 09, 10	Y	Y
2	AD3251	249041, 06, 02.	249035, 14, 23	Y	Y
3	GE3251	249044, 53, 39	249028, 21, 22	Y	Y
4	HS3251	249030, 42, 58	249042, 1, 33	Y	Y
5	MA3151	249001, 45, 59	249020, 22, 40	Y	Y
6	PH3256	249012, 29, 54	249005, 04, 18	Y	Y

VERIFIED BY

1

2

SIGNATURE WITH DATE OF THE QAC MEMBERS

SARANATHAN COLLEGE OF ENGINEERING
TIRUCHIRAPPALLI – 12
QAC – QUALITY ASSESSMENT CELL
ACADEMIC YEAR: 2021-2022 EVEN SEMESTER

NAME OF THE DEPARTMENT	CSBS	DETAILS OF EXAMINATION	IA TEST : II	Makeup Test : II

Sl.No	Subject Code	List of Batch Nos Verified			Subject Log book Verified [Y/N]	Assignments Verified [Y/N]	Remarks
YEAR/SEM/SEC :							
		IA Test	Makeup Test				
1	AD3251	249001,031,023	249039,40,43		✓		
2	BE3251	249009, 44, 53	249026, 29, 05		✓		
3	GE3251	249002, 19, 58	249028, 30, 54		✓		
4	HS3251	249001, 02, 03	249006, 28, 14		✓		
5	MA3151	249009, 02, 13	249014, 35, 34		✓		
6	PH3256	249012, 11, 06	249012, 01, 035		✓		

VERIFIED BY

1

2

SIGNATURE WITH DATE OF THE QAC MEMBERS

SARANATHAN COLLEGE OF ENGINEERING
TIRUCHIRAPPALLI – 12
QAC – QUALITY ASSESSMENT CELL
ACADEMIC YEAR: 2018-2019 EVEN SEMESTER

NAME OF THE DEPARTMENT	CSBS	DETAILS OF EXAMINATION	IA TEST : III	Makeup Test : —

Sl.No	Subject Code	List of Batch Nos Verified	Subject Log book Verified [Y/N]	Assignments Verified [Y/N]	Remarks
YEAR/SEM/SEC :					
		IA Test	Makeup Test		
1	AD3251	249001, 249002, 03	—	✓	
2	BE3251	249044, 16, 18	—	✓	
3	GE3251	—	—	—	
4	HS3251	—	—	—	
5	MA3251	249010, 58, 59	—	✓	
6	PH3256	249001, 16, 29	—	✓	

VERIFIED BY

1

2

SIGNATURE WITH DATE OF THE QAC MEMBERS

FeedBack Report : CSBS Month&Year: may2023 Academic Year :2022-23EVEN

S.no	staffcode	branch /Sem	No. partici pated	Subject Code /Title	(1) Does the faculty come Prepared for the Classes ?	(2) Subject Knowledge and Clarity of the Faculty	(3) Impartiality and Fairness to Students ?	(4) Interaction with Students by the faculty	(5) Valuable/Extra Information given during the Lectures by the faculty	(6) Enthusiasm for Subject ?	(7) Showing Concern and Care for Students?	(8) Punctuality in Evaluation of Exam Papers/ Assignments ?	(9) Whether Syllabus for IA Tests/ University Examination Completed steadily?	(10) Ability to Speak Loudly and Clearly	Total Out of
	Weigtage				**15.0**	**15.0**	**8.0**	**12.0**	**12.0**	**12.0**	**4.0**	**6.0**	**8.0**	**8.0**	**100**
1	mohanadevi-csbs	CSBS-A/2	50	AD3251/Data Structure Design	10.92	10.50	5.57	8.16	8.26	8.78	2.77	4.39	5.98	5.89	71.22
2	veeyes	CSBS-A/2	46	GE3252/Tamils And Technology	11.15	11.15	5.81	8.87	8.71	8.97	2.97	4.38	5.91	6.05	73.99
3	veeyes	CSBS-A/4	49	AL3451/Machine Learning	12.31	12.12	6.27	9.55	9.55	9.36	3.20	4.85	6.37	6.47	80.04
4	mohanadevi-csbs	CSBS-A/4	50	AL3452/Operating Systems	11.10	10.92	5.95	9.02	8.88	8.83	3.04	4.44	5.89	5.73	73.80
5	mohankumar-cse	CSBS-A/4	52	CS3492/Database Management Systems	12.52	12.29	6.43	9.55	9.74	9.74	3.25	4.82	6.62	6.58	81.54

SARANATHAN COLLEGE OF ENGINEERING, TRICHY-12

Academic Planner for 2022 - 23 Odd Semester - II, III, IV YEAR UG

AUG'22	DAY	DETAILS	Day order	working days	SEP'22	DAY	DETAILS	Day order	working days	OCT'22	DAY	DETAILS	Day order	working days	NOV'22	DAY	DETAILS	Day order	working days	DEC'22	DAY	DETAILS	Day order	working days
01	MON				01	THU		IV	11	01	SAT	Holiday			01	TUE		II	55	01	THU	Univ. Theory Exam commences		
02	TUE				02	FRI		V	12	02	SUN	Gandhi Jayanthi Holiday			02	WED		III	56	02	FRI			
03	WED				03	SAT		II	13	03	MON	Holiday			03	THU		IV	57	03	SAT	Holiday		
04	THU				04	SUN	Holiday			04	TUE	Ayudha Pooja Holiday			04	FRI		V	58	04	SUN	Holiday		
05	FRI				05	MON	Teacher's Day	I	14	05	WED	Vijayadhasami Holiday			05	SAT	Holiday			05	MON			
06	SAT	Holiday			06	TUE		II	15	06	THU		IV	36	06	SUN	Holiday			06	TUE			
07	SUN	Holiday			07	WED		III	16	07	FRI		V	37	07	MON		I	59	07	WED	Flag Day		
08	MON				08	THU		IV	17	08	SAT		I	38	08	TUE		II	60	08	THU			
09	TUE				09	FRI		V	18	09	SUN	Milad-un-Nabi Holiday			09	WED		III	61	09	FRI			
10	WED				10	SAT	Holiday			10	MON	IA Test 2	I	39	10	THU	IA Test 3	IV	62	10	SAT	Holiday		
11	THU	Avani Avittam			11	SUN	Holiday			11	TUE	IA Test 2	II	40	11	FRI	National Education Day IA Test 3	V	63	11	SUN	Holiday		
12	FRI	International Youth Day			12	MON	IA Test 1	I	19	12	WED	IA Test 2	III	41	12	SAT	IA Test 3	IV	64	12	MON			
13	SAT				13	TUE	IA Test 1	II	20	13	THU	IA Test 2	IV	42	13	SUN	Holiday			13	TUE			
14	SUN	Holiday			14	WED	IA Test 1	III	21	14	FRI	IA Test 2	V	43	14	MON	Children's Day IA Test 3	I	65	14	WED			
15	MON	Independence Day Holiday			15	THU	Engineer's Day IA Test 1	IV	22	15	SAT	IA Test 2	II	44	15	TUE	IA Test 3	II	66	15	THU			
16	TUE				16	FRI	IA Test 1	V	23	16	SUN	Holiday			16	WED	IA Test 3	III	67	16	FRI			
17	WED	Classes commence for V & VII semester	III	1	17	SAT	IA Test 1	III	24	17	MON		I	45	17	THU		IV	68	17	SAT	Holiday		
18	THU		IV	2	18	SUN	Holiday			18	TUE		II	46	18	FRI	Syllabus Completion	V	69	18	SUN	Holiday		
19	FRI	Krishna Jayanthi Holiday			19	MON		I	25	19	WED		III	47	19	SAT		III	70	19	MON			
20	SAT	Holiday			20	TUE		II	26	20	THU		IV	48	20	SUN	Holiday			20	TUE			
21	SUN	Holiday			21	WED		III	27	21	FRI		V	49	21	MON	Univ. Practical Exam commences			21	WED			
22	MON	Classes commence for III semester	I	3	22	THU	Student Feedback-1	IV	28	22	SAT	Holiday			22	TUE				22	THU	National Mathematics Day		
23	TUE		II	4	23	FRI		V	29	23	SUN	Holiday			23	WED				23	FRI			
24	WED		III	5	24	SAT	NSS Day	IV	30	24	MON	Deepavali Holiday			24	THU				24	SAT	Holiday		
25	THU		IV	6	25	SUN	Holiday			25	TUE	Holiday			25	FRI				25	SUN	Christmas Holiday		
26	FRI		V	7	26	MON		I	31	26	WED		III	50	26	SAT	Holiday			26	MON			
27	SAT		I	8	27	TUE		II	32	27	THU		IV	51	27	SUN	Holiday			27	TUE			
28	SUN	Holiday			28	WED		III	33	28	FRI	Student Feedback-2	V	52	28	MON				28	WED			
29	MON		I	9	29	THU		IV	34	29	SAT		III	53	29	TUE				29	THU			
30	TUE		II	10	30	FRI		V	35	30	SUN	Holiday			30	WED				30	FRI			
31	WED	Vinayagar Chaturthi Holiday								31	MON	National Unity Day	I	54						31	SAT	Holiday		
No. of Working days			10	10				25	35				19	54				16	70					

Total No. of working days for the semester : 70

Prepared by: Ms.N.Bhavani & Dr.R.Senthamilselvi

PRINCIPAL

SARANATHAN COLLEGE OF ENGINEERING, TRICHY-12

Department of CSBS

Academic Planner for 2022 - 23 Odd Semester - II YEAR UG

AUG'22	DAY	DETAILS	Day order	working days	SEP'22	DAY	DETAILS	Day order		OCT'22	DAY	DETAILS	Day order	working days	NOV'22	DAY	DETAILS	Day order	working days	DEC'22	DAY	DETAILS	Day order	working days
01	MON				01	THU		IV	9	01	SAT	Holiday			01	TUE		II	53	01	THU		IV	77
02	TUE				02	FRI		V	10	02	SUN	Gandhi Jayanthi Holiday			02	WED		III	54	02	FRI	Syllabus Completion	V	78
03	WED				03	SAT		III	11	03	MON	Holiday			03	THU		IV	55	03	SAT	Holiday		
04	THU				04	SUN	Holiday			04	TUE	Ayudha Pooja Holiday			04	FRI		V	56	04	SUN	Holiday		
05	FRI				05	MON	Teacher's Day	I	12	05	WED	Vijayadhasami			05	SAT	Holiday			05	MON	Revision	I	79
06	SAT	Holiday			06	TUE		II	13	06	THU		IV	34	06	SUN	Holiday			06	TUE	Revision	II	80
07	SUN	Holiday			07	WED	Class committee meeting I-II year	III	14	07	FRI		V	35	07	MON		I	57	07	WED	Revision	III	81
08	MON				08	THU		IV	15	08	SAT		III	36	08	TUE		II	58	08	THU	Revision	IV	82
09	TUE				09	FRI		V	16	09	SUN	Milad-un-Nabi Holiday			09	WED		III	59	09	FRI			
10	WED				10	SAT	Holiday			10	MON	IA Test 2	I	37	10	THU	IA Test 3	IV	60	10	SAT	Univ. Practical Exam commences		
11	THU	Avani Avittam			11	SUN	Holiday			11	TUE	IA Test 2	II	38	11	FRI	National Education Day IA Test 3	V	61	11	SUN	Holiday		
12	FRI	International Youth Day			12	MON	IA Test 1	I	17	12	WED	IA Test 2	III	39	12	SAT	IA Test 3	I	62	12	MON			
13	SAT				13	TUE	IA Test 1	II	18	13	THU	IA Test 2	IV	40	13	SUN	Holiday			13	TUE			
14	SUN	Holiday			14	WED	IA Test 1	III	19	14	FRI	IA Test 2	V	41	14	MON	Children's Day IA Test 3	I	63	14	WED			
15	MON	Independence Day Holiday			15	THU	Engineer's Day IA Test 1	IV	20	15	SAT	IA Test 2	I	42	15	TUE	IA Test 3	II	64	15	THU			
16	TUE				16	FRI	IA Test 1	V	21	16	SUN	Holiday			16	WED	IA Test 3	III	65	16	FRI			
17	WED				17	SAT	IA Test 1	I	22	17	MON		I	43	17	THU		IV	66	17	SAT	Holiday		
18	THU				18	SUN	Holiday			18	TUE		II	44	18	FRI		V	67	18	SUN	Holiday		
19	FRI	Krishna Jayanthi Holiday			19	MON		I	23	19	WED		III	45	19	SAT		II	68	19	MON			
20	SAT	Holiday			20	TUE		II	24	20	THU		IV	46	20	SUN	Holiday			20	TUE			
21	SUN	Holiday			21	WED		III	25	21	FRI		V	47	21	MON		I	69	21	WED	Univ. Theory Exam commences		
22	MON	Classes commence for III semester	I	1	22	THU	Student Feedback-1	IV	26	22	SAT	Holiday			22	TUE		II	70	22	THU	National Mathematics Day		
23	TUE		II	2	23	FRI		V	27	23	SUN	Holiday			23	WED		III	71	23	FRI			
24	WED		III	3	24	SAT	NSS Day	II	28	24	MON	Deepavali Holiday			24	THU		IV	72	24	SAT	Holiday		
25	THU		IV	4	25	SUN	Holiday			25	TUE	Holiday			25	FRI		V	73	25	SUN	Christmas Holiday		
26	FRI		V	5	26	MON		I	29	26	WED		III	48	26	SAT	Holiday			26	MON			
27	SAT		V	6	27	TUE	Class committee meeting I-II year	II	30	27	THU		IV	49	27	SUN	Holiday			27	TUE			
28	SUN	Holiday			28	WED		III	31	28	FRI	Student Feedback-2	V	50	28	MON	Class Committee meeting II	I	74	28	WED			
29	MON		I	7	29	THU		IV	32	29	SAT		II	51	29	TUE		II	75	29	THU			
30	TUE		II	8	30	FRI		V	33	30	SUN	Holiday			30	WED		III	76	30	FRI			
31	WED	Vinayagar Chaturthi								31	MON	National Unity Day	I	52						31	SAT	Holiday		
No. of Working days			8	8				25	33				19	52				24	76				6	82

Total No. of working days for the semester : 82

HOD

PRINCIPAL

SARANATHAN COLLEGE OF ENGINEERING

Venkateswara Nagar, Panjappur, Tiruchirappalli - 620012

Department of Computer Science and Business Systems

WORKLOAD - ALLOCATION FOR ACADEMIC YEAR 2022-23 ODD

Sl. No	Name of the Faculty	Name of the Subject	Sec	Year / Sem / Dept	Theory / Lab	Periods	Total Periods
1	Mr.S.Venkatasubramanian	CS3391 - Object Oriented Programming	A	II / III / CSBS	Theory	4	12
		CS3381 - Object Oriented Programming Laboratory	A	II / III / CSBS	Lab	3	
		MG8591 - Principles of Management	A	IV / VII / CSE	Theory	5	
2	Mr.R. Mohankumar	AD3491 - Fundamentals of Data Science and Analytics	A	II / III / CSBS	Theory	5	17
		CS3381 - Object Oriented Programming Laboratory	A	II / III / CSBS	Lab	3	
		GE3151 - Problem Solving and Python Programming	E	I / COMMON	Theory	5	
		GE3171 - Problem Solving and Python Programming Laboratory	E	I / COMMON	Lab	4	
3	Ms. Sridevi	AD3351 - Design and Analysis of Algorithms	A	II / III / CSBS	Theory	5	15
		AD3351[L] -Design and Analysis of Algorithms Lab	A	II / III / CSBS	Lab	1	
		GE3151 - Problem Solving and Python Programming	F	I / COMMON	Theory	5	
		GE3171 - Problem Solving and Python Programming Laboratory	F	I / COMMON	Lab	4	

HoD/CSBS

2022-23 ODD – AD3491 – Fundamentals of Data Science & Analysis

SARANATHAN COLLEGE OF ENGINEERING

Tiruchirappalli - 620012

DEPARTMENT OF CSBS

REVIEW OF COURSE FILE (2021-25 Batch)

S. No.	Details	Status
1.	Vision, Mission, PEOs, POs, PSOs, Blooms taxonomy	✓
2.	Timetable/Workload of the staff	✓
3.	Syllabus signed by staff & HoD	✓
4.	Lecture Schedule signed by staff & HoD	✓
5.	Course Committee meeting circular and minutes	✓
6.	Identification of Curricular gap and Content Beyond the syllabus	✓
7.	Previous AU Question papers	–
8.	Unit wise Q&A and Objective type questions	✓
9.	Unit wise course material	✓
10.	Assignment question paper with sample answer sheets and mark entry	✓
11.	Tutorial question paper with key and mark entry	–
12.	IA test Q Paper with Key, sample answer papers and mark entry	✓
13.	IA Test- Performance analysis-CAP-evidence-root cause analysis.	✓
14.	Makeup Test –Q paper-Attendance-marks - sample answer papers	✓
15.	Remedial Test–Q paper-Attendance-marks - sample answer papers	–
16.	AU Web portal entry sheet	✓
17.	Very poor performance in first two tests-action taken- evidence.	–
18.	Absence for two tests-action taken-evidence.	–
19.	Indiscipline of student reported, if any	–
20.	Special class/coaching class/remedial class/attendance-CAP	✓
21.	Conduct of Seminar, Quizzes - proof	✓
22.	Content beyond the syllabus – proof	✓
23.	Course end survey	✓
24.	Internal Assessment sheet	✓
25.	AU question paper with students feedback	✓
26.	Discrepancy of the question paper and correspondence, if any	–
27.	AU result analysis-Details of arrear students.	✓
28.	AU grade sheet	✓
29.	CO – PO & PSO attainment sheet	✓
	Signature of Faculty	
	Signature of HoD	

LESSON PLAN

SARANATHAN COLLEGE OF ENGINEERING

Department of Computer Science and Business Systems

R2021 - Regulation

Rev. No: 1

Sub. Code : AD3351
Sub. Name : DESIGN AND ANALYSIS OF ALGORITHMS
Degree / Branch : B.TECH – COMPUTER SCIENCE AND BUSINESS SYSTEMS
Year / Semester : II / III
Section / Strength : "A" / 62
Staff Name : Ms SRIDEVI V.R / Assistant Professor / CSBS
Type : CORE

UNIT I INTRODUCTION

8

Notion of an Algorithm – Fundamentals of Algorithmic Problem Solving – Important Problem Types –Fundamentals of the Analysis of Algorithm Efficiency – Analysis Framework - Asymptotic Notations and their properties – Empirical analysis - Mathematical analysis of Recursive and Non-recursive algorithms – Visualization.

OBJECTIVES:

- To Know about different types of computing problem algorithms and learn how to analyze its efficiency.

Session No	Topics to be covered	Reference	Teaching Method
1.	Introduction to Algorithm,Notion of algorithm	TB P.NO: 29-32	BB
2.	Fundamentals of Algorithmic Problem solving-steps in designing and analyzing an algorithm.	TB P.NO:35-42	BB
3.	Important Problem Types-Sorting,searching,stringprocessing,graph,geometric,numeric and combinatorial problems.	TB P.NO: 44-49	BB
4.	Fundamentals of the Analysis of Algorithm Efficiency,Analysis,Framework,Measuring Input Size,Units for Measuring Running Time.	TB P.NO: 67,68	BB
5.	Analysis Framework,Orders of growth,worst,best and average case analysis,recapitulation of Analysis Framework.	TB P.NO: 68-76	BB
6.	Asymptotic Notations and its properties-Informal,Big-oh,Big-omega,Big-theta notation.	TB P.NO: 78-82	BB
7.	Mathematical analysis for Non-recursive algorithms-General plan for analyzing time efficiency.	TB P.NO: 8795	BB
8.	Mathematical analysis for recursive algorithms-General plan for analyzing time efficiency.	TB P.NO: 96-100	BB
9.	Visualization.	TB P.NO: 117-120	BB

UNIT II BRUTE FORCE AND DIVIDE AND CONQUER

10

Brute Force – String Matching - Exhaustive Search - Travelling Salesman Problem - Knapsack Problem - Assignment problem. Divide and Conquer Methodology – Multiplication of Large Integers and Strassen's Matrix Multiplication -- Closest-Pair and Convex - Hull Problems. Decrease and Conquer: - Topological Sorting – Transform and Conquer: Presorting – Heaps and Heap Sort.

OBJECTIVES:

- To understand how computing problems are solved using brute force and divide and conquer methods.

Session	Topics to be covered	Reference	Teaching Method
10.	Brute Force-Selection,Bubble sort.	TB P.NO: 123-127	BB
11.	Brute Force- Sequential Search,Brute Force- String Manipulation.	TB P.NO: 130-132	BB
12.	Exhaustive Search	TB P.NO: 141,142	BB
13.	Travelling Salesman problem-Knapsack Problem.	TB P.NO: 142-145	BB
14.	Assignment Problem.	TB P.NO: 145,146	BB
15.	Divide and conquer methodology.	TB P.NO: 195-197	BB
16.	Multiplication of Large Integers and Strassen's Matrix Multiplication	TB P.NO: 212-217	BB
17.	Closest-pair and Convex-Hull Problems by divide and conquer rule.	TB P.NO: 218-223	BB
18.	Decrease and Conquer: Topological Sorting	TB P.NO: 157-160,164-167	BB
19.	Transform and Conquer: Presorting – Heaps and Heap Sort.	TB P.NO: 227-231,252-258	BB

UNIT III **DYNAMIC PROGRAMMING AND GREEDY TECHNIQUE** **10**

Dynamic programming – Principle of optimality - Coin changing problem – Warshall's and Floyd's algorithms – Optimal Binary Search Trees - Multi stage graph - Knapsack Problem and Memory functions. Greedy Technique – Dijkstra's algorithm - Huffman Trees and codes - 0/1 Knapsack problem.

OBJECTIVES:

- To comprehend the algorithm design techniques such as dynamic programming and greedy techniques.

Session No	Topics to be covered	Reference	Teaching Method
20.	Dynamic programming-three basic examples-coin row problem,Change-making problem	TB P.NO: 309-313	BB
21.	Coin-collecting problem,longest common subsequence Computing binomial coefficient.	TB P.NO: 314-316	BB
22.	Warshall's algorithm	TB P.NO: 330-334	BB
23.	Floyd's algorithm.chniques.	TB P.NO: 334-337	BB
24.	Optimal Binary Search Trees.	TB P.NO: 323-328	BB
25.	Multi stage graph:Knapsack Problem and Memory functions.	TB P.NO: 318-322	BB
26.	Greedy Technique	TB P.NO: 341-344	BB
27.	Dijkstra's algorithm	TB P.NO: 359-363	BB
28.	Huffman Trees and codes	TB P.NO: 364-368	BB
29.	Knapsack problem.	TB P.NO: 318-322	BB

LESSON PLAN

UNIT IV **ITERATIVE IMPROVEMENT** **10**

The Simplex Method-The Maximum-Flow Problem – Maximum Matching in Bipartite Graphs- The Stable marriage Problem.

OBJECTIVES:

- To make the students learn about iterative improvement method for problem solving.

Session No	Topics to be covered	Reference	Teaching Method
30.	The Simplex Method.	TB P.NO: 372-385	BB
31.	Maximum -Flow Problem.	TB P.NO: 387-396	BB
32.	Maximum Matching in Bipartite Graphs.	TB P.NO: 398-404	BB
33.	The Stable marriage Problem.	TB P.NO: 406-408	BB

UNIT V **LIMITATIONS OF ALGORITHM POWER** **9**

Lower - Bound Arguments - P, NP, NP- Complete and NP Hard Problems. Backtracking – N-Queen problem - Hamiltonian Circuit Problem – Subset Sum Problem. Branch and Bound – LIFO Search and FIFO search - Assignment problem – Knapsack Problem – Travelling Salesman Problem - Approximation Algorithms for NP-Hard Problems – Travelling Salesman problem – Knapsack problem.

OBJECTIVES:

- Understand the limitations of algorithm and learn about backtracking and branch and bound techniques.

Session No	Topics to be covered	Reference	Teaching Method
34.	Limitations of Algorithm Power-Lower-Bound Arguments-Methods for establishing lower bounds.	TB P.NO: 413-419	BB
35.	Decision Trees-Decision Trees for sorting and searching in sorted arrays.	TB P.NO: 420-425	BB
36.	P and NP-Complete and NP Hard Problems.	TB P.NO: 427-435	BB
37.	Coping with the limitations of algorithm power-backtracking-Verbal arithmetic.	TB P.NO: 449-451	BB
38.	n-Queens problem-Hamiltonian Circuit Problem-Subset sum problem.	TB P.NO: 451-456	BB
39.	Branch and bound-Assignment problem, Knapsackproblem.	TB P.NO: 458-464	BB
40.	Travelling Salesman Problem.	TB P.NO: 464-466	BB
41.	Approximation Algorithms for NP-Hard Problems.	TB P.NO: 467-469	BB
42.	Travelling Salesman Problem- Knapsack Problem	TB P.NO: 469-483	BB

TEXT BOOKS:

1. Anany Levitin, Introduction to the Design and Analysis of Algorithms, Third Edition, Pearson Education, 2012.

REFERENCES:

1. Ellis Horowitz, Sartaj Sahni and SanguthevarRajasekaran, Computer Algorithms/ C++, Second Edition, Universities Press, 2019.
2. Thomas H.Cormen, Charles E.Leiserson, Ronald L. Rivest and Clifford Stein, Introduction to Algorithms, Third Edition, PHI Learning Private Limited, 2012.
3. S. Sridhar, Design and Analysis of Algorithms, Oxford university press, 2014.
4. Alfred V. Aho, John E. Hopcroft and Jeffrey D. Ullman, Data Structures and Algorithms, Pearson Education, Reprint 2006.

25/8/22
Staff in-charge

25/8/22
HOD/CSBS

Saranathan College of Engineering
Tiruchirapalli

Assignment			Date	11/10/2022		
Course code	MA 3354	Course Title	DISCRETE MATHEMATICS			
Batch No.		Duration	45 mins	Academic Year	2022 – 2023	
Year/	II	Semester	III	Department	CSBS	

Part – A
(Answer all the questions 5 x 2 = 10marks)

Q. No.	Questions	CO	Skills
1.	Solve $a_n - 6a_{n-1} + 8a_{n-2} = 0,\ \ a_0 = 0, a_1 = 4.$	CO201.2	U
2.	How many different words are there in the word MATHEMATICS?	CO201.2	A
3.	State and Prove The Handshaking theorem.	CO201.3	R
4.	Write the adjacency matrix and incidence matrix of $K_{3,3}$	CO201.3	R
5.	An undirected graph G has 16 edges and all the vertices are of degree 2. Find the number of vertices?	CO201.3	A

Part – B
(Answer all the questions 1x 15 = 15marks)

Q. No.	Questions	CO	Skills
6 a.	Find the number of integers between 1 and 500 inclusive that are divisible by 3,4,8.	CO201.2	U
b.	i) Define Regular graph and give an example. ii) Prove that the maximum number of edges in a simple graph with n vertices is n(n-1)/2.	CO201.3	A

Bloom's Skills: Remember (R), Understand (U), Apply (A), Analyze (AZ), Evaluate (E) and Create (C). Skill need to be mentioned against each question

SARANATHAN COLLEGE OF ENGINEERING
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Notification

Date: 09.09.2022

The students of II year/III Semester CSBS Tutorial class for the course MA3354- Discrete Mathematics given below. The date of the Tutorial class is 09.09.2022.

Sl.no	Questions	CO
1	Find the number of bit string of length10 that either begin with 1 0r end with 0	C02
2	How many different words are there in the word "MATHEMATICS"	C02
3	Solve the recurrence relation $a_n=8a_{n-1}+6a_{n-1}$with $a_0=8$, $a_1=6$	C02
4	Solve the recurrence relation $a_n-7a_{n-1}+10a_{n-2}$with $a_0=1$	C02
5	There are 6 men and 5 women in the room. Find the number of ways 4 person can be drawn from the room i)They can be men (or) woman (ii)2 must be men & 2 women (iii)They must be all of the same	C02

SARANATHAN COLLEGE OF ENGINEERING
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Notification

Date: 30.09.2022

The students of II year/III Semester CSBS Tutorial class for the course MA3354- Discrete Mathematics given below. The date of the Tutorial class is 30.09.2022.

Sl.no	Questions	CO
1	Does there exist a simple graph with five vertices of the 0,1,2,2,3 degrees? If so, draw such a graph.	C04
2	State the necessary and sufficient conditions for the existence of an Eulerian path in a connected graph.	C04
3	Show that a simple graph with n vertices is connected if it has more than $\frac{(n-1)(n-2)}{2}$ edges.	C04
4	Prove that a connected graph G is Eulerian if and only if all the vertices are on even degree.	C04
5	Define normal subgroup of a group.	C02

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Notification

Date: 18.11.2022

The students of II year/III Semester CSBS Tutorial class for the course MA3354- Discrete Mathematics given below. The date of the Tutorial class is 18.11.2022.

Sl.no	Questions	CO
1	State and prove Lagrange's theorem.	C05
2	Define equivalence relation with an example.	C05
3	Let G = {1,-1, I, -i} be a group and H = {1, -1} be a subgroup of G. What is the number of distinct cosets of H in G.	C05
4	State and prove cayley's theorem.	C05
5	Prove that the necessary and sufficient condition for a non empty subset H of a group {G, *} to be a subgroup is $a,b \in H \Rightarrow a*b^{-1} \in H$.	C05

Sem Period : 22-23ODD Subject Code : CS3381 Faculty name : veeyes

Date Order Descending

S.no	Date	Branch	Sem	Sec	Day-order	Period	Topic	Absentees
1	08/12/2022	CSBS	3	A	4	8	Application Development - Calculator	249024 - [1]
2	08/12/2022	CSBS	3	A	4	7	Application Development - Calculator	249024 - [1]
3	08/12/2022	CSBS	3	A	4	6	Application Development - Calculator	249024 - [1]
4	06/12/2022	CSBS	3	A	2	4	JAVAFX Applications	249032 , 249049 , 249057 , 249063 - [4]
5	06/12/2022	CSBS	3	A	2	3	JAVAFX Applications	249032 , 249049 , 249057 , 249063 - [4]
6	06/12/2022	CSBS	3	A	2	2	JAVAFX Applications	249032 , 249049 , 249057 , 249063 - [4]
7	22/11/2022	CSBS	3	A	2	2	string methods	249002 , 249010 , 249019 , 249025 , 249030 , 249050 - [6]
8	17/11/2022	CSBS	3	A	4	8	JAVAFX Application Development	249030 - [1]
9	17/11/2022	CSBS	3	A	4	7	JAVAFX Application Development	249030 - [1]
10	17/11/2022	CSBS	3	A	4	6	JAVAFX Application Development	249030 - [1]
11	15/11/2022	CSBS	3	A	2	4	Generic Class in JAVA	249035 - [1]
12	15/11/2022	CSBS	3	A	2	3	Generic Class in JAVA	249035 - [1]
13	15/11/2022	CSBS	3	A	2	2	Generic Class in JAVA	249035 - [1]
14	10/11/2022	CSBS	3	A	4	8	Naan Mudhalvan Training	- [0]
15	10/11/2022	CSBS	3	A	4	7	Naan Mudhalvan Training	- [0]
16	10/11/2022	CSBS	3	A	4	6	Naan Mudhalvan Training	- [0]
17	08/11/2022	CSBS	3	A	2	4	Naan Mudhalvan Training on Microsoft Office Beginners	- [0]
18	08/11/2022	CSBS	3	A	2	3	Naan Mudhalvan Training on Microsoft Office Beginners	- [0]
19	08/11/2022	CSBS	3	A	2	2	Naan Mudhalvan Training on Microsoft Office Beginners	- [0]
20	03/11/2022	CSBS	3	A	4	8	Naan Mudhalvan Training	249007 , 249013 - [2]
21	03/11/2022	CSBS	3	A	4	7	Naan Mudhalvan Training	249007 , 249013 - [2]
22	03/11/2022	CSBS	3	A	4	6	Naan Mudhalvan Training	249007 , 249013 - [2]
23	01/11/2022	CSBS	3	A	2	4	Naan Mudhalvan Training on Microsoft Office Beginners	- [0]
24	01/11/2022	CSBS	3	A	2	3	Naan Mudhalvan Training on Microsoft Office Beginners	- [0]
25	01/11/2022	CSBS	3	A	2	2	Naan Mudhalvan Training on Microsoft Office Beginners	- [0]
26	29/10/2022	CSBS	3	A	2	4	Multithreading, Exception Handling	249038 , 249042 , 249045 , 249049 , 249051 , 249057 , 249059 - [7]
27	29/10/2022	CSBS	3	A	2	3	Multithreading, Exception Handling	249038 , 249042 , 249045 , 249049 , 249051 , 249057 , 249059 - [7]
28	29/10/2022	CSBS	3	A	2	2	Multithreading, Exception Handling	249038 , 249042 , 249045 , 249049 , 249051 , 249057 , 249059 - [7]
29	20/10/2022	CSBS	3	A	4	8	Multithreading Program in JAVA	249007 , 249011 - [2]
30	20/10/2022	CSBS	3	A	4	7	Multithreading Program in JAVA	249007 , 249011 - [2]
31	20/10/2022	CSBS	3	A	4	6	Multithreading Program in JAVA	249007 , 249011 - [2]
32	18/10/2022	CSBS	3	A	2	4	Abstract Class & Interface	249047 - [1]
33	18/10/2022	CSBS	3	A	2	3	Abstract Class & Interface	249047 - [1]
34	13/10/2022	CSBS	3	A	4	8	Implementation of Abstract Class	249007 , 249011 , 249016 - [3]
35	13/10/2022	CSBS	3	A	4	7	Implementation of Abstract Class	249007 , 249011 , 249016 - [3]
36	13/10/2022	CSBS	3	A	4	6	Implementation of Abstract Class	249007 , 249011 , 249016 - [3]
37	11/10/2022	CSBS	3	A	2	4	Implementation of Inheritance and Abstract Class	249043 , 249064 - [2]
38	11/10/2022	CSBS	3	A	2	3	Implementation of Inheritance and Abstract Class	249043 , 249064 - [2]
39	11/10/2022	CSBS	3	A	2	2	Implementation of Inheritance and Abstract Class	249043 , 249064 - [2]
40	06/10/2022	CSBS	3	A	4	8	Inheritance and Abstract Class	249001 , 249006 , 249008 , 249009 , 249026 - [5]
41	06/10/2022	CSBS	3	A	4	7	Inheritance and Abstract Class	249001 , 249006 , 249008 , 249009 , 249026 - [5]
42	06/10/2022	CSBS	3	A	4	6	Inheritance and Abstract Class	249001 , 249006 , 249008 , 249009 , 249026 - [5]
43	29/09/2022	CSBS	3	A	4	8	Implementation of Queue	249033 , 249038 - [2]

HOD/CSBS

43	29/09/2022	CSBS	3	A	4	8	Implementation of Queue	249023 , 249030 - [2]
44	29/09/2022	CSBS	3	A	4	7	Implementation of Queue	249023 , 249030 - [2]
45	29/09/2022	CSBS	3	A	4	6	Implementation of Queue	249023 , 249030 - [2]
46	27/09/2022	CSBS	3	A	2	4	Implementation of Queue	249064 - [1]
47	27/09/2022	CSBS	3	A	2	3	Implementation of Queue	249064 - [1]
48	27/09/2022	CSBS	3	A	2	2	Implementation of Queue	249064 - [1]
49	24/09/2022	CSBS	3	A	2	4	Implementation of Stack	- [0]
50	24/09/2022	CSBS	3	A	2	3	Implementation of Stack	- [0]
51	22/09/2022	CSBS	3	A	4	8	Implementation of Stack	249007 , 249030 - [2]
52	22/09/2022	CSBS	3	A	4	7	Implementation of Stack	249007 , 249030 - [2]
53	22/09/2022	CSBS	3	A	4	6	Implementation of Stack	249007 , 249030 - [2]
54	15/09/2022	CSBS	3	A	4	8	Searching Algorithms	249011 , 249013 , 249016 , 249025 - [4]
55	15/09/2022	CSBS	3	A	4	7	Searching Algorithms	249011 , 249013 , 249016 , 249025 - [4]
56	15/09/2022	CSBS	3	A	4	6	Searching Algorithms	249011 , 249013 , 249016 , 249025 - [4]
57	13/09/2022	CSBS	3	A	2	4	Searching Algorithms	249037 - [1]
58	13/09/2022	CSBS	3	A	2	3	Searching Algorithms	249037 - [1]
59	13/09/2022	CSBS	3	A	2	2	Searching Algorithms	249037 - [1]
60	08/09/2022	CSBS	3	A	4	8	JAVA Programs - Conditional Statements	249001 , 249002 , 249010 , 249024 - [4]
61	08/09/2022	CSBS	3	A	4	7	JAVA Programs - Conditional Statements	249001 , 249002 , 249010 , 249024 - [4]
62	08/09/2022	CSBS	3	A	4	6	JAVA Programs - Conditional Statements	249001 , 249002 , 249010 , 249024 - [4]
63	06/09/2022	CSBS	3	A	2	4	Conditional Statements - Programs	249038 , 249045 - [2]
64	06/09/2022	CSBS	3	A	2	3	Conditional Statements - Programs	249038 , 249045 - [2]
65	06/09/2022	CSBS	3	A	2	2	Conditional Statements - Programs	249038 , 249045 - [2]
66	01/09/2022	CSBS	3	A	4	8	Basic Java Programs - Batch 2	249034 , 249035 , 249039 , 249043 , 249047 , 249053 , 249059 , 249061 - [8]
67	01/09/2022	CSBS	3	A	4	7	Basic Java Programs - Batch 2	249034 , 249035 , 249039 , 249043 , 249047 , 249053 , 249059 , 249061 - [8]
68	01/09/2022	CSBS	3	A	4	6	Basic Java Programs - Batch 2	249034 , 249035 , 249039 , 249043 , 249047 , 249053 , 249059 , 249061 - [8]
69	25/08/2022	CSBS	3	A	4	8	Basic JAVA Programs	- [0]
70	25/08/2022	CSBS	3	A	4	7	Basic JAVA Programs	- [0]
71	25/08/2022	CSBS	3	A	4	6	Basic JAVA Programs	- [0]
72	23/08/2022	CSBS	3	A	2	4	Seminar on Probability & Statistics - Dr.Vijayalakshmi	249055 , 249057 , 249062 - [3]
73	23/08/2022	CSBS	3	A	2	3	Seminar on Probability & Statistics - Dr.Vijayalakshmi	249055 , 249057 , 249062 - [3]
74	23/08/2022	CSBS	3	A	2	2	Seminar on Probability & Statistics - Dr.Vijayalakshmi	249055 , 249057 , 249062 - [3]

HOD/CSBS

SARANATHAN COLLEGEOF ENGINEERING

TIRUCHIRAPALLI - 620 012.

Date: 08/12/2022

Ref:SCE/Syllabus/ Theory/

STATEMENT FOR SYLLABUS COMPLETION 2022-23 ODD SEMESTER

I have handled the subject AD3491 – FUNDAMENTALS OF DATA SCIENCE AND ANALYTICS, code for II year, III semester, department of CSBS B.Tech duringthe academicyear 2022– 23, even semester.

Inthisregard,Iconfirm,thatIhavetaughtallthetopicsmentionedinthesyllabus, and took lectures for 68 periods, revised syllabus for 7 periods and discussed the AnnaUniversityExamination question papersofthelast years / question bank question(for fresh subject in R2021 curriculum).

Signature :

Name : R. MOHANKUMAR

Designation : ASSISTANT PROFESSOR

Department : COMPUTER SCIENCE AND BUSINESS SYSTEMS.

Date : 06/12/2022

Signatureof HoD: 6/12/22

Principal :

SARANATHAN COLLEGEOF ENGINEERIN G

TIRUCHIRAPALLI-620 012.

Date: 08/12/2022

Ref:SCE/Syllabus/Laboratory/

STATEMENT FOR LABORATORY EXPERIMENT COMPLETION

I hereby affirm that all the experiments listed in the next page, have been actually performed by the students as part of the prescribed course work by Anna University (mention details). In cases where the experiments could not be conducted the same has been listed separately with reasons.

I confirm that the experiments were done by me in the beginning of this semester, and the readings were recorded.

I confirm that the students submitted the laboratory record of the experiments performed by them, and that I have also corrected them every week and awarded appropriate marks. I also confirm that the completed laboratory record was submitted by each student.

Signature :

Name : S.VENKATASUBRAMANIAN Designation : Assoc. Professor

Department : C.S.B.S

Signature of HoD : 8/12/22

Principal :

Note: List of the students who have not got bonafide, if any, to be enclosed.

CS3381 OBJECT ORIENTED PROGRAMMING LABORATORY **L T P C**
0 0 3 1.5

COURSE OBJECTIVES

- To build software development skills using java programming for real-world applications.
- To understand and apply the concepts of classes, packages, interfaces, inheritance, exception handling and file processing.
- To develop applications using generic programming and event handling

LIST OF EXPERIMENTS

1. Solve problems by using sequential search, binary search, and quadratic sorting algorithms (selection, insertion)
2. Develop stack and queue data structures using classes and objects.
3. Develop a java application with an Employee class with Emp_name, Emp_id, Address, Mail_id, Mobile_no as members. Inherit the classes, Programmer, Assistant Professor, Associate Professor and Professor from employee class. Add Basic Pay (BP) as the member of all the inherited classes with 97% of BP as DA, 10 % of BP as HRA, 12% of BP as PF, 0.1% of BP for staff club funds. Generate pay slips for the employees with their gross and net salary.
4. Write a Java Program to create an abstract class named Shape that contains two integers and an empty method named printArea(). Provide three classes named Rectangle, Triangle and Circle such that each one of the classes extends the class Shape. Each one of the classes contains only the method printArea( ) that prints the area of the given shape.
5. Solve the above problem using an interface.
6. Implement exception handling and creation of user defined exceptions.
7. Write a java program that implements a multi-threaded application that has three threads. First thread generates a random integer every 1 second and if the value is even, the second thread computes the square of the number and prints. If the value is odd, the third thread will print the value of the cube of the number.
8. Write a program to perform file operations.
9. Develop applications to demonstrate the features of generics classes.
10. Develop applications using JavaFX controls, layouts and menus.
11. Develop a mini project for any application using Java concepts.

Lab Requirements: for a batch of 30 students
Operating Systems: Linux / Windows
Front End Tools: Eclipse IDE / Netbeans IDE

TOTAL: 45 PERIODS

COURSE OUTCOMES:
On completion of this course, the students will be able to
CO1 : Design and develop java programs using object oriented programming concepts
CO2 : Develop simple applications using object oriented concepts such as package, exceptions
CO4 : Create GUIs and event driven programming applications for real world problems
CO3: Implement multithreading, and generics concepts
CO5: Implement and deploy web applications using Java

Saranathan College of Engineering

QAC - Audit Report

Academic Year : 2022-2023

Sem: ODD

Dept: CSBS

Year/ Sem/Sec	II / III / "A" CSBS		Test I					Test II					Test III				
Subject Code	Name of faculty		No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %
AD3351 Design & Analysis of Algorithms	Ms.V.R. Sridevi CSBS	IA Test	64	62	2	29	52%	64	63	01	07	56	64	63	01	33	50%
		Make up Test	31	24	7	5	61%	28	23	05	20	10	–	–	–	–	–
		Remarks	Lack of Concentration in class, attendance missing 14/10/22					Lack of Concentration & long absent due to Health Issues. 15/10/22					Most of the students has not attended the class during last 2 weeks. Lot of absentee.
AD3491 Fundamentals of Data Science and Analytics	Mr. R. Mohankumar CSBS.	IA Test	64	62	2	21	64%	64	61	03	14	73.4	64	63	01	31	49%
		Make up Test	23	23	0	8	65%	17	17	NIL	09	47	–	–	–	–	–
		Remarks	failures were not attended all questions fully in Part Be They are advised to Concentrate more.					Preparation was very poor & lack of attention in class.					Lack of Preparation. Many students were not attended all Part 'B' Questions
CS3351 Digital Principles & Comp. Organization	Mr. A.T. Barani Vijayakumar CSE	IA Test	64	62	2	20	66%	64	63	01	15	75	64	64	0	49	23
		Make up Test	22	13	9	7	28%	16	13	03	6	43.7	–	–	–	–	–
		Remarks	Students absent due to health issue Assignment has to be given					Lack of Concentration Frequent Absentees					Lack of Preparation Students Not attend Properly
Signature of QAC members with name			R. MOHAN KUMAR / AP / CSBS.					P. ANAND, AP / IT					P. ANAND, AP / IT
Signature of HOD													
QAC In-Charge			S.A.A.					S.A.A.					S.A.A.
IQAC Co-ordinator													
Principal													

Saranathan College of Engineering

QAC - Audit Report

Academic Year : 2022-2023

Sem: ODD

Dept: CSBS

Year/ Sem/Sec	II / III / 'A'		Test I					Test II					Test III				
Subject Code	Name of faculty		No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %
CS3391 Object Oriented Programming	Mr. S. Venkata-Subramanian CSBS	IA Test	64	62	2	40	34%	64	62	02	27	55	64	64	NIL	19	70
		Make up Test	42	42	0	16	62%	29	29	NIL	13	55	-	-	-	-	-
		Remarks	Very poor in writing code. Now giving online coding assignments					students still writing Python code instead of Java.					—				
CW3301 Fundamentals of Economics	Mr. S. Syed Muthali JJ MBA	IA Test	64	62	2	12	78%	64	64	NIL	16	75	64	62	02	35	42%
		Make up Test	14	7	7	2	36%	16	15	01	02	81	-	-	-	-	-
		Remarks	7 students have absent due to some health reasons.					—					Lack of Economic concepts to some extent.				
HA3354 Discrete Mathematics	Dr. N. Subashini MATHS	IA Test	64	62	2	12	78%	64	62	02	20	69	64	63	01	41	34
		Make up Test	14	7	7	1	43%	20	08	12	03	25	-	-	-	-	-
		Remarks	7 out of 14 absent for Retest.					12 Students have absent in slip test.					Students got Confused in Part B Questions				
Signature of QAC members with name			R. Mohan Kumar / AP / CSBS					P. Anand, AP / IT					P. Anand, AP / IT				
Signature of HOD																	
QAC In-Charge			S.A.					S.A.					S.A.				
IQAC Co-ordinator																	
Principal																	

SARANATHAN COLLEGE OF ENGINEERING
TIRUCHIRAPPALLI – 12
QAC – QUALITY ASSESSMENT CELL
ACADEMIC YEAR: 2022-2023 ODD SEMESTER

NAME OF THE DEPARTMENT	CSBS.	DETAILS OF EXAMINATION	IA TEST : 1	Makeup Test : 1

Sl.No	Subject Code	List of Batch Nos Verified	Subject Log book Verified [Y/N]	Assignments Verified [Y/N]	Remarks
YEAR/SEM/SEC :					
		IA Test	Makeup Test		
1	AD3351	249004, 31, 54	249003, 35, 49	Y	Y	–
2	AD3491	249011, 19, 41	249008, 24, 40	Y	Y	–
3	CS3351	249003, 05, 011, 014	249045, 07, 36	Y	Y	–
4	CS3391	249003 44, 06	249034, 37, 30	Y	Y	–
5	CW3301	249009, 10, 22	249020, 61	Y	Y	–
6	HA3354	249004, 22, 43	249020, 24, 63	Y	Y	– NIL ——

VERIFIED BY

1 Prof 13/10/22 – R. MOHAN KUMAR

2

SIGNATURE WITH DATE OF THE QAC MEMBERS

SARANATHAN COLLEGE OF ENGINEERING
TIRUCHIRAPPALLI – 12
QAC – QUALITY ASSESSMENT CELL
ACADEMIC YEAR: 2022-2023 ODD SEMESTER

NAME OF THE DEPARTMENT	CSBS	DETAILS OF EXAMINATION	IA TEST : II	Makeup Test : II

Sl.No	Subject Code	List of Batch Nos Verified	Subject Log book Verified [Y/N]	Assignments Verified [Y/N]	Remarks
YEAR/SEM/SEC : III / V / 'A'					
		IA Test	Makeup Test		
1	CS3391	249004, 24958, 58	249011, 021, 033	Y	Y	—
2	AD3491	249002, 10, 30	249004, 5962	Y	Y	—
3	CS3551	249001, 11, 19	249001, 03, 24	Y	Y	—
4	AD3351	249001, 37, 54	249002, 05, 39	Y	Y	—
5	CW3301	249025, 32, 48	249008, 20, 63	Y	Y	—
6	MA3354	249002, 19, 55	249047, 60, 63	Y	Y	—

VERIFIED BY

1 P. Anand [P. ANAND, AP II/CS]

2

SIGNATURE WITH DATE OF THE QAC MEMBERS

SARANATHAN COLLEGE OF ENGINEERING
TIRUCHIRAPPALLI – 12
QAC – QUALITY ASSESSMENT CELL
ACADEMIC YEAR: 2022-2023 ODD SEMESTER

NAME OF THE DEPARTMENT			DETAILS OF EXAMINATION IA TEST : III Makeup Test : –		
Sl.No	Subject Code	List of Batch Nos Verified	Subject Log book Verified [Y/N]	Assignments Verified [Y/N]	Remarks
YEAR/SEM/SEC : II | III | 'A'					
		IA Test	Makeup Test		
1	AD3351	249009, 22, 23	–	Y	–	–
2	AD3491	249002, 13, 40	–	Y	–	–
3	CS3351	249001, 11, 52	–	Y	–	–
4	CS3391	249034, 39, 63	–	Y	–	–
5	CS3301	249003, 07, 29	–	Y	–	–
6	MA3354	249022, 48/64	–	Y	–	–

VERIFIED BY

1 P. Anand [P. ANAND, AP/IT]

2

SIGNATURE WITH DATE OF THE QAC MEMBERS

FeedBack Report : CSBS Month&Year: NOV2022 Academic Year :2022-23ODD

S.no	staffcode	branch /Sem	No. partici pated	Subject Code /Title	(1) Does the faculty come Prepared for the Classes ?	(2) Subject Knowledge and Clarity of the Faculty	(3) Impartiality and Fairness to Students ?	(4) Interaction with Students by the faculty	(5) Valuable/Extra Information given during the Lectures by the faculty	(6) Enthusiasm for Subject ?	(7) Showing Concern and Care for Students?	(8) Punctuality in Evaluation of Exam Papers/ Assignments ?	(9) Whether Syllabus for IA Tests/ University Examination Completed steadily?	(10) Ability to Speak Loudly and Clearly	Total Out of
	Weigtage				**15.0**	**15.0**	**8.0**	**12.0**	**12.0**	**12.0**	**4.0**	**6.0**	**8.0**	**8.0**	**100**
1	sridevi-cse	CSBS-A/3	26	AD3351/Design And Analysis Of Algorithms	12.69	11.88	6.58	9.88	9.78	9.88	3.38	4.94	6.95	6.77	82.75
2	mohankumar-cse	CSBS-A/3	27	AD3491/Fundamentals Of Data Science And Analytics	13.78	13.33	6.99	10.58	10.67	10.76	3.56	5.24	6.99	6.87	88.77
3	veeyes	CSBS-A/3	26	CS3391/Object Oriented Programming	12.81	12.46	6.15	9.23	9.69	9.97	3.08	5.12	6.83	6.77	82.12

SARANATHAN COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

DEPARTMENT OF COMPUTER SCIENCE AND BUSINESS SYSTEMS

Lecture Schedule

Degree/Program: B.TECH / CSBS Course code &Name: AL3461 –MACHINE LEARNING LABAROTARY

Duration: MAR 2022 –JUNE 2022 Semester: IV Section: A Faculty : Ms. A.Mohanadevi

AIM

To learn and implement machine learning algorithms.

OBJECTIVES

- To understand the data sets and apply suitable algorithms for selecting the appropriate features for analysis.
- To learn to implement supervised machine learning algorithms on standard datasets and evaluate the performance.
- To experiment the unsupervised machine learning algorithms on standard datasets and evaluate the performance.
- To build the graph based learning models for standard data sets.
- To compare the performance of different ML algorithms and select the suitable one based on the application

COURSE OUTCOMES: After the course, the student should be able to:

Course	Course Outcome	POs	PSOs
C217.1	Apply suitable algorithms for selecting the appropriate features for analysis.	1,2,3,5,6	1,2,3
C217.2	Implement supervised machine learning algorithms on standard datasets and evaluate the performance.	1,2,3,5,6	1,2,3
C217.3	Apply unsupervised machine learning algorithms on standard datasets and evaluate the performance	1,2,3,5,6	1,2,3
C217.4	Build the graph based learning models for standard data sets.	1,2,3,5,6	1,2,3
C217.5	Assess and compare the performance of different ML algorithms and select the suitable one based on the application.	1,2,3,5,6	1,2,3
C217.6	Compare the performance of difference ML Algorithms and select the suitable one based on the application	1,2,3,5,6	1,2,3

S. No	Date Planned	Topics to be Covered	Date Actual
1	8/2/23	Implementation of Find-S Algorithm	8/2/23
2	15/2/23	Implementation of Candidate Elimination Algorithm	15/2/23
3	22/2/23	Implementation of Decision tree based ID3 Algorithm	22/2/23
4	01/03/23	Implementation of Artificial Neural Network by Back propagation algorithm	01/03/23
5	11/03/23	Implementation of non-parametric Locally Weighted Regression algorithm	11/03/23
6	29/03/23	Implementation of Naive bayesian classifier	29/03/23
7	05/04/23	Implementation of Naive bayesian classifier for set of documents	05/04/23
8	12/04/23	Implementation and construction of Bayesian network for medical data	12/04/23
9	26/04/23	Implementation and comparison of clustering using EM Algorithm and Kmeans Algorithm	26/04/23
10	03/05/23	Implementation of K-Nearest Neighbor Classification Algorithm	03/05/23

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C217.1	3	3	3	3	3	2	-	-	2	2	1	2	3	3	1
C217.2	3	3	3	3	3	2	-	-	2	2	1	2	3	3	1
C217.3	3	3	3	3	3	2	-	-	2	2	1	2	3	3	1
C217.4	3	3	3	3	3	2	-	-	2	2	1	2	3	3	1
C217.5	3	3	3	3	3	2	-	-	2	2	1	2	3	3	1
C217.6	3	3	3	3	3	2	-	-	2	2	1	2	3	3	1
C217	3	3	3	3	3	2	-	-	2	2	1	2	3	3	1

Content Beyond Syllabus Added(CBS)	POs strengthened / vacant filled	CO / Unit

8.12.23

Faculty In-charge

2.12.23

HOD/CSBS

Name : S. Venkata Subramanian / R. Mohankumar

Designation : Assoc. Prof / Asst. Prof

Department : CSBS

Academic Year : 2022-23 odd

Semester / Year : III / II

Details of Courses assigned to teach :

1. Programme : B.Tech
2. Discipline : CSBS
3. Section : A
4. Course Code : CS 3381
5. Course Title : Object Oriented Programming Lab

LAB SCHEDULE

Day Order	1 9.15 10.05	2 10.05 10.55	10.55 11.05	3 11.05 11.55	4 11.55 12.45	12.45 1.25	5 1.25 2.15	6 2.15 3.05	3.05 3.15	7 3.15 4.00	8 4.00 4.45
I			BREAK			LUNCH BREAK			BREAK		
II		← CS 3381			→						
III											
IV								← CS 3381		→	
V											

List of Experiments

CS3381 Object Oriented Programming Laboratory

1. Solve problems by using sequential search, binary search, and quadratic sorting algorithms (selection, insertion)

2. Develop stack and queue data structures using classes and objects.

3. Develop a java application with an Employee class with Emp_name, Emp_id, Address, Mail_id, Mobile_no as members. Inherit the classes, Programmer, Assistant Professor, Associate Professor and Professor from employee class. Add Basic Pay (BP) as the member of all the inherited classes with 97% of BP as DA, 10 % of BP as HRA, 12% of
BP as PF, 0.1% of BP for staff club funds. Generate pay slips for the employees with their gross and net salary.

4. Write a Java Program to create an abstract class named Shape that contains two integers and an empty method named printArea(). Provide three classes named Rectangle, Triangle and Circle such that each one of the classes extends the class Shape. Each one of the classes contains only the method printArea( ) that prints the area of the given shape.

5. Solve the above problem using an interface.

6. Implement exception handling and creation of user defined exceptions. CS3381

7. Write a java program that implements a multi-threaded application that has three threads. First thread generates a random integer every 1 second and if the value is even, the second thread computes the square of the number and prints. If the value is odd, the third thread will print the value of the cube of the number.

8. Write a program to perform file operations. I/O

9. Develop applications to demonstrate the features of generics classes. CS3381 Object Oriented Programming Laboratory Lab Manual — methods

10. Develop applications using JavaFX controls, layouts and menus.

11. Develop a mini project for any application using Java concepts

COURSE LOG

Branch: CSBS

Subject: CS3381 - Object Oriented Programming lab

Date	Day Order	Period	Particulars of Portions Covered	Remarks
25/8/22	IV	6,7,8	Basic Programs in Java	
1/9/22	III	6,7,8	Programs - Conditional statements	
08/9/22	II	6,7,8	Programs - looping statements	
15/09/22	I	6,7,8	Searching Algorithms	
22/09/22	IV	6,7,8	Implementation of stack	
29/09/22	III	6,7,8	Implementation of Queue	
06/10/22	II	6,7,8	Implementation of Inheritance	
13/10/22	I	6,7,8	Implementation of Abstract class	
17/11/22	IV	6,7,8	Generic class - Implementation	
08/12/22	III	6-8	JAVAFX Application development	
27/08/22	III	2,3,4	Basic programs in Java	
30/08/22	II	2,3,4	Programs - Conditional statements	
06/09/22	II	2,3,4	Programs - looping statements	
13/09/22	II	2,3,4	Searching Algorithms	
20/09/22	II	2,3,4	Implementation of stack	
27/9/22	II	2,3,4	Implementation of Queue	
11/10/22	II	2-4	Inheritance, Abstract class	
29/10/22	II	2,4	Multithreading Program	
15/11/22	II	2-4	Generic class - Implementation	
22/11/22	II	2-4	String methods	
20/12/22	II	2-4	JAVAFX Applications	

BATCH I

BATCH 2

ATTENDANCE PARTICULARS

SERIAL NUMBER	Date	25/8	1/9	8/9	15/9	22/9	29/9	6/10	13/10	27/10	3/11	10/12				
	Day Order	IV	V	III	II	III	IV	III	III	IV	IV	II				
	Period				6-8	6-8	6-8	6-8	6-8	6-8	6-8	6-8				
	Batch No.	6/8	6-8	6-8												
1	249001	✓	1	a	1	1	1	a	1	1	1					
2	249002	✓	1	a	1	1	1	1	1	1	1					
3	249003	✓	1	1	1	1	1	1	1	1	1					
4	249004	✓	1	1	1	1	1	1	1	1	1					
5	249005	✓	1	1	1	1	1	1	1	1	1					
6	249006	✓	1	1	1	1	1	a	1	1	1					
7	007	✓	1	1	1	a	1	1	a	1	1					
8	008	✓	1	1	1	1	1	a	1	1	1					
9	009	✓	1	1	1	1	1	a	1	1	1					
10	010	✓	1	a	1	1	1	1	1	1	1					
11	011	✓	1	1	a	1	1	1	a	1	1					
12	012	✓	1	1	1	1	1	1	1	1	1					
13	013	✓	1	1	a	1	1	1	✗	1	1					
14	014	✓	1	1	1	1	1	1	1	1	1					
15	015	✓	1	1	1	1	1	1	1	1	1					
16	016	✓	1	1	a	1	1	1	a	1	1					
17	017	✓	1	1	1	1	1	1	1	1	1					
18	018	✓	1	1	1	1	1	1	1	1	1					
19	019	✓	1	1	1	1	1	1	1	1	1					
20	020	✓	1	1	1	1	1	1	1	1	1					
21	021	✓	1	1	1	1	1	1	1	1	1					
22	022	✓	1	1	1	1	1	1	1	1	1					
23	023	✓	1	1	1	1	1	1	1	1	1					
24	024	✓	1	a	1	1	1	1	1	1	a					
25	025	✓	1	1	a	1	1	1	1	1	1					
26	026	✓	1	1	1	1	1	a	1	1	1					
27	027	✓	1	1	1	1	1	1	1	1	1					
28	028	✓	1	1	1	1	1	1	1	1	1					
29	029	✓	1	1	1	1	1	1	1	1	1					
30	030	✓	1	1	1	a	1	1	1	a	1					
31	031	✓	1	1	1	1	1	1	1	1	1					

⑥

SARANATHAN COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)
DEPARTMENT OF COMPUTER SCIENCE AND BUSINESS SYSTEMS

Lecture Schedule

Degree/Program: B.TECH / CSBS Course code &Name: AL3461 –MACHINE LEARNING LABAROTARY
Duration: MAR 2022 –JUNE 2022 Semester: IV Section: A Faculty : Ms. A.Mohanadevi

AIM

To learn and implement machine learning algorithms.

OBJECTIVES

- To understand the data sets and apply suitable algorithms for selecting the appropriate features for analysis.
- To learn to implement supervised machine learning algorithms on standard datasets and evaluate the performance.
- To experiment the unsupervised machine learning algorithms on standard datasets and evaluate the performance.
- To build the graph based learning models for standard data sets.
- To compare the performance of different ML algorithms and select the suitable one based on the application

COURSE OUTCOMES: After the course, the student should be able to:

Course	Course Outcome	POs	PSOs
C217.1	Apply suitable algorithms for selecting the appropriate features for analysis.	1,2,3,5,6	1,2,3
C217.2	Implement supervised machine learning algorithms on standard datasets and evaluate the performance.	1,2,3,5,6	1,2,3
C217.3	Apply unsupervised machine learning algorithms on standard datasets and evaluate the performance	1,2,3,5,6	1,2,3
C217.4	Build the graph based learning models for standard data sets.	1,2,3,5,6	1,2,3
C217.5	Assess and compare the performance of different ML algorithms and select the suitable one based on the application.	1,2,3,5,6	1,2,3
C217.6	Compare the performance of differenec ML Algorithms and select the suitable one based on the application	1,2,3,5,6	1,2,3

S. No	Date Planned	Topic to be Covered	Date Actual
1	8/2/23	Implementation of Find-S Algorithm	8/2/23
2	15/2/23	Implementation of Candidate Elimination Algorithm	15/2/23
3	22/2/23	Implementation of Decision tree based ID3 Algorithm	22/2/23
4	01/03/23	Implementation of Artificial Neural Network by Back propagation algorithm	01/03/23
5	11/03/23	Implementation of non-parametric Locally Weighted Regression algorithm	11/03/23
6	29/03/23	Implementation of Naive bayesian classifier	29/03/23
7	05/04/23	Implementation of Naive bayesian classifier for set of documents	05/04/23
8	12/04/23	Implementation and construction of Bayesian network for medical data	12/04/23
9	26/04/23	Implementation and comparison of clustering using EM Algorithm and Kmeans Algorithm	26/04/23
10	03/05/23	Implementation of K-Nearest Neighbor Classification Algorithm	03/05/23

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C217.1	3	3	3	3	3	2	-	-	2	2	1	2	3	3	1
C217.2	3	3	3	3	3	2	-	-	2	2	1	2	3	3	1
C217.3	3	3	3	3	3	2	-	-	2	2	1	2	3	3	1
C217.4	3	3	3	3	3	2	-	-	2	2	1	2	3	3	1
C217.5	3	3	3	3	3	2	-	-	2	2	1	2	3	3	1
C217.6	3	3	3	3	3	2	-	-	2	2	1	2	3	3	1
C217	3	3	3	3	3	2	-	-	2	2	1	2	3	3	1

Content Beyond Syllabus Added(CBS)	POs strengthened / vacant filled	CO / Unit

8/2/23
Faculty In-charge

2/2/23
HOD/CSBS

Name : A. MOHANAPEVI

Designation : ASSISTANT PROFESSOR

Department : CSBS

Academic Year : 2022-2023

Semester / Year : IV / II

Details of Courses assigned to teach :

1. Programme : B. TECH

2. Discipline : CSBS

3. Section : A

4. Course Code : AL3461

5. Course Title : MACHINE LEARNING LAB

LAB SCHEDULE

Day Order	1 9.15 10.05	2 10.05 10.55	10.55 11.05	3 11.05 11.55	4 11.55 12.45	12.45 1.25	5 1.25 2.15	6 2.15 3.05	3.05 3.15	7 3.15 4.00	8 4.00 4.45
I		←	BREAK	AL3461 ML Lab	→ batch I	LUNCH BREAK			BREAK		
II											
III								←		AL3461 ML Lab	→ batch II
IV											
V											

AL3461	MACHINE LEARNING LABORATORY	L T P C 0 0 4 2

COURSE OBJECTIVES:

- To understand the data sets and apply suitable algorithms for selecting the appropriate features for analysis.
- To learn to implement supervised machine learning algorithms on standard datasets and evaluate the performance.
- To experiment the unsupervised machine learning algorithms on standard datasets and evaluate the performance.
- To build the graph based learning models for standard data sets.
- To compare the performance of different ML algorithms and select the suitable one based on the application.

LIST OF EXPERIMENTS:

1. For a given set of training data examples stored in a .CSV file, implement and demonstrate the **Candidate-Elimination algorithm** to output a description of the set of all hypotheses consistent with the training examples.
2. Write a program to demonstrate the working of the decision tree based **ID3 algorithm.** Use an appropriate data set for building the decision tree and apply this knowledge to classify a new sample.
3. Build an Artificial Neural Network by implementing the **Backpropagation algorithm** and test the same using appropriate data sets.
4. Write a program to implement the **naïve Bayesian classifier** for a sample training data set stored as a .CSV file and compute the accuracy with a few test data sets.
5. Implement **naïve Bayesian Classifier** model to classify a set of documents and measure the accuracy, precision, and recall.
6. Write a program to construct a **Bayesian network to** diagnose CORONA infection using standard WHO Data Set.
7. Apply **EM algorithm** to cluster a set of data stored in a .CSV file. Use the same data set for clustering using the k-Means **algorithm**. Compare the results of these two algorithms.
8. Write a program to implement ***k*-Nearest Neighbour algorithm** to classify the iris data set. Print both correct and wrong predictions.
9. Implement the non-parametric **Locally Weighted Regression algorithm** in order to fit data points. Select an appropriate data set for your experiment and draw graphs.

List of Equipments:(30 Students per Batch)

The programs can be implemented in either Python or R.

TOTAL:60 PERIODS

COURSE OUTCOMES:

At the end of this course, the students will be able to:

1. Apply suitable algorithms for selecting the appropriate features for analysis.
2. Implement supervised machine learning algorithms on standard datasets and evaluate the performance.
3. Apply unsupervised machine learning algorithms on standard datasets and evaluate the performance.
4. Build the graph based learning models for standard data sets.
5. Assess and compare the performance of different ML algorithms and select the suitable one based on the application.

STAFF SIGNATURE **HOD SIGNATURE**

COURSE LOG

Branch: CSBS

Subject: AL3461 MACHINE LEARNING LAB

Date	Day Order	Period B-I B-II	Particulars of Portions Covered	Remarks
6/2 & 8/2	I & III	2,3,4 | 6,7,8	Basics of Pandas and Numpy	
13/2 & 15/2	I & III	2,3,4 | 6,7,8	Candidate Elimination Algorithm	
20/2 & 22/2	I & III	2,3,4 | 6,7,8	Decision Tree using ID3 Algorithm	
27/2 & 1/3	I & III	2,3,4 | 6,7,8	Find-S Algorithm	
6/3 & 11/3	I & III	2,3,4 | 6,7,8	Build an Artificial Neural Network	
			by Backpropagation algorithm	
13/3 & 15/3	I & III	2,3,4 | 6,7,8	Naive Bayesian Algorithm	
20/3 & 29/3	I & III	2,3,4 | 6,7,8	Locally weighted Regression Algo	
27/3 & 5/4	I & III	2,3,4 | 6,7,8	Naive Bayesian Algo (Text classification)	
1/4 & 12/4	I & III	6,7,8 | 6,7,8	Basian Network (Medical data)	
3/4 & 12/4	I & III	2,3,4 | 6,7,8	Bayesian Network	
10/4 & 12/4	I & III	2,3,4 | 6,7,8	Comparison of EM & Kmeans Algo	
17/4 & 20/4	I & III	3,4 | 6,7,8	K-means classification Algo	
24/4 & 26/4	I & III	2,3,4 | 6,7,8	Clustering Algorithms	
24/4 & 3/5	I & III	2,3,4 | 6,7,8	Classification Algorithm	
8/5 & 10/5	I & III	2,3,4 | 6,7,8	Model Lab Exam	
15/5 & 17/5	I & III	3,4 | 6,7,8	Revision Lab	
22/5	I	3,4	Revision Lab	22/5/23

(5)

ATTENDANCE PARTICULARS

SERIAL NUMBER	Date	6/9	12/9	20/9	27/9	6/3	13/3	20/3	27/3	1/4	3/4	10/4	17/4	24/4	8/5
	Day Order	1	1	1	1	1	1	1	1	3	1	1	1	1	1
	Period	2,3,4	2,3,4	2,3,4	2,3,4	2,3,4	2,3	2,3,4	2,3,4	6,7,8	2,3,4	3,4	3,4	2,3,4	2,3,4
	Batch No.	I	I	I	I	I	I	I	I	I	I	I	I	I	I
1.	249001	/	/	/	/	/	/	a	/	/	/	/	/	/	/
2.	249002	/	/	/	/	/	/	/	/	/	/	/	/	/	/
3.	249003	/	a	/	/	/	/	a	/	/	/	/	/	/	/
4.	249004	/	/	a	/	/	/	/	/	/	/	/	/	/	/
5.	249005	/	/	/	/	a	/	a	a	/	/	/	/	/	/
6.	249006	/	/	/	/	/	/	/	/	/	a	/	/	/	/
7.	249007	/	/	/	/	/	/	/	/	/	/	/	/	/	/
8.	249008	a	/	/	/	a	/	/	a	/	/	/	/	a	/
9.	249009	/	a	a	/	/	/	a	/	/	/	/	/	/	/
10.	249010	/	/	/	/	/	/	a	/	/	/	/	/	/	/
11.	249011	/	/	a	a	a	/	/	/	/	/	/	/	/	/
12.	249012	/	/	/	/	/	/	/	/	/	/	/	/	/	/
13.	249013	/	/	/	/	/	a	a	/	a	/	/	/	/	/
14.	249014	/	/	/	/	/	/	/	/	/	/	/	/	a	/
15.	249015	/	/	/	/	/	/	/	/	/	/	/	/	/	/
16.	249016	/	/	/	/	a	/	/	/	/	/	/	/	/	/
17.	249017	/	/	/	/	/	/	/	/	/	/	/	/	/	/
18.	249018	/	/	/	/	/	/	/	/	a	/	/	/	/	/
19.	249019	/	/	/	/	/	/	/	/	/	/	/	/	/	/
20.	249020	a	/	/	/	/	/	/	a	/	/	/	/	/	/
21.	249021	/	/	/	/	/	/	/	/	/	/	/	/	/	/
22.	249022	/	/	/	/	/	/	/	/	/	/	/	/	/	/
23.	249023	/	/	/	a	/	/	/	/	/	a	/	/	/	/
24.	249024	/	a	/	/	/	/	/	a	/	/		/	/	a
25.	249025	/	/	a	/	/	/	/	/	/	/	/	/	/	/
26.	249026	/	/	/	/	/	/	/	/	/	/	/	/	/	/
27.	249027	/	/	/	/	/	/	/	/	/	/	/	/	/	/
28.	249028	/	/	/	/	a	/	/	/	/	/	/	/	/	/
29.	249029	/	/	/	/	/	/	/	/	/	/	/	/	/	/
30.	249030	/	/	/	/	a	a	/	/	/	/	/	/	/	/
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SARANATHAN COLLEGE OF ENGINEERING, TRICHY-12

Academic Planner for 2022 - 23 Odd Semester - III and IV YEAR UG

AUG'22	DAY	DETAILS	Day order	working days	SEP'22	DAY	DETAILS	Day order	working days	OCT'22	DAY	DETAILS	Day order	working days	NOV'22	DAY	DETAILS	Day order	working days	DEC'22	DAY	DETAILS	Day order	working days
01	MON				01	THU		IV	11	01	SAT	Holiday			01	TUE		II	55	01	THU		IV	77
02	TUE				02	FRI		V	12	02	SUN	Gandhi Jayanthi Holiday			02	WED		III	56	02	FRI	Nan Mudhalvan scheme ends	V	78
03	WED				03	SAT		III	13	03	MON	Holiday			03	THU		IV	57	03	SAT	Holiday		
04	THU				04	SUN	Holiday			04	TUE	Ayudha Pooja Holiday			04	FRI		V	58	04	SUN	Holiday		
05	FRI				05	MON	Teacher's Day	I	14	05	WED	Vijayadhasami Holiday			05	SAT	Holiday			05	MON			
06	SAT	Holiday			06	TUE		II	15	06	THU		IV	36	06	SUN	Holiday			06	TUE			
07	SUN	Holiday			07	WED		III	16	07	FRI		V	37	07	MON		I	59	07	WED	Flag Day		
08	MON				08	THU		IV	17	08	SAT		III	38	08	TUE		II	60	08	THU	Univ.Theory Exam commences		
09	TUE				09	FRI		V	18	09	SUN	Milad-un-Nabi Holiday			09	WED		III	61	09	FRI			
10	WED				10	SAT	Holiday			10	MON	IA Test 2	I	39	10	THU	IA Test 3	IV	62	10	SAT	Holiday		
11	THU	Avani Avittam			11	SUN	Holiday			11	TUE	IA Test 2	II	40	11	FRI	National Education Day IA Test 3	V	63	11	SUN	Holiday		
12	FRI	International Youth Day			12	MON	IA Test 1	I	19	12	WED	IA Test 2	III	41	12	SAT	Holiday			12	MON			
13	SAT				13	TUE	IA Test 1	II	20	13	THU	IA Test 2	IV	42	13	SUN	Holiday			13	TUE			
14	SUN	Holiday			14	WED	IA Test 1	III	21	14	FRI	IA Test 2	V	43	14	MON	Children's Day IA Test 3	I	64	14	WED			
15	MON	Independence Day Holiday			15	THU	Engineer's Day IA Test 1	IV	22	15	SAT	IA Test 2	I	44	15	TUE	IA Test 3	II	65	15	THU			
16	TUE				16	FRI	IA Test 1	V	23	16	SUN	Holiday			16	WED	IA Test 3	III	66	16	FRI			
17	WED	Classes commence for V & VII semester	III	1	17	SAT	IA Test 1	I	24	17	MON		I	45	17	THU	IA Test 3	IV	67	17	SAT	Holiday		
18	THU		IV	2	18	SUN	Holiday			18	TUE		II	46	18	FRI	Syllabus Completion	V	68	18	SUN	Holiday		
19	FRI	Krishna Jayanthi Holiday			19	MON		I	25	19	WED		III	47	19	SAT	Holiday			19	MON			
20	SAT	Holiday			20	TUE		II	26	20	THU		IV	48	20	SUN	Holiday			20	TUE			
21	SUN	Holiday			21	WED		III	27	21	FRI		V	49	21	MON	Nan Mudhalvan scheme starts	I	69	21	WED			
22	MON		I	3	22	THU	Student Feedback-1	IV	28	22	SAT	Holiday			22	TUE		II	70	22	THU	National Mathematics Day		
23	TUE		II	4	23	FRI		V	29	23	SUN	Holiday			23	WED		III	71	23	FRI			
24	WED		III	5	24	SAT	NSS Day	II	30	24	MON	Deepavali Holiday			24	THU		IV	72	24	SAT	Holiday		
25	THU		IV	6	25	SUN	Holiday			25	TUE	Holiday			25	FRI		V	73	25	SUN	Christmas Holiday		
26	FRI		V	7	26	MON		I	31	26	WED		III	50	26	SAT	Holiday			26	MON			
27	SAT		V	8	27	TUE		II	32	27	THU		IV	51	27	SUN	Holiday			27	TUE			
28	SUN	Holiday			28	WED		III	33	28	FRI	Student Feedback-2	V	52	28	MON		I	74	28	WED			
29	MON		I	9	29	THU		IV	34	29	SAT		II	53	29	TUE		II	75	29	THU			
30	TUE		II	10	30	FRI		V	35	30	SUN	Holiday			30	WED		III	76	30	FRI			
31	WED	Vinayagar Chaturthi Holiday								31	MON	National Unity Day	I	54						31	SAT	Holiday		
No. of Working days			10	10				25	35				19	54				22	76				2	78

Total No. of working days for the semester : 78

Prepared by: Ms.N.Bhavani & Dr.R.Senthamil selvi

PRINCIPAL

SARANATHAN COLLEGE OF ENGINEERING, TRICHY-12

Academic Planner for 2022 - 23 Odd Semester - II YEAR UG

AUG'22	DAY	DETAILS	Day order	working days	SEP'22	DAY	DETAILS	Day order		OCT'22	DAY	DETAILS	Day order	working days	NOV'22	DAY	DETAILS	Day order	working days	DEC'22	DAY	DETAILS	Day order	working days
01	MON				01	THU		IV	9	01	SAT	Holiday			01	TUE		II	53	01	THU		IV	75
02	TUE				02	FRI		V	10	02	SUN	Gandhi Jayanthi Holiday			02	WED		III	54	02	FRI		V	76
03	WED				03	SAT		III	11	03	MON	Holiday			03	THU		IV	55	03	SAT	Holiday		
04	THU				04	SUN	Holiday			04	TUE	Ayudha Pooja Holiday			04	FRI		V	56	04	SUN	Holiday		
05	FRI				05	MON	Teacher's Day	I	12	05	WED	Vijayadhasami Holiday			05	SAT	Holiday			05	MON		I	77
06	SAT	Holiday			06	TUE		II	13	06	THU		IV	34	06	SUN	Holiday			06	TUE		II	78
07	SUN	Holiday			07	WED		III	14	07	FRI		V	35	07	MON		I	57	07	WED	Flag Day	III	79
08	MON				08	THU		IV	15	08	SAT		III	36	08	TUE		II	58	08	THU		IV	80
09	TUE				09	FRI		V	16	09	SUN	Milad-un-Nabi Holiday			09	WED		III	59	09	FRI	Syllabus Completion	V	81
10	WED				10	SAT	Holiday			10	MON		I	37	10	THU		IV	60	10	SAT	Holiday		
11	THU	Avani Avittam			11	SUN	Holiday			11	TUE		II	38	11	FRI	Professional Development - Nan Mudhalvan scheme ends	V	61	11	SUN	Holiday		
12	FRI	International Youth Day			12	MON		I	17	12	WED		III	39	12	SAT	Holiday			12	MON	Model Exam	I	82
13	SAT				13	TUE		II	18	13	THU		IV	40	13	SUN	Holiday			13	TUE		II	83
14	SUN	Holiday			14	WED		III	19	14	FRI		V	41	14	MON	Children's Day	I	62	14	WED	Model Exam	III	84
15	MON	Independence Day Holiday			15	THU	Engineer's Day	IV	20	15	SAT	IA Test 2	I	42	15	TUE		II	63	15	THU		IV	85
16	TUE				16	FRI		V	21	16	SUN	Holiday			16	WED		III	64	16	FRI	Model Exam	V	86
17	WED				17	SAT		I	22	17	MON	IA Test 2	I	43	17	THU		IV	65	17	SAT	Holiday		
18	THU				18	SUN	Holiday			18	TUE	IA Test 2	II	44	18	FRI		V	66	18	SUN	Holiday		
19	FRI	Krishna Jayanthi Holiday			19	MON	IA Test 1	I	23	19	WED	IA Test 2	III	45	19	SAT	Holiday			19	MON	Model Exam	I	87
20	SAT	Holiday			20	TUE	IA Test 1	II	24	20	THU	IA Test 2	IV	46	20	SUN	Holiday			20	TUE		II	88
21	SUN	Holiday			21	WED	IA Test 1	III	25	21	FRI	IA Test 2	V	47	21	MON		I	67	21	WED	Model Exam	III	89
22	MON	Classes commence for III semester	I	1	22	THU	IA Test 1	IV	26	22	SAT	Holiday			22	TUE		II	68	22	THU	National Mathematics Day	IV	90
23	TUE		II	2	23	FRI	IA Test 1	V	27	23	SUN	Holiday			23	WED		III	69	23	FRI	Model Exam	V	91
24	WED		III	3	24	SAT	NSS Day IA Test 1	II	28	24	MON	Deepavali Holiday			24	THU		IV	70	24	SAT	Holiday		
25	THU		IV	4	25	SUN	Holiday			25	TUE	Holiday			25	FRI		V	71	25	SUN	Christmas Holiday		
26	FRI		V	5	26	MON		I	29	26	WED		III	48	26	SAT	Holiday			26	MON			
27	SAT		V	6	27	TUE		II	30	27	THU		IV	49	27	SUN	Holiday			27	TUE			
28	SUN	Holiday			28	WED		III	31	28	FRI	Student Feedback-2	V	50	28	MON		I	72	28	WED			
29	MON		I	7	29	THU	Student Feedback-1	IV	32	29	SAT		II	51	29	TUE		II	73	29	THU	Univ.Theory Exam commences		
30	TUE		II	8	30	FRI		V	33	30	SUN	Holiday			30	WED		III	74	30	FRI			
31	WED	Vinayagar Chaturthi Holiday								31	MON	Professional Development - Nan Mudhalvan scheme starts	I	52						31	SAT			
No. of Working days			8	8				25	33				19	52				22	74				17	91

Total No. of working days for the semester : 91

Prepared by: Ms.N.Bhavani & Dr.R.Senthamil selvi

PRINCIPAL

SARANATHAN COLLEGE OF ENGINEERING, TRICHY-12

Academic Planner for Even Semester(2022-23) - II, III & IV UG

FEB'22	DAY	DETAILS	working days	MAR'22	DAY	DETAILS	working days	APR'22	DAY	DETAILS	working days	MAY'22	DAY	DETAILS	working days
01	WED	Classes commence for IV & VI semester T&P Training for III Year	1	01	WED		21	01	SAT	Holiday		01	MON	May Day Holiday	
02	THU	T&P Training for III Year	2	02	THU	Sports Day	22	02	SUN	Holiday		02	TUE		62
03	FRI	Founder's day T&P Training for III Year	3	03	FRI	College Day	23	03	MON		44	03	WED		63
04	SAT	T&P Training for III Year Holiday		04	SAT	Graduation Day Holiday		04	TUE		45	04	THU		64
05	SUN	Holiday		05	SUN	Holiday		05	WED		46	05	FRI	Naan Mudhalvan	65
06	MON		4	06	MON		24	06	THU		47	06	SAT	Holiday	
07	TUE		5	07	TUE		25	07	FRI	Good Friday Holiday		07	SUN	Holiday	
08	WED		6	08	WED	Womania 2023 Women's Day	26	08	SAT	Holiday		08	MON		66
09	THU		7	09	THU	IA test-1	27	09	SUN	Holiday		09	TUE		67
10	FRI		8	10	FRI	IA test-1	28	10	MON	IA test-2	48	10	WED		68
11	SAT	Holiday		11	SAT	IA test-1	29	11	TUE	IA test-2	49	11	THU		69
12	SUN	Holiday		12	SUN	Holiday		12	WED	IA test-2	50	12	FRI	Naan Mudhalvan	70
13	MON		9	13	MON	IA test-1	30	13	THU	IA test-2	51	13	SAT	Holiday	
14	TUE		10	14	TUE	IA test-1	31	14	FRI	Tamil New Year Day Holiday		14	SUN	Holiday	
15	WED		11	15	WED	IA test-1	32	15	SAT	Holiday		15	MON	IA test-3	71
16	THU		12	16	THU		33	16	SUN	Holiday		16	TUE	IA test-3	72
17	FRI		13	17	FRI		34	17	MON	IA test-2	52	17	WED	IA test-3	73
18	SAT	Holiday		18	SAT	Holiday		18	TUE	IA test-2	53	18	THU	IA test-3	74
19	SUN	Holiday		19	SUN	Holiday		19	WED		54	19	FRI		75
20	MON	Classes commence for VIII semester	14	20	MON	Students Feedback-I	35	20	THU		55	20	SAT	Holiday	
21	TUE		15	21	TUE		36	21	FRI	Naan Mudhalvan	56	21	SUN	Holiday	
22	WED		16	22	WED	Telugu New Year Day Holiday		22	SAT	Holiday		22	MON	IA test-3	76
23	THU		17	23	THU		37	23	SUN	Holiday		23	TUE	IA test-3	77
24	FRI		18	24	FRI	Naan Mudhalvan	38	24	MON	Students Feedback-II	57	24	WED	Syllabus completion	78
25	SAT	Holiday		25	SAT	Holiday		25	TUE		58	25	THU		
26	SUN	Holiday		26	SUN	Holiday		26	WED		59	26	FRI	Commencement of University Practical exams	
27	MON		19	27	MON		39	27	THU	Founder's Memorial day	60	27	SAT		
28	TUE	National Science Day	20	28	TUE		40	28	FRI	Naan Mudhalvan	61	28	SUN		
				29	WED		41	29	SAT	Holiday		29	MON		
				30	THU		42	30	SUN	Holiday		30	TUE		
				31	FRI	Naan Mudhalvan	43					31	WED		
No. of Working days			20				23				15				17
														Total No.of working days for the semester :	78

Prepared by

Ms. N. Bhuvani, Asso Prof IT dept

Dr. R. Senthamil Selvi,Asso Prof CSE Dept

Principal

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SARANATHAN COLLEGE OF ENGINEERING, TRICHY-12

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Academic Planner for 2022 - 23 Odd Semester

AUG'22	DAY	DETAILS	Day order	working days	SEP'22	DAY	DETAILS	Day order	working days	OCT'22	DAY	DETAILS	Day order	working days	NOV'22	DAY	DETAILS	Day order	working days	DEC'22	DAY	DETAILS	Day order	working days
01	MON				01	THU		IV	9	01	SAT	Holiday			01	TUE		II	53	01	THU	Lab Record Work Completion	IV	77
02	TUE				02	FRI		V	10	02	SUN	Gandhi Jayanthi Holiday			02	WED		III	54	02	FRI	Syllabus Completion	V	78
03	WED				03	SAT		III	11	03	MON	Holiday			03	THU		IV	55	03	SAT	Holiday		
04	THU				04	SUN	Holiday			04	TUE	Ayudha Pooja Holiday			04	FRI		V	56	04	SUN	Holiday		
05	FRI				05	MON	Teacher's Day	I	12	05	WED	Vijayadhasami Holiday			05	SAT	Holiday			05	MON	Revision	I	79
06	SAT	Holiday			06	TUE		II	13	06	THU		IV	34	06	SUN	Holiday			06	TUE	Revision	II	80
07	SUN	Holiday			07	WED		III	14	07	FRI	Academic Review 2	V	35	07	MON	Academic Review 3	I	57	07	WED	Revision	III	81
08	MON				08	THU		IV	15	08	SAT		III	36	08	TUE		II	58	08	THU	Revision	IV	82
09	TUE				09	FRI	Academic Review 1	V	16	09	SUN	Milad-un-Nabi Holiday			09	WED	Department Association Event-Game of codes	III	59	09	FRI			
10	WED				10	SAT	Holiday			10	MON	IA Test 2	I	37	10	THU	IA Test 3	IV	60	10	SAT	Univ. Practical Exam commences		
11	THU	Avani Avittam			11	SUN	Holiday			11	TUE	IA Test 2	II	38	11	FRI	National Education Day IA Test 3	V	61	11	SUN	Holiday		
12	FRI	International Youth Day			12	MON	IA Test 1	I	17	12	WED	IA Test 2	III	39	12	SAT	IA Test 3	I	62	12	MON			
13	SAT				13	TUE	IA Test 1	II	18	13	THU	IA Test 2	IV	40	13	SUN	Holiday			13	TUE			
14	SUN	Holiday			14	WED	IA Test 1	III	19	14	FRI	IA Test 2	V	41	14	MON	Children's Day IA Test 3	I	63	14	WED			
15	MON	Independence Day Holiday			15	THU	Engineer's Day IA Test 1	IV	20	15	SAT	IA Test 2	I	42	15	TUE	IA Test 3, Debugging Contest	II	64	15	THU			
16	TUE				16	FRI	IA Test 1	V	21	16	SUN	Holiday			16	WED	IA Test 3	III	65	16	FRI			
17	WED				17	SAT	IA Test 1	I	22	17	MON		I	43	17	THU		IV	66	17	SAT	Holiday		
18	THU				18	SUN	Holiday			18	TUE		II	44	18	FRI		V	67	18	SUN	Holiday		
19	FRI	Krishna Jayanthi Holiday			19	MON		I	23	19	WED		III	45	19	SAT		II	68	19	MON			
20	SAT	Holiday			20	TUE		II	24	20	THU		IV	46	20	SUN	Holiday			20	TUE			
21	SUN	Holiday			21	WED		III	25	21	FRI		V	47	21	MON		I	69	21	WED	Univ. Theory Exam commences		
22	MON	Classes commence for III semester	I	1	22	THU	Student Feedback-1	IV	26	22	SAT	Holiday			22	TUE		II	70	22	THU	National Mathematics Day		
23	TUE		II	2	23	FRI		V	27	23	SUN	Holiday			23	WED		III	71	23	FRI			
24	WED		III	3	24	SAT	NSS Day	II	28	24	MON	Deepavali Holiday			24	THU		IV	72	24	SAT	Holiday		
25	THU		IV	4	25	SUN	Holiday			25	TUE	Holiday			25	FRI		V	73	25	SUN	Christmas Holiday		
26	FRI		V	5	26	MON		I	29	26	WED		III	48	26	SAT	Holiday			26	MON			
27	SAT		V	6	27	TUE		II	30	27	THU		IV	49	27	SUN	Holiday			27	TUE			
28	SUN	Holiday			28	WED		III	31	28	FRI	Silver Jubilee Lecture Series-Elite Lecture 02, Student Feedback-2	V	50	28	MON		I	74	28	WED			
29	MON		I	7	29	THU		IV	32	29	SAT		II	51	29	TUE	Knowledge Expo'22 - Project Presentation	II	75	29	THU			
30	TUE		II	8	30	FRI		V	33	30	SUN	Holiday			30	WED	Lab Record Work Completion	III	76	30	FRI			
31	WED	Vinayagar Chaturthi Holiday								31	MON	National Unity Day	I	52						31	SAT	Holiday		
No. of Working days			8	8				25	33				19	52				24	76				6	82

Total No. of working days for the semester : 82

SARANATHAN COLLEGE OF ENGINEERING, TRICHY-12

Department of Computer Science and Engineering

Academic Planner for Even Semester (2022-23) - II, III & IV UG

FEB'23	DAY	DETAILS	working days	MAR'23	DAY	DETAILS	working days	APR'23	DAY	DETAILS	working days	MAY'23	DAY	DETAILS	working days
01	WED	Classes commence for IV & VI semester T&P Training for III Year	1	01	WED	IA test-1 QP Submission	21	01	SAT	Holiday		01	MON	May Day Holiday	
02	THU	T&P Training for III Year	2	02	THU	Sports Day	22	02	SUN	Holiday		02	TUE	Academic Review 3	62
03	FRI	Founder's day T&P Training for III Year	3	03	FRI	College Day	23	03	MON	IA test-2 QP Submission	44	03	WED	Project Work Demo & Report submission (IV year)	63
04	SAT	T&P Training for III Year Holiday		04	SAT	Graduation Day Holiday		04	TUE		45	04	THU	IA test-3	64
05	SUN	Holiday		05	SUN	Holiday		05	WED		46	05	FRI	IA test-3	65
06	MON	Lesson Plan and Notes of Lesson Submission	4	06	MON	Academic Review 1	24	06	THU	Academic Review 2	47	06	SAT	IA test-3	66
07	TUE		5	07	TUE		25	07	FRI	Good Friday		07	SUN	Holiday	
08	WED		6	08	WED	Womania 2023 Women's	26	08	SAT	Holiday		08	MON	IA test-3	67
09	THU		7	09	THU	IA test-1	27	09	SUN	Holiday		09	TUE	IA test-3	68
10	FRI		8	10	FRI	IA test-1, Project Work I Review (IV year)	28	10	MON	IA test-2	48	10	WED	IA test-3	69
11	SAT	Holiday		11	SAT	IA test-1	29	11	TUE	IA test-2	49	11	THU	Lab Record Work Completion	70
12	SUN	Holiday		12	SUN	Holiday		12	WED	IA test-2	50	12	FRI	Syllabus Completion	71
13	MON		9	13	MON	IA test-1	30	13	THU	IA test-2, Project Work II Review (IV year)	51	13	SAT	Holiday	
14	TUE		10	14	TUE	IA test-1	31	14	FRI	Tamil New Year Day Holiday		14	SUN	Holiday	
15	WED	Project Work 0th Review (IV year)	11	15	WED	IA test-1	32	15	SAT	Holiday		15	MON	Commencement of University Practical exams	
16	THU		12	16	THU		33	16	SUN	Holiday		16	TUE		
17	FRI		13	17	FRI		34	17	MON	IA test-2	52	17	WED		
18	SAT	Holiday		18	SAT	Holiday		18	TUE	IA test-2	53	18	THU		
19	SUN	Holiday		19	SUN	Holiday		19	WED		54	19	FRI		
20	MON	Classes commence for VIII semester	14	20	MON	Students Feedback-I	35	20	THU		55	20	SAT		
21	TUE		15	21	TUE		36	21	FRI		56	21	SUN		
22	WED		16	22	WED	Telugu New Year Day Holiday		22	SAT	Ramzan Holiday		22	MON		
23	THU		17	23	THU		37	23	SUN	Holiday		23	TUE		
24	FRI	Sara Hackathon 2023	18	24	FRI		38	24	MON	Students Feedback-II, Workshop	57	24	WED		
25	SAT	Sara Hackathon 2023		25	SAT	Holiday		25	TUE		58	25	THU		
26	SUN	Holiday		26	SUN	Holiday		26	WED		59	26	FRI	Commencement of University Theory exams	
27	MON		19	27	MON		39	27	THU	Founder's Memorial day	60	27	SAT		
28	TUE		20	28	TUE		40	28	FRI	IA test-3 QP Submission	61	28	SUN		
				29	WED		41	29	SAT	Holiday		29	MON		
				30	THU		42	30	SUN	Holiday		30	TUE		
				31	FRI		43					31	WED		
No. of Working days			20				23				18				10
														Total No.of working days for the semester :	71

H.O.D. (CSE)
Saranathan College of Engg.

SARANATHAN COLLEGE OF ENGINEERING
Venkateswara Nagar, Panjappur, Tiruchirappalli - 620012

Department of Computer Science and Engineering

WORKLOAD ALLOCATION FOR ACADEMIC YEAR 2022 -23(ODD)

Sl.No	Name of the Faculty	Name of the Subject	Section	Year / Sem	Theory/ Lab	Hours	Total Hours
1	Dr.V.Punitha	CS8792-Cryptography and Network Security	B	IV / VII	Theory	5	8
		CP4311-Project Work I	PG	II/III	Lab	3	
2	Dr.P.D.Sheba Keiza Malarchelvi	CP4151-Advanced Data Structures and Algorithms	PG	I/I	Theory	5	19
		CP4161-Advanced Data Structures and Algorithms Lab	PG	I/I	Lab	3	
		AD3301 - Data Exploration and Visualization - AI&DS	-	II/III	Theory	6	
		GE8151-Problem Solving and Python Programming	-	I/I	Theory	5	
3	Dr.S.Mohana	CS8591-Computer Networks	A	III/V	Theory	5	21
		CS8581- Networks Lab	A	III/V	Lab	6	
		RM4151-Research Methodology and IPR	PG	II/III	Theory	5	
		IT8075- Software Project Management	A	IV / VII	Theory	5	
4	Dr.PL.Rajarajeswari	CS8792-Cryptography and Network Security	A	IV / VII	Theory	5	22
		IT8761- Security Lab	A	IV / VII	Lab	6	
		CS3301- Data Structures	A	II/III	Theory	5	
		CS3311- Data Structures Lab	A	II/III	Lab	6	
5	Dr.R.Senthamil selvi	CS8791- Cloud Computing	A	IV / VII	Theory	5	21
		CS8711- Cloud Computing Lab	A	IV / VII	Lab	6	
		CP4351-Security Practices	PG	II/III	Theory	5	
		CS8501-Theory of Computation	A	III/V	Theory	5	
6	Mr.K.S.Chandrasekaran	CS3391- Object Oriented Programming	A	II/III	Theory	5	22
		CS3381- Object Oriented Programming Lab	A	II/III	Lab	6	
		AD3391- Database Design and Management- AI&DS	-	II/III	Theory	5	
		AD3381-Database Design and Management Lab	-	II/III	Lab	6	
7	Mr.B.Rethina kumar	CS3352-Foundation of Data Science	B	II/III	Theory	5	24
		CS3361-Data Science Lab	B	II/III	Lab	6	
		OBM752 - Hospital Management	A	IV / VII	Theory	5	
		CP4094- Mobile and Pervasive Computing	PG	II/III	Theory	5	
		IBM - PROJECT	A	IV / VII	Lab	3	
8	Mr.D.Boobala Muralidharan	CS8592-Object Oriented Analysis and Design	B	III/V	Theory	5	21
		CS8582-Object Oriented Analysis and Design Lab	B	III/V	Lab	6	
		CP4154-Principles of Programming Languages	PG	I/I	Theory	5	
		MG8591 - Principles of Management	B	IV / VII	Theory	5	
9	Mr.R.Karthik	GE8151-Problem Solving and Python Programming	-	I/I	Theory	5	23
		GE8161-Python Programming Lab	-	I/I	Lab	4	
		CS3301- Data Structures	A	II/III	Theory	5	
		CS3311- Data Structures Lab	A	II/III	Lab	6	
		IBM - PROJECT	B	IV / VII	Lab	3	
10	Ms.K.Mohanappriya	CS3351- Digital Principles and Computer Organization	B	II/III	Theory	6	21
		CS8501-Theory of Computation	B	III/V	Theory	5	
		Training and Placement	A	III/V	Theory	2	
		CP4152-Database Practices	PG	II/III	Theory	5	
		IBM - PROJECT	A	IV / VII	Lab	3	
11	Ms.J.SathiaParkavi	CS8592-Object Oriented Analysis and Design	A	III/V	Theory	5	20
		CS8582-Object Oriented Analysis and Design Lab	A	III/V	Lab	6	
		GE8161-Python Programming Lab	-	I/I	Lab	4	
		IT8075- Software Project Management	B	IV / VII	Theory	5	
		CS8791- Cloud Computing	B	IV / VII	Theory	5	

12	Mr.A.T.Barani Vijayakumar	CS8711- Cloud Computing Lab	B	IV / VII	Lab	6	19
		CS3351- Digital Principles and Computer Organization - CSBS	-	II/III	Theory	6	
		Training and Placement	-	III/V		2	
13	Ms. E. Shapna Rani	GE8151-Problem Solving and Python Programming	-	I/I	Theory	5	20
		GE8161-Python Programming Lab	-	I/I	Lab	4	
		CS3351 - Data Structures (ECE)	A	II/III	Theory	5	
		CS3361 - Data structures Lab	A	II/III	Lab	6	
14	Mr.B.Arun Prasad	CS8591-Computer Networks	B	III/V	Theory	5	23
		CS8581- Networks Lab	B	III/V	Lab	6	
		GE8151-Problem Solving and Python Programming	-	I/I	Theory	5	
		GE8161-Python Programming Lab	-	I/I	Lab	4	
		IBM - PROJECT	B	IV / VII	Lab	3	
15	Ms.G.Iswarya	CS3391- Object Oriented Programming	B	III/V	Theory	5	20
		CS3381- Object Oriented Programming Lab	B	III/V	Lab	6	
		GE8161-Python Programming Lab	-	I/I	Lab	4	
		OCS752- Introduction to C Programming (EEE)	A	IV / VII	Theory	5	
16	Ms.R.Hema	CS3352-Foundation of Data Science	A	II/III	Theory	5	19
		CS3361-Data Science Lab	A	II/III	Lab	6	
		GE8161-Python Programming Lab	-	I/I	Lab	4	
		GE8076- Professional Ethics in Engineering	A	III/V	Theory	4	
17	Ms.N.Ramya	OBM752 - Hospital Management	B	IV / VII	Theory	5	22
		GE8161-Python Programming Lab	-	I/I	Lab	12	
		OCS752- Introduction to C Programming (EEE)	B	IV / VII	Theory	5	
18	Ms.S.Ranjani	CS3351- Digital Principles and Computer Organization	A	II/III	Theory	6	21
		GE8151-Problem Solving and Python Programming	-	I/I	Theory	5	
		GE8161-Python Programming Lab	-	I/I	Lab	4	
		IT8761- Security Lab	B	IV / VII	Lab	6	
19	Ms.Banu priya	CS3354-Data Structure and OOPs (ICE)	-	II/III	Theory	5	17
		CS3363- Data Structure and OOPs Lab	-	II/III	Lab	3	
		GE8151-Problem Solving and Python Programming	-	I/I	Theory	5	
		GE8161-Python Programming Lab	-	I/I	Lab	4	
20	Ms.K.Gomathi	CS8392- Object Oriented Programming- EEE	A	II/III	Theory	5	21
		CS8383- Object Oriented Programming Lab	A	II/III	Lab	6	
		MP4252-Mobile Application Development	PG	II/III	Theory	5	
		OEC552- Geographic Information Systems	B	III/V	Theory	5	
21	Ms.E.Elankathir	CS3351 - Data Structures (ECE)	B	II/III	Theory	5	20
		CS3361 - Data structures Lab	B	II/III	Lab	6	
		GE8151-Problem Solving and Python Programming	-	I/I	Theory	5	
		GE8161-Python Programming Lab	-	I/I	Lab	4	

Timetable Coordinator

HoD/CSE

Principal

SARANATHAN COLLEGE OF ENGINEERING
Venkateswara Nagar, Panjappur, Tiruchirappalli - 620012
Department of Computer Science and Engineering
WORKLOAD ALLOCATION FOR ACADEMIC YEAR 2022 -23(EVEN)

Sl.No	Name of the Faculty	Name of the Subject	Section	Year / Sem	Theory/ Lab	Hours	Total Hours
1	Dr.V.Punitha	CS3401- Algorithms	A	II / IV	Theory	5	10
		CS3401- Algorithms Laboratory	A	II / IV	Lab	2	
		CP4411 Project Work II	PG	II / IV	Lab	3	
2	Dr.P.D.Sheba Kezia MalarChelvi	CS8603 Distributed Systems	A	III / VI	Theory	5	19
		CP4251 Internet of Things	PG	I / II	Theory	5	
		CS8811 Project Work	A	IV/ VIII	Lab	3	
		CS3481 Database Munagement Systems Laboratory	B	II / IV	Lab	6	
3	Dr.S.Mohana	On Leave					-
4	Dr.P.L.Raja Rajeswari	On Leave					-
5	Dr.R.Senthamil selvi	CS8602 - Compiler Design	A	III / VI	Theory	5	21
		CS8602 - Compiler Design Laboratory	A	III / VI	Theory	2	
		CP4252 Machine Learning	PG	I/II	Theory	5	
		CS8611 Mini Project	A	III / VI	Lab	3	
		CS8661 Internet Programming Laboratory	A	III / VI	Lab	6	
6	Mr.K.S.Chandrasekaran	CS3401 Algorithms	B	II / IV	Theory	5	18
		CS3401 Algorithms Laboratory	B	II / IV	Lab	2	
		CS8651 Internet Programming	A	III / VI	Theory	5	
		CS8661 Internet Programming Laboratory	A	III / VI	Lab	6	
7	Mr.B.Rethina kumar	CS3451 Introduction to Operating Systems	B	II / IV	Theory	5	19
		CS3461 Operating Systems Laboratory	B	II / IV	Lab	6	
		CS8691 Artificial Intelligence	A	III / VI	Theory	5	
		CP4211 Term Paper and seminar	PG	III / VI	Lab	3	
8	Mr.D.Boobala Muralidharan	CS8603 Distributed Systems	B	III / VI	Theory	5	19
		CP4253 Multi core Architecture and Programming	PG	I / II	Theory	5	
		CS8811 Project Work	B	IV/ VIII	Lab	3	
		CS8661 Internet Programming Laboratory	A	III / VI	Lab	6	
9	Mr.R.Karthik	CS8075-Data Warehousing and Mining	A	III / VI	Theory	5	19
		BD4251 Big Data Mining and Analytics	PG	I / II	Theory	5	
		CS3481 Database Management Systems Laboratory	A	II / IV	Lab	6	
		CP4212 Software Engineering Laboratory	PG	I / II	Lab	3	
10	Ms.K.Mohanappriya	CS3452- Theory of Computation	B	II / IV	Theory	5	21
		CS3251- Programming in C	A	I / II	Theory	5	
		CS3271 Programming in C Laboratory	A	I / II	Lab	3	
		CS3461 Operating Systems Laboratory	B	II / IV	Lab	6	
		Training and Placement	A	III / VI	Theory	2	
11	Ms.J.SathiaParkavi	CS3452- Theory of Computation	A	II / IV	Theory	5	19
		CS3251- Programming in C	B	I / II	Theory	5	
		CS3271 Programming in C Laboratory	B	I / II	Lab	3	
		CS3461 Operating Systems Laboratory	A	II / IV	Lab	6	

SARANATHAN COLLEGE OF ENGINEERING
Venkateswara Nagar, Panjappur, Tiruchirappalli - 620012
Department of Computer Science and Engineering
WORKLOAD ALLOCATION FOR ACADEMIC YEAR 2022 -23(EVEN)

Sl.No	Name of the Faculty	Name of the Subject	Section	Year / Sem	Theory/ Lab	Hours	Total Hours
12	Mr.A.T.Barani Vijayakumar	CS8601 Mobile Computing	B	III / VI	Theory	5	18
		CS8662 Mobile Application Development Laboratory	B	III / VI	Lab	6	
		Training and Placement	B	III / VI	Theory	2	
		MP4251 Cloud Computing Technologies	PG	I / II	Theory	5	
13	Mr.B.Arun Prasad	CS3491 Artificial Intelligence and Machine Learning	B	II / IV	Theory	5	17
		CS3491 Artificial Intelligence and Machine Learning Laboratory	B	II / IV	Lab	2	
		CS8075-Data Warehousing and Mining	B	III / VI	Theory	4	
		CS8662 Mobile Application Development Laboratory	A	III / VI	Lab	6	
14	Ms.G.Iswarya	CS3451 Introduction to Operating Systems	A	II / IV	Theory	5	16
		CS3461 Operating Systems Laboratory	A	II / IV	Lab	6	
		CS8080 Information Retrieval Techniques	B	III / VI	Theory	5	
15	Ms.Banu priya	CS8601 Mobile Computing	A	III / VI	Theory	4	16
		CS8662 Mobile Application Development Laboratory	A	III / VI	Lab	6	
		CS8611 Mini Project	A	III / VI	Lab	3	
		CS3271 Programming in C Laboratory	B	I / II	Lab	3	
16	Ms. E. Shapna Rani	CS8602 Compiler Design	B	III / VI	Theory	5	21
		CS8602 Compiler Design Laboratory	B	III / VI	Theory	2	
		CS3251- Programming in C	AI/ML	I/II	Theory	5	
		CS3271 Programming in C Laboratory	AI/ML	I / II	Lab	3	
		CS8662 Mobile Application Development Laboratory	B	III / VI	Lab	6	
17	Ms.S.Ranjani	CS8651 Internet Programming	B	III / VI	Theory	5	16
		CS8661 Internet Programming Laboratory	B	III / VI	Lab	6	
		CS8080 Information Retrieval Techniques	A	III / VI	Theory	5	
3	Ms.K.Gomathi	CS3491 Artificial Intelligence and Machine Learning	A	II / IV	Theory	5	15
		CS3491 Artificial Intelligence and Machine Learning Laboratory	A	II / IV	Lab	2	
		SE4151 Advanced Software Engineering	PG	I / II	Theory	5	
		CS8611 Mini Project	B	III / VI	Lab	3	
19	Ms.N.Ramya	CS3492 Database Management Systems	B	II / IV	Theory	5	19
		CS3481 Database Management Systems Laboratory	B	II / IV	Lab	6	
		CS8691 Artificial Intelligence	B	III / VI	Theory	5	
		CS3271 Programming in C Laboratory	AI/ML	I / II	Lab	3	
20	Ms.E.Elankathir	CS3492 Database Management Systems	A	II / IV	Theory	5	17
		CS3481 Database Management Systems Laboratory	A	II / IV	Lab	6	
		CS8611 Mini Project	B	III / VI	Lab	3	
		CS3271 Programming in C Laboratory	A	I / II	Lab	3	

Timetable Coordinator

HoD/CSE

Principal

SARANATHAN COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi, NBA Accredited, Affiliated to Anna University, Chennai)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

REVIEW OF COURSE FILE-CS3491-ARTIFICAL INTELLIGENCE AND MACHINE LEARNING

S. No.	Details	Review		
	Date:	1 17/4/2022	2 6/6/2022	3 30/9/2022
1.	Vision, Mission, PEOs, POs, PSOs, Blooms taxonomy [1]	✓	✓	✓
2.	Timetable/Workload of the staff – Distribution of teaching load – Roles and Responsibilities[1]	✓	✓	✓
3.	Syllabus signed by staff & HoD[1]	✓	✓	✓
4.	Lecture Schedule signed by staff & HoD[1]	✓	✓	✓
5.	Course Committee meeting circular and minutes[1]	✓	✓	✓
6.	Identification of Curricular gap and Content Beyond the syllabus[1]	✓	✓	✓
7.	Previous AU Question papers (at least 5)[1]	NA	NA	NA
8.	Unit wise Q&A and Objective type questions-20 questions in each unit with answers[1]		✓	✓
9.	Unit wise course material [1]	✓	✓	✓
10.	Assignment question paper with sample answer sheets (at least 3) and mark entry [234]	✓	✓	✓
11.	Tutorial question paper with key (minimum 3 Tutorials per unit, 15 Tutorials per course) and mark entry [234]	NA	NA	NA
12.	IA test Q Paper with Key, sample answer papers (at least 3) and mark entry[234]	✓	✓	✓
13.	IA Test- Performance analysis-CAP-evidence-root cause analysis. [234]	✓	✓	✓
14.	Makeup Test –Q paper-Attendance-marks - sample answer papers[234]	✓	✓	✓
15.	Remedial Test–Q paper-Attendance-marks - sample answer papers[234]	✓	✓	✓
16.	AU Web portal entry sheet[234]	✓	✓	✓
17.	Very poor performance in first two tests-action taken - communication to parents-evidence.[23]	NA	NA	NA
18.	Absence for two tests-action taken-communication to parents-evidence. [23]	NA	NA	NA
19.	Indiscipline of student reported, if any [234]	NA	NA	NA
20.	Special class/coaching class/remedial class/attendance-CAP [234]	✓	✓	✓
21.	Conduct of Seminar, Quizzes - proof[234]	✓	✓	✓
22.	Content beyond the syllabus – proof [234]		✓	✓
23.	Course end survey [4]			✓
24.	Internal Assessment sheet [4]		✓	✓
25.	AU question paper with students feedback [5]		✓	✓
26.	Discrepancy of the question paper and correspondence, if any [5]		✓	✓
27.	AU result analysis-Details of arrear students. [5]			✓
28.	AU grade sheet [5]			✓
29.	CO – PO & PSO attainment sheet [5]			✓
Signature of Course handling faculty				
Signature of HoD		17/4/22	6/6/22	30/9/22

SARANATHAN COLLEGE OF ENGINEERING

PANJAPPUR, TIRUCHIRAPPALLI - 620 012.

COURSE LOG BOOK

THEORY

Academic Year 2023

Name E. ELANKATHIR

Designation ASSISTANT PROFESSOR

Department COMPUTER SCIENCE AND ENGINEERING

Semester 04 Year II

Course Title / Code Database Management System / CS3492

Name : E. Manikandan

Designation : Assistant professor

Department : CSE

Academic Year : 2023

Semester / Year : IV / II

Details of Courses assigned to teach :

1. Programme : B.E - CSE

2. Discipline : Sem - 04

3. Section : 'D'

4. Course Code : CS2402

5. Course Title : Database Management System

COURSE SCHEDULE

Day Order	1 9.15 10.05	2 10.05 10.55	10.55 11.05	3 11.05 11.55	4 11.55 12.45	12.45 1.25	5 1.25 2.15	6 2.15 3.05	3.05 3.15	7 3.15 4.00	8 4.00 4.45
I			BREAK			LUNCH BREAK			BREAK	SBNS	
II					DSNJ						
III		DSNS									
IV											DBNS
V											

Vision of the Department

Vision of the Department

To evolve as a centre of academic excellence and advanced research in Computer Science and Engineering discipline.

Mission of the Department

Mission of the Department

1. To inculcate in students a profound understanding of fundamentals related to discipline.
2. To inculcate skills, attitudes and their applications in solving real world problems with an inclination towards societal issues and research.
3. To promote research in the emerging areas of computer science and technology

Program Educational Objectives (PEO's) :

PEO1: Acquire strong foundation in the mathematical, scientific and engineering fundamentals necessary to formulate, solve and analyze engineering problems.

PEO2: Develop the ability to analyze the requirements of the software, understand the technical specifications, design and provide novel engineering solutions and efficient software/hardware designs.

PEO3: Have exposure to emerging cutting edge technologies, adequate training & opportunities to work as teams on multidisciplinary projects with effective communication skills and leadership qualities.

PEO4: Have awareness on the life-long learning and prepare them for research development and consultancy.

PEO5: Have a successful career and work with values & social concern bridging the digital divide and meet the requirements of Indian and multinational companies.

Program Specific Outcomes (PSOs)

PSO1: Foundation of mathematical concepts: To use mathematical methodologies to crack problem using suitable mathematical analysis, data structure and suitable algorithm.

PSO2: Foundation of Computer System: the ability to interpret the fundamental concepts and methodology of computer systems. Students can understand the functionality of hardware and software aspects of computer systems.

PSO3: Foundations of Software development: the ability to grasp the software development life cycle and methodologies of software systems. Possess competent skills and knowledge of software design process. Familiarity and practical proficiency with a broad area of programming concepts and provide new ideas and innovations towards research

Course Outcomes (COs)

C218.1 : Study the fundamentals of data models and to represent a db system.

C218.2 : Apply ER model to Relational model to perform database design effectively and to perform normalization in database.

C218.3 : understand and analyze the fundamentals concept of transactions

C218.4 : Compare and contrast various indexing strategies in diff db s/m.

C218.5 : Illustrate and construct query optimization techniques in database systems.

C218.6 : Appraise the difference between advanced database and traditional database.

COs	Programme Outcomes												PSOs			
	1	2	3	4	5	6	7	8	9	10	11	12	I	II	III	IV
C218.1	2	3	3	3	1	–	–	–	2	2	1	2	3	3	2	–
C218.2	3	3	3	2	1	–	–	–	1	1	1	2	3	3	1	–
C218.3	3	3	3	2	1	–	–	–	2	1	1	2	3	3	1	–
C218.4	3	3	2	3	1	–	–	–	2	1	1	2	2	2	1	–
C218.5	3	3	3	2	1	–	–	–	3	1	1	2	2	2	1	–
C218.6	3	2	3	2	1	–	–	–	3	1	1	2	2	2	1	–

(3)

LESSON PLAN

UNIT-I RELATIONAL DATABASES 12

Syllabus: Purpose of Database System – Views of data – Data Models – Database System Architecture – Introduction to relational databases – Relational Model – Keys – Relational Algebra – SQL fundamentals – Advanced SQL features – Embedded SQL– Dynamic SQL

Session No	Topics to be covered	Lecture periods	Ref	Teaching Method
1.	Introduction and advantages o database management systems	1	1	BB
2.	Applications of DBMS	1	1	BB
	Views of data			
	Instances and schemas			
3.	Data models	2	1	BB
4.	Architecture-DBMS	2	1	BB
	Two-tier and Three-tier			
5.	Introduction to relational databases	1	1	BB
6.	Relational model	1	1	BB
	Keys			
7.	Relational algebra	2	1	BB
	Relational operations			
8.	SQL fundamentals	1	1	BB
	Advanced SQL features			
9.	Embedded SQL	1	1	BB
	Dynamic SQL			

UNIT II DATABASE DESIGN 11

Syllabus: Entity-Relationship model – E-R Diagrams – Enhanced-ER Model – ER-to-Relational Mapping – Functional Dependencies – Non-loss Decomposition – First, Second, Third Normal Forms, Dependency Preservation – Boyce/Codd Normal Form – Multi-valued Dependencies and Fourth Normal Form – Join Dependencies and Fifth Normal Form

Session No	Topics to be covered	Lecture periods	Ref	Teaching Method
10.	Entity-Relational model	1	1	BB
11.	E-R diarams	1	1	BB
12.	Enhanced –ER model	1	1	BB
13.	ER-to-Relational Mapping	1	1	BB
14.	Functional dependencies	2	1	BB
	Non-loss decompositions			
15.	Introduction to Normal Forms	1	1	BB
	First, Second and third Normal Forms			
16.	Dependency preservation	1	1	BB
17.	Boyce Codd Normal Form	1	1	BB
18.	Multi-valued Dependencies and Fourth Normal Form	2	1	BB
	Join Dependencies and Fifth Normal Form			

LESSON PLAN

NIT III TRANSACTIONS 15

Syllabus: Transaction Concepts – ACID Properties – Schedules – Serializability – Transaction support in SQL – Need for Concurrency – Concurrency control –Two Phase Locking- Timestamp – Multiversion – Validation and Snapshot isolation– Multiple Granularity locking – Deadlock Handling – Recovery Concepts – Recovery based on deferred and immediate update – Shadow paging – ARIES Algorithm

Session No	Topics to be covered	Lecture periods	Ref	Teaching Method
17.	Transaction Concepts	1	1	BB
18.	ACID Properties	1	1	BB
19.	Schedules	1	1	BB
20.	Serializability	2	1	BB
21.	Transaction support in SQL	1	1	BB
22.	Need for Concurrency	2	1	BB
	Concurrency control			
24.	Two Phase Locking	2	1	BB
	Timestamp – Multiversion			
25.	Validation and Snapshot isolation	1	1	BB
	Multiple Granularity locking			
26	Deadlock Handling	2	1	BB
	Recovery Concepts			
27.	Recovery based on deferred and immediate update	1	1	BB
28.	Shadow paging	1	1	BB
	ARIES Algorithm			

UNIT IV IMPLEMENTATION TECHNIQUES 12

Syllabus: RAID – File Organization – Organization of Records in Files – Data dictionary Storage – Column Oriented Storage– Indexing and Hashing –Ordered Indices – B+ tree Index Files – B tree Index Files – Static Hashing – Dynamic Hashing – Query Processing Overview – Algorithms for Selection, Sorting and join operations – Query optimization using Heuristics –Cost Estimation.

Session No	Topics to be covered	Lecture periods	Ref	Teaching Method
29.	RAID – File Organization	2	1	BB
30.	Organization of Records in Files	1	1	BB
31.	Data dictionary Storage Column Oriented Storage	1	1	BB
32.	Indexing and Hashing	2	1	BB
	Ordered Indices			
33.	B+ tree Index Files	2	1	BB

	B tree Index Files			
34.	Static Hashing – Dynamic Hashing	1	1	BB
35.	Query Processing Overview	2	1	BB
	Algorithms for Selection, Sorting and join operations			
36.	Query optimization using Heuristics	1	1	BB
	Cost Estimation.			

UNIT V ADVANCED TOPICS **12**

Syllabus: Distributed Databases: Architecture, Data Storage, Transaction Processing, Query processing and optimization – NOSQL Databases: Introduction – CAP Theorem – Document Based systems – Key value Stores – Column Based Systems – Graph Databases. Database Security: Security issues – Access control based on privileges – Role Based access control – SQL Injection – Statistical Database security – Flow control – Encryption and Public Key infrastructures – Challenges

Session No	Topics to be covered	Lecture periods	Ref	Teaching Method
37.	Distributed Databases: Architecture	1	1	BB
38.	Data Storage	1	1	BB
	Transaction Processing			
39.	NOSQL Databases: Introduction	1	1	BB
	CAP Theorem			
40.	Document Based systems	1	1	BB
	Key value Stores			
41.	Column Based Systems	1	1	BB
	Graph Databases			
42.	Database Security: Security issues	1	1	BB
	Access control based on privileges	1	1	BB
43.	Role Based access control	2	1	BB
	SQL Injection			
44.	Statistical Database security	1	1	BB
	Flow control			
45.	Encryption and Public Key infrastructures	2	1	BB
	Challenges			

TEXT BOOK and REFERENCES:

1.Abraham Silberschatz, Henry F. Korth, S. Sudharshan, "Database System Concepts", Seventh Edition, McGraw Hill, 2020.

2. Ramez Elmasri, Shamkant B. Navathe, "Fundamentals of Database Systems", Seventh Edition, Pearson Education, 2017.

	Name of the Faculty	HOD
Signature	E. Sankathiresan	

SARANATHAN COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Assignment No:01			Date of Issue:	23/09/2022	Marks	20
Course code	OBM752	Course Title	Hospital management			
Academic Year (Odd/Even)	ODD2022	Year /Semester /Section	IV/VII/B	Date of Submission:	27/09/2022	

Q.No	Questions	CO	Blooms Taxonomy
1.	Write the functions of hospital.	C406E12.1	R
2.	Explain the strategies to meet the challenges of hospital with diagram.	C406E12.1	R
3.	Mention the HR manager's plan.	C406E12.2	R
4.	Explain about manpower planning.	C406E12.2	R

[N. RAMYA]

Name and Signature of the Facultyin charge

HoD/CSE

Saranathan College of Engineering

Department of Computer Science & Engineering

Rubrics for Assignment Evaluation

Rubric Components	Level 1	Level 2	Level 3	Unit-1	Unit-2
Content (6)	The content is common or partly relevant (0-2)	The content is precise but normal (3-4)	The content is precise and novel (5-6)	6	6
Submission of Assignment (2)	Submitted but overdue (0-1)		Submitted on date (2)	2	2
Presentation (2)	Presentation is not clear (0)	Presentation is neat but not clear (1)	Presentation is neat and structured (2)	2	2
Student's Score (10)	(0 – 3)	(4 – 6)	(9 – 10)	10	10
		Total		20	

Signature of Faculty -In charge

UNIT - 1

Functions of Hospital

Though there are many functions of a hospital, all of them are subordinate to its main objective and must never be allowed to detract in any respect from the care given to the sick and injured.

The 4 main functions of hospital are:

(i) To provide care for the sick and injured.
(ii) Training of physicians, nurses and other personnel.
(iii) Prevention of disease and promotion of health.
(iv) Advancement of research in scientific medicines.

(i) To provide care for the sick and injured:

* This can be done by accomodating them according to their physical condition and financial status.
* When we talk of physical condition, we mean that some patients are seriously ill and require admission in Intensive Care Unit while others are not so seriously ill and can be accomadated elsewhere according to their financial status.
* There may be some patients who may require isolation.
* In that case, they should be kept in isolated room, but the building should be kept always in a good state of repair, pleasing appearance and providing the patient every mental and physical comfort.
* In every hospital, there should be sufficient diagnostic and treatement facilities available such as medical laboratory, X-Ray, ultrasound, MRI and CT scan for diagnosis, and operation theatre for surgery, labour room for delivery, nursery for children, physical therapy for rehabilitation of patients so that they may be properly treated.

(ii) Training of physicians, nurses and other personnel

* They receive their training in both theory and practice in approved schools and colleges.
* Therefore, a hospital being a complex and specialized organization must employ highly trained personnel so that they may train others.
* Particularly in the branch of medical and paramedical education, different associations/councils play very important roles.
* They make surveys of hospitals and accord their approval.
* Once these approved, hospitals can provide training in medicine, nursing, pharmacy, physiotherapy, administration, medical social work, medical record history, x-ray and medical record technology, etc.
* Capable boys and girls should be attracted to such courses as a career which offer them fair remuneration, opportunities for self-development, and reasonable security.

(iii) Prevention of disease and promotion of health:

* It is the duty of the hospitals to cooperate with the government agencies.
* They can treat patients of communicable and non-communicable diseases, notify the recognized authorities of any communicable disease of which it has knowledge, assist in vaccination programmes of the government, etc.

(iv) Advancement of research in scientific medicine:

* In light of the broad social responsibility for maintaining and restoring the health, it is an

important function. but no hospital is permitted to do direct experiments on patients.

* It must resort to necessary tests in labs and on animals
* They can do so by making observation of functions of the body in health and in disease.
* They will have to maintain clinical record of patients accurately and it can be made available for study at any time to physicians and surgeons.

d. Strategies to meet challenges with diagram.

Challenges to administrative abilities have come from within the health field as well as from the public. For instance:

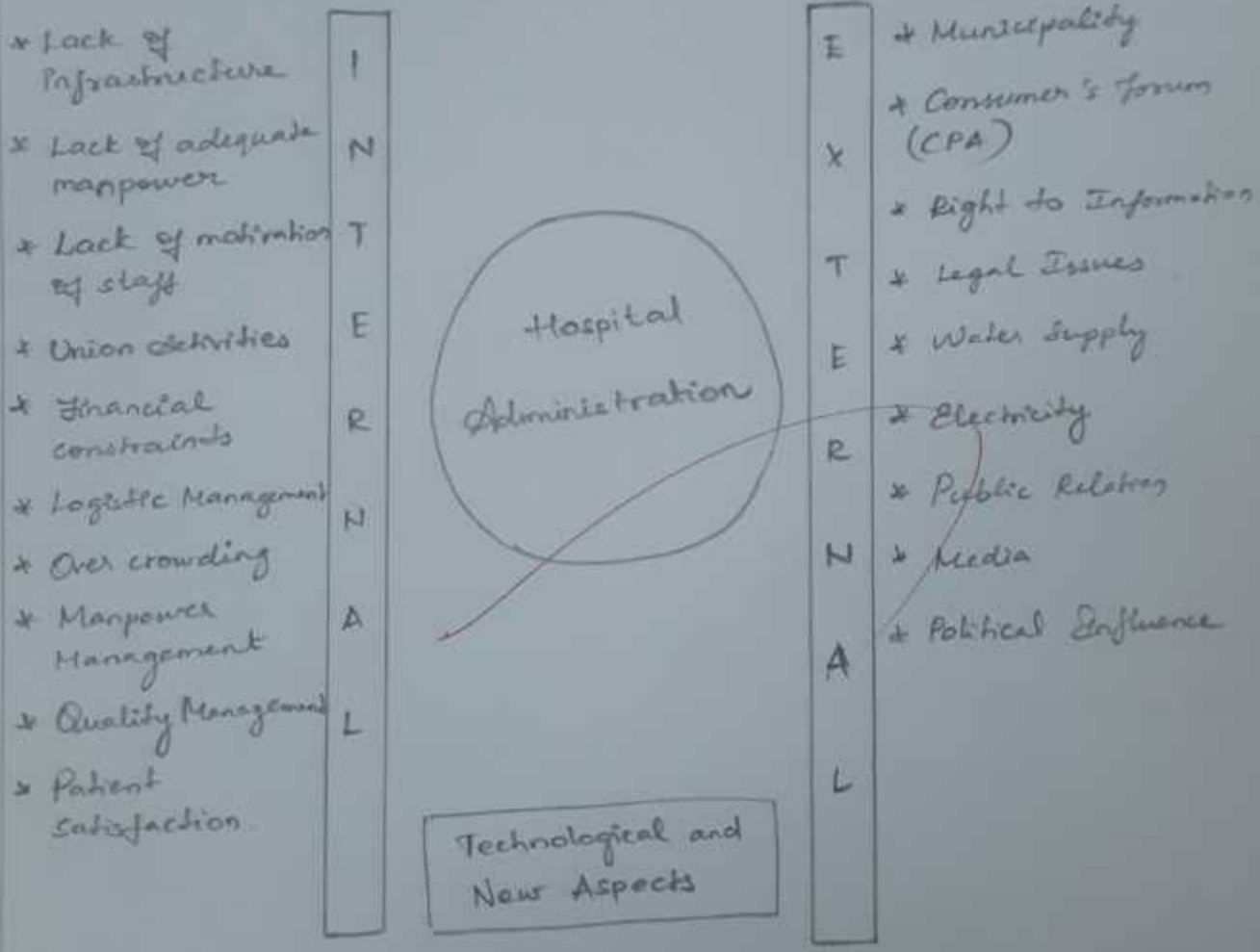
1) Business and professional leaders who were linked into the hospital scene as trustees of voluntary hospitals
2) The large no. of physicians who comprise the medical staff of today's hospital and who are especially concerned about the facilities & services available for the care of their patients.
3) Professional organizations which prescribe various standards of hospital operation while granting approval to the hospital.
4) Academicians who are concerned about matching what they teach with the requirements of the patients and hospital administrations.
5) Labour demanding standards of employment and working conditions at least equal to if not better than prevailing in other industries.

6) Trustees of the Trust Hospitals, members of Registered Society Hospitals, shareholders of Corporate Hospitals, and other who have been their own masters and have been operating with no restraints so far will have to face increasing professionalism threating their power and existence.

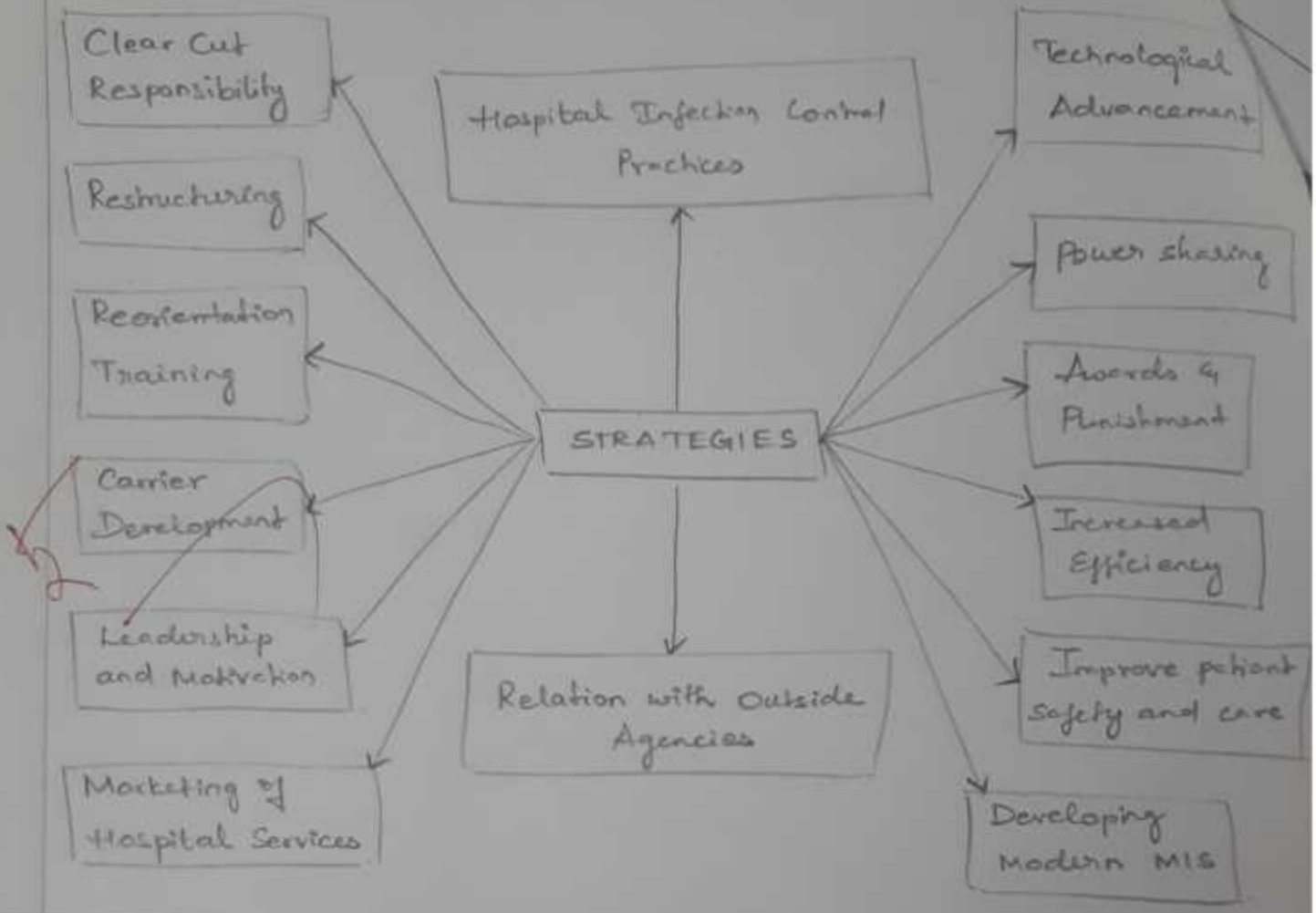
These professionals will bring professionalism in running the hospitals, meaning thereby decentralization in decision making and strategic management to survive in the society.

* No CEO of any hospital will be able to run his hospital without collecting sufficient funds from his patients rather than from trustees, society members, shareholders, philanthropists, etc.
* Of late a new challenge in that of being environment friendly.
* It should be remembered that credibility and effectiveness are mutually dependent and proportional.
* The CEO of a hospital must guard his credibility at all cost.
* He must be able to provide latest technology and vision.
* He should push for change when it is required in the interest of patients, employees and the community at large.
* The CEO of a hospital will have to serve as a catalyst for relationship building between patients and employees, government agencies and his hospital and between hospitals and his own hospital.
* It is also important for the hospital CEO to be a business practitioner first and then a technologist.

* His responsibility includes executive communication, budgets, building relationships, management, problem solving, etc.
* In order to take care of these responsibilities, a successful CEO must develop sharp business acumen.



* Competitive Healthcare
* Quality Management
* ISO Certification
* NABH certification
* Patient Safety
* Robotic Surgery
* Modern Investigation (MRI, C.T.)
* High level of customer expectation
* Shortage of Technical Manpower



UNIT - 2

1. HR Manager's Plan

Manpower planning is identifying the appropriate workforce, training them to perform well, keeping them motivated to put their best and to given them the organization's best are all a vital part of contemporary corporate requirements.

The responsibility of the managers began with manpower planning, and the effective identification of the right people who would prove to be true assets of the organization.

So far as identification is concerned, it takes place at 2 levels:

⇒ Recruitment of the fresh employees: They should be given on job training and placed under the supervision of established supervisors.

⇒ In recruiting experienced hands, monitoring and analyzing are important

HR managers must remember the following five points in the interest of employees as well as organization:

1. Begin with a smile:

* Human resource programmes and giving due importance to employees are not to be put off for a latter stage, but should begin the day the prospective employee meets his HR Manager.
* To begin with, it is very important to be honest with the potential staff.
* Right from the time of recruitment, the human resource manager should tell all about their working practices, culture and ethics to the employees.

2. Train the brain

* New employees acquainted with the practices prevalent in the organization.
* They should be trained into this mode of operation and not thrown out with the fork.
* Education and theory do not help with an individual develop a perspective to the process involved but it is practical training that helps them perform better.
* The more an employee trains himself and hone his skills, constantly, the greater will be his ability not only to perform but also to deal with problems.

3. Lead kindly light :

* A Leader has to be effective
* He holds the responsibility to keep his team motivated and driven to work not by coercion but through guidance.
* He should display competence and ability.

4. The route to develop :

* The development of employee is of paramount importance.
* If the employee develop, the organization develops naturally.
* Every individual employee has his own needs, aspirations and abilities.
* It is the job of HR Manager to identify them and synchronize them with the broader organization goals.

5. Retain – do not lock up :

* Finally, it does not benefit the organization to retain employees through coersion or lure them through perks.
* Employees who express their desires to leave the organization should be taken in good spirit and allowed to go.
* A better approach is to seek the reason for their leaving so that others do not follow suit.

2. Manpower Planning

* Manpower planning is the prime function of the hospital HR Manager.

* Man power planning calls for the integration of information, formulation of policies and forecasting of future requirements of human resources, so that the right personnel are available for the right job at the right time.

* Types:
  (i) Short-term planning (2 or 5 ahead)
  (ii) Long-term planning (5 or 10 years ahead).

Nature and Scope of Manpower planning:

* Defined as a technique for the procurement, development, allocation and utilization of human resource in an organization
* Views employees as scarce and costly resources.
* Concerned with the interaction between an organization and its total environment.
* Basically concerned with having the right type of personnel for the right job at the right time. This is done by studying 3 types of forecasts:
  a) Economic forecast
  b) Hospital's Expansion forcast
  c) Employee's Market forecast
* Has to meet the challenges of various pressures such as political, economical and technological.

Need for Manpower Planning:

* Shortage of certain categories of employees
* Advancement of medical science and technology
* Change in organization design and structure
* Government policies with respect to representation of seats.
* Labour laws affecting demand & supply of labour
* International scenario of employment
* Introduction of compu

Benefits of Manpower Planning:

* Enables an organization to have the right personnel at the right place and at the right time.
* Helps in anticipating advertisement and salary budgets
* Provides scope for advancement and development of employees.
* Helps to improve service to patients and contributions of working personnel.

Objectives of Manpower Planning:

* Ensuring maximum utilization of personnel.
* Assessing future requirements of the organization.
* Determining recruitment sources.
* Anticipating from past records
  (i) Registrations
  (ii) Discharge simpliciter
  (iii) Dismissals
* Determining training requirements for management development and organization development.

Manpower Planning steps:

(i) Security of the present personnel strength
(ii) Anticipation of manpower needs
(iii) Investigation of turnover of personnel
(iv) Planning job requirements and job description

(i) Security of the present personnel strength:

* Corner-stone in manpower planning.
* Helps in management development, determining training needs, and in the optimum utilization of personnel wherever they are needed the most.
* An examination of present staffing can further determine the exact no. of personnel required and their skills levels.

(ii) Anticipation of manpower needs:

* Involves taking an inventory of the existing personnel who are 'in-stock' today and what can be expected to be in stock tomorrow.
* This forecast is prepared every year for the next five years.
* Objective: To determine the no. of personnel is likely to be needed.

(iii) Investigation of Turnover of Personnel:

* A high turnover is a warning to the hospital authorities which may be due to wrong selection, placement, low salary, poor working conditions, lack of promotional avenues, etc
* A high rate of turnover harms the reputation of the hospital, lowers the team-spirit of the remaining employees and reduces the quality of patient care.
* Some important factors that results in high turnover are:
    - ⇒ Low salary
    - ⇒ Housing problem
    - ⇒ Better prospects in other hospitals
    - ⇒ Family circumstances
    - ⇒ Maltreatment by superiors
* Exit-Interview is a useful tool to study labour turnover.

(iv) Planning Job Requirements and Job Description:

* Manpower planning consists of studying job requirements and job description.
* The job requirement is studied through job analysis.

* Job analysis is the process of examining a job to identify the component parts and the circumstances in which it is performed.
* Its application is quite wide in the whole range of staff management function.
* Job Description is the broad statement of the purpose, scope, duties and responsibilities of a particular job. This is a resultant of the job analysis.
* Job specification can be defined as a list of various qualities which the person doing the job should possess, prepared by analyzing the job description.
* A well-laid-out job specification will enable the management to identify the right man needed to do the required job efficiently.

SARANATHAN COLLEGE OF ENGINEERING

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Assignment No:1

Course code	IT8075	**Course Title**	**Date of Issue:**	8.10.2022	**Marks**	30
Academic Year (Odd/Even)	2022-2023(Odd)	**Year /Semester /Section**	SOFTWARE PROJECT MANAGEMENT			
			4/7/B	**Date of Submission:**	11.10.2022	

Q.No	Questions	CO	Blooms Taxonomy
1	Draw critical path for the tabulated activities .Identify critical path and duration of the project.	C4PE5.4	U
2.	Draw the activity network and find earliest times ,latest times and slack for each activity.Which of the path is a criticalpath?	C4PE5.4	U
3	Draw the CPM network representation of the project.When is the latest start date of the task T3.What is the float time of task T4? Which task are on the critical path?	C4PE5.4	U

Activity	A	B	C	D	E	F	G	H
Duration	9	10	9	15	12	4	8	10
Precedents			A	B,C	B	D	E	F,G

Activity	A	B	C	D	E	F
Duration	5	1	2	4	6	3
Precedents			B	A,C	A	D,E

Activity	T1	T2	T3	T4	T5
Duration	3	2	3	5	2
Precedents	-	T1	T2	T1	T3,T4

Name and Signature of the Faculty in charge

HoD/CSE

SARANATHAN COLLEGE OF ENGINEERING

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

J. SHEIMA LATHA (221090)

FINAL YEAR

SOFTWARE PROJECT MANAGEMENT

ASSIGNMENT

Content - 06
Presentation - 02
Ondate - 02
10

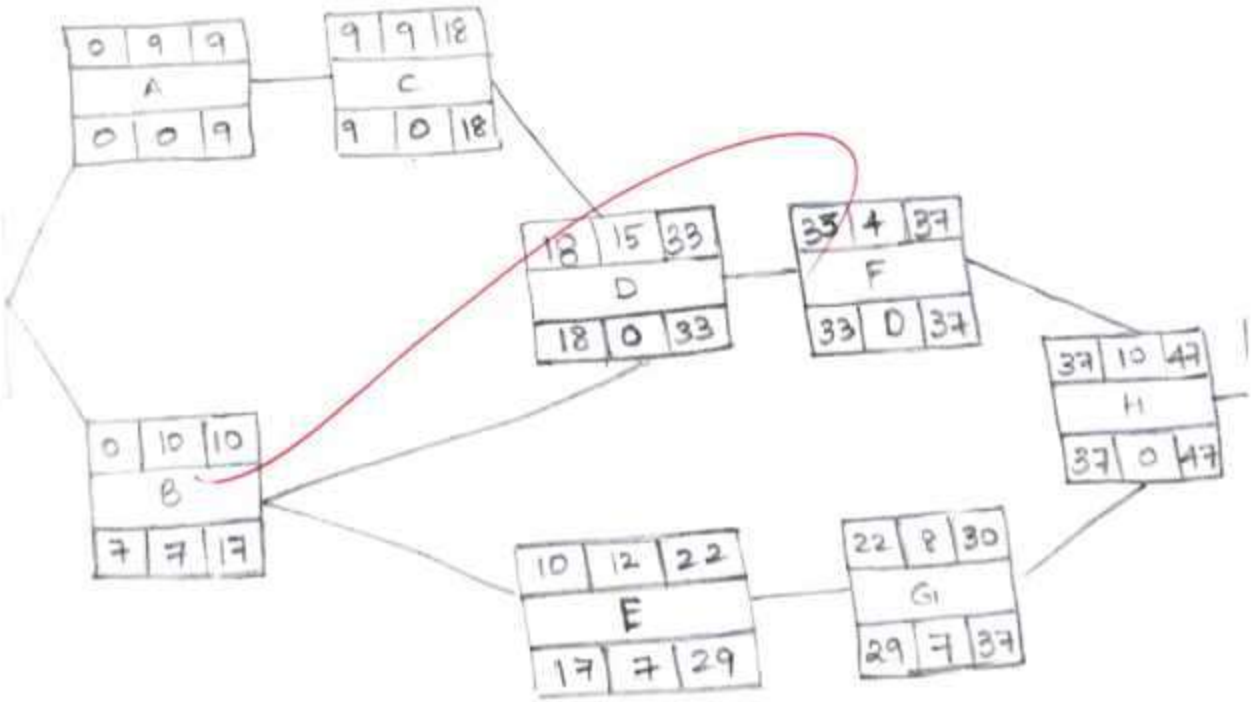
J. Sheima
12/10/22

Draw the critical path diagram for the tabulated activities. Identify critical path and the duration of the project.

Activity	Duration (days)	Immediate Predecessor
A	9	–
B	10	–
C	9	A
D	15	B, C
E	12	B
F	4	D
G	8	E
H	10	F, G

Solution:

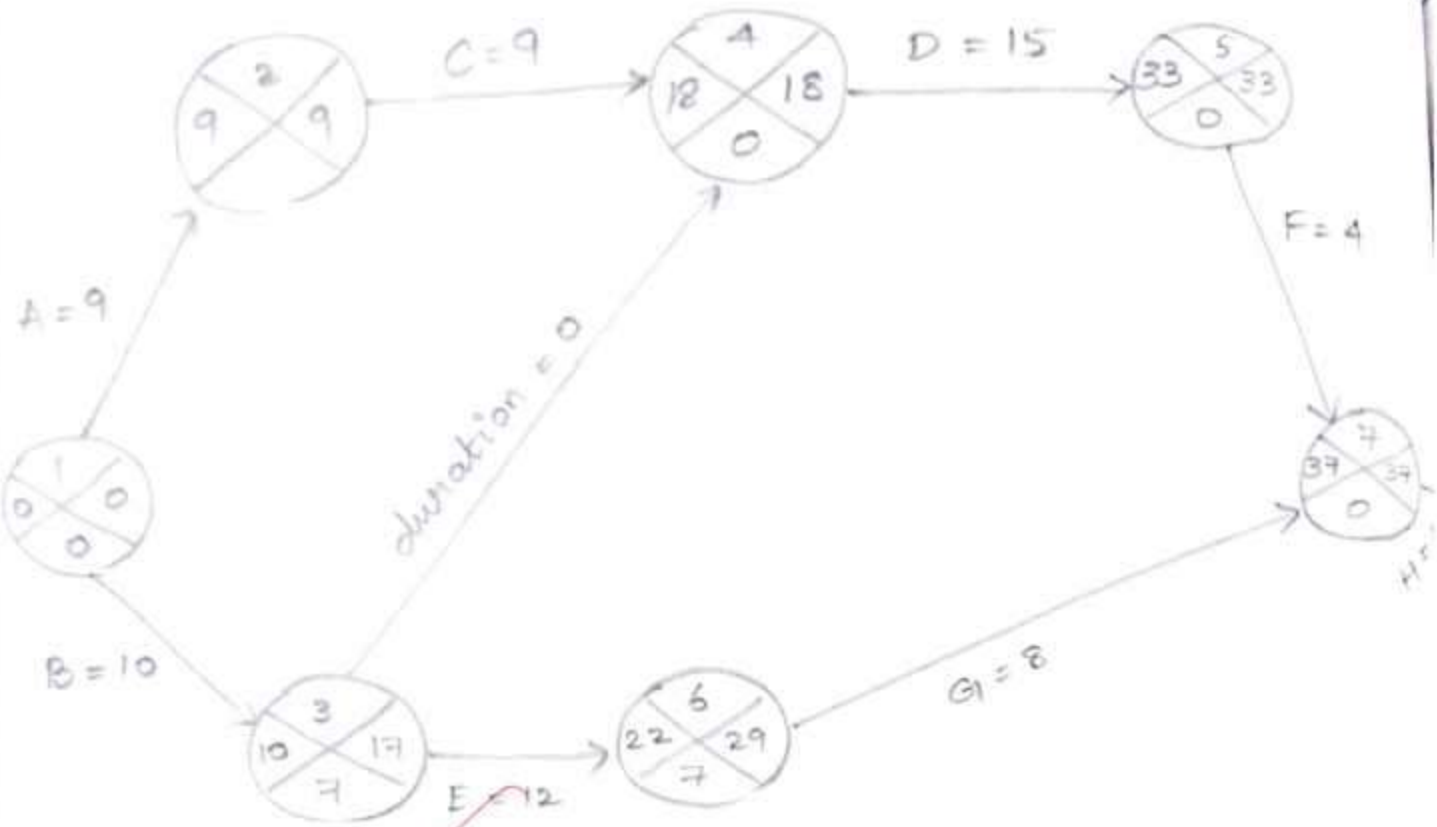
(i) Activity on Node network:



Critical Path: A → C → D → F → H

Project Duration: 47 days.

(ii) Activity on Arrow Network:

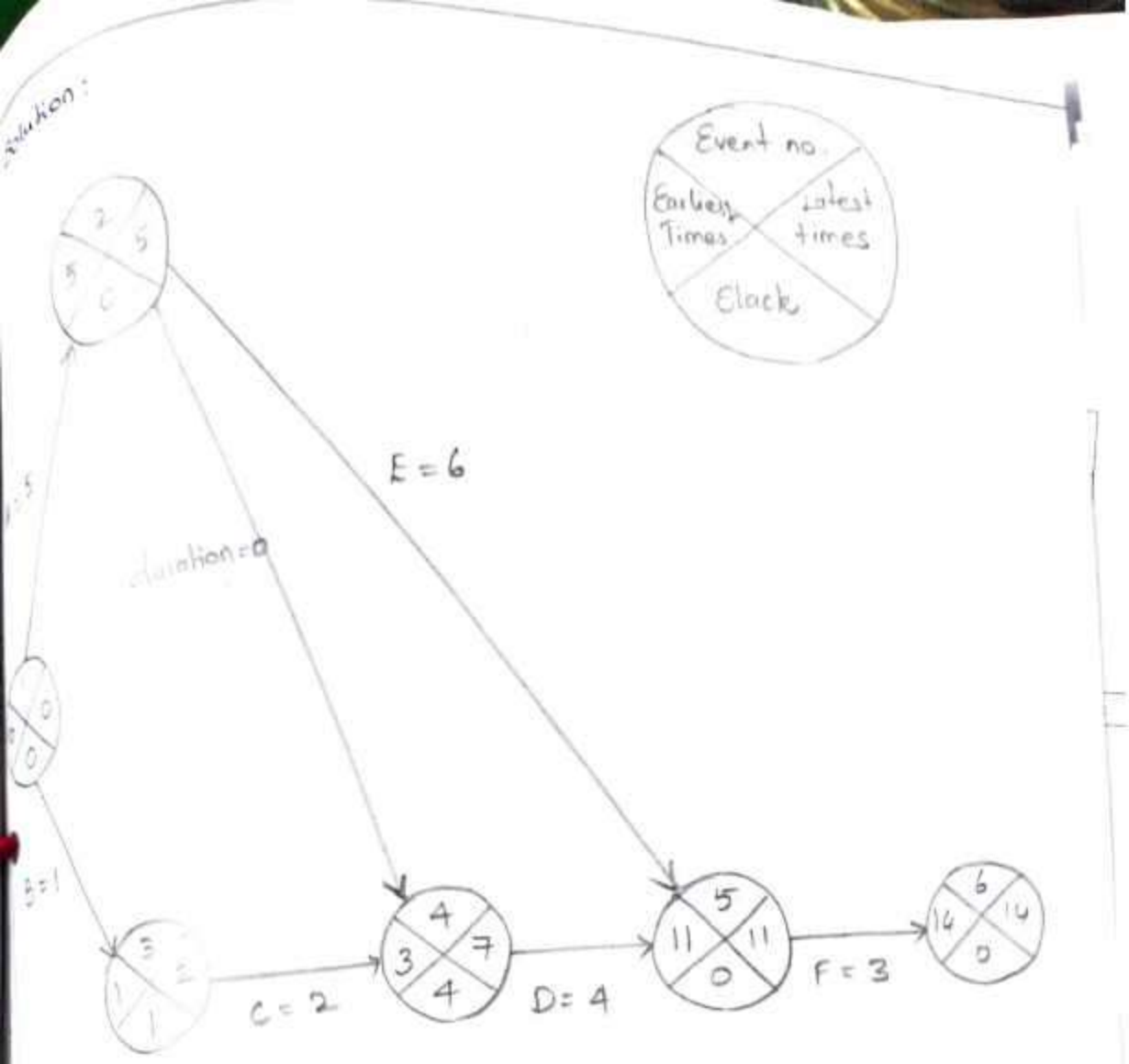


Critical Path: A → C → D → F → H

Project Duration: 47 days

2) Draw the activity network and find the earliest times, late times, and slack for each activity. Which of the paths is a critical path?

Activity	Duration (Months)	Precedents
A	5	—
B	1	—
C	2	B
D	4	A, C
E	6	A
F	3	D, E



Critical path : A → E → F

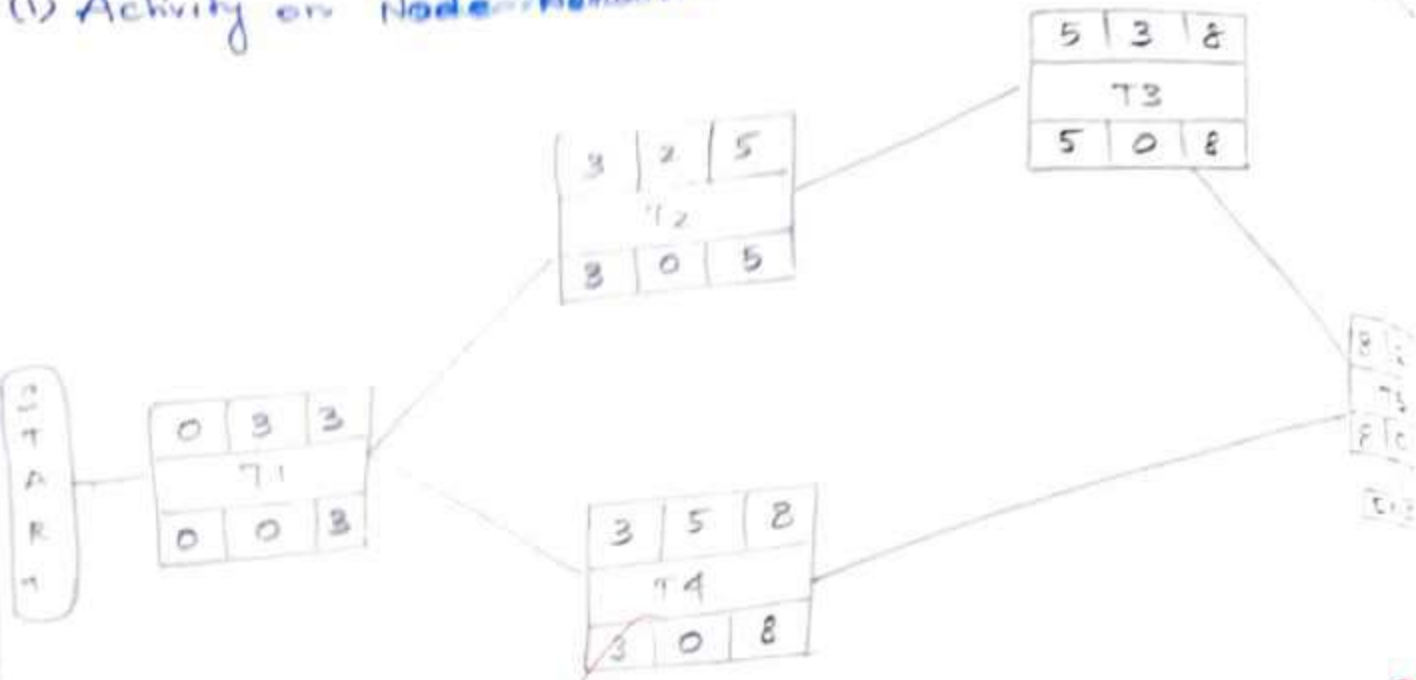
Project duration : 14 Months

Consider a software project with 5 tasks T_1 - T_5. Duration of the 5 tasks in weeks are 3, 2, 3, 5, 2, respectively. T_2 and T_4 can start when T_1 is complete. T3 can start when T_2 is complete. A T5 can start when both T3 and T4 are complete. Draw the CPM network representation of the project. When is the latest start date of the task T3 ? What is the float time of the task T4 ? Which tasks are on the critical path?

Solution:

Activity	T_1	T_2	T3	T4	T5
Duration (weeks)	3	2	3	5	2
Precedents	-	T_1	T_1	T_1	T3, T4

(i) Activity on Node Network

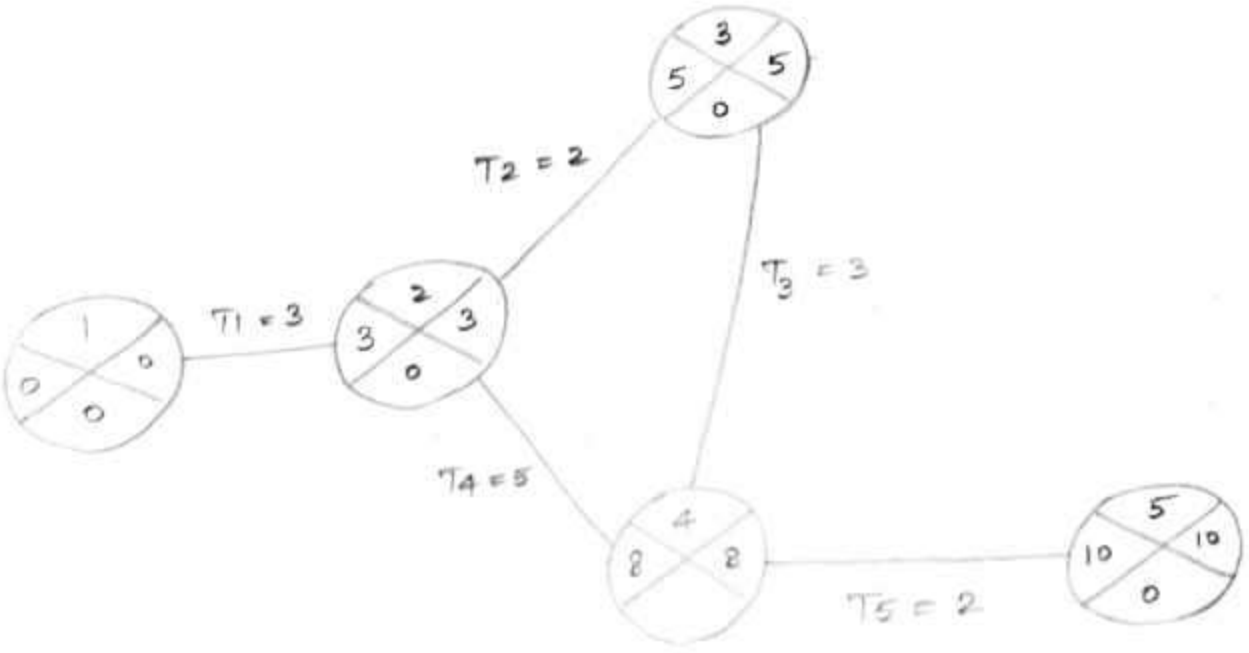


Critical Paths : a) T1 → T2 → T3 → T5 ⇒ 3 + 2 + 3 + 2 = 10.

b) T1 → T4 → T5 ⇒ 3 + 5 + 2 = 10.

Project Duration : 10 weeks

(ii) Activity on Arrow Network



Critical Paths : a) T1 → T2 → T3 → T5

b) T1 → T4 → T5

Project Duration : 10 weeks

Latest start Date of task T3 : 5th week

Float time of task T4 : 0

Tasks on critical path : All tasks are on critical path.

Critical paths : a) T1 → T2 → T3 → T5

b) T1 → T4 → T5.



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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Assignment No:1			Date of Issue:	19.9.2022	Marks	25
Course code	CS8592	Course Title	BJECT ORIENTED ANALYSIS AND DESIGN			
Academic Year (Odd/Even)	2022-2023(Odd)	Year /Semester /Section	3/5/A	Date of Submission:	23.9.2022	

Q.No	Questions	CO	Blooms Taxonomy
1	Draw UML Diagrams for ATM System. Identify the relationship between the classes who have identified and also name proper association between classes.	C305.2	U

Name and Signature of the Faculty in charge

HoD/CSE

Algorithm for printing the address of basic class

1st - Determining the leaders

a) 1st statement is leader

b) The target of goto statement is a leader

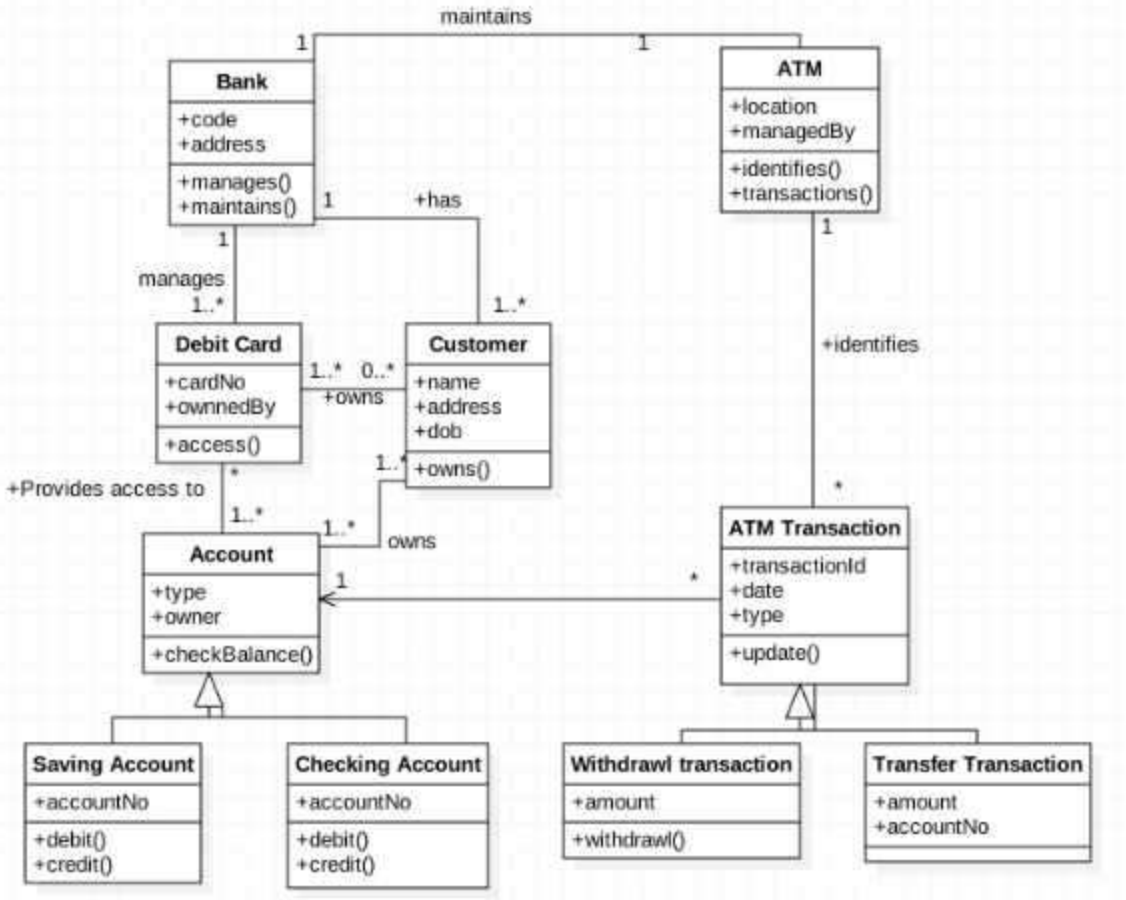




Sample of UML Diagrams for ATM System

For Data: Class diagram

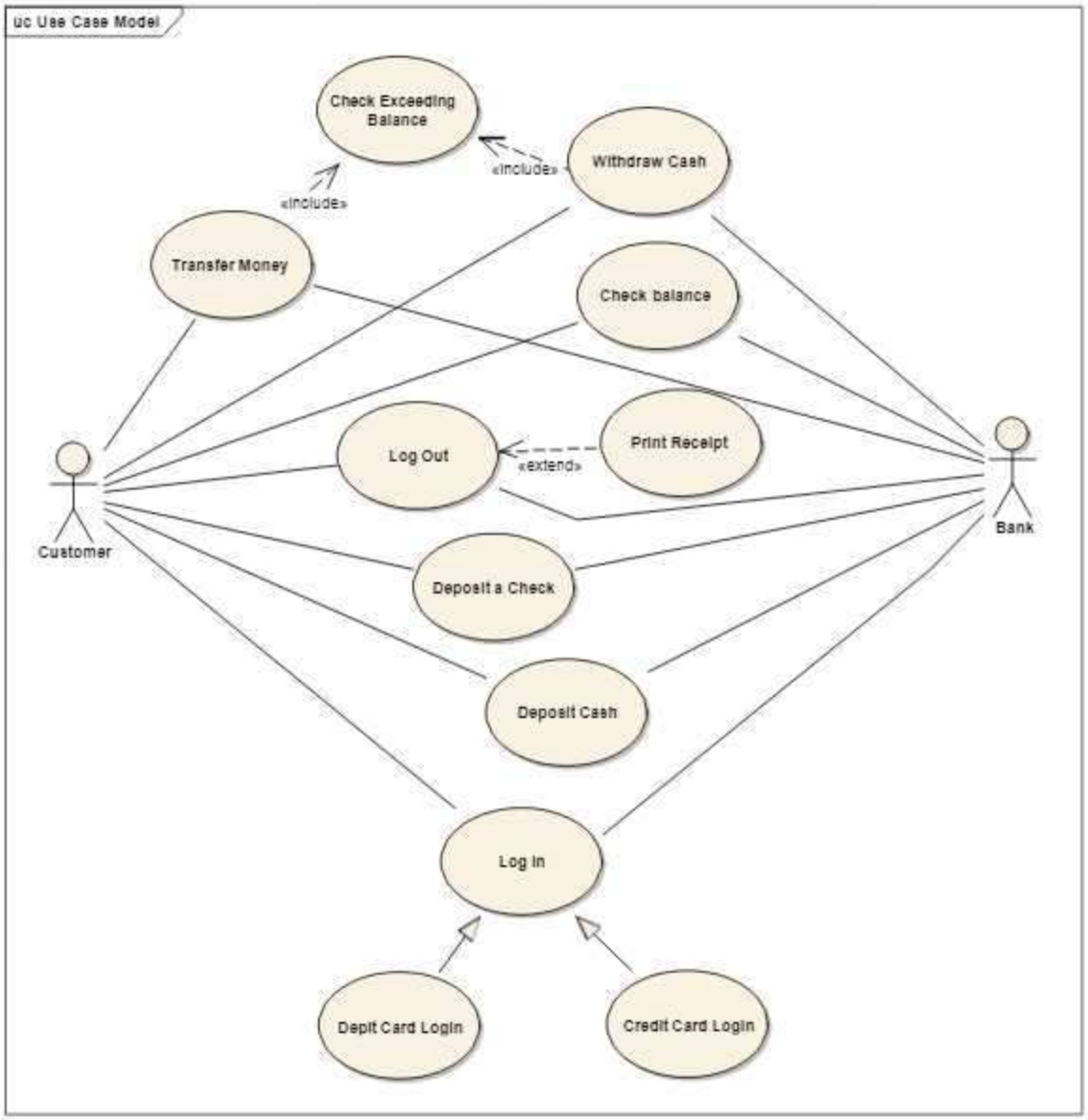
Class Diagram:- Class diagrams describe the static structure of a system, or how it is structured rather than how it behaves.
These diagrams contain the following elements:
1. Classes , which represent entities with common characteristics or features. These features include
attributes, operations, and associations.
2. Associations , which represent relationships that relate two or more other classes where the relationships
have common characteristics or features. These features include attributes and operations.



For Function: Use case, Sequence, Collaboration/Communcation

Use Case Diagram: Use case diagrams describe the functionality of a system and users of the system. They contain the
following elements:
1. Actors , which represent users of a system, including human users and other systems
2. Use cases , which represent functionality or services provided by a system to users

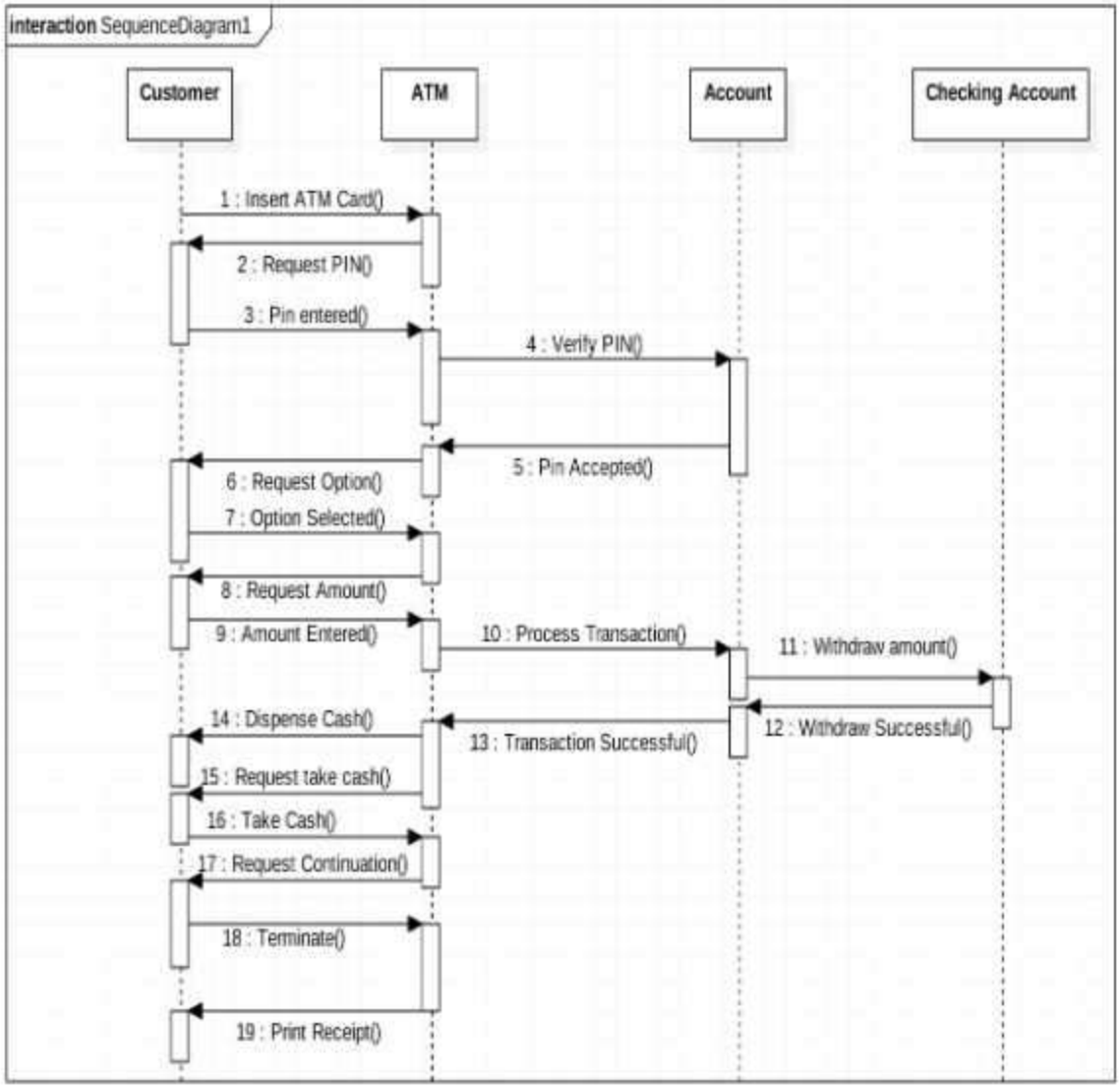
Here, is a use case diagram for the ATM System.



Sequence Diagram: Sequence diagrams typically show the flow of functionality through a use case, and consist of the following components:

1. Actors , involved in the functionality
2. Objects , that a system needs to provide the functionality
3. Messages , which represent communication between objects

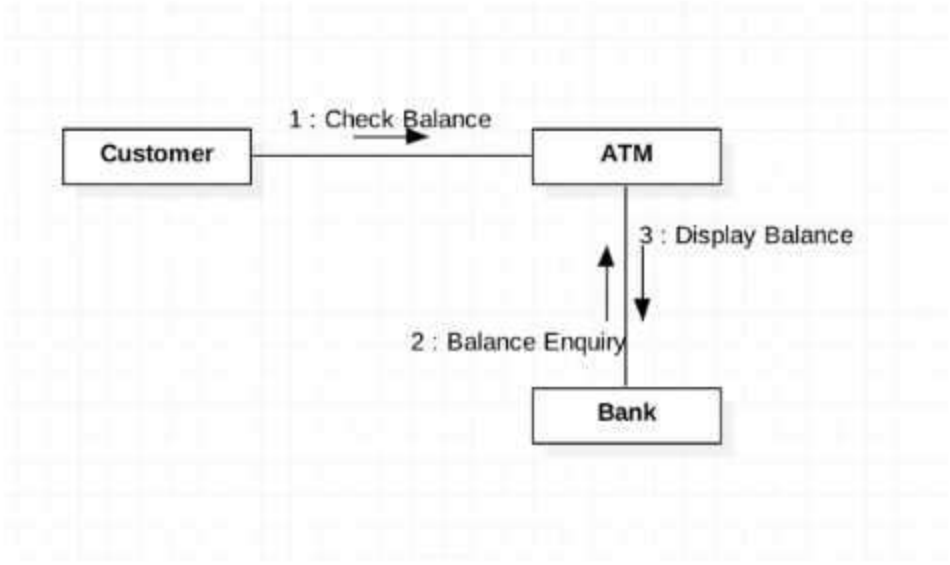
Here, is an example of Sequence diagram for withdrawing amount from ATM.



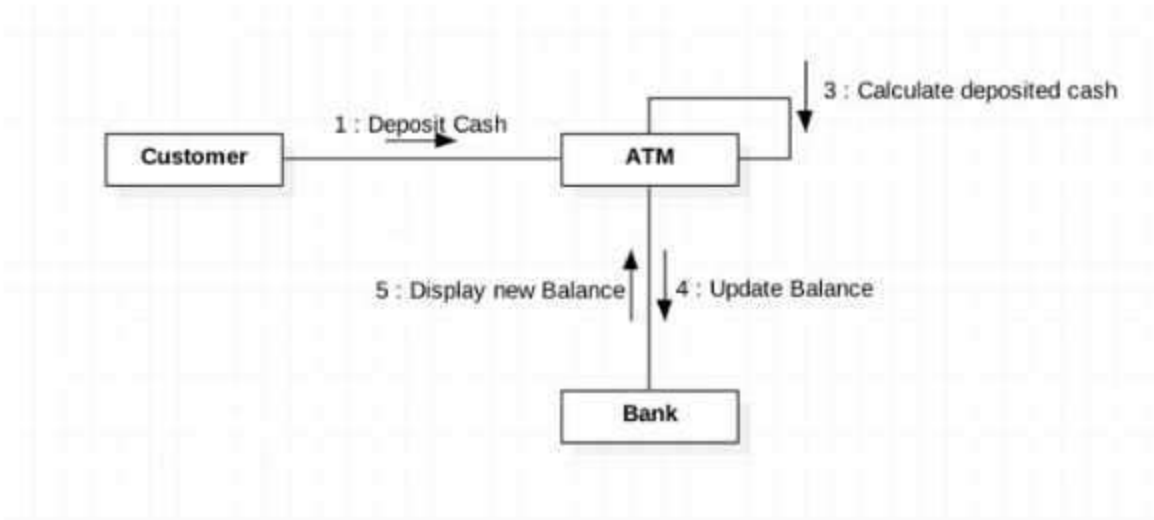
Communication/Collaboration Diagrams

A Communication or Collaboration diagram, as shown is a directed graph that uses objects and actors as graph nodes. The focus of the collaboration diagram is on the roles of the objects as they interact to realize a system function. Directional links are used to indicate communication between objects. These links are labeled using appropriate messages. Each message is prefixed with a sequence number indicating the time ordering needed to realize the system function.

Here is an example of the Check Balance communication diagram:



Here is an example of the Deposit Cash communication diagram:



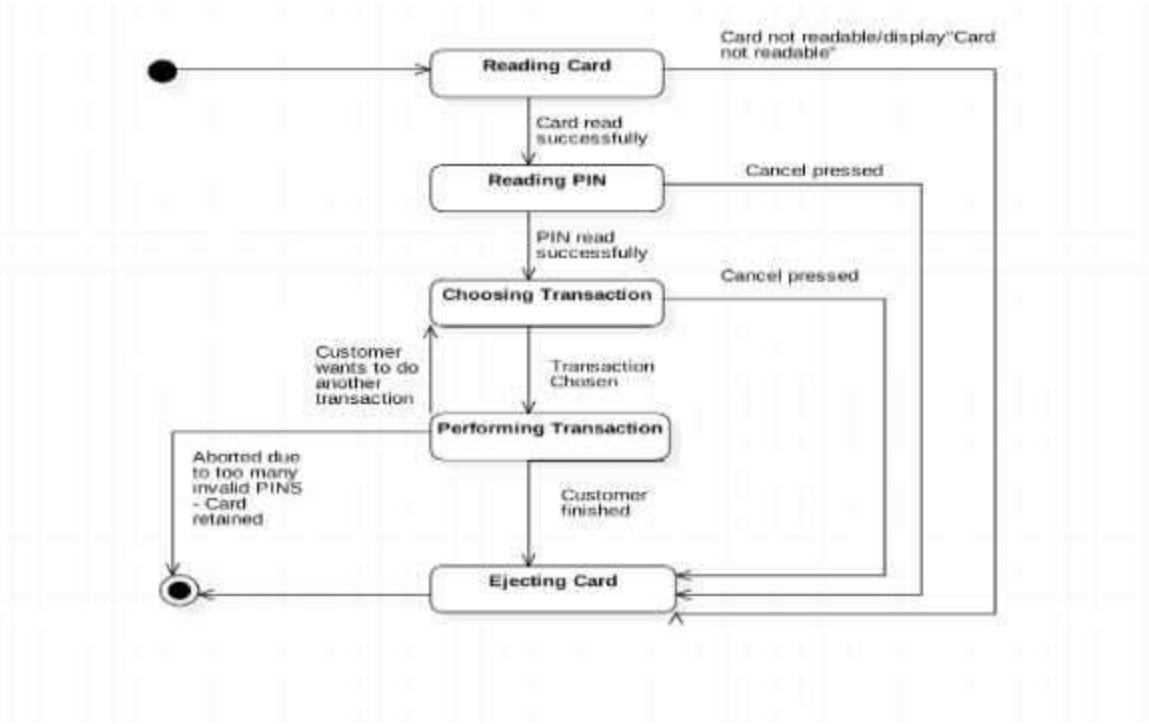
For behavior: State, Activity Diagram

State Diagram:- State transition diagrams provide a way to model the various states in which an object can exist. While the class diagram show a static picture of the classes and their relationships, state transition diagrams model the dynamic behavior of a systen in response to extermal events (stimuli). State transition diagrams consist of the following:

1. States , which show the possible situations in which an object can find itself

2. Transitions , which show the different events which cause a change in the state of an object.

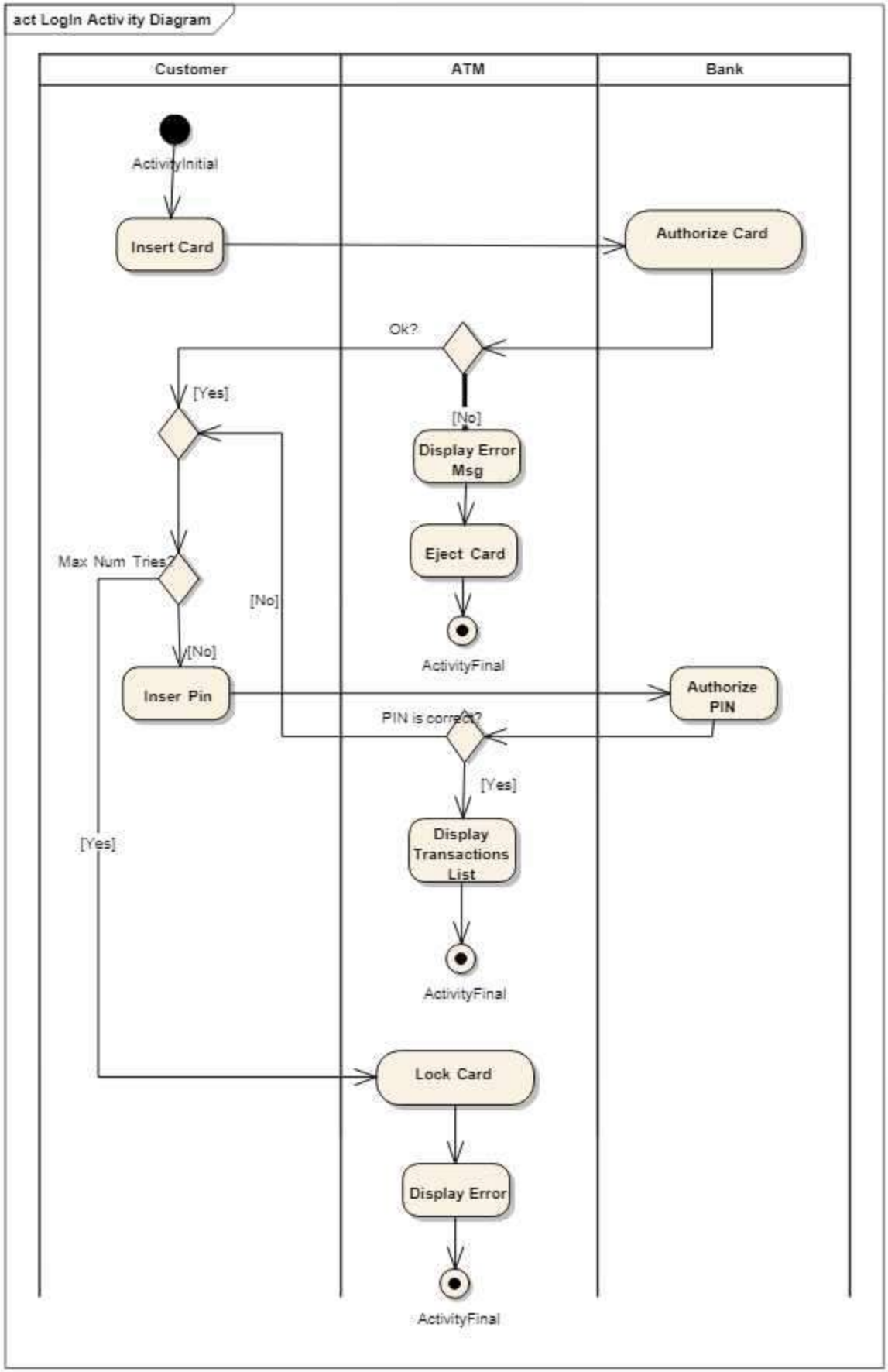
Here, is an example of the state diagram for the session of ATM.

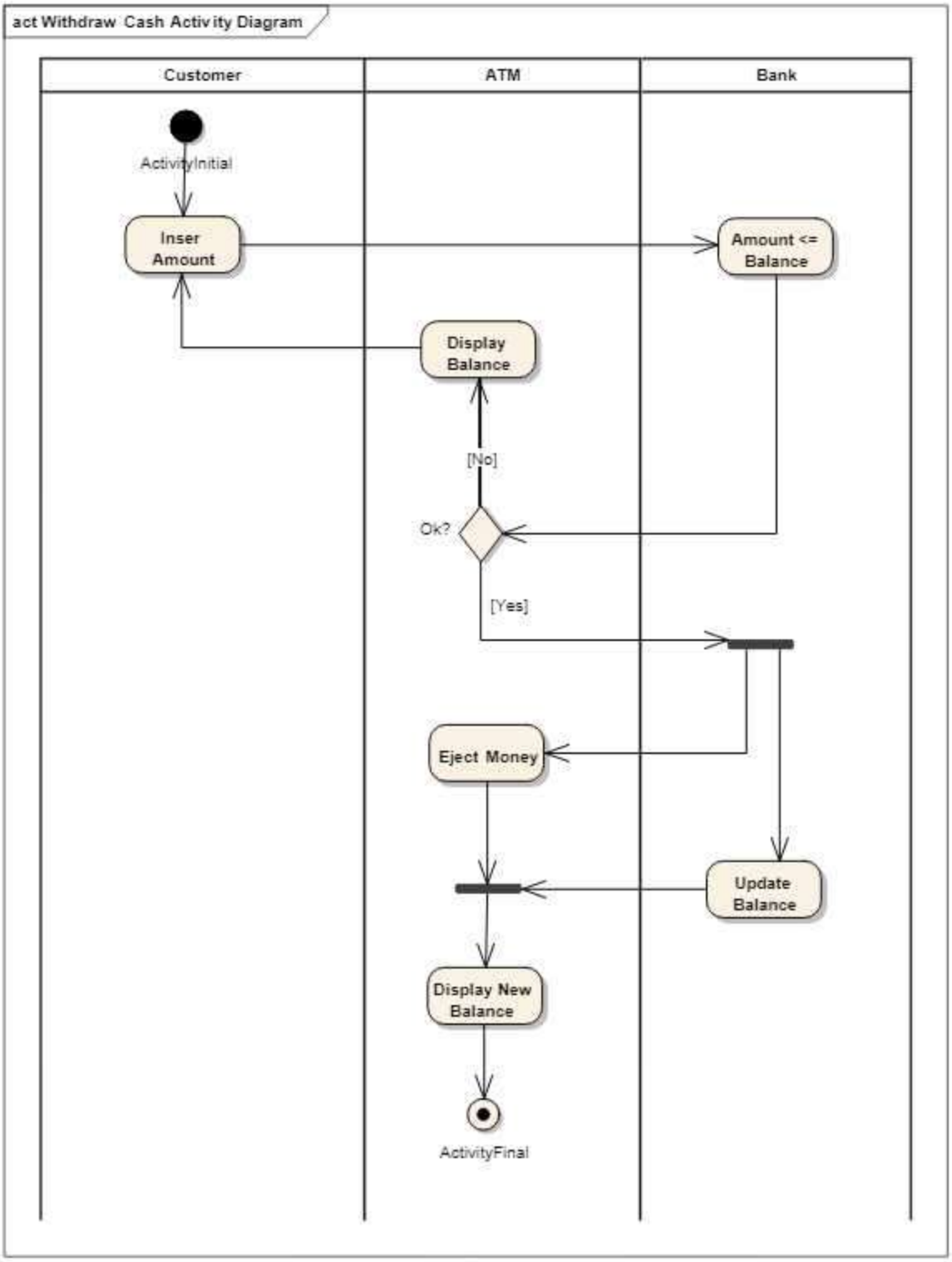


Activity Diagram:- Activity diagrams describe the activities of a class. They are similar to state transition diagrams and use similar conventions, but activity diagrams describe the behavior/states of a class in response to internal processing rather than external events. They contain the following elements:

1. Swimlanes , which delegate specific actions to objects within an overall activity
2. Action States , which represent uninterruptible actions of entities, or steps in the execution of an algorithm
3. Action Flows , which represent relationships between the different action states on an entity
4. Object Flows , which represent utilization of objects by action states, or influence of action states on objects.

Following are the examples of Login, Withdraw Activity Diagrams.


act LogIn Activity Diagram
Customer
ATM
Bank
ActivityInitial
Insert Card
Authorize Card
Ok?
[Yes]
[No]
Display Error Msg
Eject Card
ActivityFinal
Max Num Tries?
[No]
[No]
Inser Pin
Authorize PIN
PIN is correct?
[Yes]
[Yes]
Display Transactions List
ActivityFinal
Lock Card
Display Error
ActivityFinal


act Withdraw Cash Activity Diagram
Customer
ATM
Bank
ActivityInitial
Inser Amount
Amount <= Balance
Display Balance
[No]
Ok?
[Yes]
Eject Money
Update Balance
Display New Balance
ActivityFinal

SCR

SARANATHAN COLLEGE OF ENGINEERING

PANJAPPUR, TIRUCHIRAPPALLI - 620 012.

COURSE LOG BOOK

PRACTICAL

Name E. SHAPNA RANI

Designation ASSISTANT PROFESSOR

Department COMPUTER SCIENCE AND ENGINEERING

Semester II Year I

Course Title / Code CS3271 - PROGRAMMING IN C LABORATORY

Name : E. SHAPNA RANI

Designation : AP

Department : CSE

Academic Year : 2022-2023

Semester / Year : II / I

Details of Courses assigned to teach :

1. Programme : B.E. (CSE)
2. Discipline : AIML
3. Section : 'A'
4. Course Code : CS3271
5. Course Title : PROGRAMMING IN 'C' LABORATORY.

LAB SCHEDULE

Day Order	1 9.15 10.05	2 10.05 10.55	10.55 11.05	3 11.05 11.55	4 11.55 12.45	12.45 1.25	5 1.25 2.15	6 2.15 3.05	3.05 3.15	7 3.15 4.00	8 4.00 4.45
I			BREAK			LUNCH BREAK			BREAK		
II											
III											
IV								← CS3271			→
V											

List of Experiments

Course Objectives:

- To familiarize with C programming constructs.
- To develop programs in C using basic constructs.
- To develop programs in C using arrays.
- To develop applications in C using strings, pointers, functions.
- To develop applications in C using structures.
- To develop applications in C using file processing.

List of Experiments:

1. I/O statements, operators, expressions
2. decision-making constructs: if-else, goto, switch-case, break-continue
3. Loops: for, while, do-while
4. Arrays: 1D and 2D, Multi-dimensional arrays, traversal
5. Strings: operations
6. Functions: call, return, passing parameters by (value, reference), passing arrays to function.
7. Recursion
8. Pointers: Pointers to functions, Arrays, Strings, Pointers to Pointers, Array of Pointers
9. Structures: Nested Structures, Pointers to Structures, Arrays of Structures and Unions.
10. Files: reading and writing, File pointers, file operations, random access, processor directives.

Course Outcomes:

1. Demonstrate knowledge on C programming constructs.
2. Develop programs in C using basic constructs.
3. Develop programs in C using arrays.
4. Develop applications in C using strings, pointers, functions.
5. Develop applications in C using structures.
6. Develop applications in C using file processing.

Text Books:

1. ReemaThareja, Programming in C, Oxford University Press, Second Edition, 2016.
2. Kernighan, B.W and Ritchie,D.M, The C Programming language, Second Edition, Pearson Education, 2015.

Reference Books:

1. Paul Deitel and Harvey Deitel, C How to Program with an Introduction to C++, Eighth edition, Pearson Education, 2018.
2. Yashwant Kanetkar, Let us C, 17th Edition, BPB Publications, 2020.
3. Byron S. Gottfried, "Schaum's Outline of Theory and Problems of Programming with C", McGraw-Hill Education, 1996.
4. Pradip Dey, Manas Ghosh, Computer Fundamentals and Programming in C, Second
5. Edition, Oxford University Press, 2013.
6. Anita Goel and Ajay Mittal, Computer Fundamentals and Programming in C, 1st Edition, Pearson Education, 2013.

Vision of the Department

Vision of the Department:

To evolve as a centre of academic excellence and advanced research in Computer Science and Engineering discipline.

Mission of the Department

Mission of the Department:

1. To inculcate in students a profound understanding of fundamentals related to discipline.
2. To inculcate skills, attitudes and their applications in solving real world problems with an inclination towards societal issues and research.
3. To promote research in the emerging areas of computer science and technology

Program Educational Objectives (PEOs)

Program Educational Objectives: (PEOs)

PEO1: Acquire strong foundation in the mathematical, scientific and engineering fundamentals necessary to formulate, solve and analyze engineering problems.

PEO2: Develop the ability to analyze the requirements of the software, understand the technical specifications, design and provide novel engineering solutions and efficient software/hardware designs.

PEO3: Have exposure to emerging cutting edge technologies, adequate training & opportunities to work as teams on multidisciplinary projects with effective communication skills and leadership qualities.

PEO4: Have awareness on the life-long learning and prepare them for research development and consultancy.

PEO5: Have a successful career and work with values & social concern bridging the digital divide and meet the requirements of Indian and multinational companies.

Program Specific Objectives: (PSOs)

PSO1: Foundation of mathematical concepts: To use mathematical methodologies to crack problem using suitable mathematical analysis, data structure and suitable algorithm.

PSO2: Foundation of Computer System: the ability to interpret the fundamental concepts and methodology of computer systems. Students can understand the functionality of hardware and software aspects of computer systems.

PSO3: Foundations of Software development: the ability to grasp the software development lifecycle and methodologies of software systems. Possess competent skills and knowledge of software design process. Familiarity and practical proficiency with a broad area of programming concepts and provide new ideas and innovations towards research

COs	Programme Outcomes												PSOs			
	1	2	3	4	5	6	7	8	9	10	11	12	I	II	III	IV
C120.1	3	2	2	1	1	–	–	–	2	2	1	2	3	3	2	–
C120.2	3	2	2	1	1	–	–	–	2	2	1	2	3	3	2	–
C120.3	3	2	2	1	1	–	–	–	2	2	1	2	3	3	2	–
C120.4	3	2	2	1	1	–	–	–	2	2	1	2	3	3	2	–
C120.5	3	2	2	1	1	–	–	–	2	2	1	2	3	3	2	–
C120.6	3	2	2	1	1	–	–	–	2	2	1	2	3	3	2	–

COURSE LOG

Branch: B.E.(CSE) - AIML

Subject: CS3271 - PROGRAMMING IN C LABORATORY

Date	Day Order	Period	Particulars of Portions Covered	Remarks
11/05/23	IV	6,7,8	Introduction and Simple 'c' programs	
18/05/23	IV	6,7,8	I/O Statements and Expressions	
25/05/23	IV	6,7,8	If Statements	
01/06/23	IV	6,7,8	Looping Statements	
08/06/23	IV	6,7,8	Arrays	
15/06/23	IV	6,7,8	Matrix and String operations	
22/06/23	IV	6,7,8	Searching and matrix	
29/06/23	IV	6,7,8	Functions	
06/07/23	IV	6,7,8	Passing arrays to functions, Recursion	
13/07/23	IV	6,7,8	pointers	
20/07/23	IV	6,7,8	Structure and Union	
27/07/23	IV	6,7,8	Union and file	
03/08/23	IV	6	File and preprocessor directives	11/8/23

ATTENDANCE PARTICULARS

SERIAL NUMBER	Date	11/05	18/05	24/05	01/06	08/06	15/06	22/06	24/06	06/07	13/07	20/07	27/07	03/08
	Day Order	IV	IV	IV	IV	IV	IV	IV	IV	IV	IV	IV	IV	IV
	Period	6,7,8	6,7,8	6,7,8	6,7,8	6,7,8	6,7,8	6,7,8	6,7,8	6,7,8	6,7,8	6,7,8	6,7,8	6
	Batch No.	-	-	-	-	-	-	-	-	-	-	-	-	-
1	25I201	/	/	/	/	/	/	/	/	/	/	/	/	/
2	25I202	/	/	a	/	/	/	/	/	/	/	/	/	/
3	25I203	/	a	/	/	/	/	/	/	/	a	/	/	/
4	25I204	/	/	/	/	a	/	/	/	/	/	/	/	/
5	25I205	/	/	/	/	/	/	/	/	/	/	/	/	/
6	25I206	/	/	/	/	/	/	/	/	/	/	/	/	/
7	25I207	/	a	a	/	/	•	•	•	•	—	/	—	
8	25I208	a	/	/	/	/	/	/	/	/	/	/	/	/
9	25I210	/	/	/	/	/	/	/	/	/	/	/	/	/
10	25I211	/	/	/	/	/	a	/	/	/	/	/	/	/
11	25I212	/	/	/	/	/	/	/	/	/	/	/	/	/
12	25I213	/	a	a	/	/	/	/	a	/	/	/	/	/
13	25I214	/	/	/	/	/	/	/	/	/	/	/	a	/
14	25I215	/	/	/	/	/	/	/	a	/	/	/	/	/
15	25I216	/	/	/	/	/	/	/	/	/	/	/	/	/
16	25I217	a	/	/	/	/	/	/	/	/	/	/	/	/
17	25I218	/	a	/	/	/	/	/	/	/	/	/	/	/
18	25I219	/	/	/	/	/	/	/	/	/	/	/	/	/
19	25I220	/	/	/	/	/	/	/	/	/	/	/	/	a
20	25I222	/	a	/	/	/	/	/	/	/	/	/	/	/
21	25I223	/	/	/	/	/	/	/	/	/	/	/	/	/
22	25I224	/	/	/	/	/	/	/	/	/	/	/	/	/
23	25I225	/	/	/	/	/	/	/	/	/	/	/	/	/
24	25I226	/	a	a	/	/	/	/	/	/	/	/	/	/
25	25I227	a	/	/	/	/	a	/	/	/	a	/	/	a
26	25I228	/	/	/	/	/	/	/	/	/	/	/	/	/
27	25I229	/	/	/	/	/	/	/	/	/	/	/	/	/
28	25I231	/	/	/	/	/	a	/	/	/	/	/	/	/
29	25I232	/	/	/	/	/	/	/	/	/	/	/	/	/
30	25I233	/	/	/	/	/	/	/	/	/	/	à	/	/
31	25I234	/	/	/	/	/	/	a	/	/	/	/	/	/
32	25I235	/	/	/	/	/	/	/	/	/	/	/	/	/
33	25I236	/	/	/	/	/	/	/	/	/	/	/	/	/

ATTENDANCE PARTICULARS

SERIAL NUMBER	Date	11/05	18/05	25/05	01/06	08/06	15/06	22/06	29/06	06/07	13/07	20/07	27/07	03/08	
	Day Order	IV	IV	IV	IV	IV	IV	IV	IX	IV	IV	IV	IV	IV	
	Period	6,7,8	6,7,8	6,7,8	6,7,8	6,7,8	6,7,8	6,7,8	6,7,8	6,7,8	6,7,8	6,7,8	6,7,8	6	
	Batch No.	-	-	-	-	-	-	-	-	-	-	-	-	-	
34	2K1237	/	/	/	/	/	/	/	/	/	/	/	/	/	
35	2K1238	/	/	/	/	/	/	/	/	/	/	/	/	/	
36	2K1239	/	/	/	/	/	/	/	/	/	/	/	/	/	
37	2K1240	/	/	/	/	/	/	/	/	/	/	/	a	/	
38	2K1241	/	/	/	/	/	/	/	/	/	/	/	/	/	
39	2K1242	/	/	/	/	/	/	/	/	/	/	/	/	/	
40	2K1243	/	/	/	/	/	/	/	/	/	/	/	/	/	
41	2K1244	/	/	/	/	/	/	/	/	/	/	/	/	/	
42	2K1245	/	/	a	a	/	/	/	/	/	/	/	/	/	
43	2K1246	/	/	/	/	/	/	/	/	/	/	/	/	/	
44	2K1247	/	/	/	/	/	/	/	/	/	/	/	/	/	
45	2K1248	/	/	/	a	/	/	/	/	/	/	/	/	/	
46	2K1249	/	/	/	/	/	/	/	/	/	/	/	/	a	
47	2K1250	/	/	/	/	/	/	/	/	/	/	/	/	/	
48	2K1251	/	/	/	/	/	/	/	/	/	/	/	/	/	
49	2K1252	/	/	/	/	/	/	/	/	/	/	/	/	/	
50	2K1253	/	/	/	/	/	/	/	/	/	/	/	/	/	
51	2K1254	/	/	a	/	/	a	/	/	/	/	a	/	/	
52	2K1255	/	/	/	/	/	/	/	/	/	/	/	/	/	
53	2K1256	/	/	/	/	/	/	/	/	/	/	/	/	/	
54	2K1257	/	/	/	/	/	/	/	/	/	/	/	/	/	
55	2K1258	/	/	/	/	/	/	/	/	/	/	/	/	/	
56	2K1259	/	/	/	/	/	/	/	/	/	/	/	/	/	

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CLASS WORK ASSESSMENT AND SESSIONAL MARKS

Branch : B.E. CSE (AIML) Semester : II Subject : CS3271 – PROGRAMMING IN C LABORATORY

Sl. No.	Batch. No. 2512	Univ. Reg. No. 813822148	Name	Class Work															Model Lab	IA Marks
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
1	01	001	AATHISH.S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	95	95
2	02	002	ABINASH.E	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	100	100
3	03	003	ABIRAAMI.S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	98	98
4	04	004	AISHWARYA LAKSHMISV	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	100	100
5	05	005	ANITHA SRINITHI.S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	96	96
6	06	006	ANJANA.S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	99	99
7	~~07~~	~~007~~	~~ANJUM SIDDIQUA.T~~																	
8	08	008	ASHWINRAJ.R	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	97	97
9	10	010	BARANIDHARAN.S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	98	98
10	11	011	CLARIBEL HERMIA.P	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	100	100
11	12	012	DHARSHINI.R	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	100	100
12	13	013	DHYANESH.D	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	97	97
13	14	014	GAYATHRI.R	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	100	100
14	15	015	GNANASOUNTHAR	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	93	93
15	16	016	GOKUL SHYAM.B	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	89	89
16	17	017	HARIHARAN.M	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	92	92
17	18	018	HARINI.N	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	99	99
18	19	019	HARISH RAAGHAV.V	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	94	94
19	20	020	HINGSLY PRIYA.R	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	100	100
20	22	021	KEERTHANA.K	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	100	100
21	23	022	KIRAN KUMAR.B	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	99	99
22	24	023	MEENAKSHI.S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	100	100
23	25	024	MEHANETHRA.K.G	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	100	100
24	26	025	MUTHU KRISHNAN.R	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	95	95
25	27	026	NANDAKUMARAN.C	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	92	92
26	28	027	PAVITHRA.B	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	100	100
27	29	028	RAGAVAN.K	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	89	89
28	31	030	RAHUL CHANDRAN RENGARAJ	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	97	97
29	32	031	RANGA PRIYA.A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	92	92
30	33	032	SABARIESWAR.S.A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	95	95
31	34	033	SANDEEP PRAKASH.R	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	88	88
32	35	034	SANJITH.N	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	83	83
33	36	035	SANKARANARAYANAN.M	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	91	91

Signature of the Faculty

Signature of the HOD (12)

CLASS WORK ASSESSMENT AND SESSIONAL MARKS

Branch : B.E. CSE (AIML) Semester : II Subject : CS3271 - PROGRAMMING IN C LABORATORY

Sl. No.	Batch No. 852	Univ. Reg. No. 813822148	Name	Class Work 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Model Lab	IA Marks
1	37	036	SANTHOSH.P	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	83	83
2	38	037	SHARINI.R	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	78	78
3	39	038	SHIRIN.J	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	85	85
4	40	039	SHRI HARISH.S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	85	85
5	41	040	SIVAKUMAR.B	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	84	84
6	42	041	SIVARANJANI.R	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	87	87
7	43	042	SOKMIYA.K	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	80	80
8	44	043	SOKNTHARIYA.M	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	87	87
9	45	044	SRINIDHI.K.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	86	86
10	46	046	SUDHARSAN.R.N.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	84	84
11	47	047	SUSHMITHA.E.K.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	94	94
12	48	048	SWEATHA.S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	78	78
13	49	049	THARANI.R	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	93	93
14	50	050	TISHYA SHINY.J	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	100	100
15	51	051	UGIN VENASA.J	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	100	100
16	52	052	VASANTH.D	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	95	95
17	53	053	VIDHYA.N	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	92	92
18	54	054	VIGNESH.M	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	100	100
19	55	055	VINCY VICTORIYA.S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	89	89
20	56	056	VISSHALPRASATH.M	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	97	97
21	57	057	YOGA.A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	92	92
22	58	058	YUVARAJ.S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	95	95
23	59	059	SRINITHI.A.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	88	88
24																				
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30																				
31																				
32																				
33																				

Signature of the Faculty

Signature of the HOD 13/12/23

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPALLI - 620 012.

Date: 21-03-2023

Ref : SCE/Syllabus/ Theory/2022 to 2023 - Odd semester

STATEMENT FOR SYLLABUS COMPLETION

I have handled the subject PROBLEM SOLVING AND PYTHON PROGRAMMING, code GE3151 for I year, I semester, department of ALL B.E/B.Tech/~~MBA~~ during the academic year 2022-2023, Odd semester.

In this regard, I confirm, that I have taught all the topics mentioned in the syllabus, and took lectures for 85 periods, revised syllabus for 4 periods and discussed the Anna University Examination question papers of the last 5 years.

Signature :

Name : KARTHIK. R

Designation : ASST. PROF

Department : COMPUTER SCIENCE AND ENGINEERING

Date : 21.03.2023

Signature of HoD : 21/3/23

Principal :

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPALLI - 620 012.

Date: 16/03/2022

Ref : SCE/Syllabus/ Theory/2022 to 2023 - Odd semester

STATEMENT FOR SYLLABUS COMPLETION

I have handled the subject Problem Solving and Python Programming, code CE3151 for I year, II semester, department of _____ B.E/B.Tech/~~MBA~~ during the academic year 2022-2023, Odd semester.

In this regard, I confirm, that I have taught all the topics mentioned in the syllabus, and took lectures for 75 periods, revised syllabus for 5 periods and discussed the Anna University Examination question papers of the last 4 years.

Signature : PB
Name : PB ARUN PRASAD
Designation : Assistant Professor
Department : Computer Science and Engineering
Date : 16/03/2023

Signature of HoD : 21/3/2023

Principal :

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPALLI - 620 012.

Date: 27/5/2023

Ref : SCE/Syllabus/ Theory/2022 to 2023 - EVEN semester

STATEMENT FOR SYLLABUS COMPLETION

I have handled the subject CS3452 - THEORY OF COMPUTATION, code CS3452 for II - B year, IV semester, department of CSE B.E/B.Tech/MBA during the academic year 2022-2023, EVEN ~~Odd~~ semester.

In this regard, I confirm, that I have taught all the topics mentioned in the syllabus, and took lectures for 83 periods, revised syllabus for 5 periods and discussed the Anna University Examination question papers of the last 3 years.

Signature : K. Mohanappriya

Name : K. MOHANAPPRIYA

Designation : ASSISTANT PROFESSOR

Department : CSE

Date : 27/5/2023

Signature of HoD : 27/5/23

Principal :

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPALLI - 620 012.

Date: 27.05.2023

Ref : SCE/Syllabus/ Theory/2022 - 2023 - Even semester

STATEMENT FOR SYLLABUS COMPLETION

I have handled the subject ARTIFICIAL INTELLIGENCE AND MACHINE LEARING, code CS3491 for II year, IV semester, department of CSE B.E/~~B.Tech~~/~~MBA~~ during the academic year 2022-2023, Even semester.

In this regard, I confirm, that I have taught all the topics mentioned in the syllabus, and took lectures for 88 periods, revised syllabus for 5 periods and discussed the Anna University Examination question papers of the last 2. years.

Signature :

Name : KARTHIK.R

Designation : ASST. PROF

Department : COMPUTER SCIENCE AND ENGINEERING

Date : 27.05.2023

Signature of HoD : 27/5/23

Principal :

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPALLI - 620 012.

Date: 27/05/2023

Ref : SCE/Syllabus/ Theory/2022 to 2023 - even semester

STATEMENT FOR SYLLABUS COMPLETION

I have handled the subject Database Management Systems, code CS3492 for II year, IV semester, department of CSE B.E/B.Tech/MBA during the academic year 2022-2023, Even semester.

In this regard, I confirm, that I have taught all the topics mentioned in the syllabus, and took lectures for 56 periods, revised syllabus for 6 periods and discussed the Anna University Examination question papers of the last 4 years.

Signature :

Name : P-PLANKATHIR

Designation : AP

Department : CSE

Date : 27/05/2023

Signature of HoD : 27/5/23

Principal :

SARANATHAN COLLEGEOF ENGINEERING

TIRUCHIRAPALLI-620 012.

Date: 27/05/2023

Ref:SCE/Syllabus/Laboratory/2022-2023/Even **semester/**

CS3481- Database Management Systems Laboratory

STATEMENT FORLABORATORY EXPERIMENTCOMPLETION

I hereby affirm that all the experiments listed in the next page, have been actually performed by the students as part of the prescribed course work by Anna University (mention details).In cases where the experiments could not be conducted, the same has been listed separately with reasons.

I confirm that the experiments were done by me in the beginning of this semester, and the readings were recorded.

I confirm that the students submitted the laboratory record of the experiments performed by them, and that I have also corrected them every week and awarded appropriate marks. I also confirm that the completed laboratory record was submitted by each student.

Signature	:	Signature	:
Name	: E.ELANKATHIR	Name	: KARTHICK.R
Designation	: AP	Designation	: AP
Department	: CSE		

Signature of HoD : 24/5/23

Principal :

Note: List of the students who have not got bonafide, if any, to be enclosed.

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPALLI - 620 012.

Date: 27/05/2023

Ref : SCE/Syllabus/ Theory/2022 to 2023 - even semester

STATEMENT FOR SYLLABUS COMPLETION

I have handled the subject COMPILER DESIGN, code CS8602 for III year, VI semester, department of CSE B.E/B.Tech/MBA during the academic year 2022-2023, Even semester.

In this regard, I confirm, that I have taught all the topics mentioned in the syllabus, and took lectures for 77 periods, revised syllabus for 5 periods and discussed the Anna University Examination question papers of the last 5 years.

Signature :

Name : E SHAPNA RANI

Designation : ASSISTANT PROFESSOR

Department : COMPUTER SCIENCE AND ENGINEERING

Date : 27/05/2023

Signature of HoD : 27/5/2023

Principal :

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPALLI - 620 012.

Date: 27/5/23.

Ref : SCE/Syllabus/ Theory/2022 to 2023 - even semester

STATEMENT FOR SYLLABUS COMPLETION

I have handled the subject Artificial Intelligence, code CS8691 for III year, VI semester, department of CSE-'B' B.E/B.Tech/MBA during the academic year 2022-2023, Even semester.

In this regard, I confirm, that I have taught all the topics mentioned in the syllabus, and took lectures for 57 periods, revised syllabus for 5 periods and discussed the Anna University Examination question papers of the last 5 years.

Signature : N. Ramya

Name : N. RAMYA

Designation : ASSISTANT PROFESSOR

Department : COMPUTER SCIENCE AND ENGINEERING.

Date : 27/5/23

Signature of HoD : 27/5/23

Principal :

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPALLI - 620 012.

Date: 27.5.23

Ref : SCE/Syllabus/ **Theory/2022 to 2023 - Even semester**

STATEMENT FOR SYLLABUS COMPLETION

I have handled the subject INTERNET PROGRAMMING, code CS8651 for III year, VI semester, department of CSE B.E/B.Tech/MBA during the academic year 2022-2023, Even semester.

In this regard, I confirm, that I have taught all the topics mentioned in the syllabus, and took lectures for 60 periods, revised syllabus for 2 periods and discussed the Anna University Examination question papers of the last 5 years.

Signature :

Name : S. RANJANI

Designation : ASSISTANT PROFESSOR

Department : CSE

Date : 27.5.23

Signature of HoD : 27/5/23

Principal :

SARANATHAN COLLEGEOF ENGINEERING

TIRUCHIRAPALLI-620 012.

Date: 27.5.23

Ref:SCE/Syllabus/Laboratory/2022-2023/Even semester/

CS8661 - INTERNET PROGRAMMING LABORATORY

STATEMENT FOR LABORATORY EXPERIMENT COMPLETION

I hereby affirm that all the experiments listed in the next page, have been actually performed by the students as part of the prescribed course work by Anna University (mention details).In cases where the experiments could not be conducted, the same has been listed separately with reasons.

I confirm that the experiments were done by me in the beginning of this semester, and the readings were recorded.

I confirm that the students submitted the laboratory record of the experiments performed by them and that I have also corrected them every week and awarded appropriate marks. I also confirm that the completed laboratory record was submitted by each student.

Signature	: S	Signature	: D. Boobala Murali 29/5/2023
Name	: S. RANJANI	Name	: D. BOOBALA MURALIDHARAN
Designation	: ASSISTANT PROFESSOR	Designation	: ASSISTANT PROFESSOR
Department	: ECE		

Signature of HOD : 27/5/23

Principal :

Note: List of the students who have not got bonafide, if any, to be enclosed.

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPALLI - 620 012.

Date: 16/11/2022

Ref : SCE/Syllabus/ Theory/2022 to 2023 - Odd semester

STATEMENT FOR SYLLABUS COMPLETION

I have handled the subject Computer Networks , code CS8591 for III B.E. year, 05 semester, department of CSE B.E ~~B.Tech/MBA~~ during the academic year 2022-2023, Odd semester.

In this regard, I confirm, that I have taught all the topics mentioned in the syllabus, and took lectures for 58 periods, revised syllabus for 3 periods and discussed the Anna University Examination question papers of the last 3 years.

Signature : D.B.

Name : D.B. Aswin Prasath

Designation : Assistant Professor

Department : Computer Science and Engineering

Date : 16/11/2022

Signature of HoD : 16/11/2022

Principal :

SARANATHAN COLLEGEOF ENGINEERING

TIRUCHIRAPALLI-620 012.

Date: 16/11/2022

Ref:SCE/Syllabus/Laboratory/2022-2023/Oddsemester/

STATEMENT FORLABORATORY EXPERIMENTCOMPLETION

CS8581 - Networks Laboratory

I hereby affirm that all the experiments listed in the next page, have been actually performed by the students as part of the prescribed course work by Anna University (mention details). In cases where the experiments could not be conducted, the same has been listed separately with reasons.

I confirm that the experiments were done by me in the beginning of this semester, and the readings were recorded.

I confirm that the students submitted the laboratory record of the experiments performed by them, and that I have also corrected them every week and awarded appropriate marks. I also confirm that the completed laboratory record was submitted by each student.

Signature	: PB. D. Dr	Signature	:
Name	: P.B. Arun Prasad	Name	:
Designation	: Assistant Professor	Designation	:
Department	: Computer Science and Engineering		

Signature of HoD: 16/11/22

Principal :

Note:Listof thestudentswhohavenotgot bonafide, if any, to be enclosed.

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPALLI - 620 012.

Date: 24-11-22

Ref : SCE/Syllabus/ Theory/2022 - 2023 (Odd semester)

STATEMENT FOR SYLLABUS COMPLETION

I have handled the subject Object Oriented Analysis & Design, code CS8592 for III rd year, V th semester, department of CSE B.E/B.Tech/MBA during the academic year 2022-2023, Odd semester.

In this regard, I confirm, that I have taught all the topics mentioned in the syllabus, and took lectures for 57 periods, revised syllabus for 3 periods and discussed the Anna University Examination question papers of the last 5 years.

Signature : J. Sathia Parkavi

Name : J. Sathia Parkavi

Designation : Assistant Professor

Department : CSE

Date : 24.11.22

Signature of HoD : 24/11/22

Principal :

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPALLI - 620 012.

Date: 24-11-22

Ref : SCE/Syllabus/Laboratory/2022-2023/Odd semester/

CS8582 - OBJECT ORIENTED ANALYSIS & DESIGN LAB

STATEMENT FOR LABORATORY EXPERIMENT COMPLETION

I hereby affirm that all the experiments listed in the next page, have been actually performed by the students as part of the prescribed course work by Anna University (mention details). In cases where the experiments could not be conducted, the same has been listed separately with reasons.

I confirm that the experiments were done by me in the beginning of this semester, and the readings were recorded.

I confirm that the students submitted the laboratory record of the experiments performed by them, and that I have also corrected them every week and awarded appropriate marks. I also confirm that the completed laboratory record was submitted by each student.

Signature	: J. Sathia	Signature	:
Name	: J. Sathia Parkavi	Name	:
Designation	: Assistant Professor	Designation	:
Department	: CSE		

Signature of HoD : 24/11/22

Principal :

Note: List of the students who have not got bonafide, if any, to be enclosed.

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPALLI - 620 012.

Date: 24/11/2022

Ref : SCE/Syllabus/ Theory/2022 to 2023 - Odd semester

STATEMENT FOR SYLLABUS COMPLETION

I have handled the subject Hospital management, code OBM752 for IV year CSE-B / VII semester, department of CSE B.E/B.Tech/MBA during the academic year 2022-2023, Odd semester.

In this regard, I confirm, that I have taught all the topics mentioned in the syllabus, and took lectures for 58 periods, revised syllabus for 5 periods and discussed the Anna University Examination question papers of the last 5 years.

Signature :

Name : N. RAMYA

Designation : ASSISTANT PROFESSOR

Department : COMPUTER SCIENCE AND ENGINEERING.

Date : 24/11/2022.

Signature of HoD : 24/11/22

Principal :

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPALLI - 620 012.

Date: 24.11.2022

Ref : SCE/Syllabus/ Theory/2022 to 2023 - Odd semester

STATEMENT FOR SYLLABUS COMPLETION

I have handled the subject PROFESSIONAL ETHICS IN ENGINEERING, code GE8074 for IV year, VII semester, department of CSE B.E/~~B.Tech~~/~~MBA~~ during the academic year 2022-2023, Odd semester.

In this regard, I confirm, that I have taught all the topics mentioned in the syllabus, and took lectures for 45 periods, revised syllabus for 1 periods and discussed the Anna University Examination question papers of the last 2 years.

Signature :

Name : R. SATHEESH

Designation : AP

Department : EEE

Date : 24.11.2022

Signature of HoD : 24/11/22

Principal :

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPALLI - 620 012.

Date: 24/11/2022

Ref : SCE/Syllabus/ **Theory/2022 to 2023 - Odd semester**

STATEMENT FOR SYLLABUS COMPLETION

I have handled the subject Cryptography & Network Security, code CS8792 for IV year, VII semester, department of CSE B.E/B.Tech/MBA during the academic year 2022-2023, Odd semester.

In this regard, I confirm, that I have taught all the topics mentioned in the syllabus, and took lectures for 57 periods, revised syllabus for 3 periods and discussed the Anna University Examination question papers of the last 5 years.

Signature :

Name : Dr. V. PUNITHA

Designation : Professor & Head

Department : CSE

Date : 24/11/22

Signature of HoD : 24/11/2022

Principal :

Saranathan College of Engineering

QAC - Audit Report

Academic Year : 2022-2023

Sem: ODD/ EVEN

Dept CSE

Year/ Sem/Sec	II / IV / A		Test I					Test II					Test III				
Subject Code	Name of faculty		No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %
CS3452	MS. J. Sahaya Parkar	IA Test	65	64	01	16	75	65	63	02	08	85	65	65	NIL	03	80
		Make up Test	17	15	2	10	29	10	10	NIL	09	1					
		Remarks	Due to careless mistake in solving pblm, Student failed					Didn't study well for makeup, hence all failed.					—				
CS3491	Mr. Karthick	IA Test	65	64	01	10	83	65	64	01	18	90	65	61	04	16	69
		Make up Test	11	08	03	06	18	19	19	NIL	10	47					
		Remarks	Lack of presentation for algorithm implementation					Require more time for calculation in clustering techniques					—				
CS3451	MS. D. Shanya	IA Test	65	65	NIL	10	85	65	63	2	15	73	65	65	NIL	16	75
		Make up Test	10	09	01	7	29	17	17	NIL	10	41					
		Remarks	careless mistakes in pblm, hence so many failed.					Didn't write upto the mark for theory questions.					—				
Signature of QAC members with name			1. P. Anand [P. ANAND] 2.					1. P. Anand [P. ANAND] 2.					1. P. Anand [P. ANAND] 2. (Dr. R. Santhanji Selvi)				
Signature of HOD																	
QAC In-Charge																	
IQAC Co-ordinator																	
Principal																	

Saranathan College of Engineering
QAC - Audit Report
Academic Year : 2022-23

Sem: ODD/ EVEN ✓
Dept CSE

Year/ Sem/Sec	III / VI / A																			
Subject Code	Name of faculty		Test I					Test II					Test III							
			No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %			
CS8651 IP	Mr. K. S. Chandrasekar	IA Test	63	62	1	5	90	63	60	3	5	87	63	62	1	0	98			
		Make up Test	6	6	—	2	67	8	7	1	—	88								
		Remarks	—					—					—							
CS8691 AI	Mr. B. Retina Kumar.	IA Test	63	63	—	3	91	63	58	5	23	60	63	62	1	18	68			
		Make up Test	3	3	—	—	100	28	28	—	8	71								
		Remarks	—					—					—							
CS8601 MC	Ms. M. Banu priya.	IA Test	63	62	01	01	87	63	59	04	12	74.6	63	58	5	13	71			
		Make up Test	08	07	01	00	87.5	16	15	01	02	87.5								
		Remarks	—					—					—							
Signature of QAC members with name		1. (Dr. R. Senthamil Selvi) 2. P. Anand (P. Anand)						1. (Dr. R. Senthamil Selvi) 2. P. Anand (P. Anand)					1. (Dr. R. Senthamil Selvi) 2. P. Anand (P. Anand)							
Signature of HOD																				
QAC In-Charge		S. A.						S. A.					S. A.							
IQAC Co-ordinator																				
Principal																				

Saranathan College of Engineering

QAC - Audit Report

Academic Year : 2022-23

Year/ Sem/Sec	IV / VIII / A&B													Sem: ODD/ EVEN				
														Dept	CSE(A&B)			
			Test I					Test II						Test III				
Subject Code	Name of faculty		No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %		No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %
AE8076	Ms.D.Boobala Hunalidharan	IA Test	05	05	-	-	100	05	05	-	-	100						
		Make up Test																
		Remarks	-					-										
CS8080	Ms. S. Ranjani	IA Test	03	03	-	-	100	03	03	-	-	100						
		Make up Test																
		Remarks	-					-										
		IA Test																
		Make up Test																
		Remarks																
Signature of QAC members with name			1. (Dr. R. Santhagiri) 2. P. Anand					1. (Dr. R. Santhagiri) 2. P. Anand										
Signature of HOD																		
QAC In-Charge			S.A.A.					S.A.A.										
IQAC Co-ordinator																		
Principal																		

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23EVEN** Semester : **2** Programme: **B.E/B.Tech (CSE)**
Subject Code : **CS3251** NBA Code : **C114** Title **PROGRAMMING IN C**
Faculty: Ms.K.Mohanappriya / Ms.J.Sathia Parkavi

Cos	CO Description	Attained Level	%
C114.1	Demonstrate knowledge on C Programming constructs	2.4	80.00
C114.2	Develop simple applications in C using basic constructs	2.51	83.67
C114.3	Design and implement applications using arrays and strings	2.52	84.00
C114.4	Develop and implement modular applications in C using functions.	2.52	84.00
C114.5	Develop applications in C using structures and pointers.	2.51	83.67
C114.6	Design applications using sequential and random access file processing.	2.44	81.33

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 120

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
251001	CS3251	3	2	3	3	3	3	20/09/2023	CSE	2
251002	CS3251	2	2	3	2	3	2	20/09/2023	CSE	2
251003	CS3251	2	3	2	3	3	3	20/09/2023	CSE	2
251004	CS3251	2	3	3	2	2	3	20/09/2023	CSE	2
251005	CS3251	3	3	3	2	3	3	20/09/2023	CSE	2
251006	CS3251	3	2	2	2	2	2	20/09/2023	CSE	2
251007	CS3251	2	2	3	3	3	3	20/09/2023	CSE	2
251008	CS3251	3	3	2	2	2	3	20/09/2023	CSE	2
251009	CS3251	2	2	3	3	3	2	20/09/2023	CSE	2
251010	CS3251	2	3	3	2	3	2	20/09/2023	CSE	2
251011	CS3251	3	3	2	3	3	2	20/09/2023	CSE	2
251012	CS3251	2	2	3	2	3	3	20/09/2023	CSE	2
251013	CS3251	3	2	3	2	2	2	20/09/2023	CSE	2
251014	CS3251	3	2	2	2	3	2	20/09/2023	CSE	2
251015	CS3251	2	3	3	3	2	3	20/09/2023	CSE	2
251016	CS3251	2	3	2	2	2	2	20/09/2023	CSE	2
251017	CS3251	2	2	3	2	2	3	20/09/2023	CSE	2
251018	CS3251	3	3	2	2	3	3	20/09/2023	CSE	2
251019	CS3251	3	3	3	3	3	2	20/09/2023	CSE	2
251020	CS3251	2	2	3	2	3	2	20/09/2023	CSE	2
251021	CS3251	2	2	2	3	2	2	20/09/2023	CSE	2
251022	CS3251	2	3	2	3	2	3	20/09/2023	CSE	2
251023	CS3251	2	2	2	3	3	2	20/09/2023	CSE	2
251024	CS3251	3	2	3	2	3	2	20/09/2023	CSE	2
251025	CS3251	2	3	3	3	3	2	20/09/2023	CSE	2
251026	CS3251	2	2	2	3	3	3	20/09/2023	CSE	2
251027	CS3251	2	3	3	2	3	2	20/09/2023	CSE	2
251028	CS3251	2	2	2	3	2	2	20/09/2023	CSE	2
251029	CS3251	3	2	2	2	3	2	20/09/2023	CSE	2
251030	CS3251	2	2	2	3	3	3	20/09/2023	CSE	2

251031	CS3251	2	3	3	2	3	2	20/09/2023	CSE	2
251032	CS3251	2	2	2	3	3	2	20/09/2023	CSE	2
251033	CS3251	3	2	2	3	2	3	20/09/2023	CSE	2
251034	CS3251	2	2	3	2	2	2	20/09/2023	CSE	2
251035	CS3251	2	3	3	2	3	3	20/09/2023	CSE	2
251036	CS3251	3	2	3	3	3	2	20/09/2023	CSE	2
251037	CS3251	2	3	2	3	2	2	20/09/2023	CSE	2
251038	CS3251	3	2	3	2	2	3	20/09/2023	CSE	2
251039	CS3251	2	3	3	3	2	3	20/09/2023	CSE	2
251040	CS3251	2	3	2	3	3	2	20/09/2023	CSE	2
251041	CS3251	3	2	3	2	2	3	20/09/2023	CSE	2
251042	CS3251	3	3	2	2	3	3	20/09/2023	CSE	2
251043	CS3251	2	2	2	3	2	2	20/09/2023	CSE	2
251044	CS3251	2	2	2	2	2	3	20/09/2023	CSE	2
251045	CS3251	2	3	3	2	2	3	20/09/2023	CSE	2
251046	CS3251	3	2	3	3	3	3	20/09/2023	CSE	2
251047	CS3251	2	2	2	2	3	3	20/09/2023	CSE	2
251048	CS3251	2	2	3	3	3	2	20/09/2023	CSE	2
251049	CS3251	2	2	2	3	3	2	20/09/2023	CSE	2
251050	CS3251	2	2	3	3	2	2	20/09/2023	CSE	2
251051	CS3251	3	3	2	2	2	2	20/09/2023	CSE	2
251052	CS3251	2	2	3	3	3	2	20/09/2023	CSE	2
251053	CS3251	2	2	3	2	2	2	20/09/2023	CSE	2
251054	CS3251	2	2	3	3	2	3	20/09/2023	CSE	2
251055	CS3251	2	2	2	3	2	3	20/09/2023	CSE	2
251056	CS3251	3	3	3	2	2	2	20/09/2023	CSE	2
251057	CS3251	2	2	3	2	3	2	20/09/2023	CSE	2
251058	CS3251	3	2	3	3	2	3	20/09/2023	CSE	2
251059	CS3251	2	3	3	3	3	2	20/09/2023	CSE	2
251061	CS3251	2	2	2	2	2	3	20/09/2023	CSE	2
251062	CS3251	2	2	2	2	3	3	20/09/2023	CSE	2
251063	CS3251	3	2	3	2	2	2	20/09/2023	CSE	2
251064	CS3251	2	3	3	2	3	3	20/09/2023	CSE	2
251065	CS3251	3	2	3	2	2	2	20/09/2023	CSE	2
251066	CS3251	3	3	2	2	2	3	20/09/2023	CSE	2
251067	CS3251	2	3	2	3	2	2	20/09/2023	CSE	2
251068	CS3251	3	3	3	3	3	3	20/09/2023	CSE	2
251069	CS3251	2	2	2	3	3	3	20/09/2023	CSE	2
251070	CS3251	2	3	3	3	2	2	20/09/2023	CSE	2
251071	CS3251	2	3	2	3	3	3	20/09/2023	CSE	2
251072	CS3251	2	3	2	2	2	2	20/09/2023	CSE	2
251073	CS3251	3	2	3	3	2	2	20/09/2023	CSE	2
251074	CS3251	3	3	2	3	3	3	20/09/2023	CSE	2
251075	CS3251	2	2	3	3	2	3	20/09/2023	CSE	2
251076	CS3251	3	2	3	3	2	3	20/09/2023	CSE	2
251077	CS3251	2	2	2	3	3	3	20/09/2023	CSE	2
251078	CS3251	2	3	2	3	2	2	20/09/2023	CSE	2
251079	CS3251	2	2	3	3	2	2	20/09/2023	CSE	2

251080	CS3251	3	3	3	2	2	3	20/09/2023	CSE	2
251081	CS3251	2	2	2	2	2	2	20/09/2023	CSE	2
251082	CS3251	2	3	3	2	2	2	20/09/2023	CSE	2
251083	CS3251	3	3	2	3	3	2	20/09/2023	CSE	2
251084	CS3251	3	3	3	2	3	2	20/09/2023	CSE	2
251085	CS3251	2	2	2	2	3	2	20/09/2023	CSE	2
251087	CS3251	3	3	2	2	3	3	20/09/2023	CSE	2
251088	CS3251	3	3	2	2	2	3	20/09/2023	CSE	2
251089	CS3251	3	3	3	2	2	2	20/09/2023	CSE	2
251090	CS3251	2	3	2	2	3	3	20/09/2023	CSE	2
251091	CS3251	2	3	3	3	3	3	20/09/2023	CSE	2
251092	CS3251	2	3	2	3	3	2	20/09/2023	CSE	2
251093	CS3251	3	2	2	2	2	3	20/09/2023	CSE	2
251094	CS3251	3	3	2	3	3	2	20/09/2023	CSE	2
251095	CS3251	2	3	3	3	3	2	20/09/2023	CSE	2
251096	CS3251	3	3	3	3	2	2	20/09/2023	CSE	2
251097	CS3251	3	3	2	2	3	3	20/09/2023	CSE	2
251098	CS3251	3	3	2	2	3	2	20/09/2023	CSE	2
251099	CS3251	2	3	2	2	2	2	20/09/2023	CSE	2
251100	CS3251	3	2	2	3	2	2	20/09/2023	CSE	2
251101	CS3251	2	3	3	3	3	3	20/09/2023	CSE	2
251102	CS3251	2	3	2	3	3	2	20/09/2023	CSE	2
251103	CS3251	3	3	2	2	2	2	20/09/2023	CSE	2
251104	CS3251	2	2	3	2	2	3	20/09/2023	CSE	2
251105	CS3251	3	2	2	2	3	2	20/09/2023	CSE	2
251106	CS3251	3	3	3	3	2	3	20/09/2023	CSE	2
251107	CS3251	2	2	2	2	2	2	20/09/2023	CSE	2
251108	CS3251	2	3	3	3	3	3	20/09/2023	CSE	2
251109	CS3251	2	3	3	3	2	3	20/09/2023	CSE	2
251110	CS3251	2	3	2	3	2	2	20/09/2023	CSE	2
251111	CS3251	2	2	2	2	3	2	20/09/2023	CSE	2
251112	CS3251	3	2	3	3	3	2	20/09/2023	CSE	2
251113	CS3251	2	2	3	2	2	3	20/09/2023	CSE	2
251114	CS3251	2	3	2	3	2	3	20/09/2023	CSE	2
251115	CS3251	2	3	3	2	3	3	20/09/2023	CSE	2
251116	CS3251	3	3	2	3	3	3	20/09/2023	CSE	2
251117	CS3251	3	3	3	2	2	2	20/09/2023	CSE	2
251118	CS3251	3	3	2	3	2	2	20/09/2023	CSE	2
251119	CS3251	2	2	3	3	3	2	20/09/2023	CSE	2
251120	CS3251	3	2	3	2	3	2	20/09/2023	CSE	2
251122	CS3251	3	3	3	3	2	2	20/09/2023	CSE	2
251123	CS3251	2	2	2	3	2	2	20/09/2023	CSE	2
Attained Level		2.4	2.51	2.52	2.52	2.51	2.44			
%		80.00	83.67	84.00	84.00	83.67	81.33			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23ODD** Semester : **3** Programme: **B.E/B.Tech (CSE)**
Subject Code : **CS3301** NBA Code : **C204** Title **DATA STRUCTURES**
Faculty: Dr.PL.Rajarajeswari / Mr.R.Karthik

Cos	CO Description	Attained Level	%
C204.1	Define linear and non-linear data structures.	3.0	100.00
C204.2	Implement linear and non¿linear data structure operations.	3.0	100.00
C204.3	Use appropriate linear/non¿linear data structure operations for solving a given problem.	2.6	86.67
C204.4	Implement multi-way search tree, traversals and their types (B, B+) to solve various problems.	2.45	81.67
C204.5	Apply appropriate graph algorithms for graph applications.	2.53	84.33
C204.6	Analyze the various searching and sorting algorithms.	3.0	100.00

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 131

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
221116	CS3301	3	3	3	2	3	3	24/02/2023	CSE	3
241001	CS3301	3	3	2	2	2	3	24/02/2023	CSE	3
241002	CS3301	3	3	2	2	2	3	24/02/2023	CSE	3
241003	CS3301	3	3	2	2	3	3	24/02/2023	CSE	3
241004	CS3301	3	3	3	2	2	3	24/02/2023	CSE	3
241005	CS3301	3	3	2	2	3	3	24/02/2023	CSE	3
241006	CS3301	3	3	3	3	3	3	24/02/2023	CSE	3
241007	CS3301	3	3	3	2	2	3	24/02/2023	CSE	3
241008	CS3301	3	3	3	3	2	3	24/02/2023	CSE	3
241009	CS3301	3	3	3	3	2	3	24/02/2023	CSE	3
241010	CS3301	3	3	2	3	3	3	24/02/2023	CSE	3
241011	CS3301	3	3	3	3	2	3	24/02/2023	CSE	3
241012	CS3301	3	3	2	3	2	3	24/02/2023	CSE	3
241013	CS3301	3	3	3	2	2	3	24/02/2023	CSE	3
241015	CS3301	3	3	2	2	2	3	24/02/2023	CSE	3
241016	CS3301	3	3	3	3	3	3	24/02/2023	CSE	3
241017	CS3301	3	3	3	3	3	3	24/02/2023	CSE	3
241018	CS3301	3	3	2	3	2	3	24/02/2023	CSE	3
241019	CS3301	3	3	3	3	3	3	24/02/2023	CSE	3
241020	CS3301	3	3	3	3	3	3	24/02/2023	CSE	3
241021	CS3301	3	3	2	2	2	3	24/02/2023	CSE	3
241022	CS3301	3	3	2	3	2	3	24/02/2023	CSE	3
241023	CS3301	3	3	2	3	3	3	24/02/2023	CSE	3
241024	CS3301	3	3	3	2	3	3	24/02/2023	CSE	3
241025	CS3301	3	3	3	2	2	3	24/02/2023	CSE	3
241026	CS3301	3	3	3	3	3	3	24/02/2023	CSE	3
241027	CS3301	3	3	3	2	3	3	24/02/2023	CSE	3
241028	CS3301	3	3	3	2	2	3	24/02/2023	CSE	3
241029	CS3301	3	3	3	2	3	3	24/02/2023	CSE	3
241030	CS3301	3	3	3	3	3	3	24/02/2023	CSE	3

241031	CS3301	3	3	2	2	3	3	24/02/2023	CSE	3
241032	CS3301	3	3	2	2	2	3	24/02/2023	CSE	3
241033	CS3301	3	3	3	2	3	3	24/02/2023	CSE	3
241034	CS3301	3	3	3	3	3	3	24/02/2023	CSE	3
241035	CS3301	3	3	3	3	3	3	24/02/2023	CSE	3
241036	CS3301	3	3	3	2	2	3	24/02/2023	CSE	3
241037	CS3301	3	3	3	2	2	3	24/02/2023	CSE	3
241038	CS3301	3	3	3	3	3	3	24/02/2023	CSE	3
241039	CS3301	3	3	2	2	2	3	24/02/2023	CSE	3
241040	CS3301	3	3	2	2	3	3	24/02/2023	CSE	3
241041	CS3301	3	3	2	2	2	3	24/02/2023	CSE	3
241042	CS3301	3	3	3	3	3	3	24/02/2023	CSE	3
241043	CS3301	3	3	2	2	2	3	24/02/2023	CSE	3
241044	CS3301	3	3	3	2	2	3	24/02/2023	CSE	3
241045	CS3301	3	3	2	2	3	3	24/02/2023	CSE	3
241046	CS3301	3	3	3	3	2	3	24/02/2023	CSE	3
241047	CS3301	3	3	3	2	3	3	24/02/2023	CSE	3
241048	CS3301	3	3	3	2	3	3	24/02/2023	CSE	3
241049	CS3301	3	3	3	2	2	3	24/02/2023	CSE	3
241050	CS3301	3	3	3	2	2	3	24/02/2023	CSE	3
241051	CS3301	3	3	3	2	3	3	24/02/2023	CSE	3
241052	CS3301	3	3	2	3	3	3	24/02/2023	CSE	3
241053	CS3301	3	3	3	3	2	3	24/02/2023	CSE	3
241054	CS3301	3	3	3	3	2	3	24/02/2023	CSE	3
241055	CS3301	3	3	3	2	2	3	24/02/2023	CSE	3
241056	CS3301	3	3	2	2	3	3	24/02/2023	CSE	3
241057	CS3301	3	3	3	2	3	3	24/02/2023	CSE	3
241058	CS3301	3	3	2	3	3	3	24/02/2023	CSE	3
241059	CS3301	3	3	3	2	2	3	24/02/2023	CSE	3
241060	CS3301	3	3	2	3	3	3	24/02/2023	CSE	3
241061	CS3301	3	3	3	3	2	3	24/02/2023	CSE	3
241062	CS3301	3	3	2	3	2	3	24/02/2023	CSE	3
241063	CS3301	3	3	2	3	3	3	24/02/2023	CSE	3
241064	CS3301	3	3	3	2	3	3	24/02/2023	CSE	3
241065	CS3301	3	3	3	2	3	3	24/02/2023	CSE	3
241066	CS3301	3	3	3	3	3	3	24/02/2023	CSE	3
241067	CS3301	3	3	3	2	3	3	24/02/2023	CSE	3
241068	CS3301	3	3	3	3	3	3	24/02/2023	CSE	3
241069	CS3301	3	3	3	3	3	3	24/02/2023	CSE	3
241070	CS3301	3	3	3	2	2	3	24/02/2023	CSE	3
241071	CS3301	3	3	2	2	2	3	24/02/2023	CSE	3
241072	CS3301	3	3	2	2	2	3	24/02/2023	CSE	3
241073	CS3301	3	3	3	2	2	3	24/02/2023	CSE	3
241074	CS3301	3	3	2	3	3	3	24/02/2023	CSE	3
241075	CS3301	3	3	2	3	3	3	24/02/2023	CSE	3
241076	CS3301	3	3	3	2	2	3	24/02/2023	CSE	3
241077	CS3301	3	3	3	3	3	3	24/02/2023	CSE	3
241078	CS3301	3	3	2	2	2	3	24/02/2023	CSE	3

241079	CS3301	3	3	3	2	3	3	24/02/2023	CSE	3
241080	CS3301	3	3	3	3	3	3	24/02/2023	CSE	3
241081	CS3301	3	3	2	3	2	3	24/02/2023	CSE	3
241082	CS3301	3	3	3	2	2	3	24/02/2023	CSE	3
241084	CS3301	3	3	3	2	2	3	24/02/2023	CSE	3
241085	CS3301	3	3	2	2	3	3	24/02/2023	CSE	3
241086	CS3301	3	3	3	2	3	3	24/02/2023	CSE	3
241087	CS3301	3	3	3	3	3	3	24/02/2023	CSE	3
241088	CS3301	3	3	2	2	3	3	24/02/2023	CSE	3
241089	CS3301	3	3	2	2	2	3	24/02/2023	CSE	3
241090	CS3301	3	3	2	3	3	3	24/02/2023	CSE	3
241091	CS3301	3	3	2	3	2	3	24/02/2023	CSE	3
241092	CS3301	3	3	3	3	2	3	24/02/2023	CSE	3
241093	CS3301	3	3	2	3	2	3	24/02/2023	CSE	3
241094	CS3301	3	3	3	2	2	3	24/02/2023	CSE	3
241095	CS3301	3	3	2	3	2	3	24/02/2023	CSE	3
241096	CS3301	3	3	3	3	3	3	24/02/2023	CSE	3
241097	CS3301	3	3	2	2	3	3	24/02/2023	CSE	3
241098	CS3301	3	3	3	2	2	3	24/02/2023	CSE	3
241100	CS3301	3	3	3	3	2	3	24/02/2023	CSE	3
241101	CS3301	3	3	3	2	3	3	24/02/2023	CSE	3
241102	CS3301	3	3	2	2	2	3	24/02/2023	CSE	3
241103	CS3301	3	3	2	2	2	3	24/02/2023	CSE	3
241104	CS3301	3	3	2	2	2	3	24/02/2023	CSE	3
241105	CS3301	3	3	2	2	3	3	24/02/2023	CSE	3
241106	CS3301	3	3	2	2	2	3	24/02/2023	CSE	3
241107	CS3301	3	3	3	3	3	3	24/02/2023	CSE	3
241108	CS3301	3	3	2	3	2	3	24/02/2023	CSE	3
241109	CS3301	3	3	3	2	2	3	24/02/2023	CSE	3
241110	CS3301	3	3	3	3	3	3	24/02/2023	CSE	3
241111	CS3301	3	3	3	3	3	3	24/02/2023	CSE	3
241112	CS3301	3	3	2	2	3	3	24/02/2023	CSE	3
241114	CS3301	3	3	3	2	2	3	24/02/2023	CSE	3
241115	CS3301	3	3	2	3	2	3	24/02/2023	CSE	3
241116	CS3301	3	3	3	2	2	3	24/02/2023	CSE	3
241117	CS3301	3	3	2	3	3	3	24/02/2023	CSE	3
241118	CS3301	3	3	2	2	3	3	24/02/2023	CSE	3
241119	CS3301	3	3	3	3	3	3	24/02/2023	CSE	3
241120	CS3301	3	3	3	2	2	3	24/02/2023	CSE	3
241121	CS3301	3	3	2	2	3	3	24/02/2023	CSE	3
241122	CS3301	3	3	2	3	3	3	24/02/2023	CSE	3
241123	CS3301	3	3	3	3	3	3	24/02/2023	CSE	3
241124	CS3301	3	3	3	3	3	3	24/02/2023	CSE	3
241125	CS3301	3	3	2	2	2	3	24/02/2023	CSE	3
241126	CS3301	3	3	3	2	2	3	24/02/2023	CSE	3
241127	CS3301	3	3	2	3	2	3	24/02/2023	CSE	3
241128	CS3301	3	3	3	2	3	3	24/02/2023	CSE	3
241129	CS3301	3	3	3	3	3	3	24/02/2023	CSE	3

241130	CS3301	3	3	3	3	3	3	24/02/2023	CSE	3
241131	CS3301	3	3	3	2	3	3	24/02/2023	CSE	3
241132	CS3301	3	3	2	3	3	3	24/02/2023	CSE	3
241133	CS3301	3	3	3	2	3	3	24/02/2023	CSE	3
241134	CS3301	3	3	3	3	3	3	24/02/2023	CSE	3
Attained Level		3.0	3.0	2.6	2.45	2.53	3.0			
%		100.00	100.00	86.67	81.67	84.33	100.00			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23EVEN** Semester : **4** Programme: **B.E/B.Tech (CSE)**
Subject Code : **CS3491** NBA Code : **cs3491** Title **ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**
Faculty: Mr.R.Karthik / Mr.P.B.Arun Prasad

Cos	CO Description	Attained Level	%
cs3491.1	Understand the concepts of Informed and Heuristic search techniques	2.52	84.00
cs3491.2	Techniques for reasoning under uncertainty	2.44	81.33
cs3491.3	Understand Machine Learning and supervised learning algorithms	2.45	81.67
cs3491.4	Build the supervised learning models	2.55	85.00
cs3491.5	Understand the unsupervised learning algorithms ensembling and unsupervised models	2.5	83.33
cs3491.6	Understand the basics of deep learning using neural networks and able to build it.	2.46	82.00

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 131

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
221116	CS3491	3	2	2	3	3	2	20/09/2023	CSE	4
241001	CS3491	3	2	3	3	2	3	20/09/2023	CSE	4
241002	CS3491	3	3	3	3	2	2	20/09/2023	CSE	4
241003	CS3491	2	3	2	2	3	3	20/09/2023	CSE	4
241004	CS3491	3	2	3	3	2	3	20/09/2023	CSE	4
241005	CS3491	2	3	2	2	2	2	20/09/2023	CSE	4
241006	CS3491	3	3	2	2	3	2	20/09/2023	CSE	4
241007	CS3491	2	2	2	3	3	3	20/09/2023	CSE	4
241008	CS3491	3	3	3	3	2	3	20/09/2023	CSE	4
241009	CS3491	2	2	3	2	3	3	20/09/2023	CSE	4
241010	CS3491	3	2	3	2	3	2	20/09/2023	CSE	4
241011	CS3491	3	3	3	3	2	3	20/09/2023	CSE	4
241012	CS3491	3	2	2	2	2	2	20/09/2023	CSE	4
241013	CS3491	3	2	3	3	2	2	20/09/2023	CSE	4
241015	CS3491	2	3	3	2	2	3	20/09/2023	CSE	4
241016	CS3491	2	3	2	3	3	2	20/09/2023	CSE	4
241017	CS3491	3	2	3	3	2	3	20/09/2023	CSE	4
241018	CS3491	2	2	3	3	2	2	20/09/2023	CSE	4
241019	CS3491	3	2	2	3	3	2	20/09/2023	CSE	4
241020	CS3491	3	2	3	2	3	2	20/09/2023	CSE	4
241021	CS3491	2	2	2	3	3	3	20/09/2023	CSE	4
241022	CS3491	2	2	2	3	2	3	20/09/2023	CSE	4
241023	CS3491	2	2	2	3	2	2	20/09/2023	CSE	4
241024	CS3491	2	2	3	2	2	2	20/09/2023	CSE	4
241025	CS3491	3	2	3	3	2	2	20/09/2023	CSE	4
241026	CS3491	3	3	2	2	3	3	20/09/2023	CSE	4
241027	CS3491	3	2	2	2	3	2	20/09/2023	CSE	4
241028	CS3491	3	2	2	3	2	2	20/09/2023	CSE	4
241029	CS3491	3	2	2	3	3	3	20/09/2023	CSE	4
241030	CS3491	2	2	2	3	3	3	20/09/2023	CSE	4

241031	CS3491	3	3	3	3	2	2	20/09/2023	CSE	4
241032	CS3491	3	3	3	3	3	2	20/09/2023	CSE	4
241033	CS3491	3	2	2	3	2	3	20/09/2023	CSE	4
241034	CS3491	2	2	2	3	2	3	20/09/2023	CSE	4
241035	CS3491	3	3	3	2	3	3	20/09/2023	CSE	4
241036	CS3491	3	3	3	2	3	3	20/09/2023	CSE	4
241037	CS3491	2	2	3	3	3	2	20/09/2023	CSE	4
241038	CS3491	2	2	2	3	2	3	20/09/2023	CSE	4
241039	CS3491	2	3	3	3	3	2	20/09/2023	CSE	4
241040	CS3491	3	3	2	3	2	3	20/09/2023	CSE	4
241041	CS3491	3	2	2	3	2	3	20/09/2023	CSE	4
241042	CS3491	3	2	3	2	3	3	20/09/2023	CSE	4
241043	CS3491	3	3	3	3	2	3	20/09/2023	CSE	4
241044	CS3491	3	3	2	2	2	2	20/09/2023	CSE	4
241045	CS3491	3	2	2	2	2	2	20/09/2023	CSE	4
241046	CS3491	3	2	3	2	2	3	20/09/2023	CSE	4
241047	CS3491	2	2	2	3	3	2	20/09/2023	CSE	4
241048	CS3491	3	3	2	2	2	3	20/09/2023	CSE	4
241049	CS3491	2	2	2	3	2	2	20/09/2023	CSE	4
241050	CS3491	2	3	3	3	3	2	20/09/2023	CSE	4
241051	CS3491	3	2	2	2	2	3	20/09/2023	CSE	4
241052	CS3491	3	2	2	3	3	2	20/09/2023	CSE	4
241053	CS3491	2	2	3	3	3	3	20/09/2023	CSE	4
241054	CS3491	2	2	3	3	2	2	20/09/2023	CSE	4
241055	CS3491	2	3	2	2	3	2	20/09/2023	CSE	4
241056	CS3491	2	2	3	2	2	3	20/09/2023	CSE	4
241057	CS3491	2	3	2	2	3	2	20/09/2023	CSE	4
241058	CS3491	2	2	3	2	3	3	20/09/2023	CSE	4
241059	CS3491	3	3	3	3	2	2	20/09/2023	CSE	4
241060	CS3491	3	2	2	2	2	3	20/09/2023	CSE	4
241061	CS3491	2	2	2	3	2	3	20/09/2023	CSE	4
241062	CS3491	3	2	3	3	2	2	20/09/2023	CSE	4
241063	CS3491	3	2	2	3	3	3	20/09/2023	CSE	4
241064	CS3491	2	3	2	2	2	3	20/09/2023	CSE	4
241065	CS3491	2	3	2	3	2	3	20/09/2023	CSE	4
241066	CS3491	2	2	2	3	3	2	20/09/2023	CSE	4
241067	CS3491	2	2	3	2	2	3	20/09/2023	CSE	4
241068	CS3491	3	2	2	3	3	2	20/09/2023	CSE	4
241069	CS3491	3	2	3	3	2	3	20/09/2023	CSE	4
241070	CS3491	2	2	2	3	3	3	20/09/2023	CSE	4
241071	CS3491	3	2	2	3	2	2	20/09/2023	CSE	4
241072	CS3491	3	2	2	2	2	2	20/09/2023	CSE	4
241073	CS3491	3	3	2	3	2	2	20/09/2023	CSE	4
241074	CS3491	3	3	2	3	3	3	20/09/2023	CSE	4
241075	CS3491	3	2	3	2	3	2	20/09/2023	CSE	4
241076	CS3491	2	2	3	3	2	3	20/09/2023	CSE	4
241077	CS3491	2	2	3	3	3	3	20/09/2023	CSE	4
241078	CS3491	2	3	2	2	3	3	20/09/2023	CSE	4

241079	CS3491	3	2	2	2	3	2	20/09/2023	CSE	4
241080	CS3491	2	2	3	3	2	2	20/09/2023	CSE	4
241081	CS3491	2	3	2	2	3	2	20/09/2023	CSE	4
241082	CS3491	2	2	2	3	2	2	20/09/2023	CSE	4
241084	CS3491	3	2	3	2	2	2	20/09/2023	CSE	4
241085	CS3491	2	3	2	3	3	3	20/09/2023	CSE	4
241086	CS3491	3	2	2	2	3	2	20/09/2023	CSE	4
241087	CS3491	3	3	2	2	3	3	20/09/2023	CSE	4
241088	CS3491	2	2	3	3	2	3	20/09/2023	CSE	4
241089	CS3491	3	3	2	3	3	2	20/09/2023	CSE	4
241090	CS3491	3	3	3	2	3	2	20/09/2023	CSE	4
241091	CS3491	3	3	2	3	3	3	20/09/2023	CSE	4
241092	CS3491	3	3	3	2	2	2	20/09/2023	CSE	4
241093	CS3491	2	3	3	3	3	2	20/09/2023	CSE	4
241094	CS3491	2	3	2	3	2	3	20/09/2023	CSE	4
241095	CS3491	3	2	2	2	2	2	20/09/2023	CSE	4
241096	CS3491	3	3	3	2	2	2	20/09/2023	CSE	4
241097	CS3491	3	3	2	3	3	2	20/09/2023	CSE	4
241098	CS3491	3	3	3	2	2	3	20/09/2023	CSE	4
241100	CS3491	2	3	2	2	3	2	20/09/2023	CSE	4
241101	CS3491	2	3	2	2	2	2	20/09/2023	CSE	4
241102	CS3491	3	2	3	2	3	2	20/09/2023	CSE	4
241103	CS3491	2	3	3	3	2	3	20/09/2023	CSE	4
241104	CS3491	2	3	2	2	3	3	20/09/2023	CSE	4
241105	CS3491	3	3	3	2	3	2	20/09/2023	CSE	4
241106	CS3491	2	3	3	3	3	2	20/09/2023	CSE	4
241107	CS3491	2	2	2	2	2	3	20/09/2023	CSE	4
241108	CS3491	2	2	2	2	2	2	20/09/2023	CSE	4
241109	CS3491	3	2	2	3	2	3	20/09/2023	CSE	4
241110	CS3491	3	3	3	3	2	3	20/09/2023	CSE	4
241111	CS3491	2	2	2	2	2	2	20/09/2023	CSE	4
241112	CS3491	3	3	3	3	3	2	20/09/2023	CSE	4
241114	CS3491	2	3	2	3	3	2	20/09/2023	CSE	4
241115	CS3491	2	2	2	2	3	2	20/09/2023	CSE	4
241116	CS3491	2	3	2	2	3	2	20/09/2023	CSE	4
241117	CS3491	2	3	2	2	2	2	20/09/2023	CSE	4
241118	CS3491	3	3	3	2	2	3	20/09/2023	CSE	4
241119	CS3491	3	2	2	3	2	2	20/09/2023	CSE	4
241120	CS3491	3	3	2	2	2	2	20/09/2023	CSE	4
241121	CS3491	2	2	3	2	3	3	20/09/2023	CSE	4
241122	CS3491	2	3	3	2	3	2	20/09/2023	CSE	4
241123	CS3491	3	2	2	2	3	3	20/09/2023	CSE	4
241124	CS3491	2	3	3	3	3	2	20/09/2023	CSE	4
241125	CS3491	2	3	3	3	3	3	20/09/2023	CSE	4
241126	CS3491	2	2	2	2	3	2	20/09/2023	CSE	4
241127	CS3491	3	2	3	3	2	2	20/09/2023	CSE	4
241128	CS3491	2	2	2	3	3	3	20/09/2023	CSE	4
241129	CS3491	2	2	3	2	3	3	20/09/2023	CSE	4

241130	CS3491	2	3	3	2	3	2	20/09/2023	CSE	4
241131	CS3491	3	3	3	3	3	3	20/09/2023	CSE	4
241132	CS3491	2	2	2	3	2	2	20/09/2023	CSE	4
241133	CS3491	2	3	2	3	3	3	20/09/2023	CSE	4
241134	CS3491	3	2	3	2	2	2	20/09/2023	CSE	4
Attained Level		2.52	2.44	2.45	2.55	2.5	2.46			
%		84.00	81.33	81.67	85.00	83.33	82.00			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23ODD** Semester : **5** Programme: **B.E/B.Tech (CSE)**
Subject Code : **CS8501** NBA Code : **C304** Title **THEORY OF COMPUTATION**
Faculty: Dr.R.Senthamil Selvi / Ms.K.Mohanappriya

Cos	CO Description	Attained Level	%
C304.1	Analyze and design finite automata	3.0	100.00
C304.2	Understand the key notions in regular language and Regular expression,computability through problem solving.	3.0	100.00
C304.3	Understand and construct grammars and Pushdown Automata.	2.52	84.00
C304.4	Describe CFL and Normal Forms	2.46	82.00
C304.5	Describing the turing machine problems, solvable unsolvable problems.	2.51	83.67
C304.6	Explain the Decidability or Undecidability of various problems and analyze complexity	3.0	100.00

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 125

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
231001	CS8501	3	3	2	2	3	3	24/02/2023	CSE	5
231002	CS8501	3	3	2	3	2	3	24/02/2023	CSE	5
231003	CS8501	3	3	3	3	3	3	24/02/2023	CSE	5
231004	CS8501	3	3	3	3	3	3	24/02/2023	CSE	5
231005	CS8501	3	3	2	2	3	3	24/02/2023	CSE	5
231006	CS8501	3	3	3	3	3	3	24/02/2023	CSE	5
231007	CS8501	3	3	2	2	3	3	24/02/2023	CSE	5
231008	CS8501	3	3	3	2	3	3	24/02/2023	CSE	5
231009	CS8501	3	3	3	2	2	3	24/02/2023	CSE	5
231010	CS8501	3	3	3	2	2	3	24/02/2023	CSE	5
231011	CS8501	3	3	2	3	2	3	24/02/2023	CSE	5
231012	CS8501	3	3	2	3	3	3	24/02/2023	CSE	5
231013	CS8501	3	3	2	2	3	3	24/02/2023	CSE	5
231014	CS8501	3	3	2	2	2	3	24/02/2023	CSE	5
231015	CS8501	3	3	3	3	3	3	24/02/2023	CSE	5
231016	CS8501	3	3	3	3	3	3	24/02/2023	CSE	5
231017	CS8501	3	3	3	2	3	3	24/02/2023	CSE	5
231018	CS8501	3	3	2	3	3	3	24/02/2023	CSE	5
231019	CS8501	3	3	2	2	2	3	24/02/2023	CSE	5
231020	CS8501	3	3	2	2	3	3	24/02/2023	CSE	5
231021	CS8501	3	3	3	3	2	3	24/02/2023	CSE	5
231022	CS8501	3	3	2	3	3	3	24/02/2023	CSE	5
231023	CS8501	3	3	3	2	2	3	24/02/2023	CSE	5
231024	CS8501	3	3	2	2	3	3	24/02/2023	CSE	5
231025	CS8501	3	3	2	2	2	3	24/02/2023	CSE	5
231026	CS8501	3	3	3	2	2	3	24/02/2023	CSE	5
231027	CS8501	3	3	2	2	3	3	24/02/2023	CSE	5
231028	CS8501	3	3	3	3	3	3	24/02/2023	CSE	5
231029	CS8501	3	3	3	2	2	3	24/02/2023	CSE	5

231030	CS8501	3	3	2	3	2	3	24/02/2023	CSE	5
231031	CS8501	3	3	3	3	2	3	24/02/2023	CSE	5
231032	CS8501	3	3	2	3	3	3	24/02/2023	CSE	5
231033	CS8501	3	3	2	3	3	3	24/02/2023	CSE	5
231034	CS8501	3	3	2	3	2	3	24/02/2023	CSE	5
231035	CS8501	3	3	3	3	2	3	24/02/2023	CSE	5
231036	CS8501	3	3	2	2	2	3	24/02/2023	CSE	5
231037	CS8501	3	3	2	2	3	3	24/02/2023	CSE	5
231038	CS8501	3	3	2	3	3	3	24/02/2023	CSE	5
231039	CS8501	3	3	3	2	2	3	24/02/2023	CSE	5
231040	CS8501	3	3	2	2	3	3	24/02/2023	CSE	5
231041	CS8501	3	3	2	3	3	3	24/02/2023	CSE	5
231042	CS8501	3	3	2	2	3	3	24/02/2023	CSE	5
231043	CS8501	3	3	3	2	3	3	24/02/2023	CSE	5
231044	CS8501	3	3	3	2	2	3	24/02/2023	CSE	5
231045	CS8501	3	3	3	3	2	3	24/02/2023	CSE	5
231046	CS8501	3	3	2	2	3	3	24/02/2023	CSE	5
231047	CS8501	3	3	2	2	2	3	24/02/2023	CSE	5
231048	CS8501	3	3	3	2	3	3	24/02/2023	CSE	5
231049	CS8501	3	3	2	3	3	3	24/02/2023	CSE	5
231050	CS8501	3	3	2	2	2	3	24/02/2023	CSE	5
231051	CS8501	3	3	3	2	3	3	24/02/2023	CSE	5
231052	CS8501	3	3	3	3	3	3	24/02/2023	CSE	5
231053	CS8501	3	3	3	2	3	3	24/02/2023	CSE	5
231054	CS8501	3	3	3	2	3	3	24/02/2023	CSE	5
231055	CS8501	3	3	2	2	2	3	24/02/2023	CSE	5
231056	CS8501	3	3	3	2	2	3	24/02/2023	CSE	5
231057	CS8501	3	3	2	3	2	3	24/02/2023	CSE	5
231058	CS8501	3	3	3	2	2	3	24/02/2023	CSE	5
231059	CS8501	3	3	2	3	2	3	24/02/2023	CSE	5
231060	CS8501	3	3	3	2	3	3	24/02/2023	CSE	5
231061	CS8501	3	3	3	2	3	3	24/02/2023	CSE	5
231062	CS8501	3	3	3	3	3	3	24/02/2023	CSE	5
231063	CS8501	3	3	2	3	3	3	24/02/2023	CSE	5
231064	CS8501	3	3	3	2	2	3	24/02/2023	CSE	5
231065	CS8501	3	3	2	2	2	3	24/02/2023	CSE	5
231066	CS8501	3	3	2	2	3	3	24/02/2023	CSE	5
231067	CS8501	3	3	3	2	3	3	24/02/2023	CSE	5
231068	CS8501	3	3	3	3	3	3	24/02/2023	CSE	5
231069	CS8501	3	3	2	2	2	3	24/02/2023	CSE	5
231070	CS8501	3	3	2	3	3	3	24/02/2023	CSE	5
231071	CS8501	3	3	3	2	3	3	24/02/2023	CSE	5
231072	CS8501	3	3	2	2	2	3	24/02/2023	CSE	5
231073	CS8501	3	3	2	2	3	3	24/02/2023	CSE	5
231074	CS8501	3	3	3	3	3	3	24/02/2023	CSE	5
231075	CS8501	3	3	3	2	2	3	24/02/2023	CSE	5
231076	CS8501	3	3	3	3	2	3	24/02/2023	CSE	5
231077	CS8501	3	3	3	2	3	3	24/02/2023	CSE	5

231078	CS8501	3	3	2	3	2	3	24/02/2023	CSE	5
231079	CS8501	3	3	2	2	3	3	24/02/2023	CSE	5
231080	CS8501	3	3	3	2	2	3	24/02/2023	CSE	5
231081	CS8501	3	3	3	2	2	3	24/02/2023	CSE	5
231082	CS8501	3	3	3	3	2	3	24/02/2023	CSE	5
231083	CS8501	3	3	3	2	2	3	24/02/2023	CSE	5
231084	CS8501	3	3	3	3	2	3	24/02/2023	CSE	5
231085	CS8501	3	3	2	3	3	3	24/02/2023	CSE	5
231086	CS8501	3	3	3	3	3	3	24/02/2023	CSE	5
231088	CS8501	3	3	3	2	2	3	24/02/2023	CSE	5
231089	CS8501	3	3	3	2	2	3	24/02/2023	CSE	5
231090	CS8501	3	3	2	2	2	3	24/02/2023	CSE	5
231091	CS8501	3	3	2	2	2	3	24/02/2023	CSE	5
231092	CS8501	3	3	3	2	3	3	24/02/2023	CSE	5
231093	CS8501	3	3	3	3	3	3	24/02/2023	CSE	5
231094	CS8501	3	3	2	3	3	3	24/02/2023	CSE	5
231095	CS8501	3	3	2	3	2	3	24/02/2023	CSE	5
231096	CS8501	3	3	3	3	3	3	24/02/2023	CSE	5
231097	CS8501	3	3	3	3	3	3	24/02/2023	CSE	5
231098	CS8501	3	3	2	3	2	3	24/02/2023	CSE	5
231099	CS8501	3	3	3	3	2	3	24/02/2023	CSE	5
231100	CS8501	3	3	2	2	3	3	24/02/2023	CSE	5
231101	CS8501	3	3	3	3	2	3	24/02/2023	CSE	5
231102	CS8501	3	3	3	3	3	3	24/02/2023	CSE	5
231103	CS8501	3	3	3	3	2	3	24/02/2023	CSE	5
231104	CS8501	3	3	2	3	2	3	24/02/2023	CSE	5
231105	CS8501	3	3	2	2	2	3	24/02/2023	CSE	5
231106	CS8501	3	3	2	2	2	3	24/02/2023	CSE	5
231107	CS8501	3	3	3	2	2	3	24/02/2023	CSE	5
231108	CS8501	3	3	2	2	3	3	24/02/2023	CSE	5
231109	CS8501	3	3	3	3	2	3	24/02/2023	CSE	5
231110	CS8501	3	3	2	3	3	3	24/02/2023	CSE	5
231111	CS8501	3	3	3	3	3	3	24/02/2023	CSE	5
231112	CS8501	3	3	3	2	2	3	24/02/2023	CSE	5
231113	CS8501	3	3	3	3	2	3	24/02/2023	CSE	5
231114	CS8501	3	3	2	3	3	3	24/02/2023	CSE	5
231115	CS8501	3	3	3	3	2	3	24/02/2023	CSE	5
231116	CS8501	3	3	2	2	2	3	24/02/2023	CSE	5
231117	CS8501	3	3	2	3	3	3	24/02/2023	CSE	5
231118	CS8501	3	3	2	2	2	3	24/02/2023	CSE	5
231119	CS8501	3	3	2	2	3	3	24/02/2023	CSE	5
231120	CS8501	3	3	3	3	2	3	24/02/2023	CSE	5
231121	CS8501	3	3	3	3	2	3	24/02/2023	CSE	5
231122	CS8501	3	3	3	3	2	3	24/02/2023	CSE	5
231123	CS8501	3	3	2	2	3	3	24/02/2023	CSE	5
231124	CS8501	3	3	3	2	3	3	24/02/2023	CSE	5
231125	CS8501	3	3	2	2	3	3	24/02/2023	CSE	5
231126	CS8501	3	3	3	3	2	3	24/02/2023	CSE	5

Attained Level	3.0	3.0	2.52	2.46	2.51	3.0	
%	100.00	100.00	84.00	82.00	83.67	100.00	

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23EVEN** Semester : **6** Programme: **B.E/B.Tech (CSE)**
Subject Code : **CS8601** NBA Code : **C312** Title **MOBILE COMPUTING**
Faculty: Ms.M.Banupriya / Mr.A.T.Barani Vijayakumar

Cos	CO Description	Attained Level	%
C312.1	Explain the Basics of Mobile Computing	2.47	82.33
C312.2	To Learn the Basics of Mobile telecommunication	2.48	82.67
C312.3	Demonstrate the Adhoc Network concepts and its routing protocol	2.46	82.00
C312.4	To learn mobile IP and mobile TCP	2.5	83.33
C312.5	To Learn the basics of transport and application layer protocol	2.49	83.00
C312.6	To gain the knowledge about different mobile platforms and application development	2.48	82.67

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 124

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
231001	CS8601	2	3	3	2	2	2	20/09/2023	CSE	6
231002	CS8601	3	3	2	2	3	3	20/09/2023	CSE	6
231003	CS8601	3	2	3	2	2	2	20/09/2023	CSE	6
231004	CS8601	3	3	3	3	3	3	20/09/2023	CSE	6
231005	CS8601	3	2	3	2	2	2	20/09/2023	CSE	6
231006	CS8601	3	2	2	2	3	3	20/09/2023	CSE	6
231007	CS8601	3	3	3	2	2	3	20/09/2023	CSE	6
231008	CS8601	3	2	2	3	2	3	20/09/2023	CSE	6
231009	CS8601	3	2	2	2	2	2	20/09/2023	CSE	6
231010	CS8601	2	3	2	3	3	2	20/09/2023	CSE	6
231011	CS8601	3	3	2	3	2	3	20/09/2023	CSE	6
231012	CS8601	3	3	3	3	2	3	20/09/2023	CSE	6
231013	CS8601	2	2	3	2	2	3	20/09/2023	CSE	6
231014	CS8601	2	2	3	2	3	3	20/09/2023	CSE	6
231015	CS8601	3	2	3	2	2	2	20/09/2023	CSE	6
231016	CS8601	2	3	2	3	3	3	20/09/2023	CSE	6
231017	CS8601	3	2	3	3	2	2	20/09/2023	CSE	6
231018	CS8601	2	2	3	2	3	2	20/09/2023	CSE	6
231019	CS8601	2	3	2	3	3	2	20/09/2023	CSE	6
231020	CS8601	2	3	2	3	2	2	20/09/2023	CSE	6
231021	CS8601	2	3	2	3	2	2	20/09/2023	CSE	6
231022	CS8601	2	3	3	3	2	2	20/09/2023	CSE	6
231023	CS8601	3	2	2	2	2	2	20/09/2023	CSE	6
231024	CS8601	2	3	3	3	2	3	20/09/2023	CSE	6
231025	CS8601	3	2	2	2	3	2	20/09/2023	CSE	6
231026	CS8601	3	3	2	3	3	3	20/09/2023	CSE	6
231027	CS8601	2	2	3	2	3	3	20/09/2023	CSE	6
231028	CS8601	3	2	3	2	2	2	20/09/2023	CSE	6
231029	CS8601	3	2	3	3	3	2	20/09/2023	CSE	6
231030	CS8601	2	3	2	2	2	2	20/09/2023	CSE	6

231031	CS8601	2	2	2	3	2	2	20/09/2023	CSE	6
231032	CS8601	3	2	2	2	3	3	20/09/2023	CSE	6
231033	CS8601	2	3	3	3	2	2	20/09/2023	CSE	6
231034	CS8601	3	2	2	3	2	3	20/09/2023	CSE	6
231035	CS8601	3	2	2	3	3	2	20/09/2023	CSE	6
231036	CS8601	3	3	2	2	2	3	20/09/2023	CSE	6
231037	CS8601	2	2	2	2	3	3	20/09/2023	CSE	6
231038	CS8601	3	3	3	3	2	2	20/09/2023	CSE	6
231039	CS8601	2	2	2	3	2	3	20/09/2023	CSE	6
231040	CS8601	2	3	2	3	3	2	20/09/2023	CSE	6
231041	CS8601	2	3	3	3	2	2	20/09/2023	CSE	6
231042	CS8601	3	2	2	2	3	2	20/09/2023	CSE	6
231043	CS8601	3	3	2	2	3	3	20/09/2023	CSE	6
231044	CS8601	2	3	2	2	2	2	20/09/2023	CSE	6
231045	CS8601	3	2	3	2	3	3	20/09/2023	CSE	6
231046	CS8601	2	3	2	2	3	2	20/09/2023	CSE	6
231047	CS8601	3	3	2	3	3	2	20/09/2023	CSE	6
231048	CS8601	3	2	3	2	2	3	20/09/2023	CSE	6
231049	CS8601	2	2	3	3	2	3	20/09/2023	CSE	6
231050	CS8601	2	2	3	2	2	2	20/09/2023	CSE	6
231051	CS8601	2	3	2	2	2	2	20/09/2023	CSE	6
231052	CS8601	2	3	3	3	2	2	20/09/2023	CSE	6
231053	CS8601	3	3	2	2	3	2	20/09/2023	CSE	6
231054	CS8601	2	3	2	2	2	3	20/09/2023	CSE	6
231055	CS8601	3	2	3	3	3	3	20/09/2023	CSE	6
231056	CS8601	2	3	3	3	2	2	20/09/2023	CSE	6
231057	CS8601	2	3	2	3	2	2	20/09/2023	CSE	6
231058	CS8601	2	3	2	2	3	3	20/09/2023	CSE	6
231059	CS8601	2	3	2	2	3	2	20/09/2023	CSE	6
231060	CS8601	3	2	2	3	2	3	20/09/2023	CSE	6
231061	CS8601	3	2	3	3	3	2	20/09/2023	CSE	6
231062	CS8601	2	3	2	2	2	3	20/09/2023	CSE	6
231063	CS8601	3	2	2	3	2	3	20/09/2023	CSE	6
231064	CS8601	2	3	2	2	3	3	20/09/2023	CSE	6
231065	CS8601	3	3	3	3	3	3	20/09/2023	CSE	6
231066	CS8601	3	2	2	2	2	3	20/09/2023	CSE	6
231067	CS8601	2	3	3	2	3	2	20/09/2023	CSE	6
231068	CS8601	3	3	2	3	3	3	20/09/2023	CSE	6
231069	CS8601	2	3	3	2	2	3	20/09/2023	CSE	6
231070	CS8601	3	3	2	3	3	2	20/09/2023	CSE	6
231071	CS8601	2	2	2	2	2	3	20/09/2023	CSE	6
231072	CS8601	3	2	2	2	2	3	20/09/2023	CSE	6
231073	CS8601	2	2	3	3	3	3	20/09/2023	CSE	6
231074	CS8601	2	3	3	2	3	3	20/09/2023	CSE	6
231075	CS8601	2	3	3	2	3	2	20/09/2023	CSE	6
231076	CS8601	2	2	3	3	3	3	20/09/2023	CSE	6
231077	CS8601	2	3	3	3	3	3	20/09/2023	CSE	6
231078	CS8601	2	2	2	2	3	3	20/09/2023	CSE	6

231079	CS8601	2	3	2	3	2	3	20/09/2023	CSE	6
231080	CS8601	2	3	3	3	3	3	20/09/2023	CSE	6
231081	CS8601	2	2	2	2	3	3	20/09/2023	CSE	6
231082	CS8601	3	2	2	2	3	2	20/09/2023	CSE	6
231083	CS8601	3	2	3	3	3	3	20/09/2023	CSE	6
231084	CS8601	3	3	2	2	2	3	20/09/2023	CSE	6
231085	CS8601	3	2	3	3	3	2	20/09/2023	CSE	6
231086	CS8601	3	2	2	2	2	2	20/09/2023	CSE	6
231088	CS8601	3	2	2	2	3	2	20/09/2023	CSE	6
231089	CS8601	2	3	2	2	2	3	20/09/2023	CSE	6
231090	CS8601	2	3	2	2	2	2	20/09/2023	CSE	6
231091	CS8601	3	2	3	3	2	3	20/09/2023	CSE	6
231092	CS8601	2	3	2	2	2	3	20/09/2023	CSE	6
231093	CS8601	3	2	2	2	3	2	20/09/2023	CSE	6
231094	CS8601	2	2	3	3	3	2	20/09/2023	CSE	6
231095	CS8601	2	2	2	2	3	2	20/09/2023	CSE	6
231096	CS8601	2	2	2	3	3	2	20/09/2023	CSE	6
231097	CS8601	2	3	3	3	2	3	20/09/2023	CSE	6
231098	CS8601	2	2	2	3	2	2	20/09/2023	CSE	6
231099	CS8601	3	2	3	2	3	3	20/09/2023	CSE	6
231100	CS8601	2	3	2	3	2	3	20/09/2023	CSE	6
231101	CS8601	3	2	2	3	3	2	20/09/2023	CSE	6
231102	CS8601	2	2	3	2	3	2	20/09/2023	CSE	6
231103	CS8601	2	2	2	3	2	3	20/09/2023	CSE	6
231104	CS8601	2	2	3	3	2	3	20/09/2023	CSE	6
231105	CS8601	3	3	2	3	3	3	20/09/2023	CSE	6
231106	CS8601	2	2	2	3	2	2	20/09/2023	CSE	6
231107	CS8601	2	3	2	3	3	2	20/09/2023	CSE	6
231108	CS8601	2	3	3	2	2	2	20/09/2023	CSE	6
231109	CS8601	3	3	3	2	3	2	20/09/2023	CSE	6
231110	CS8601	3	3	2	2	2	2	20/09/2023	CSE	6
231111	CS8601	2	2	2	3	2	2	20/09/2023	CSE	6
231112	CS8601	2	2	3	3	3	2	20/09/2023	CSE	6
231113	CS8601	2	3	3	3	2	2	20/09/2023	CSE	6
231114	CS8601	3	3	3	2	3	2	20/09/2023	CSE	6
231115	CS8601	2	3	3	2	2	3	20/09/2023	CSE	6
231116	CS8601	3	2	3	3	3	2	20/09/2023	CSE	6
231117	CS8601	3	3	2	3	2	2	20/09/2023	CSE	6
231118	CS8601	3	2	3	3	3	2	20/09/2023	CSE	6
231119	CS8601	3	3	2	2	3	3	20/09/2023	CSE	6
231120	CS8601	3	2	3	3	2	2	20/09/2023	CSE	6
231121	CS8601	2	2	3	3	3	3	20/09/2023	CSE	6
231122	CS8601	2	2	3	2	2	2	20/09/2023	CSE	6
231123	CS8601	2	2	2	2	3	3	20/09/2023	CSE	6
231124	CS8601	3	2	3	2	3	2	20/09/2023	CSE	6
231126	CS8601	3	2	3	3	2	3	20/09/2023	CSE	6
Attained Level		2.47	2.48	2.46	2.5	2.49	2.48			
%		82.33	82.67	82.00	83.33	83.00	82.67			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23ODD** Semester : **7** Programme: **B.E/B.Tech (CSE)**
Subject Code : **IT8075** NBA Code : **c405** Title **SOFTWARE PROJECT MANAGEMENT**
Faculty: Dr.S.Mohana / Ms.J.Sathia Parkavi

Cos	CO Description	Attained Level	%
c405.1	Gain extensive knowledge about the basic project management concepts, framework and the process models	3.0	100.00
c405.2	Obtain adequate knowledge about software process models and software effort estimation techniques	3.0	100.00
c405.3	Estimate the risks involved in various project activities	2.49	83.00
c405.4	Understand Project Management principles while developing software.	2.53	84.33
c405.5	Define the checkpoints,project reporting structure,project progress and tracking mechanisms using project management principles	2.52	84.00
c405.6	Learn staff selection process and the issues related to people management	3.0	100.00

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 122

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
221001	IT8075	3	3	2	3	3	3	24/02/2023	CSE	7
221002	IT8075	3	3	2	3	2	3	24/02/2023	CSE	7
221003	IT8075	3	3	3	2	3	3	24/02/2023	CSE	7
221004	IT8075	3	3	2	3	2	3	24/02/2023	CSE	7
221005	IT8075	3	3	2	3	2	3	24/02/2023	CSE	7
221006	IT8075	3	3	2	2	3	3	24/02/2023	CSE	7
221007	IT8075	3	3	2	3	2	3	24/02/2023	CSE	7
221008	IT8075	3	3	3	3	2	3	24/02/2023	CSE	7
221009	IT8075	3	3	3	2	2	3	24/02/2023	CSE	7
221010	IT8075	3	3	3	2	3	3	24/02/2023	CSE	7
221011	IT8075	3	3	2	3	3	3	24/02/2023	CSE	7
221013	IT8075	3	3	2	3	2	3	24/02/2023	CSE	7
221014	IT8075	3	3	3	3	3	3	24/02/2023	CSE	7
221015	IT8075	3	3	3	2	2	3	24/02/2023	CSE	7
221016	IT8075	3	3	3	2	3	3	24/02/2023	CSE	7
221017	IT8075	3	3	3	2	3	3	24/02/2023	CSE	7
221018	IT8075	3	3	2	3	3	3	24/02/2023	CSE	7
221019	IT8075	3	3	2	2	2	3	24/02/2023	CSE	7
221020	IT8075	3	3	3	3	3	3	24/02/2023	CSE	7
221021	IT8075	3	3	3	3	2	3	24/02/2023	CSE	7
221022	IT8075	3	3	2	3	2	3	24/02/2023	CSE	7
221023	IT8075	3	3	2	3	3	3	24/02/2023	CSE	7
221024	IT8075	3	3	2	3	3	3	24/02/2023	CSE	7
221025	IT8075	3	3	3	2	3	3	24/02/2023	CSE	7
221026	IT8075	3	3	3	2	2	3	24/02/2023	CSE	7
221027	IT8075	3	3	3	2	3	3	24/02/2023	CSE	7
221028	IT8075	3	3	2	3	2	3	24/02/2023	CSE	7
221029	IT8075	3	3	3	2	3	3	24/02/2023	CSE	7

221030	IT8075	3	3	2	2	3	3	24/02/2023	CSE	7
221031	IT8075	3	3	3	3	3	3	24/02/2023	CSE	7
221032	IT8075	3	3	2	2	3	3	24/02/2023	CSE	7
221033	IT8075	3	3	3	3	3	3	24/02/2023	CSE	7
221034	IT8075	3	3	3	2	2	3	24/02/2023	CSE	7
221035	IT8075	3	3	3	2	2	3	24/02/2023	CSE	7
221036	IT8075	3	3	2	2	2	3	24/02/2023	CSE	7
221037	IT8075	3	3	2	2	3	3	24/02/2023	CSE	7
221038	IT8075	3	3	3	2	3	3	24/02/2023	CSE	7
221039	IT8075	3	3	3	2	2	3	24/02/2023	CSE	7
221040	IT8075	3	3	3	2	3	3	24/02/2023	CSE	7
221041	IT8075	3	3	2	3	3	3	24/02/2023	CSE	7
221042	IT8075	3	3	3	2	3	3	24/02/2023	CSE	7
221043	IT8075	3	3	2	2	3	3	24/02/2023	CSE	7
221044	IT8075	3	3	2	2	2	3	24/02/2023	CSE	7
221045	IT8075	3	3	2	2	3	3	24/02/2023	CSE	7
221046	IT8075	3	3	3	3	3	3	24/02/2023	CSE	7
221047	IT8075	3	3	2	3	2	3	24/02/2023	CSE	7
221048	IT8075	3	3	2	3	3	3	24/02/2023	CSE	7
221049	IT8075	3	3	2	3	3	3	24/02/2023	CSE	7
221050	IT8075	3	3	2	3	3	3	24/02/2023	CSE	7
221051	IT8075	3	3	3	3	3	3	24/02/2023	CSE	7
221052	IT8075	3	3	3	2	2	3	24/02/2023	CSE	7
221053	IT8075	3	3	2	2	2	3	24/02/2023	CSE	7
221054	IT8075	3	3	2	3	2	3	24/02/2023	CSE	7
221055	IT8075	3	3	2	2	2	3	24/02/2023	CSE	7
221056	IT8075	3	3	2	2	2	3	24/02/2023	CSE	7
221057	IT8075	3	3	2	3	2	3	24/02/2023	CSE	7
221058	IT8075	3	3	2	3	2	3	24/02/2023	CSE	7
221059	IT8075	3	3	2	3	2	3	24/02/2023	CSE	7
221060	IT8075	3	3	3	2	3	3	24/02/2023	CSE	7
221061	IT8075	3	3	3	3	3	3	24/02/2023	CSE	7
221062	IT8075	3	3	3	2	2	3	24/02/2023	CSE	7
221063	IT8075	3	3	3	3	2	3	24/02/2023	CSE	7
221064	IT8075	3	3	2	2	2	3	24/02/2023	CSE	7
221065	IT8075	3	3	2	3	2	3	24/02/2023	CSE	7
221066	IT8075	3	3	2	2	3	3	24/02/2023	CSE	7
221067	IT8075	3	3	2	3	2	3	24/02/2023	CSE	7
221068	IT8075	3	3	3	2	3	3	24/02/2023	CSE	7
221069	IT8075	3	3	3	2	3	3	24/02/2023	CSE	7
221070	IT8075	3	3	2	2	2	3	24/02/2023	CSE	7
221071	IT8075	3	3	2	3	2	3	24/02/2023	CSE	7
221072	IT8075	3	3	3	3	3	3	24/02/2023	CSE	7
221073	IT8075	3	3	2	3	3	3	24/02/2023	CSE	7
221074	IT8075	3	3	3	2	3	3	24/02/2023	CSE	7
221075	IT8075	3	3	3	3	2	3	24/02/2023	CSE	7
221076	IT8075	3	3	2	2	3	3	24/02/2023	CSE	7
221077	IT8075	3	3	2	2	3	3	24/02/2023	CSE	7

221078	IT8075	3	3	3	2	2	3	24/02/2023	CSE	7
221079	IT8075	3	3	3	2	2	3	24/02/2023	CSE	7
221080	IT8075	3	3	3	3	3	3	24/02/2023	CSE	7
221081	IT8075	3	3	3	3	2	3	24/02/2023	CSE	7
221082	IT8075	3	3	2	2	3	3	24/02/2023	CSE	7
221083	IT8075	3	3	2	3	2	3	24/02/2023	CSE	7
221084	IT8075	3	3	2	3	3	3	24/02/2023	CSE	7
221085	IT8075	3	3	3	3	2	3	24/02/2023	CSE	7
221086	IT8075	3	3	3	3	3	3	24/02/2023	CSE	7
221087	IT8075	3	3	3	2	3	3	24/02/2023	CSE	7
221088	IT8075	3	3	3	2	3	3	24/02/2023	CSE	7
221089	IT8075	3	3	3	3	3	3	24/02/2023	CSE	7
221090	IT8075	3	3	2	3	2	3	24/02/2023	CSE	7
221091	IT8075	3	3	2	2	2	3	24/02/2023	CSE	7
221092	IT8075	3	3	3	2	3	3	24/02/2023	CSE	7
221093	IT8075	3	3	2	3	2	3	24/02/2023	CSE	7
221094	IT8075	3	3	3	3	2	3	24/02/2023	CSE	7
221095	IT8075	3	3	3	2	2	3	24/02/2023	CSE	7
221096	IT8075	3	3	3	3	2	3	24/02/2023	CSE	7
221097	IT8075	3	3	2	2	2	3	24/02/2023	CSE	7
221098	IT8075	3	3	2	2	3	3	24/02/2023	CSE	7
221099	IT8075	3	3	2	3	2	3	24/02/2023	CSE	7
221100	IT8075	3	3	2	3	2	3	24/02/2023	CSE	7
221101	IT8075	3	3	3	2	3	3	24/02/2023	CSE	7
221102	IT8075	3	3	3	2	2	3	24/02/2023	CSE	7
221103	IT8075	3	3	2	3	2	3	24/02/2023	CSE	7
221104	IT8075	3	3	3	3	3	3	24/02/2023	CSE	7
221105	IT8075	3	3	2	3	3	3	24/02/2023	CSE	7
221106	IT8075	3	3	3	3	3	3	24/02/2023	CSE	7
221107	IT8075	3	3	3	3	2	3	24/02/2023	CSE	7
221108	IT8075	3	3	3	2	3	3	24/02/2023	CSE	7
221109	IT8075	3	3	3	3	3	3	24/02/2023	CSE	7
221110	IT8075	3	3	2	3	2	3	24/02/2023	CSE	7
221111	IT8075	3	3	3	2	3	3	24/02/2023	CSE	7
221112	IT8075	3	3	2	2	3	3	24/02/2023	CSE	7
221113	IT8075	3	3	3	2	2	3	24/02/2023	CSE	7
221114	IT8075	3	3	3	3	3	3	24/02/2023	CSE	7
221115	IT8075	3	3	2	3	3	3	24/02/2023	CSE	7
221117	IT8075	3	3	2	2	2	3	24/02/2023	CSE	7
221118	IT8075	3	3	2	3	3	3	24/02/2023	CSE	7
221119	IT8075	3	3	3	3	2	3	24/02/2023	CSE	7
221120	IT8075	3	3	3	3	3	3	24/02/2023	CSE	7
221121	IT8075	3	3	2	2	3	3	24/02/2023	CSE	7
221122	IT8075	3	3	2	3	2	3	24/02/2023	CSE	7
221123	IT8075	3	3	2	3	2	3	24/02/2023	CSE	7
221124	IT8075	3	3	3	3	2	3	24/02/2023	CSE	7
Attained Level		3.0	3.0	2.49	2.53	2.52	3.0			
%		100.00	100.00	83.00	84.33	84.00	100.00			

Saranathan College of Engineering
Tiruchirappalli-12

FeedBack Report : CSE Month&Year: SEP2022 Academic Year :2022-23ODD

S.no	staffcode	branch /Sem	No. participated	Subject Code /Title	(1) Does the faculty come Prepared for the Classes ?	(2) Subject Knowledge and Clarity of the Faculty	(3) Impartiality and Fairness to Students ?	(4) Interaction with Students by the faculty	(5) Valuable/Extra Information given during the Lectures by the faculty	(6) Enthusiasm for Subject ?	(7) Showing Concern and Care for Students?	(8) Punctuality in Evaluation of Exam Papers/ Assignments ?	(9) Whether Syllabus for IA Tests/ University Examination Completed steadily?	(10) Ability to Speak Loudly and Clearly	Total Out of
	Weigtage				**15.0**	**15.0**	**8.0**	**12.0**	**12.0**	**12.0**	**4.0**	**6.0**	**8.0**	**8.0**	**100**
1	pdsheba-cse	AID-A/3	61	AD3301/Data Exploration And Visualization	11.31	10.72	6.01	8.54	8.77	8.85	3.02	4.39	6.09	6.03	73.72
2	chandrasekaran-cse	AID-A/3	61	AD3391/Database Design And Management	12.69	12.79	6.56	9.76	9.88	9.88	3.15	4.84	6.50	6.69	82.72
3	barani-cse	CSBS-A/3	59	CS3351/Digital Principles And Computer Organization	12.51	12.20	6.16	8.87	8.99	9.52	3.04	4.78	6.37	6.83	79.27
4	rajarajeswari-cse	CSE-A/3	59	CS3301/Data Structures	12.00	11.75	6.07	8.34	7.97	8.91	2.68	4.43	5.45	6.51	74.12
5	sranjani-cse	CSE-A/3	60	CS3351/Digital Principles And Computer Organization	13.35	12.90	7.15	10.88	9.96	10.32	3.65	5.34	7.01	6.80	87.36
6	hema-cse	CSE-A/3	59	CS3352/Foundations Of Data Science	12.92	12.76	6.32	8.83	9.23	9.88	2.92	4.62	6.51	6.81	80.79
7	chandrasekaran-cse	CSE-A/3	60	CS3391/Object Oriented Programming	12.30	12.45	5.57	8.56	8.56	9.64	2.96	4.56	6.43	5.81	76.84
8	senthamilselvi-cse	CSE-A/5	29	CS8501/Theory Of Computation	14.07	14.17	7.28	11.26	10.68	11.26	3.67	5.67	7.56	7.61	93.22
9	mohana-cse	CSE-A/5	28	CS8591/Computer Networks	13.93	13.39	7.14	11.06	11.06	10.80	3.63	5.49	7.49	7.37	91.35
10	parkavi-cse	CSE-A/5	28	CS8592/Object Oriented Analysis And Design	13.50	13.07	6.80	10.54	10.37	10.54	3.43	5.40	7.20	7.26	88.11
11	senthamilselvi-cse	CSE-A/7	57	CS8791/Cloud Computing	13.47	13.32	7.05	10.65	10.65	10.65	3.55	5.24	7.13	7.13	88.85

12	rajarajeswari-cse	CSE-A/7	56	CS8792/Cryptography And Network Security	12.91	12.70	6.91	9.99	9.90	10.03	3.39	5.12	6.69	6.86	84.49
13	hema-cse	CSE-A/7	56	GE8076[8]/Professional Ethics In Engineering	12.64	12.59	6.57	9.77	9.90	10.03	3.31	4.91	6.69	6.74	83.15
14	mohana-cse	CSE-A/7	56	IT8075/Software Project Management	12.75	12.91	6.86	10.41	10.11	10.29	3.43	5.23	6.91	6.86	85.76
15	rethinakumar-cse	CSE-A/7	58	OBM752/Hospital Management	13.24	12.93	6.98	10.55	10.34	10.47	3.52	5.32	7.14	7.14	87.64
16	karthik-cse	CSE-B/3	65	CS3301/Data Structures	14.68	14.54	7.46	11.37	10.97	11.41	3.70	5.59	7.73	7.85	95.30
17	mohanapriya-cse	CSE-B/3	65	CS3351/Digital Principles And Computer Organization	11.26	10.94	5.83	8.53	8.49	8.64	2.92	4.32	5.71	5.93	72.58
18	rethinskumar-cse	CSE-B/3	65	CS3352/Foundations Of Data Science	13.62	13.43	7.11	11.04	10.93	10.89	3.68	5.34	7.34	7.38	90.76
19	iswarya-cse	CSE-B/3	65	CS3391/Object Oriented Programming	13.25	13.15	6.67	10.38	10.30	10.45	3.45	5.17	7.02	7.06	86.89
20	mohanapriya-cse	CSE-B/5	57	CS8501/Theory Of Computation	12.89	12.53	6.74	9.98	9.77	9.94	3.37	5.03	6.71	6.71	83.66
21	arunprasad-cse	CSE-B/5	55	CS8591/Computer Networks	13.91	14.13	7.24	11.26	11.17	11.21	3.71	5.59	7.42	7.42	93.05
22	boobala-cse	CSE-B/5	54	CS8592/Object Oriented Analysis And Design	12.11	12.17	6.70	9.96	9.87	9.78	3.30	4.91	6.34	6.84	81.97
23	gomathi-cse	CSE-B/5	57	OCE552/Geographic Information System	12.26	12.26	6.37	9.98	10.02	9.60	3.34	4.99	6.60	6.62	82.05
24	barani-cse	CSE-B/7	46	CS8791/Cloud Computing	11.87	11.54	5.98	9.13	9.18	9.23	3.04	4.70	6.23	6.50	77.41
25	punitha-cse	CSE-B/7	47	CS8792/Cryptography And Network Security	13.40	13.47	7.08	10.83	10.72	10.72	3.57	5.31	7.22	6.98	89.31
26	parkavi-cse	CSE-B/7	48	IT8075/Software Project Management	12.12	12.19	6.43	9.65	9.55	9.55	3.20	4.80	6.47	6.50	80.46
27	sranjani-cse	CSE-B/7	45	IT8761/Security Laboratory	12.20	12.00	6.47	9.87	9.55	9.81	3.25	4.93	6.65	6.36	81.10
28	boobala-cse	CSE-B/7	46	MG8591/Principles Of Management	13.17	13.24	7.17	10.54	10.80	10.54	3.58	5.27	6.99	7.13	88.43
29	ramya-cse	CSE-B/7	46	OBM752/Hospital Management	12.26	12.26	6.43	9.50	9.65	9.70	3.29	4.70	6.54	6.47	80.80

30	shapnarani-cse	ECE-A/3	64	CS3353/C Programming And Data Structures	12.56	12.56	6.38	9.82	9.58	9.75	3.26	4.99	6.70	6.62	82.32
31	elankathir-cse	ECE-B/3	65	CS3353/C Programming And Data Structures	11.49	11.12	6.30	9.12	9.01	9.19	3.09	4.58	6.23	5.88	76.02
32	gomathi-cse	EEE-A/5	50	CS8392/Object Oriented Programming	12.90	13.02	6.94	10.42	10.32	10.37	3.42	5.18	6.98	6.94	86.50
33	iswarya-cse	EEE-A/7	45	OCS752/Introduction To C Programming	13.27	13.07	6.90	10.72	9.97	10.51	3.47	5.25	7.08	6.79	87.02
34	ramya-cse	EEE-B/7	43	OCS752/Introduction To C Programming	11.37	11.23	5.62	8.76	8.04	8.65	2.81	4.63	5.99	5.43	72.54
35	banupriya-cse	ICE-A/3	17	CS3353/C Programming And Data Structures	13.94	13.59	7.15	11.01	11.58	10.59	3.62	5.36	7.15	6.96	90.96
36	arunprasad-cse	SEM-1-A/1	58	GE3151/Problem Solving And Python Programming	14.43	14.12	7.17	10.84	10.92	11.09	3.63	5.59	7.59	7.59	92.97
37	sranjani-cse	SEM-1-B/1	59	GE3151/Problem Solving And Python Programming	13.63	13.53	7.24	10.98	10.66	10.90	3.58	5.59	7.40	7.40	90.92
38	shapnarani-cse	SEM-1-C/1	57	GE3151/Problem Solving And Python Programming	12.26	11.74	6.15	9.68	9.18	9.43	3.07	4.82	6.76	6.23	79.33
39	karthik-cse	SEM-1-G/1	54	GE3151/Problem Solving And Python Programming	14.61	14.72	7.61	11.69	11.69	11.51	3.70	5.78	7.73	7.79	96.84
40	pdsheba-cse	SEM-1-H/1	52	GE3151/Problem Solving And Python Programming	12.87	11.94	6.46	9.83	9.28	9.88	3.26	5.01	6.85	6.58	81.75
41	banupriya-cse	SEM-1-J/1	57	GE3151/Problem Solving And Python Programming	12.32	11.21	6.34	9.25	9.22	9.18	3.23	4.95	6.57	6.32	78.59
42	elankathir-cse	SEM-1-K/1	55	GE3151/Problem Solving And Python Programming	13.31	12.98	7.16	10.73	10.52	10.56	3.74	5.50	7.33	7.04	88.87

H.O.D. (CSE)
Sankarathan College of Engg.,
Trichirapalli - 620 012.

Saranathan College of Engineering
Tiruchirappalli - 12

Department of Computer Science and Engineering

Action Taken Report

SEMESTER : 2022-2023 ODD

ACADEMIC YEAR: 2022-2023

Based on the Feedback report given by the students, the Principal had a meeting with the faculty members of CSE department on the 7th of November 2022 at 5.10 p.m. in the Principal's cabin. He praised those who scored more than the 70% cutoff and advised those who scored lower to improve their performance in the future for the benefit of the student body.

HOD CSE

H.O.D. (CSE)
Saranathan College of Engg.,
Tiruchirappalli - 620 012.

PRINCIPAL

PRINCIPAL
Saranathan College of Engineering
TRICHY - 12.

Saranathan College of Engineering
Tiruchirappalli-12

FeedBack Report : CSE Month&Year: MARCH2023 Academic Year :2022-23EVEN

S.no	staffcode	branch /Sem	No. partici pated	Subject Code /Title	(1) Does the faculty come Prepared for the Classes ?	(2) Subject Knowledge and Clarity of the Faculty	(3) Impartiality and Fairness to Students ?	(4) Interaction with Students by the faculty	(5) Valuable/Extra Information given during the Lectures by the faculty	(6) Enthusiasm for Subject ?	(7) Showing Concern and Care for Students?	(8) Punctuality in Evaluation of Exam Papers/ Assignments ?	(9) Whether Syllabus for IA Tests/ University Examination Completed steadily?	(10) Ability to Speak Loudly and Clearly	Total Out of
	Weigtage				**15.0**	**15.0**	**8.0**	**12.0**	**12.0**	**12.0**	**4.0**	**6.0**	**8.0**	**8.0**	**100**
1	shapnarani-cse	CSE(AIML)-A/2	54	CS3251/Programming In C	13.39	12.94	6.58	10.22	9.87	10.13	3.36	4.98	6.84	6.73	85.04
2	mohanapriya-cse	CSE-A/2	59	CS3251/Programming In C	13.12	12.92	6.51	9.88	9.56	9.64	3.25	4.94	6.62	6.70	83.14
3	kaviya-cse	CSE-A/2	59	GE3252/Tamils And Technology	11.75	11.59	6.18	9.19	9.03	9.11	3.02	4.68	6.13	6.26	76.95
4	punitha-cse	CSE-A/4	55	CS3401/Algorithms	11.13	10.80	5.79	8.55	8.64	8.68	2.97	4.54	6.08	5.91	73.08
5	iswarya-cse	CSE-A/4	54	CS3451/Introduction To Operating Systems	11.39	11.22	5.66	8.89	8.58	8.89	3.01	4.60	6.07	5.90	74.20
6	parkavi-cse	CSE-A/4	54	CS3452/Theory Of Computation	11.17	10.61	5.63	8.89	8.58	8.67	2.98	4.31	5.78	6.10	72.71
7	karthik-cse	CSE-A/4	54	CS3491/Artificial Intelligence And Machine Learning	11.61	11.56	5.99	9.20	9.07	9.24	3.05	4.64	6.10	6.22	76.69
8	elankathir-cse	CSE-A/4	54	CS3492/Database Management Systems	9.26	9.17	5.21	7.87	7.33	7.82	2.61	4.09	5.36	5.01	63.75
9	sranjani-cse	CSE-A/6	57	CS8080(8)/Information Retrieval Techniques	13.21	12.89	6.88	10.27	10.06	10.36	3.51	5.20	7.02	6.85	86.25
10	banupriya-cse	CSE-A/6	57	CS8601/Mobile Computing	11.47	11.26	6.15	9.35	9.14	9.05	3.12	4.78	6.51	6.46	77.28
11	senthamilselvi-cse	CSE-A/6	60	CS8602/Compiler Design	13.40	13.30	6.61	10.44	9.88	10.24	3.33	5.22	6.96	7.15	86.53
12	pdsheba-cse	CSE-A/6	58	CS8603/Distributed Systems	13.86	13.81	7.14	10.92	10.76	10.88	3.64	5.52	7.39	7.31	91.25

13	chandrasekaran-cse	CSE-A/6	55	CS8651/Internet Programming	14.35	14.40	7.16	11.08	11.04	11.00	3.65	5.63	7.56	7.56	93.43
14	rethinakumar-cse	CSE-A/6	57	CS8691/Artificial Intelligence	13.21	13.16	6.82	10.53	10.27	10.53	3.48	5.26	6.85	7.02	87.13
15	mohanapriya-cse	CSE-A/6	58	TP/Training And Placement	11.07	11.12	5.99	9.02	8.61	8.94	3.02	4.41	6.04	6.07	74.26
16	parkavi-cse	CSE-B/2	58	CS3251/Programming In C	13.24	13.45	7.12	10.26	9.81	10.47	3.49	5.09	6.84	7.06	86.63
17	kaviya-cse	CSE-B/2	58	GE3252/Tamils And Technology	12.72	12.62	6.98	10.88	10.47	10.14	3.50	5.13	6.98	6.87	86.30
18	chandrasekaran-cse	CSE-B/4	61	CS3401/Algorithms	12.15	12.15	6.24	9.64	10.07	9.91	3.21	4.94	6.77	6.74	81.82
19	rethinakumar-cse	CSE-B/4	68	CS3451/Introduction To Operating Systems	10.76	10.50	5.46	8.89	8.29	8.29	2.94	4.15	5.51	6.24	71.04
20	mohanapriya-cse	CSE-B/4	60	CS3452/Theory Of Computation	13.25	13.05	6.80	10.24	10.04	10.16	3.40	5.26	6.99	6.83	86.01
21	arunprasad-cse	CSE-B/4	57	CS3491/Artificial Intelligence And Machine Learning	13.37	13.21	6.93	10.36	10.32	10.19	3.40	5.07	6.91	7.05	86.80
22	ramya-cse	CSE-B/4	64	CS3492/Database Management Systems	11.72	11.62	6.18	9.23	9.07	8.93	3.11	4.56	6.22	6.18	76.81
23	iswarya-cse	CSE-B/6	49	CS8080[8]/Information Retrieval Techniques	11.88	11.76	6.27	9.50	9.11	9.36	3.15	4.56	6.24	6.17	77.98
24	barani-cse	CSE-B/6	49	CS8601/Mobile Computing	11.14	11.14	5.71	8.38	8.52	8.67	2.71	4.33	6.07	6.20	72.89
25	shapnarani-cse	CSE-B/6	50	CS8602/Compiler Design	12.90	12.78	6.82	9.98	9.98	10.18	3.50	5.16	6.91	6.78	85.00
26	boobala-cse	CSE-B/6	49	CS8603/Distributed Systems	12.18	12.00	6.63	10.19	10.04	10.04	3.44	4.82	6.53	6.79	82.67
27	sranjani-cse	CSE-B/6	48	CS8651/Internet Programming	12.19	11.94	6.37	9.35	9.40	9.45	3.18	4.82	6.40	6.40	79.50
28	ramya-cse	CSE-B/6	49	CS8691/Artificial Intelligence	11.39	11.27	5.94	9.06	8.62	9.01	2.97	4.38	6.04	6.11	74.79

H.O.D. (CSE)
Bharathidasan College of Engg.,
Trichirapalli - 620 012.

Saranathan College of Engineering
Tiruchirappalli - 12

Department of Computer Science and Engineering

Action Taken Report

SEMESTER : 2022-2023 EVEN

ACADEMIC YEAR: 2022-2023

Students submit their feedback on a scale of 100 percent which is used to assess the performance of the Faculty. On 17-05-2023 at 4.45pm in the Principal's cabin, the Principal conducted a meeting for faculty members regarding the student feedback report. He praised those who scored above the 75 percent mark and advised those who scored below the 70% mark to work harder in the future.

Explanation from the Faculty

staffcode	Explanation
Elankathir-cse	I will surely improve my performance in the next semester and will meet the expectations and standards set.

HOD CSE

H.O.D. (CSE)
Saranathan College of Engg.
Trichirapalli - 620 012

PRINCIPAL

PRINCIPAL
Saranathan College of Engineering
TRICHY - 12.

Date: 02.11.2022

REVISED

CENTRE FOR ACADEMIC COURSES

ANNA UNIVERSITY: : CHENNAI – 600 025

ACADEMIC SCHEDULE FOR NON-AUTONOMOUS AFFILIATED COLLEGES

August 2022 – December 2022 (ODD SEMESTER – Except Semester III)

UG Programmes

Sl. No	Programme	Semester	Commencement of Classes	Last working day		Commencement of Practical Examinations		Commencement of End Semester Examinations	
				Existing	Revised	Existing	Revised	Existing	Revised
1.	B.E. / B.Tech.(Full-Time)	V, VII	10.08.2022	19.11.2022	06.12.2022**	21.11.2022	18.01.2023	01.12.2022	08.12.2022
2.	B.E. / B.Tech (Part-Time)	V, VII	10.08.2022	19.11.2022	-	21.11.2022	-	01.12.2022	-
3.	B.Arch. (Full-Time)	V, VII, IX							

RE - OPENING DAY FOR THE NEXT SEMESTER: 30.01.2023 (Monday)

NOTE:

1. The Theory and Practical Examination schedules will be published in due course (Practical Examinations will be conducted before the theory examinations).
2. If necessary, loss of classes due to various curricular / co-curricular activities of the department / college may be compensated by conducting classes on Saturdays.

**** In order to ensure minimum no. of working days, the following Saturdays are declared as working days.**

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
1.	20.08.2022	Monday
2.	03.09.2022	Friday
3.	17.09.2022	Wednesday
4.	15.10.2022	Tuesday
5.	29.10.2022	Wednesday

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
6.	05.11.2022	Monday
7.	12.11.2022	Tuesday
8.	19.11.2022	Wednesday
9.	26.11.2022**	Thursday
10.	03.12.2022**	Friday

02/11/2022

DIRECTOR
ACADEMIC COURSES

Date: 02.11.2022

REVISED - I

CENTRE FOR ACADEMIC COURSES

ANNA UNIVERSITY: : CHENNAI – 600 025

ACADEMIC SCHEDULE FOR NON-AUTONOMOUS AFFILIATED COLLEGES

August 2022 – December 2022 (Semester III)

UG (FT/PT) & PG (FT/PT) Degree Programmes

Sl. No.	Programme	Semester	Commencement of Classes	Last working day		Commencement of Practical Examinations		Commencement of End Semester Examinations	
				Existing	Revised	Existing	Revised	Existing	Revised
1.	B.E. / B.Tech. (Full-Time)	III	22.08.2022	08.12.2022	27.12.2022	10.12.2022	18.01.2023	21.12.2022	29.12.2022
2.	B.Arch. (Full-Time)	III	22.08.2022	08.12.2022	-	10.12.2022	18.01.2023	21.12.2022	29.12.2022
3.	B.E. / B.Tech (Part-Time)	III							
4.	M.B.A. (5 Yrs-Integrated)	III							
5.	M.B.A. (Full-Time & Part-Time)	III	01.09.2022	19.12.2022	-	21.12.2022	18.01.2023	02.01.2023	29.12.2022

RE - OPENING DAY FOR THE NEXT SEMESTER: 01.02.2023 (Wednesday)

NOTE:

1. The Theory and Practical Examination schedules will be published in due course (Practical Examinations will be conducted before the theory examinations).
2. If necessary, loss of classes due to various curricular / co-curricular activities of the department / college may be compensated by conducting classes on Saturdays.

02/11/2022

DIRECTOR
ACADEMIC COURSES

DAC - SB

Date: 30.03.2023

REVISED

CENTRE FOR ACADEMIC COURSES

ANNA UNIVERSITY: : CHENNAI – 600 025

ACADEMIC SCHEDULE FOR NON-AUTONOMOUS AFFILIATED COLLEGES

February 2023 – June 2023 (Even Semester – Except Semester II)

UG / PG (FT/PT) Degree Programmes

Sl. No.	Programme	Semester	Commencement of Classes	Last working day		Commencement of Practical Examinations		Commencement of End Semester Examinations	
				Existing	Revised	Existing	Revised*	Existing	Revised*
1.	B.E. / B.Tech.(Full-Time)	IV,VI	06.02.2023	12.05.2023	24.05.2023***	15.05.2023	26.05.2023	26.05.2023	05.06.2023
2.	B.E. / B.Tech.(Full-Time)	VIII	06.02.2023	12.05.2023**	-	15.05.2023	-	26.05.2023	-
3.	B.Arch. (Full-Time)	IV,VI,VIII,X							
4.	B.E. / B.Tech. (Part-Time)	IV,VI							
5.	M.B.A.(Full-Time & Part-Time)	IV							
6.	M.B.A. (5 Yrs-Integrated)	IV,VI,VIII,X							

RE - OPENING DAY FOR THE NEXT SEMESTER: 07.08.2023 (Monday)

*** To provide additional classes for Skill Based Courses.**

NOTE:

1. The Theory and Practical Examination schedules will be published in due course (Practical Examinations will be conducted before the theory examinations).
2. If necessary, loss of classes due to various curricular / co-curricular activities of the department / college may be compensated by conducting classes on Saturdays.

**** In order to ensure minimum no. of working days, the following Saturdays are declared as working days.**

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
1.	11.02.2023	Monday
2.	18.02.2023	Tuesday
3.	25.02.2023	Wednesday
4.	04.03.2023	Thursday
5.	11.03.2023	Friday
6.	18.03.2023	Monday

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
7.	25.03.2023	Tuesday
8.	01.04.2023	Wednesday
9.	29.04.2023	Thursday
10.	06.05.2023	Friday
11.	13.05.2023	Monday***
12.	20.05.2023	Tuesday***

30/3/2023

DIRECTOR
ACADEMIC COURSES

Date: 04.05.2023

CENTRE FOR ACADEMIC COURSES

ANNA UNIVERSITY: : CHENNAI – 600 025

ACADEMIC SCHEDULE FOR NON-AUTONOMOUS AFFILIATED COLLEGES

May 2023 – August 2023 (Even Semester)

UG (FT/PT) & PG (FT) Degree Programmes

Sl. No.	Programme	Semester	Commencement of Classes	Last working day	Commencement of Practical Examinations	Commencement of End Semester Examinations
1.	B.E. / B.Tech.(Full-Time)	II	10.05.2023	07.08.2023**	09.08.2023	21.08.2023
2.	B.Arch. (Full-Time)	II				
3.	B.E. / B.Tech (Part-Time)	II				
4.	M.E. / M. Tech. / M. Arch. (FT)	IV				

RE - OPENING DAY FOR THE NEXT SEMESTER: 11.09.2023 (Monday)

NOTE:

1. The Theory and Practical Examination schedules will be published in due course (Practical Examinations will be conducted before the theory examinations).
2. If necessary, loss of classes due to various curricular / co-curricular activities of the department / college may be compensated by conducting classes on Saturdays.

**** In order to ensure minimum no. of working days, the following Saturdays are declared as working days.**

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
1.	13.05.2023	Friday
2.	20.05.2023	Monday
3.	27.05.2023	Tuesday
4.	03.06.2023	Wednesday
5.	10.06.2023	Thursday
6.	17.06.2023	Friday

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
7.	24.06.2023	Monday
8.	01.07.2023	Tuesday
9.	08.07.2023	Wednesday
10.	15.07.2023	Thursday
11.	22.07.2023	Friday
12.	05.08.2023	Monday

04/05/2023

DIRECTOR
ACADEMIC COURSES

SARANATHAN COLLEGE OF ENGINEERING, TRICHY-12

Academic Planner for Even Semester(2022-23) - II, III & IV UG

FEB'22	DAY	DETAILS	working days	MAR'22	DAY	DETAILS	working days	APR'22	DAY	DETAILS	working days	MAY'22	DAY	DETAILS	working days
01	WED	Classes commence for IV & VI semester T&P Training for III Year	1	01	WED		21	01	SAT	Holiday		01	MON	May Day Holiday	
02	THU	T&P Training for III Year	2	02	THU	Sports Day	22	02	SUN	Holiday		02	TUE		62
03	FRI	Founder's day T&P Training for III Year	3	03	FRI	College Day	23	03	MON		44	03	WED		63
04	SAT	T&P Training for III Year Holiday		04	SAT	Graduation Day Holiday		04	TUE		45	04	THU	IA test-3	64
05	SUN	Holiday		05	SUN	Holiday		05	WED		46	05	FRI	IA test-3	65
06	MON		4	06	MON		24	06	THU		47	06	SAT	IA test-3	66
07	TUE		5	07	TUE		25	07	FRI	Good Friday Holiday		07	SUN	Holiday	
08	WED		6	08	WED	Womania 2023 Women's Day	26	08	SAT	Holiday		08	MON	IA test-3	67
09	THU		7	09	THU	IA test-1	27	09	SUN	Holiday		09	TUE	IA test-3	68
10	FRI		8	10	FRI	IA test-1	28	10	MON	IA test-2	48	10	WED	IA test-3	69
11	SAT	Holiday		11	SAT	IA test-1	29	11	TUE	IA test-2	49	11	THU		70
12	SUN	Holiday		12	SUN	Holiday		12	WED	IA test-2	50	12	FRI	Syllabus completion	71
13	MON		9	13	MON	IA test-1	30	13	THU	IA test-2	51	13	SAT	Holiday	
14	TUE		10	14	TUE	IA test-1	31	14	FRI	Tamil New Year Day Holiday		14	SUN	Holiday	
15	WED		11	15	WED	IA test-1	32	15	SAT	Holiday		15	MON	Commencement of University Practical exams	
16	THU		12	16	THU		33	16	SUN	Holiday		16	TUE		
17	FRI		13	17	FRI		34	17	MON	IA test-2	52	17	WED		
18	SAT	Holiday		18	SAT	Holiday		18	TUE	IA test-2	53	18	THU		
19	SUN	Holiday		19	SUN	Holiday		19	WED		54	19	FRI		
20	MON	Classes commence for VIII semester	14	20	MON	Students Feedback-I	35	20	THU		55	20	SAT		
21	TUE		15	21	TUE		36	21	FRI		56	21	SUN		
22	WED		16	22	WED	Telugu New Year Day Holiday		22	SAT	Ramzan Holiday		22	MON		
23	THU		17	23	THU		37	23	SUN	Holiday		23	TUE		
24	FRI		18	24	FRI		38	24	MON	Students Feedback-II	57	24	WED		
25	SAT	Holiday		25	SAT	Holiday		25	TUE		58	25	THU		
26	SUN	Holiday		26	SUN	Holiday		26	WED		59	26	FRI	Commencement of University Theory exams	
27	MON		19	27	MON		39	27	THU	Founder's Memorial day	60	27	SAT		
28	TUE		20	28	TUE		40	28	FRI		61	28	SUN		
				29	WED		41	29	SAT	Holiday		29	MON		
				30	THU		42	30	SUN	Holiday		30	TUE		
				31	FRI		43					31	WED		
		No. of Working days	20				23				18				10
														Total No.of working days for the semester :	71

Prepared by

Ms. N. Bhavani, Asso.Prof/IT dept

Dr. R. Senthamil Selvi,Asso. Prof/ CSE Dept

Principal

SARANATHAN COLLEGE OF ENGINEERING, TRICHY-12

Academic Planner for 2022 - 23 Odd Semester - I YEAR UG (Sections A, B, C, D & E)

OCT'22	DAY	DETAILS	working days	NOV'22	DAY	DETAILS	working days	DEC'22	DAY	DETAILS	working days	JAN'23	DAY	DETAILS	working days	FEB'23	DAY	DETAILS	working days	MAR'23	DAY	DETAILS	working days
01	SAT	Holiday		01	TUE		2	01	THU	IA Test 1	24	01	SUN	New Year Holiday		01	WED	IA Test 2	66	01	WED		86
02	SUN	Gandhi Jayanthi Holiday		02	WED		3	02	FRI	IA Test 1	25	02	MON		46	02	THU	IA Test 2	67	02	THU		87
03	MON	Holiday		03	THU		4	03	SAT	Holiday		03	TUE		47	03	FRI	IA Test 2 Founder's Day	68	03	FRI	Syllabus Completion	88
04	TUE	Ayudha Pooja Holiday		04	FRI		5	04	SUN	Holiday		04	WED		48	04	SAT	Holiday		04	SAT	Holiday	
05	WED	Vijayadhasami Holiday		05	SAT	Holiday		05	MON		26	05	THU		49	05	SUN	Holiday		05	SUN	Holiday	
06	THU	Induction Program		06	SUN	Holiday		06	TUE		27	06	FRI	Saranathan Jayanthi	50	06	MON		69	06	MON	Revision	89
07	FRI	Induction Program		07	MON		6	07	WED	Flag Day	28	07	SAT	Holiday		07	TUE		70	07	TUE	Revision	90
08	SAT			08	TUE		7	08	THU		29	08	SUN	Holiday		08	WED		71	08	WED	Revision Women's Day	91
09	SUN	Milad-un-Nabi Holiday		09	WED		8	09	FRI		30	09	MON		51	09	THU		72	09	THU	Revision	92
10	MON	Induction Program		10	THU		9	10	SAT	Holiday		10	TUE		52	10	FRI		73	10	FRI	Revision	93
11	TUE	Induction Program		11	FRI		10	11	SUN	Holiday		11	WED		53	11	SAT	Holiday		11	SAT	Holiday	
12	WED	Induction Program		12	SAT	Holiday		12	MON		31	12	THU		54	12	SUN	Holiday		12	SUN	Holiday	
13	THU	Bridge Course		13	SUN	Holiday		13	TUE		32	13	FRI		55	13	MON		74	13	MON	Model Exam	94
14	FRI	Bridge Course		14	MON	Children's Day	11	14	WED		33	14	SAT	Bogi - Holiday		14	TUE		75	14	TUE		95
15	SAT	Holiday		15	TUE		12	15	THU		34	15	SUN	Pongal - Holiday		15	WED		76	15	WED	Model Exam	96
16	SUN	Holiday		16	WED		13	16	FRI		35	16	MON	Thiruvalluvar Day - Holiday		16	THU		77	16	THU		97
17	MON	Bridge Course		17	THU		14	17	SAT	Holiday		17	TUE	Uzhavar Thirunal-Holiday		17	FRI		78	17	FRI	Model Exam	98
18	TUE	Bridge Course		18	FRI		15	18	SUN	Holiday		18	WED		56	18	SAT	Holiday		18	SAT	Holiday	
19	WED	Bridge Course		19	SAT	Holiday		19	MON		36	19	THU		57	19	SUN	Holiday		19	SUN	Holiday	
20	THU	Bridge Course		20	SUN	Holiday		20	TUE		37	20	FRI		58	20	MON		79	20	MON	Model Exam	99
21	FRI	Holiday		21	MON		16	21	WED		38	21	SAT	Holiday		21	TUE		80	21	TUE		100
22	SAT	Holiday		22	TUE		17	22	THU	National Mathematics Day	39	22	SUN	Holiday		22	WED		81	22	WED	Telugu New Year - Holiday	
23	SUN	Holiday		23	WED		18	23	FRI		40	23	MON		59	23	THU		82	23	THU	Model Exam	101
24	MON	Deepavali Holiday		24	THU		19	24	SAT	Holiday		24	TUE		60	24	FRI		83	24	FRI		
25	TUE	Holiday		25	FRI		20	25	SUN	Christmas Holiday		25	WED		61	25	SAT	Holiday		25	SAT	Univ. Practical Exam commences	
26	WED	Holiday		26	SAT	Holiday		26	MON		41	26	THU	Republic Day - Holiday		26	SUN	Holiday		26	SUN	Holiday	
27	THU	Special TT		27	SUN	Holiday		27	TUE		42	27	FRI		62	27	MON		84	27	MON		
28	FRI	Special TT		28	MON	IA Test 1	21	28	WED		43	28	SAT	(Thursday Order)	63	28	TUE	National Science Day	85	28	TUE		
29	SAT	Special TT		29	TUE	IA Test 1	22	29	THU		44	29	SUN	Holiday						29	WED		
30	SUN			30	WED	IA Test 1	23	30	FRI		45	30	MON	IA Test 2	64					30	THU		
31	MON	Regular Classes	1					31	SAT	Holiday		31	TUE	IA Test 2	65					31	FRI		
			1				23				45				65				85				101

Total No. of working days for the semester : 101

Prepared by: Ms.N.Bhavani & Dr.R.Senthamil selvi

PRINCIPAL

SARANATHAN COLLEGE OF ENGINEERING, TRICHY-12

Academic Planner for 2022 - 23 Odd Semester - I YEAR UG (Sections F, G, H, I, J, K & L)

NOV'22	DAY	DETAILS	working days	DEC'22	DAY	DETAILS	working days	JAN'23	DAY	DETAILS	working days	FEB'23	DAY	DETAILS	working days	MAR'23	DAY	DETAILS	working days
01	TUE			01	THU		7	01	SUN	New Year Holiday		01	WED	IA Test 2	49	01	WED		69
02	WED			02	FRI		8	02	MON		29	02	THU	IA Test 2	50	02	THU		70
03	THU			03	SAT	Holiday		03	TUE		30	03	FRI	IA Test 2 Founder's Day	51	03	FRI	Syllabus Completion	71
04	FRI			04	SUN	Holiday		04	WED		31	04	SAT	Holiday		04	SAT	Holiday	
05	SAT	Holiday		05	MON		9	05	THU		32	05	SUN	Holiday		05	SUN	Holiday	
06	SUN	Holiday		06	TUE		10	06	FRI	Saranathan Jayanthi	33	06	MON		52	06	MON	Revision	72
07	MON			07	WED	Flag Day	11	07	SAT	Holiday		07	TUE		53	07	TUE	Revision	73
08	TUE			08	THU		12	08	SUN	Holiday		08	WED		54	08	WED	Revision Women's Day	74
09	WED			09	FRI		13	09	MON		34	09	THU		55	09	THU	Revision	75
10	THU			10	SAT	Holiday		10	TUE		35	10	FRI		56	10	FRI	Revision	76
11	FRI			11	SUN	Holiday		11	WED		36	11	SAT	Holiday		11	SAT	Holiday	
12	SAT	Holiday		12	MON		14	12	THU		37	12	SUN	Holiday		12	SUN	Holiday	
13	SUN	Holiday		13	TUE		15	13	FRI		38	13	MON		57	13	MON	Model Exam	77
14	MON	Induction Program Children's Day		14	WED		16	14	SAT	Bogi - Holiday		14	TUE		58	14	TUE		78
15	TUE	Induction Program		15	THU		17	15	SUN	Pongal - Holiday		15	WED		59	15	WED	Model Exam	79
16	WED	Induction Program		16	FRI		18	16	MON	Thiruvalluvar Day - Holiday		16	THU		60	16	THU		80
17	THU	Induction Program		17	SAT	Holiday		17	TUE	Uzhavar Thirunal- Holiday		17	FRI		61	17	FRI	Model Exam	81
18	FRI	Bridge Course		18	SUN	Holiday		18	WED		39	18	SAT	Holiday		18	SAT		
19	SAT	Holiday		19	MON		19	19	THU		40	19	SUN	Holiday		19	SUN	Holiday	
20	SUN	Holiday		20	TUE		20	20	FRI		41	20	MON		62	20	MON	Model Exam	82
21	MON	Bridge Course		21	WED		21	21	SAT	Holiday		21	TUE		63	21	TUE		83
22	TUE	Bridge Course		22	THU	National Mathematics Day	22	22	SUN	Holiday		22	WED		64	22	WED	Telugu New Year - Holiday	
23	WED	Regular class commences	1	23	FRI		23	23	MON		42	23	THU		65	23	THU	Model Exam	84
24	THU		2	24	SAT	Holiday		24	TUE		43	24	FRI		66	24	FRI		
25	FRI		3	25	SUN	Christmas Holiday		25	WED		44	25	SAT	Holiday		25	SAT	Univ. Practical Exam commences	
26	SAT	Holiday		26	MON	IA Test 1	24	26	THU	Republic Day - Holiday		26	SUN	Holiday		26	SUN	Holiday	
27	SUN	Holiday		27	TUE	IA Test 1	25	27	FRI		45	27	MON		67	27	MON		
28	MON		4	28	WED	IA Test 1	26	28	SAT	(Thursday Order)	46	28	TUE	National Science Day	68	28	TUE		
29	TUE		5	29	THU	IA Test 1	27	29	SUN	Holiday						29	WED		
30	WED		6	30	FRI	IA Test 1	28	30	MON	IA Test 2	47					30	THU		
				31	SAT	Holiday		31	TUE	IA Test 2	48					31	FRI		
No. of Working days			6				28				48				68				84

Total No. of working days for the semester : 84

Prepared by: Ms.N.Bhavani & Dr.R.Senthamil selvi

PRINCIPAL

SARANATHAN COLLEGE OF ENGINEERING, TRICHY-12

Academic Planner for 2022 - 23 Odd Semester - III and IV YEAR UG

AUG'22	DAY	DETAILS	Day order	working days	SEP'22	DAY	DETAILS	Day order	working days	OCT'22	DAY	DETAILS	Day order	working days	NOV'22	DAY	DETAILS	Day order	working days	DEC'22	DAY	DETAILS	Day order	working days
01	MON				01	THU		IV	11	01	SAT	Holiday			01	TUE		II	55	01	THU		IV	77
02	TUE				02	FRI		V	12	02	SUN	Gandhi Jayanthi Holiday			02	WED		III	56	02	FRI	Nan Mudhalvan scheme ends	V	78
03	WED				03	SAT		III	13	03	MON	Holiday			03	THU		IV	57	03	SAT	Holiday		
04	THU				04	SUN	Holiday			04	TUE	Ayudha Pooja Holiday			04	FRI		V	58	04	SUN	Holiday		
05	FRI				05	MON	Teacher's Day	I	14	05	WED	Vijayadhasami Holiday			05	SAT	Holiday			05	MON			
06	SAT	Holiday			06	TUE		II	15	06	THU		IV	36	06	SUN	Holiday			06	TUE			
07	SUN	Holiday			07	WED		III	16	07	FRI		V	37	07	MON		I	59	07	WED	Flag Day		
08	MON				08	THU		IV	17	08	SAT		III	38	08	TUE		II	60	08	THU	Univ.Theory Exam commences		
09	TUE				09	FRI		V	18	09	SUN	Milad-un-Nabi Holiday			09	WED		III	61	09	FRI			
10	WED				10	SAT	Holiday			10	MON	IA Test 2	I	39	10	THU	IA Test 3	IV	62	10	SAT	Holiday		
11	THU	Avani Avittam			11	SUN	Holiday			11	TUE	IA Test 2	II	40	11	FRI	National Education Day IA Test 3	V	63	11	SUN	Holiday		
12	FRI	International Youth Day			12	MON	IA Test 1	I	19	12	WED	IA Test 2	III	41	12	SAT	Holiday			12	MON			
13	SAT				13	TUE	IA Test 1	II	20	13	THU	IA Test 2	IV	42	13	SUN	Holiday			13	TUE			
14	SUN	Holiday			14	WED	IA Test 1	III	21	14	FRI	IA Test 2	V	43	14	MON	Children's Day IA Test 3	I	64	14	WED			
15	MON	Independence Day Holiday			15	THU	Engineer's Day IA Test 1	IV	22	15	SAT	IA Test 2	I	44	15	TUE	IA Test 3	II	65	15	THU			
16	TUE				16	FRI	IA Test 1	V	23	16	SUN	Holiday			16	WED	IA Test 3	III	66	16	FRI			
17	WED	Classes commence for V & VII semester	III	1	17	SAT	IA Test 1	I	24	17	MON		I	45	17	THU	IA Test 3	IV	67	17	SAT	Holiday		
18	THU		IV	2	18	SUN	Holiday			18	TUE		II	46	18	FRI	Syllabus Completion	V	68	18	SUN	Holiday		
19	FRI	Krishna Jayanthi Holiday			19	MON		I	25	19	WED		III	47	19	SAT	Holiday			19	MON			
20	SAT	Holiday			20	TUE		II	26	20	THU		IV	48	20	SUN	Holiday			20	TUE			
21	SUN	Holiday			21	WED		III	27	21	FRI		V	49	21	MON	Nan Mudhalvan scheme starts	I	69	21	WED			
22	MON		I	3	22	THU	Student Feedback-1	IV	28	22	SAT	Holiday			22	TUE		II	70	22	THU	National Mathematics Day		
23	TUE		II	4	23	FRI		V	29	23	SUN	Holiday			23	WED		III	71	23	FRI			
24	WED		III	5	24	SAT	NSS Day	II	30	24	MON	Deepavali Holiday			24	THU		IV	72	24	SAT	Holiday		
25	THU		IV	6	25	SUN	Holiday			25	TUE	Holiday			25	FRI		V	73	25	SUN	Christmas Holiday		
26	FRI		V	7	26	MON		I	31	26	WED		III	50	26	SAT	Holiday			26	MON			
27	SAT		V	8	27	TUE		II	32	27	THU		IV	51	27	SUN	Holiday			27	TUE			
28	SUN	Holiday			28	WED		III	33	28	FRI	Student Feedback-2	V	52	28	MON		I	74	28	WED			
29	MON		I	9	29	THU		IV	34	29	SAT		II	53	29	TUE		II	75	29	THU			
30	TUE		II	10	30	FRI		V	35	30	SUN	Holiday			30	WED		III	76	30	FRI			
31	WED	Vinayagar Chaturthi Holiday								31	MON	National Unity Day	I	54						31	SAT	Holiday		
No. of Working days			10	10				25	35				19	54				22	76				2	78

Total No. of working days for the semester : 78

Prepared by: Ms.N.Bhavani & Dr.R.Senthamil selvi

PRINCIPAL

SARANATHAN COLLEGE OF ENGINEERING, TRICHY-12

Academic Planner for 2022 - 23 Odd Semester - II YEAR UG

AUG'22	DAY	DETAILS	Day order	working days	SEP'22	DAY	DETAILS	Day order		OCT'22	DAY	DETAILS	Day order	working days	NOV'22	DAY	DETAILS	Day order	working days	DEC'22	DAY	DETAILS	Day order	working days
01	MON				01	THU		IV	9	01	SAT	Holiday			01	TUE		II	53	01	THU		IV	75
02	TUE				02	FRI		V	10	02	SUN	Gandhi Jayanthi Holiday			02	WED		III	54	02	FRI		V	76
03	WED				03	SAT		III	11	03	MON	Holiday			03	THU		IV	55	03	SAT	Holiday		
04	THU				04	SUN	Holiday			04	TUE	Ayudha Pooja Holiday			04	FRI		V	56	04	SUN	Holiday		
05	FRI				05	MON	Teacher's Day	I	12	05	WED	Vijayadhasami Holiday			05	SAT	Holiday			05	MON		I	77
06	SAT	Holiday			06	TUE		II	13	06	THU		IV	34	06	SUN	Holiday			06	TUE		II	78
07	SUN	Holiday			07	WED		III	14	07	FRI		V	35	07	MON		I	57	07	WED	Flag Day	III	79
08	MON				08	THU		IV	15	08	SAT		III	36	08	TUE		II	58	08	THU		IV	80
09	TUE				09	FRI		V	16	09	SUN	Milad-un-Nabi Holiday			09	WED		III	59	09	FRI	Syllabus Completion	V	81
10	WED				10	SAT	Holiday			10	MON		I	37	10	THU		IV	60	10	SAT	Holiday		
11	THU	Avani Avittam			11	SUN	Holiday			11	TUE		II	38	11	FRI	Professional Development - Nan Mudhalvan scheme ends	V	61	11	SUN	Holiday		
12	FRI	International Youth Day			12	MON		I	17	12	WED		III	39	12	SAT	Holiday			12	MON	Model Exam	I	82
13	SAT				13	TUE		II	18	13	THU		IV	40	13	SUN	Holiday			13	TUE		II	83
14	SUN	Holiday			14	WED		III	19	14	FRI		V	41	14	MON	Children's Day	I	62	14	WED	Model Exam	III	84
15	MON	Independence Day Holidau			15	THU	Engineer's Day	IV	20	15	SAT	IA Test 2	I	42	15	TUE		II	63	15	THU		IV	85
16	TUE				16	FRI		V	21	16	SUN	Holiday			16	WED		III	64	16	FRI	Model Exam	V	86
17	WED				17	SAT		I	22	17	MON	IA Test 2	I	43	17	THU		IV	65	17	SAT	Holiday		
18	THU				18	SUN	Holiday			18	TUE	IA Test 2	II	44	18	FRI		V	66	18	SUN	Holiday		
19	FRI	Krishna Jayanthi Holiday			19	MON	IA Test 1	I	23	19	WED	IA Test 2	III	45	19	SAT	Holiday			19	MON	Model Exam	I	87
20	SAT	Holiday			20	TUE	IA Test 1	II	24	20	THU	IA Test 2	IV	46	20	SUN	Holiday			20	TUE		II	88
21	SUN	Holiday			21	WED	IA Test 1	III	25	21	FRI	IA Test 2	V	47	21	MON		I	67	21	WED	Model Exam	III	89
22	MON	Classes commence for III semester	I	1	22	THU	IA Test 1	IV	26	22	SAT	Holiday			22	TUE		II	68	22	THU	National Mathematics Day	IV	90
23	TUE		II	2	23	FRI	IA Test 1	V	27	23	SUN	Holiday			23	WED		III	69	23	FRI	Model Exam	V	91
24	WED		III	3	24	SAT	NSS Day IA Test 1	II	28	24	MON	Deepavali Holiday			24	THU		IV	70	24	SAT	Holiday		
25	THU		IV	4	25	SUN	Holiday			25	TUE	Holiday			25	FRI		V	71	25	SUN	Christmas Holiday		
26	FRI		V	5	26	MON		I	29	26	WED		III	48	26	SAT	Holiday			26	MON			
27	SAT		V	6	27	TUE		II	30	27	THU		IV	49	27	SUN	Holiday			27	TUE			
28	SUN	Holiday			28	WED		III	31	28	FRI	Student Feedback-2	V	50	28	MON		I	72	28	WED			
29	MON		I	7	29	THU	Student Feedback-1	IV	32	29	SAT		II	51	29	TUE		II	73	29	THU	Univ.Theory Exam commences		
30	TUE		II	8	30	FRI		V	33	30	SUN	Holiday			30	WED		III	74	30	FRI			
31	WED	Vinayagar Chaturthi Holiday								31	MON	Professional Development - Nan Mudhalvan scheme starts	I	52						31	SAT			
No. of Working days			8	8				25	33				19	52				22	74				17	91

Total No. of working days for the semester : 91

Prepared by: Ms.N.Bhavani & Dr.R.Senthamil selvi

PRINCIPAL

SARANATHAN COLLEGE OF ENGINEERING, TRICHY-12

Academic Planner for 2022 - 23 Odd Semester - II YEAR UG

AUG'22	DAY	DETAILS	Day order	working days	SEP'22	DAY	DETAILS	Day order		OCT'22	DAY	DETAILS	Day order	working days	NOV'22	DAY	DETAILS	Day order	working days	DEC'22	DAY	DETAILS	Day order	working days
01	MON				01	THU		IV	9	01	SAT	Holiday			01	TUE		II	53	01	THU		IV	77
02	TUE				02	FRI		V	10	02	SUN	Gandhi Jayanthi Holiday			02	WED		III	54	02	FRI	Syllabus Completion	V	78
03	WED				03	SAT		III	11	03	MON	Holiday			03	THU		IV	55	03	SAT	Holiday		
04	THU				04	SUN	Holiday			04	TUE	Ayudha Pooja Holiday			04	FRI		V	56	04	SUN	Holiday		
05	FRI				05	MON	Teacher's Day	I	12	05	WED	Vijayadhasami Holiday			05	SAT	Holiday			05	MON	Revision	I	79
06	SAT	Holiday			06	TUE		II	13	06	THU		IV	34	06	SUN	Holiday			06	TUE	Revision	II	80
07	SUN	Holiday			07	WED		III	14	07	FRI		V	35	07	MON		I	57	07	WED	Revision	III	81
08	MON				08	THU		IV	15	08	SAT		III	36	08	TUE		II	58	08	THU	Revision	IV	82
09	TUE				09	FRI		V	16	09	SUN	Milad-un-Nabi Holiday			09	WED		III	59	09	FRI			
10	WED				10	SAT	Holiday			10	MON		I	37	10	THU		IV	60	10	SAT	Univ. Practical Exam commences		
11	THU	Avani Avittam			11	SUN	Holiday			11	TUE		II	38	11	FRI	National Education Day	V	61	11	SUN	Holiday		
12	FRI	International Youth Day			12	MON		I	17	12	WED		III	39	12	SAT		I	62	12	MON			
13	SAT				13	TUE		II	18	13	THU		IV	40	13	SUN	Holiday			13	TUE	coaching class		
14	SUN	Holiday			14	WED		III	19	14	FRI		V	41	14	MON	Children's Day	I	63	14	WED			
15	MON	Independence Day Holiday			15	THU	Engineer's Day	IV	20	15	SAT	IA Test 2	I	42	15	TUE	Class committee	II	64	15	THU	coaching class		
16	TUE				16	FRI	Class committee meeting I for II year students	V	21	16	SUN	Holiday			16	WED	Guest Lecture for II year students	III	65	16	FRI			
17	WED				17	SAT		I	22	17	MON	IA Test 2	I	43	17	THU	ELCOMFEST 2022	IV	66	17	SAT	coaching class		
18	THU				18	SUN	Holiday			18	TUE	IA Test 2	II	44	18	FRI	ELCOMFEST 2022	V	67	18	SUN	Holiday		
19	FRI	Krishna Jayanthi Holiday			19	MON	IA Test 1	I	23	19	WED	IA Test 2	III	45	19	SAT		II	68	19	MON			
20	SAT	Holiday			20	TUE	IA Test 1	II	24	20	THU	IA Test 2	IV	46	20	SUN	Holiday			20	TUE	coaching class		
21	SUN	Holiday			21	WED	IA Test 1	III	25	21	FRI	IA Test 2	V	47	21	MON	IA Test 3	I	69	21	WED	Univ. Theory Exam commences		
22	MON	Classes commence for III semester	I	1	22	THU	IA Test 1	IV	26	22	SAT	Holiday			22	TUE	IA Test 3	II	70	22	THU	National Mathematics Day		
23	TUE		II	2	23	FRI	IA Test 1	V	27	23	SUN	Holiday			23	WED	IA Test 3	III	71	23	FRI			
24	WED		III	3	24	SAT	NSS Day IA Test 1	II	28	24	MON	Deepavali Holiday			24	THU	IA Test 3	IV	72	24	SAT	Holiday		
25	THU		IV	4	25	SUN	Holiday			25	TUE	Holiday			25	FRI	IA Test 3	V	73	25	SUN	Christmas Holiday		
26	FRI		V	5	26	MON		I	29	26	WED		III	48	26	SAT	Holiday			26	MON			
27	SAT		V	6	27	TUE		II	30	27	THU		IV	49	27	SUN	Holiday			27	TUE			
28	SUN	Holiday			28	WED		III	31	28	FRI	Student Feedback-2	V	50	28	MON	IA Test 3	I	74	28	WED			
29	MON		I	7	29	THU	Student Feedback-1	IV	32	29	SAT		II	51	29	TUE		II	75	29	THU			
30	TUE		II	8	30	FRI		V	33	30	SUN	Holiday			30	WED		III	76	30	FRI			
31	WED	Vinayagar Chaturthi Holiday								31	MON	National Unity Day	I	52						31	SAT	Holiday		
No. of Working days			8	8				25	33				19	52				24	76				6	82

Total No. of working days for the semester : 82

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SARANATHAN COLLEGE OF ENGINEERING, TRICHY-12

Academic Planner for 2022 - 23 Odd Semester - III and IV YEAR UG

AUG'22	DAY	DETAILS	Day order	working days	SEP'22	DAY	DETAILS	Day order	working days	OCT'22	DAY	DETAILS	Day order	working days	NOV'22	DAY	DETAILS	Day order	working days	DEC'22	DAY	DETAILS	Day order	working days
01	MON				01	THU		IV	11	01	SAT	Holiday			01	TUE		II	55	01	THU	Univ. Theory Exam commences		
02	TUE				02	FRI		V	12	02	SUN	Gandhi Jayanthi Holiday			02	WED		III	56	02	FRI			
03	WED				03	SAT		III	13	03	MON	Holiday			03	THU	Guest Lecture for III year students	IV	57	03	SAT	Holiday		
04	THU				04	SUN	Holiday			04	TUE	Ayudha Pooja Holiday			04	FRI		V	58	04	SUN	Holiday		
05	FRI				05	MON	Teacher's Day	I	14	05	WED	Vijayadhasami Holiday			05	SAT	Holiday			05	MON			
06	SAT	Holiday			06	TUE		II	15	06	THU		IV	36	06	SUN	Holiday			06	TUE			
07	SUN	Holiday			07	WED		III	16	07	FRI		V	37	07	MON	Class committee	I	59	07	WED	Flag Day		
08	MON				08	THU		IV	17	08	SAT		III	38	08	TUE	Class committee	II	60	08	THU			
09	TUE				09	FRI		V	18	09	SUN	Milad-un-Nabi Holiday			09	WED		III	61	09	FRI			
10	WED				10	SAT	Holiday			10	MON	IA Test 2	I	39	10	THU	IA Test 3	IV	62	10	SAT	Holiday		
11	THU	Avani Avittam			11	SUN	Holiday			11	TUE	IA Test 2	II	40	11	FRI	National Education Day IA Test 3	V	63	11	SUN	Holiday		
12	FRI	International Youth Day			12	MON	IA Test 1	I	19	12	WED	IA Test 2	III	41	12	SAT	IA Test 3	I	64	12	MON			
13	SAT				13	TUE	IA Test 1	II	20	13	THU	IA Test 2	IV	42	13	SUN	Holiday			13	TUE			
14	SUN	Holiday			14	WED	IA Test 1	III	21	14	FRI	IA Test 2	V	43	14	MON	Children's Day IA Test 3	I	65	14	WED			
15	MON	Independence Day Holiday			15	THU	Engineer's Day IA Test 1	IV	22	15	SAT	IA Test 2	I	44	15	TUE	IA Test 3	II	66	15	THU			
16	TUE				16	FRI	IA Test 1	V	23	16	SUN	Holiday			16	WED	IA Test 3	III	67	16	FRI			
17	WED	Classes commence for V & VII semester	III	1	17	SAT	IA Test 1	I	24	17	MON		I	45	17	THU	ELCOMFEST 2022	IV	68	17	SAT	Holiday		
18	THU		IV	2	18	SUN	Holiday			18	TUE		II	46	18	FRI	ELCOMFEST 2022	V	69	18	SUN	Holiday		
19	FRI	Krishna Jayanthi Holiday			19	MON	Class committee meeting I for III year students	I	25	19	WED		III	47	19	SAT	Syllabus Completion	II	70	19	MON			
20	SAT	Holiday			20	TUE	Class committee meeting I for IV year students	II	26	20	THU		IV	48	20	SUN	Holiday			20	TUE			
21	SUN	Holiday			21	WED		III	27	21	FRI		V	49	21	MON	Univ. Practical Exam commences			21	WED			
22	MON		I	3	22	THU	Student Feedback-1	IV	28	22	SAT	Holiday			22	TUE				22	THU	National Mathematics Day		
23	TUE		II	4	23	FRI		V	29	23	SUN	Holiday			23	WED				23	FRI			
24	WED		III	5	24	SAT	NSS Day	II	30	24	MON	Deepavali Holiday			24	THU				24	SAT	Holiday		
25	THU		IV	6	25	SUN	Holiday			25	TUE	Holiday			25	FRI				25	SUN	Christmas Holiday		
26	FRI		V	7	26	MON		I	31	26	WED		III	50	26	SAT	Holiday			26	MON			
27	SAT		V	8	27	TUE		II	32	27	THU		IV	51	27	SUN	Holiday			27	TUE			
28	SUN	Holiday			28	WED		III	33	28	FRI	Student Feedback-2	V	52	28	MON				28	WED			
29	MON		I	9	29	THU	Silver Jubilee Elite Lecture Series for IV year students	IV	34	29	SAT		II	53	29	TUE				29	THU			
30	TUE		II	10	30	FRI		V	35	30	SUN	Holiday			30	WED				30	FRI			
31	WED	Vinayagar Chaturthi Holiday								31	MON	National Unity Day	I	54						31	SAT	Holiday		
No. of Working days			10	10				25	35				19	54				16	70					

Total No. of working days for the semester : 70

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SARANATHAN COLLEGE OF ENGINEERING, TRICHY-12

Academic Planner for Even Semester(2022-23) - II, III & IV UG

FEB'22	DAY	DETAILS	working days	MAR'22	DAY	DETAILS	working days	APR'22	DAY	DETAILS	working days	MAY'22	DAY	DETAILS	working days
01	WED	Classes commence for IV & VI semester T&P Training for III Year	1	01	WED	Class committee meeting I for II year students	21	01	SAT	Holiday		01	MON	May Day Holiday	
02	THU	T&P Training for III Year	2	02	THU	Sports Day	22	02	SUN	Holiday		02	TUE		62
03	FRI	Founder's day T&P Training for III Year	3	03	FRI	College Day	23	03	MON		44	03	WED		63
04	SAT	T&P Training for III Year Holiday		04	SAT	Graduation Day Holiday		04	TUE		45	04	THU	IA test-3	64
05	SUN	Holiday		05	SUN	Holiday		05	WED		46	05	FRI	IA test-3	65
06	MON		4	06	MON		24	06	THU		47	06	SAT	IA test-3	66
07	TUE		5	07	TUE		25	07	FRI	Good Friday Holiday		07	SUN	Holiday	
08	WED		6	08	WED	Womania 2023 Women's Day	26	08	SAT	Holiday		08	MON	IA test-3	67
09	THU		7	09	THU	IA test-1	27	09	SUN	Holiday		09	TUE	IA test-3	68
10	FRI		8	10	FRI	IA test-1	28	10	MON	IA test-2	48	10	WED	IA test-3	69
11	SAT	Holiday		11	SAT	IA test-1	29	11	TUE	IA test-2	49	11	THU		70
12	SUN	Holiday		12	SUN	Holiday		12	WED	IA test-2	50	12	FRI	Syllabus completion	71
13	MON		9	13	MON	IA test-1	30	13	THU	IA test-2	51	13	SAT	Holiday	
14	TUE		10	14	TUE	IA test-1	31	14	FRI	Tamil New Year Day Holiday		14	SUN	Holiday	
15	WED		11	15	WED	IA test-1	32	15	SAT	Holiday		15	MON	Commencement of University Practical exams	
16	THU		12	16	THU		33	16	SUN	Holiday		16	TUE		
17	FRI		13	17	FRI		34	17	MON	IA test-2	52	17	WED		
18	SAT	Holiday		18	SAT	Holiday		18	TUE	IA test-2	53	18	THU		
19	SUN	Holiday		19	SUN	Holiday		19	WED		54	19	FRI		
20	MON	Classes commence for VIII semester	14	20	MON	Students Feedback-I	35	20	THU		55	20	SAT		
21	TUE		15	21	TUE		36	21	FRI		56	21	SUN		
22	WED		16	22	WED	Telugu New Year Day Holiday		22	SAT	Ramzan Holiday		22	MON	coaching class	
23	THU		17	23	THU		37	23	SUN	Holiday		23	TUE	coaching class	
24	FRI		18	24	FRI		38	24	MON	Students Feedback-II	57	24	WED	coaching class	
25	SAT	Holiday		25	SAT	Holiday		25	TUE	Class committee meeting II for	58	25	THU	coaching class	
26	SUN	Holiday		26	SUN	Holiday		26	WED	Class committee meeting II for IV year students	59	26	FRI	Commencement of University Theory exams	
27	MON	Class committee meeting I for	19	27	MON		39	27	THU	Founder's Memorial day	60	27	SAT		
28	TUE	Class committee meeting I for	20	28	TUE		40	28	FRI	Class committee meeting II for	61	28	SUN		
				29	WED		41	29	SAT	Holiday		29	MON		
				30	THU		42	30	SUN	Holiday		30	TUE		
				31	FRI		43					31	WED		
No. of Working days			20				23				18				10
														Total No.of working days for the semester :	71

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SARANATHAN COLLEGE OF ENGINEERING
Venkateswara Nagar, Panjappur, Tiruchirappalli - 620012
Department of Electronics and Communication Engineering
WORKLOAD -ALLOCATION FOR THE ACADEMIC YEAR 2022-2023(ODD)

S.NO.	NAME	SUBJECT	SUBJEC	YEAR / SEM	THEORY	HOURS	TOTAL
1	Dr.M.Santhi, HOD	Digital System Design	EC3352	II / III ECE B	THEORY	4	6
		Digital System Design Lab	EC3352	II / III ECE B	LAB	2	
		PG Project Phase -I					
2	Dr. C.Vennila, Prof.	Optical Communication	EC8751	IV/VII ECE B	THEORY	5	23
		Adhoc and Wireless sensor network	EC8702	IV /VII ECE A	THEORY	5	
		Research Methodologyand IPR	RM4151	I/I M.E (CS)	THEORY	4	
		Advanced communication Systems lab	EC8761	IV/VII ECE B	LAB	6	
		Microprocessor & Microcontroller Lab	EC8681	III/ V CSE A	LAB	3	
3	Dr.M.Padmaa , Prof.	Discrete time signal processing	EC8553	III/V ECE B	THEORY	5	23
		Transducer Engineering	OIC751	IV/VII ECE A	THEORY	5	
		Modern Digital Communication Systems	EL4151	I/I M.E (CS)	THEORY	4	
		Advanced communication Systems lab	EC8761	IV/VII ECE A	LAB	3	
		Digital Signal processing Lab	EC8562	III/V ECE B	LAB	6	
4	Dr.S.A.Arunmozhi , Associate Prof.	Antennas and Microwave Engineering	EC8701	IV/VII ECE A	THEORY	6	23
		Professional Ethics in Engineering	GE8076	IV/VII ECE B	THEORY	5	
		Radiating Systems	CU4152	I/I M.E (CS)	THEORY	4	
		Digital System Design Lab	EC3352	II / III ECE A	LAB	2	
		Advanced communication Systems lab	EC8761	IV/VII ECE A	LAB	6	
5	Dr.S.Rajeswari, Associate Prof.	Professional Ethics in Engineering	GE8076	IV/VII ECE A	THEORY	5	26
		Digital Communication	EC8501	III/V ECE B	THEORY	5	
		Advanced Wireless Communication	CU4151	I / I ME (CS)	THEORY	4	
		Communication system Lab	EC8561	III/V ECE B	LAB	6	
		Communication Networks lab	EC8563	III/V ECE B	LAB	3	
		IBM			LAB	3	
6	Dr.V.Mohan , Associate Prof.	Signals and Systems	EC3354	II / III ECE B	THEORY	5	27
		Control System	EC 3361	II / III ECE A	THEORY	5	
		Communication system Lab	EC8561	III/V ECE A	LAB	6	
		Digital Communication system Lab	EL4161	I/I M.E (CS)	LAB	4	
		Software Defined Radios	CU4005	II / III ME	THEORY	4	
		IBM			LAB	3	
7	Dr.P.Shanmuga Priya, Associate Prof.	Electronics Devices and Circuits	EC3353	II / III ECE B	THEORY	5	26
		Digital Communication	EC8501	III/V ECE A	THEORY	5	
		Communication system Lab	EC8561	III/V ECE A	LAB	6	
		IBM			LAB	3	
		Electronics Devices and Circuits Lab	EC3361	II / III ECE A	LAB	3	
		Advanced Digital Signal Processing Laboratory	CU4161	I/I M.E (CS)	LAB	4	
8	Dr.M.Baritha Begum, Asst. Prof.	Medical Electronics	EC8073	III/V ECE B	THEORY	4	28
		Transducer Engineering	OIC751	IV/VII ECE B	THEORY	5	
		Statistical Signal Processing	DS4152	I/I M.E (CS)	THEORY	4	
		Advanced communication Systems lab	EC8761	IV/VII ECE A	LAB	3	
		Communication system lab	EC8561	III/V ECE B	LAB	6	
		Microprocessor and Microcontroller lab	EC8681	III/V IT	LAB	3	
		IBM			LAB	3	
9	Mr.S.Hariprasath, Asst. Prof.	Electronics Devices and Circuits	EC3353	II / III ECE A	THEORY	5	25
		Digital Image Processing	EC8093	IV/VII ICE	THEORY	5	
		Real Time Embedded Systems	VE4072	I / I ME (CS)	THEORY	4	
		Digital System Design Lab	EC3352	II / III ECE B	LAB	2	
		Embedded Lab	EC8711	IV/VII ECE A	LAB	3	
		Electronics Devices and Circuits Lab	EC 3361	II / III ECE A	LAB	6	

10	Mr.K.Malaisamy, Asst. Prof.	Microprocessor and Microcontroller	EE8551	III / V ICE	THEORY	6	25
		Antennas and Microwave Engineering	EC8701	IV/VII ECE B	THEORY	6	
		Microprocessor and Microcontroller lab	EE8681	III/V ICE	LAB	3	
		Microprocessor and Microcontroller lab	EC8681	III/V CSE B	LAB	6	
		Optical Communication and Networking	CU4301	II/III ME(CS)	THEORY	4	
11	Ms P.Sivagama Sundari, Asst. Prof.	Digital System Design	EC3352	II / III ECE A	THEORY	4	26
		Microprocessor and Microcontroller	EC8691	III/V IT	THEORY	5	
		Embedded Lab	EC8711	IV/VII ECE A	LAB	3	
		Digital System Design Lab	EC3352	II / III ECE A	LAB	2	
		Microprocessor and Microcontroller lab	EC8681	III/V IT	LAB	6	
		Embedded Lab	EC8711	IV/VII ECE B	LAB	6	
12	Ms.J.Eindhumathy	Control System	EC 3351	II / III ECE B	THEORY	5	25
		Embedded & Real time systems	EC8791	IV/VII ECE A	THEORY	5	
		Electronics Devices and Circuits Lab	EC 3361	II / III ECE B	LAB	6	
		Embedded Lab	EC8711	IV/VII ECE B	LAB	3	
		Embedded Lab	EC8711	IV/VII ECE A	LAB	6	
13	*Ms. A. Shamim Banu, Asst. Prof.*	*Control System*	*EC3351*	*II / III ECE A*	*THEORY*	*5*	*23*
		Microprocessor and Microcontroller	*EC8691*	*III/V CSE A*	*THEORY*	*5*	
		Advanced communication Systems lab	*EC8761*	*IV/VII ECE A*	*LAB*	*6*	
		Advanced communication Systems lab	*EC8761*	*IV/VII ECE B*	*LAB*	*3*	
		Training and Placement	*T&P*	*III/V ECE A &B*	*THEORY*	*4*	
14	Mr.M.Mahendran , Asst. Prof.	Optical Communication	EC8751	IV/VII ECE A	THEORY	5	25
		Communication Networks	EC8551	III/V ECE B	THEORY	5	
		Communication Networks lab	EC8563	III/V ECE A	LAB	6	
		Microprocessor and Microcontroller lab	EE8681	III/V ICE	LAB	3	
		Communication Networks lab	EC8563	III/V ECE B	LAB	6	
15	Mr.G.Sivakannu, Asst. Prof.	Discrete time signal processing	EC8553	III/V ECE A	THEORY	5	22
		Signals and Systems	EC3354	II / III ECE A	THEORY	5	
		Digital Signal processing Lab	EC8562	III/V ECE A	LAB	6	
		Advanced communication Systems lab	EC8761	IV/VII ECE B	LAB	6	
16	Ms..M.Anthuvan Lydia, Asst. Prof.	Microprocessor and Microcontroller	EC8691	III/V CSE A	THEORY	5	26
		Medical Electronics	EC8073	III/V ECE A	THEORY	4	
		Training and Placement	T&P	III/V ECE A	THEORY	2	
		Digital Signal Processing Lab	EC8562	III/V ECE A	LAB	6	
		Communication Networks lab	EC8563	III/V ECE B	LAB	3	
		Microprocessor and Microcontroller lab	EC8681	III/V CSE A	LAB	6	
17	Mr.S.Kiruthiga, Asst. Prof.	Communication Networks	EC8551	III/V ECE A	THEORY	5	26
		Adhoc and Wireless sensor network	EC8702	IV /VII ECE B	THEORY	5	
		Communication Networks lab	EC8563	III/V ECE A	LAB	6	
		Digital System Design Lab	EC3352	II / III ECE A	LAB	2	
		Digital System Design Lab	EC3352	II / III ECE B	LAB	2	
		Electronics Devices and Circuits Lab	EC3361	II / III ECE B	LAB	6	
18	Ms.B.Divya, Asst.Prof.	Embedded & Real time systems	EC8791	IV/VII ECE B	THEORY	5	26
		Microprocessor and Microcontroller	EC8691	III/V CSE A	THEORY	5	
		Embedded Lab	EC8711	IV/VII ECE B	LAB	6	
		Digital System Design Lab	EC3352	II / III ECE A	LAB	2	
		Microprocessor and Microcontroller lab	EC8681	III/V CSE B	LAB	6	
		Digital System Design Lab	EC3352	II / III ECE B	LAB	2	
19	Dr.Preethi Elizabeth, Asst.Prof.	Basic of Biomedical Instrumentation (Open Elective-I)	OMD551	III/V ECE A	THEORY	5	27
		Basic of Biomedical Instrumentation (Open Elective-I)	OMD551	III/V ECE B	THEORY	5	
		Microprocessor and Microcontroller lab	EE8681	III/V CSE A	LAB	3	
		Electronics Devices and Circuits Lab	EC3352	II / III ECE A	LAB	3	
		Microprocessor and Microcontroller lab	EC8681	III/V IT	LAB	3	
		Training and Placement	T&P	III/V ECE B	THEORY	2	
		Digital Signal processing Lab	EC8562	III/V ECE B	LAB	6	
					TOTAL	458	

Timetable Coordinator

HoD/ECE

Principal

Assignment – 01			Dateof Issue:	25.08.2022	Marks	10
Course code	EC 8791	Course Title	Embedded and Real Time Systems			
Year	IV	Semester/Section	VII /A & B	Dateof Submission:	01.09.2022	

Q.No	Questions	CO
1	Requirements of any real time system	CO403.1
2		

Name and Signature of the Faculty
J. EINDHUMATHY

HoD/ECE

JEFFREY ALAN. A
222043
IV year ECE "A" sec

Design process has two objectives as follows:

1) It will give us an introduction to the various steps in embedded system design.

2. Design methodology:

I) Design to ensure that we have done everything we need to do, such as optimizing performance or performing functional tests.

II) It allows us to develop computer-aided design tools.

III) A design methodology makes it much easier for members of a design team to communicate.

levels of abstraction in the design process:

1) Requirements:

→ It can be classified in to functional or non functional

1.1) Functional Requirements

→ Gather an informal description from the customer.

→ Refine the requirements into a specification that contains enough information to design the system architecture.

Ex Sample Requirements Form:

→ Name: Giving a name to the project

→ purpose: Brief one-or-two-line description of what the sy
is supposed to do

→ Inputs & Outputs: Analog electronic signals? Digital data
Mechanical inputs?

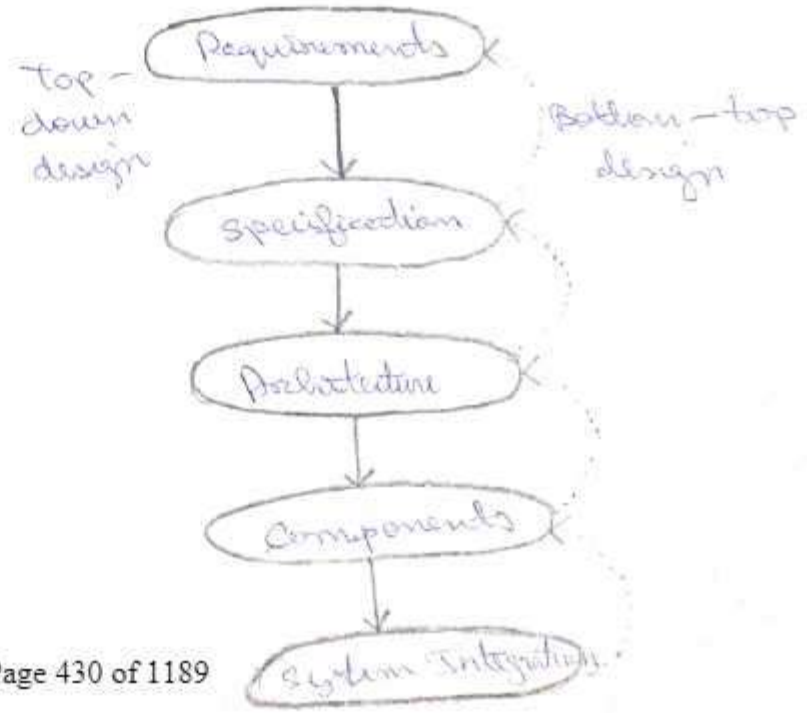
→ Functions: detailed description of what the system do

→ performance: Computations must be performed with
a certain time frame.

→ Manufacturing Cost: Cost of the hardware compone

→ power: How much power the system can consume.

→ physical size and weight: Indication of the physic
size of the system.



1.2) Non-Functional Requirements

→ Performance: depends upon approximate time to perform a user-level function and also operation must be completed within deadline.

→ Cost: Manufacturing cost includes the cost of components and assembly.

→ Non Recurring engineering (NRE) costs include the personnel and other costs of designing the system.

→ physical size and weight: The final system can vary depending upon this application.

→ power Consumption: power can be specified in the requirements stage in terms of battery life.

2) SPECIFICATION

→ The specification must be carefully written so that it accurately reflects the customer's requirements

→ It can be clearly followed during design

Washing Machine:

Name	Washing Machine
purpose	Agitates your clothes in a soapy suds and water to remove any dirt and stains before spinning to drain the water after the cycle
Input	→ Door lock - open/closed → Water level sensor - open/closed 2 or 3 levels → ~~motor~~ Wash motor tacho meter either digital Hall IC or voltage generator. → Temperature sensor Resistance (Thermistor) or open/closed thermostat → Water flow sensor - Digital → Analogue water level sensor - Resistance → Out of balance sensor - Accelerometer

Output	→ power to door lock - mains voltage → power to the inlet valve/s - mains voltage → power to the drains pump - mains voltage
Functions	→ It controls motor speed for wash and rinse operations → It checks levels and temperature of water → It operates the machine for specific tasks that user has programmed
performance	→ This rating is from A to G, the same as the energy efficient rating.
Manufacturing cost	$250
power	500 mW
physical size and weight	Ideally for a family of 4 members, the capacity is 6-7 kg.

Assignment – 02			Dateof Issue:	02.09.2022	Marks	10
Course code	EC 8791	Course Title	Embedded and Real Time Systems			
Year	IV	Semester/Section	VII /A& B	Dateof Submission:	13.09.2022	

Q.No	Questions	CO
1	Design Example Alarm Clock	CO403.1

Name and Signature of the Faculty

HoD/ECE

EC8791 Embedded and Real time systems

ANTHON. A. S K
IV year ECE-A
222010

Assignment - 2

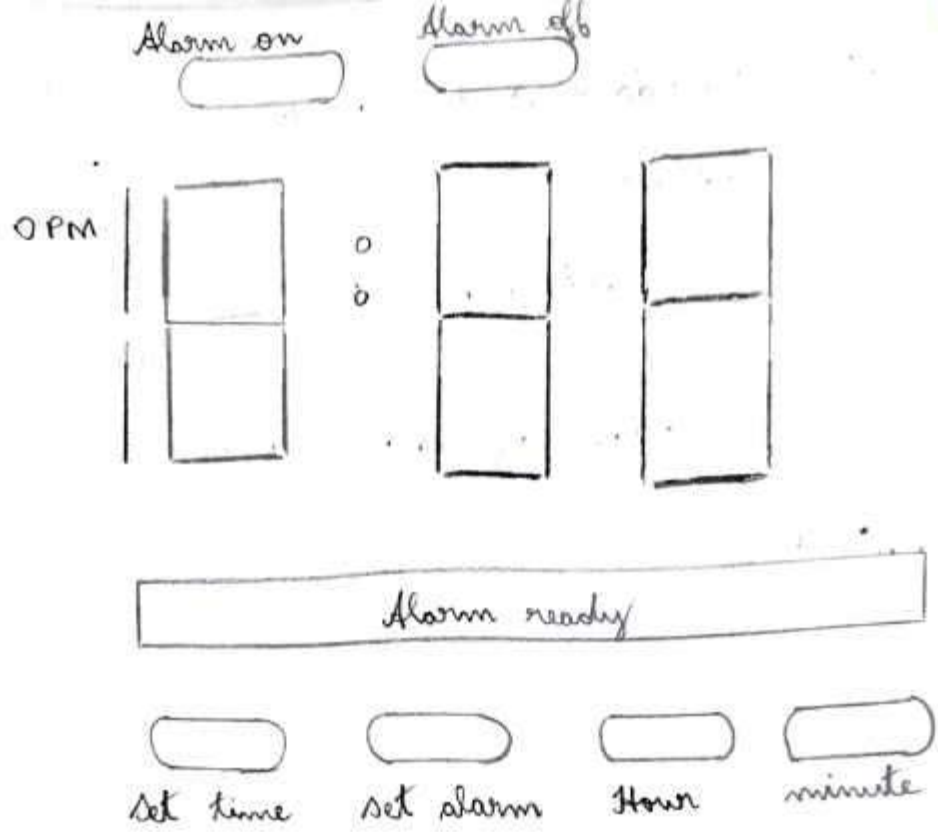
content - 6
Submission - 1
presentation - 2
9

Design of Alarm clock

- Alarm clock use three main components such as AVR microcontroller, RTC module and LCD display. RTC module use for real time. It has several data Year, Month, Day and Time with Hour, minute, second. These values get to the main file and display it using LCD.

- The method of LCD display and RTC module include the separate header files.

- An alarm clock, we use a microprocessor to read the clock's buttons and update the time display. The front panel of the Alarm clock,



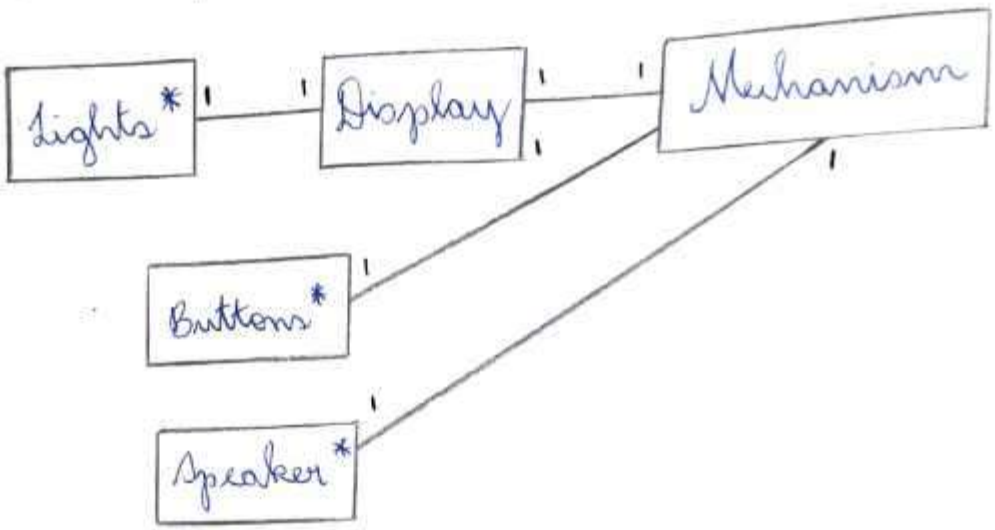
Requirements:

Name	Alarm clock
Purpose	24-h digital clock with a single alarm.
Inputs	Five push buttons: set time, set alarm, hour, minute, alarm on, alarm off.
Outputs	Four-digit, clock-style output, PM indicator light, Alarm ready with light, Buzzer.
Functions	Default mode - The display shows the current time. PM light is on from noon to midnight. Hour and minute buttons are used to advance time and alarm respectively. Pressing one

	of these buttons increments hour/minute one. Depress set time button: This button is held down while hour/minute buttons are pressed to set time. New time is automatically shown on display. Depress alarm set button: while this button is held down, display shifts to current alarm setting; depressing hour/minute buttons set alarm value in manner similar to setting time.
Performance	Displays hours and minutes but not seconds.
Manufacturing cost	Consumer product range. Cost will be dominated by the microprocessor system, not the buttons or display.
Power	Powered by AC through a standard power supply.
Physical size and weight	small enough to fit on a nightstand with expected weight for an alarm clock.

Specification:

• Three classes that represent physical elements. Lights for all the digits and lights. Buttons for all the buttons, and speaker for the sound output.



• The Buzzer class allows the buzzer to be turned off. We will use analog electronics to generate the buzzy tone for the speaker.

• The Buttons class provides read-only access to current state of the buttons.

• The Lights class allows us to drive the lights. However, to save pins on the display. Lights provide signals for only one digit, along with a set of signals to indicate which digit is

currently being addressed.

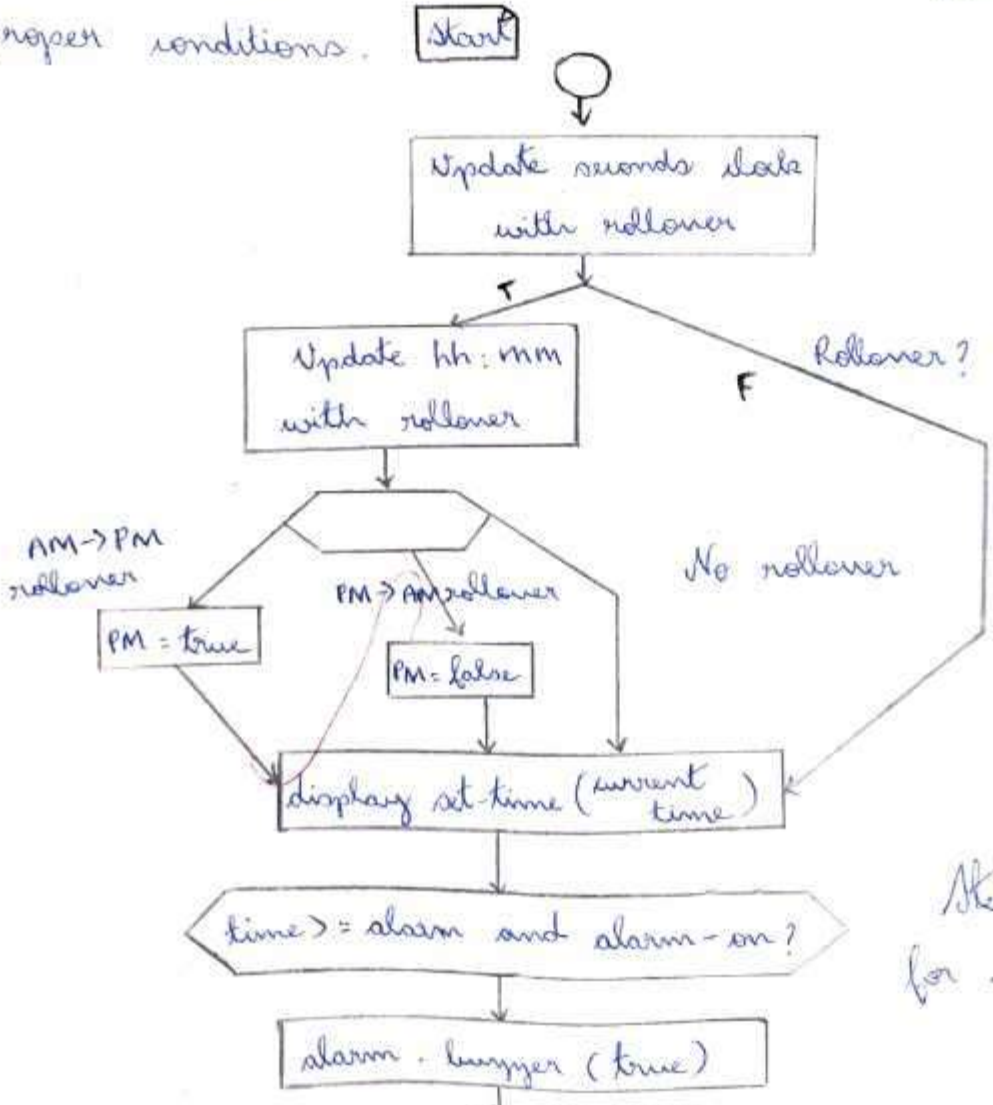
- Generate the display by scanning the digits periodically. That function is performed by the Display class, which makes the display appear as an unscanned, continuous display to the rest of the system.

- The Mechanism class keeps track of the current time, the current alarm time, whether the alarm has been turned on and whether it is currently buzzing.

- The clock shows the time only to the minute, but it keeps internal time to the second. The time is kept as discrete digits rather than a single integer to simplify transferring the time to the display.

- The class provides two behaviors, both of which run continuously. First, scan-keyboard is responsible for looking at the inputs and updating the alarm and other functions as requested by the user.

• The state diagram for update-time is straight forward, but it must do several things. It is activated once per second and must update the seconds clock. If it has counted 60s, it must then update the displayed time; when it does so, it must roll over between digits and keep track of AM to PM and PM to AM transitions. It sends the updated time to display object. It also compares time with alarm setting and sets the alarm buzzing under proper conditions.



State diagram for update time

System Architecture:

- The software and hardware architecture of a system are always tied to completely separate but consider the software architecture and them its implications on the hardware

- An interrupt driven routine can update the current time. The current time will be kept in a variable in memory. A timer can be used to interrupt periodically and update the time. This routine maintain the PM indicator

- A foreground program can poll the buttons and execute their commands. Since buttons are changed at a relatively slow rate, it makes no sense to add the hardware required to connect the buttons to interrupts.

- Instead, the foreground program will read the button values and then use simple conditional tests to implement the commands, including setting the current time, setting the alarm and turning off the alarm.

- Another routine called by the foreground. — program will turn the buzzer on and off based on the alarm time.

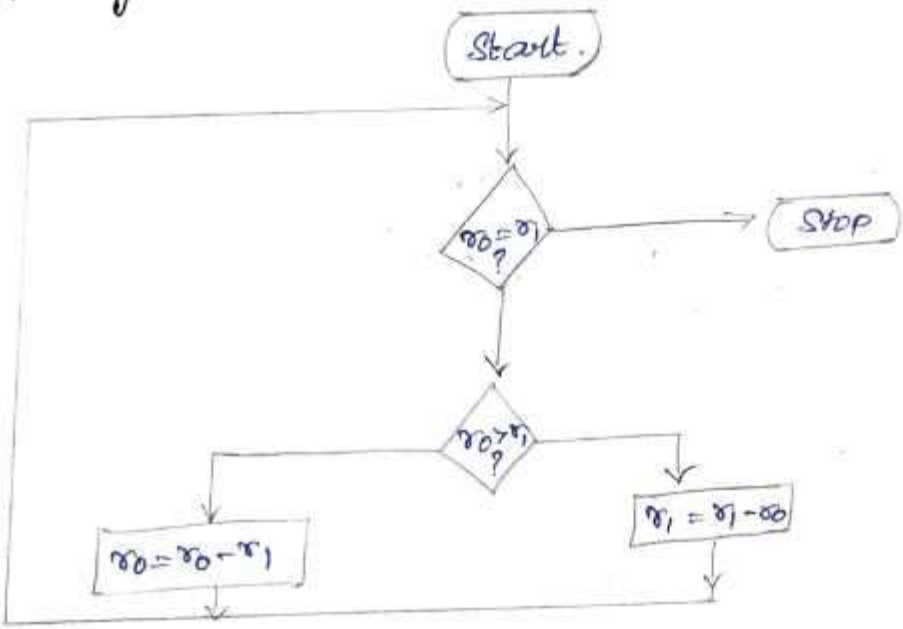
Embedded and Real time System

M. ARTHI
222002

Assignment - 3

content - 5
Submission - 1
Presentation - 2
8

1) Convert the GCD algorithm given in the flowchart into
i) "Normal" assembler, where only branches can be conditional,
ii) ARM assembler, where all instruction also conditional that improving code density.



i) Normal Assembler

```
gcd  cmp r0, r1
     beq stop
     bit  less
     sub  r0, r0, r1
     bal  gcd
less: sub r1, r1, r0
     bal  gcd
stop
```

2) ARM conditional Assembler

gcd cmp r0, r1.

Subgt r0, r0, r1

Sublt r1, r1, r0

bal gcd

3) Specify instruction which until implement the following

a) r0 = 16

mov r0, #16

b) r1 = r0 * 4 => mov r1, r0, lsl #2

c) r0 = r1 / 16 (r1 signed 2's complement)

mov a1, a2, asr #4

d) r1 = r2 * 7

rsb r1, r2, r2, lsl #3

4. What will the following instruction do?

a) ADDS r0, V, r1, LSL #2.

$r_0 = r_1 + (r_1 * 4)$ (or) $r_0 = r_1 + 5$

b) RSB , r2, r1 # 03

$r_2 = 0 - r_1$ (or) $r_2 = -r_1$

4. What does the following instruction sequence do?

a) ADD r0, r, r1, LSL #1

$r_0 = r_1 + (r_1 * 2) = r_1 * 3$

b) SUB r0, r0, r1, LSL #4

$r_0 = r_0 - (r_1 * 16) = (r_1 * 3) - (r_1 * 16)$

c) ADD r0, r0, r1, LSL #7.

$r0 = r0 + (r1 * 128) = (r1 * -13) + (r1 * 128)$

$= r1 * 115.$

5) Write a segment of code that add together element x to x+(n-1) of an array, where the element x=0 is the 1st element of array.

r0 point to the start of the array

r1 = x

r0 = n

ADD r2, r0, r2, LSL #2 ; set r0 to address of element x

ADD r2, r0, r2, LSL #2 ; set r2 to address of element n+1

MOV r1, #10 ; initialize counter Loop

LDR r3, [r0], #4 ;

ADD r1, r1, r2 ;

CMP r0, r2

BLT Loop ;

Assignment – 04			Dateof Issue:	20.10.2022	Marks	10
Course code	EC 8791	Course Title	Embedded and Real Time Systems			
Year	IV	Semester/Section	VII /A &B	Dateof Submission:	31.10.2022	

Q.No	Questions	CO
2	Design Example - Audio player	CO403.6
3	Engine control unit	CO403.6
4	Video accelerator	CO403.6

Name and Signature of the Faculty

HoD/ECE

EMBEDDED AND REAL TIME SYSTEMS
(EC8791)

Name : S. Jayalakshmi
Batch no : 222041
Dep/Section : ECE / A-Section
Date : 30-10-2022

ASSIGNMENT-4

content - 6
Submission - 2
presentation - 2
10

1. Audio player:

Audio players are defined as any media player which can only play audio files. players capable of video playback are included under comparison of video player software, even if there are primarily well known for audio playback.

Operation and Requirements:

Audio players are often called MP3 players. After the popular audio data format, a number of audio comparison formats have been developed and are in regular use. The earlier portable MP3 players were based on compact disc mechanisms and modern MP3 players use either Flash memory or disc drivers to ~~stat~~ store music.

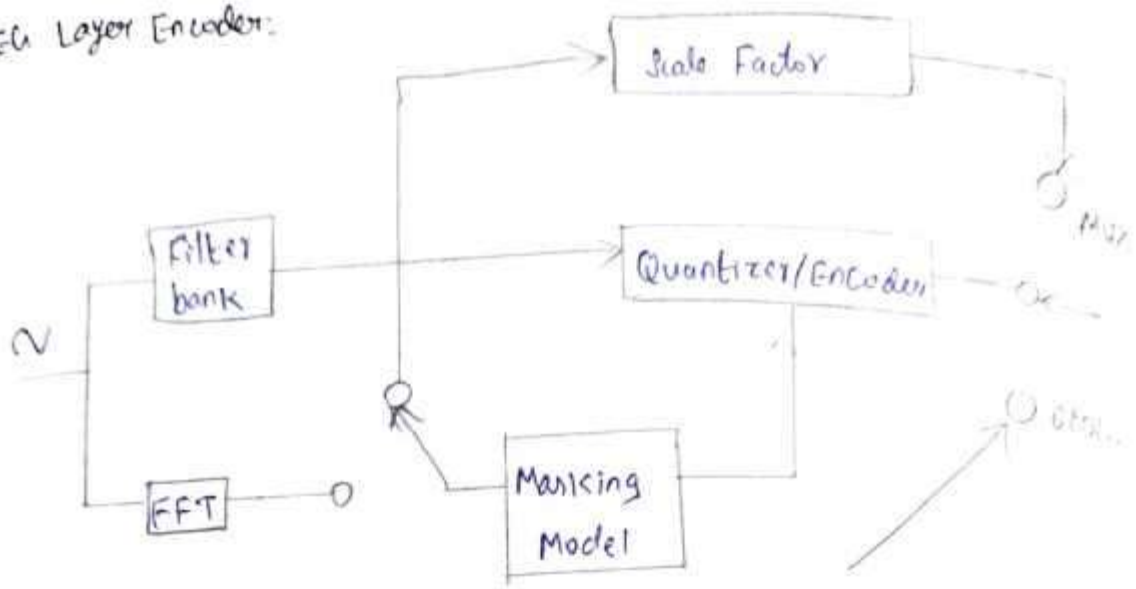
Functions:

1. Audio storage 2. Audio decompression 3. User Interface.

Masking:

Masking is one perceptual phenomenon that is exploited by perceptual coding. One tone can be masked by another if the tones are sufficiently close in frequency. Some audio features can also be masked if they occur too close in time after another feature.

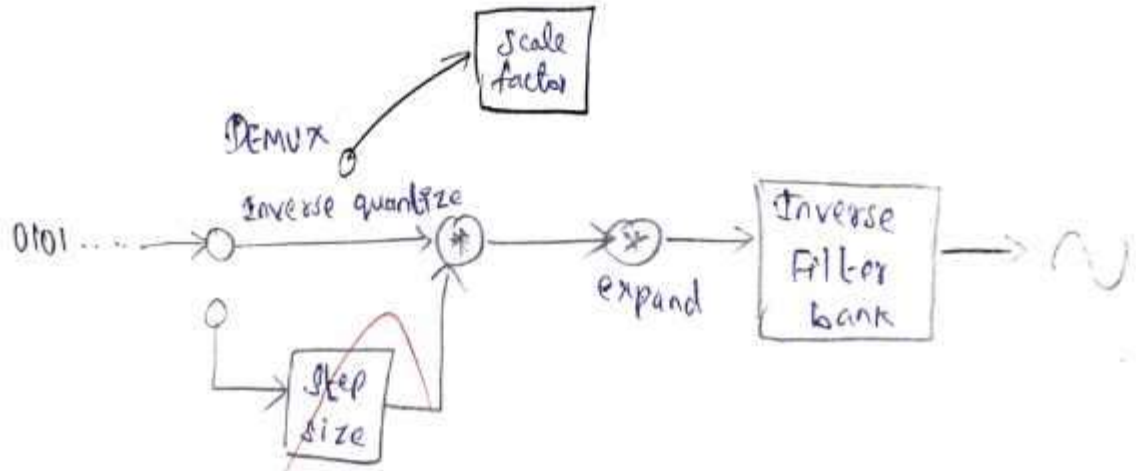
MPEG Layer Encoder:



Data frame format:

Header	CRC	Bit allocation	Scale factors	Subband samples	AUX data

MPEG Layer Decoder:

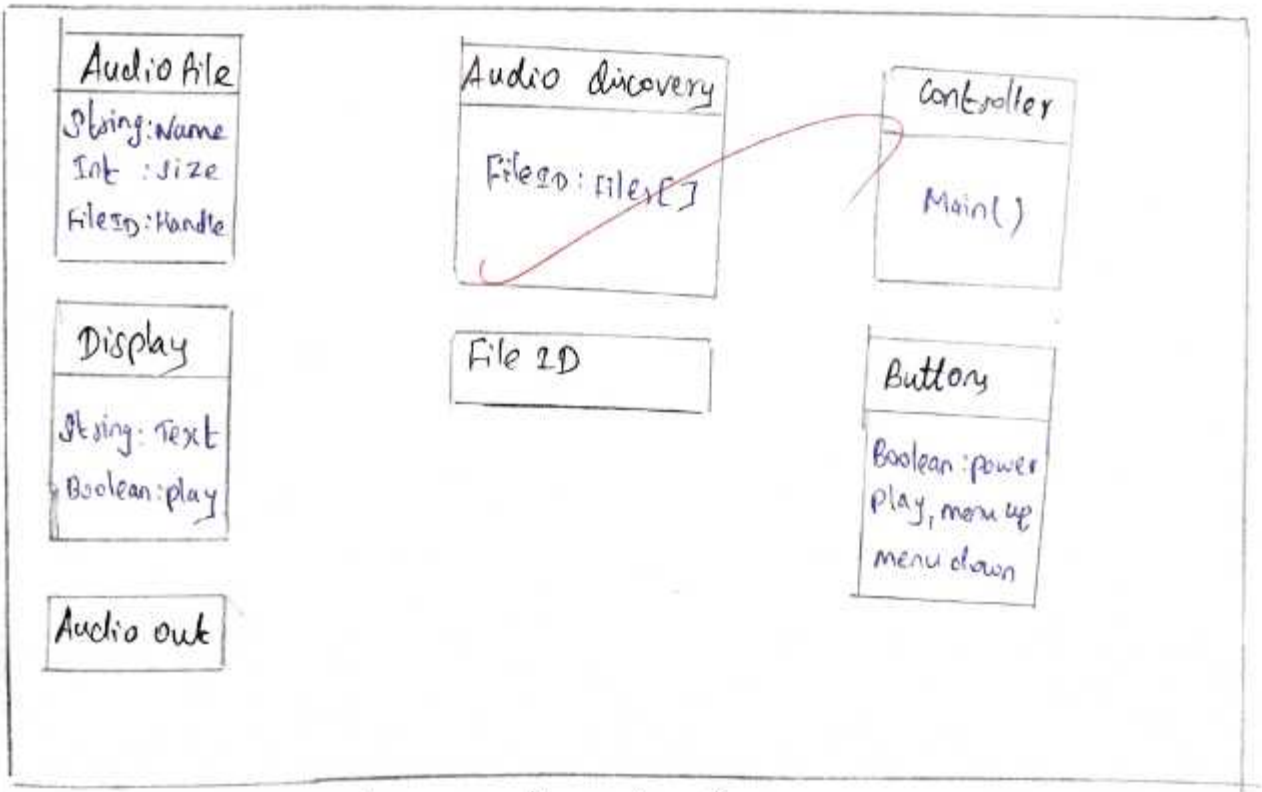


MPEG audio ~~book~~ decoding is a straightforward process. After disas the data frame, the data are unscaled and inverse quantized to produc sample streams for the subband.

Requirements:

Name	Audio player
Purpose	Play audio from files
Inputs	Flash memory socket, on/off, play/stop, menu up/down
Outputs	Speaker
Functions	Display list of files in flash memory, select file to play, play file
Performance	Sufficient to play audio files at required rate.
Manufacturing cost	Approximately $25
Power	1 AAA battery
Physical size & weight	Approximately 1 in x 2 in, less than 2 oz

Specification:



Classes in the audio player

System Architecture:

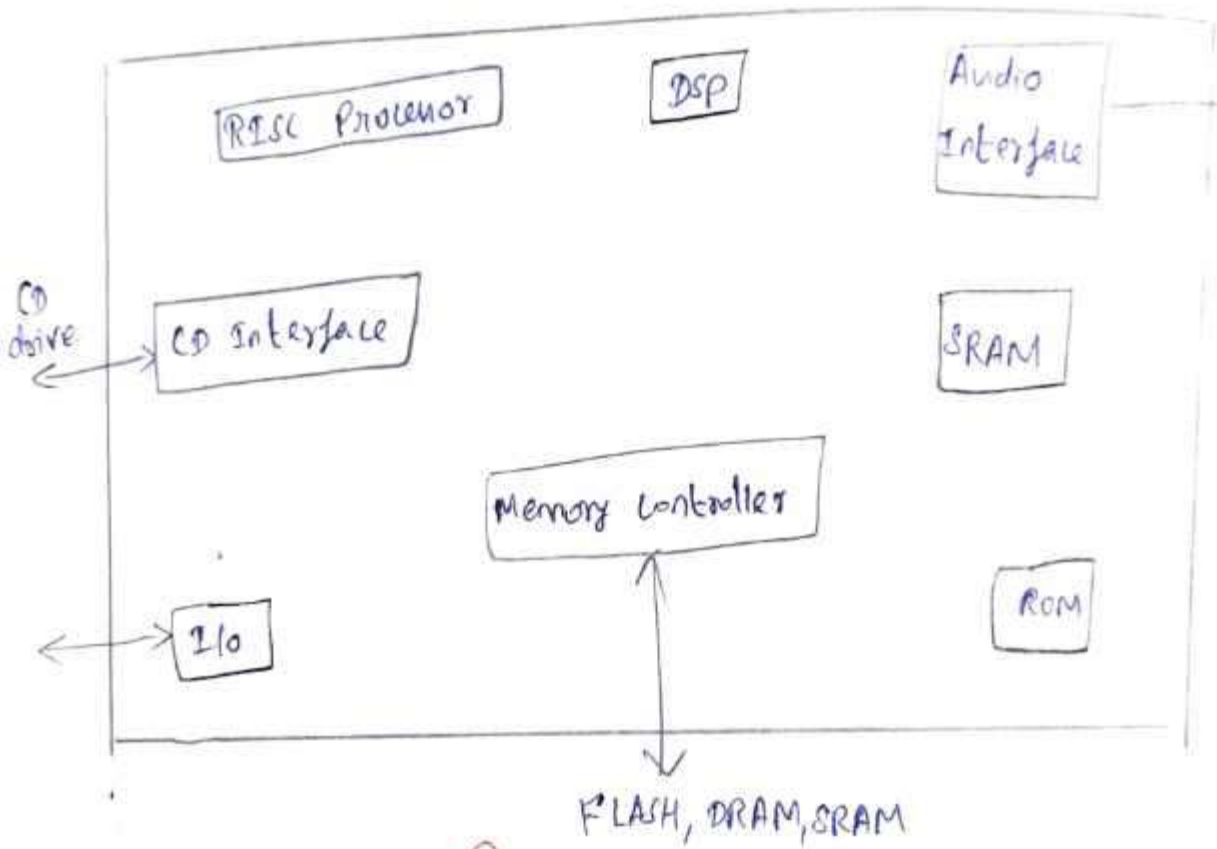
The cirrus CS7410 is an audio controller designed for CD/MP3 player.

The audio controller includes two processors.

1. The 32-bit RISC processor is used to perform system control and

audio decoding

2. The 16-bit DSP is used to perform audio effect such as equalization



The memory controller can be interfaced to several types of memory such as

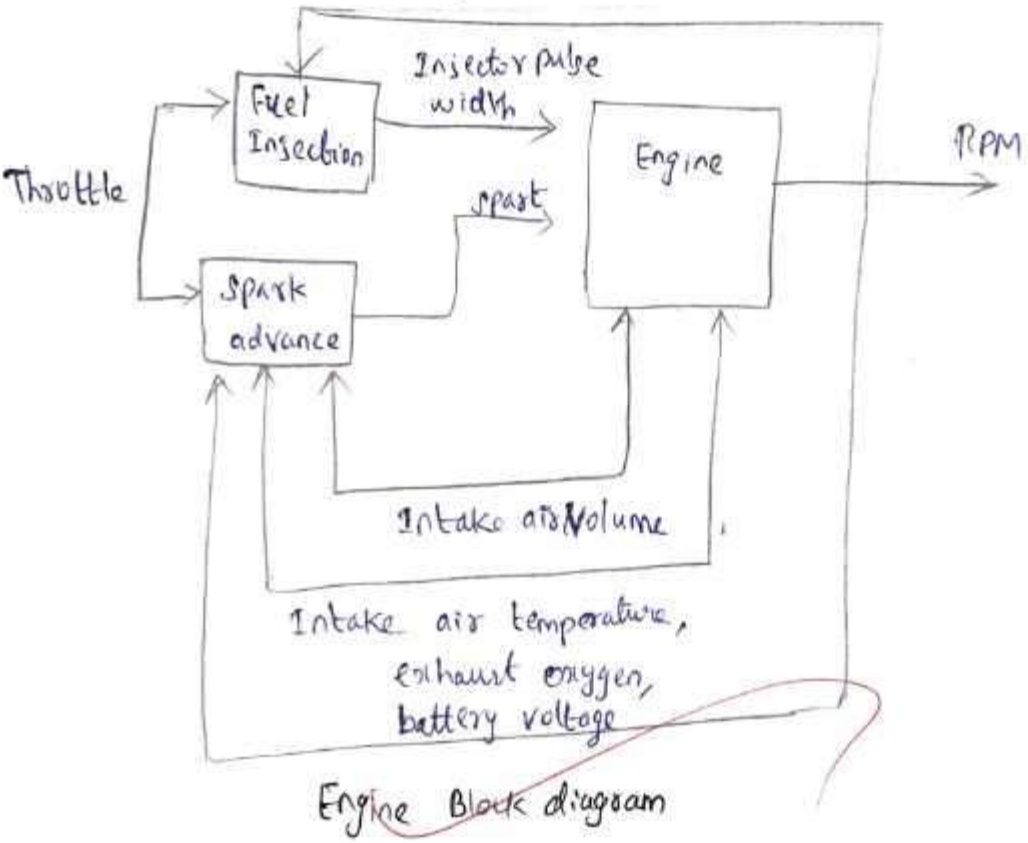
1) FLASH 2) DRAM 3) SRAM

2. Engine Control Unit (ECU):

Engine Control Unit (ECU) is a generic term for any embedded system that controls one or more of the electrical system or subsystems in a motor vehicle.

An ECU is a type of electronic control unit that controls a series of actuators on an internal combustion engine to ensure optimal engine performance.

Theory of Operation and Requirements:



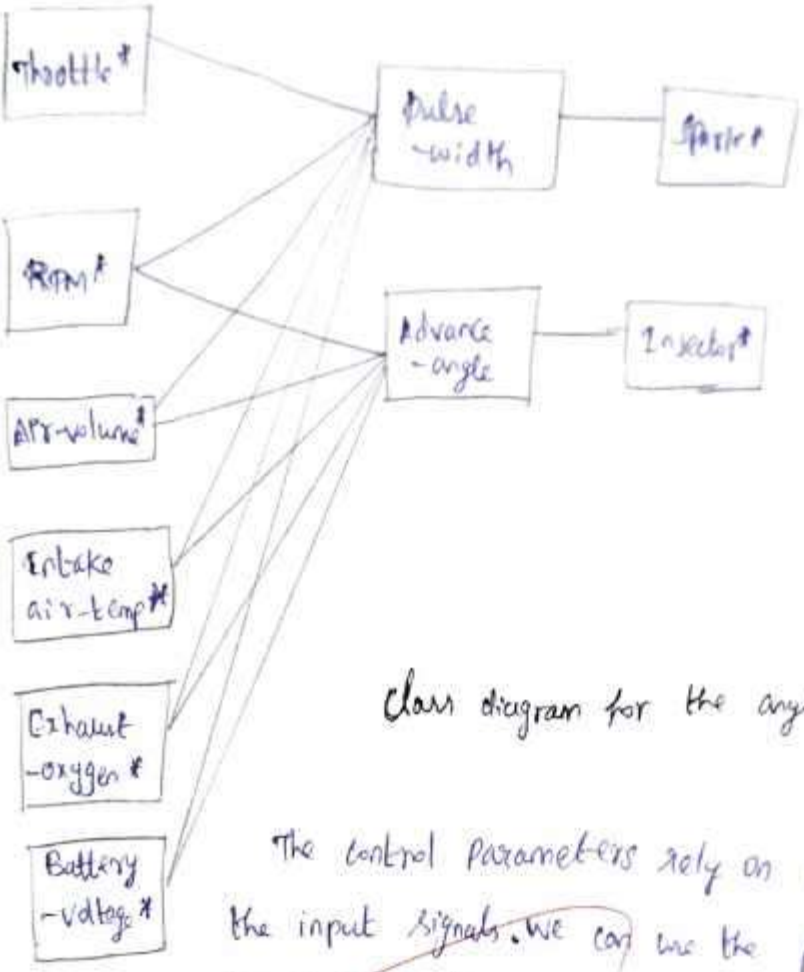
Engine Block diagram

Requirements:

Name	ECU
Purpose	Engine controller for fuel-injected engines
Inputs	Throttle, RPM, intake air volume, intake manifold pressure
Outputs	Injector pulse width, spark advance angle
Functions	Compute injector pulse width and spark advance angle as a function of throttle, RPM, intake air volume, intake manifold pressure

System Architecture

System Architecture includes two main process, Pulse width and advance angle, compute the control parameters for the spark plugs and injections



Class diagram for the angle controller

The control parameters rely on changes in some of the input signals. We can use the physical sensor classes to compute these values. Each change must be updated at the variables sampling rate. The update process is simplified by performing it in a task that runs at the required updated rate.

Video Accelerator:

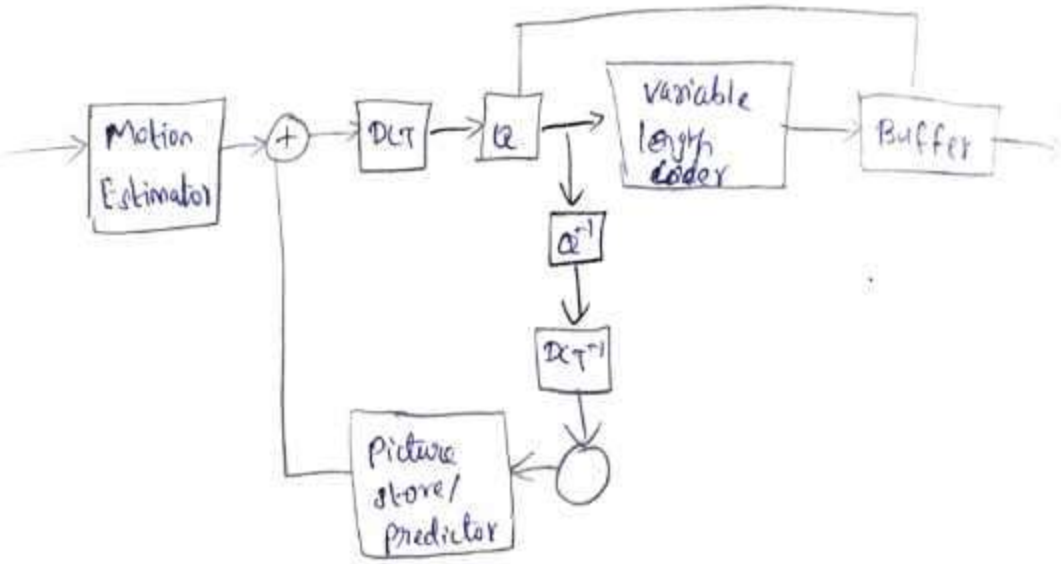
Video accelerator is a hardware circuits on a display adapter that speed up full motion video. Built into modern display adapters, the primary video accelerator functions are color space conversion, which converts YUV to RGB; Hardware scaling, which is used to enlarge the image to Full screen and double buffering, which moves the frames into the frame buffer faster.

Concept of Block motion Estimation:

the macro block at various offsets in the search area. We measure similarity using the following sum of differences measure

$$\sum_{1 \le i,\ j \le n} |M(i,j) - S(i-O_x, j-O_y)|$$

where $M(i,j)$ → intensity of the macro block at pixel i,j



$S(i,j)$ → intensity of search region

n → size of the macro block in one-dimension

$\langle O_x, O_y \rangle$ → offset between the macro block & search region

Algorithm & Requirements:

The C code for a single search, which assumes that the search region does not extend past the boundary of the frame.

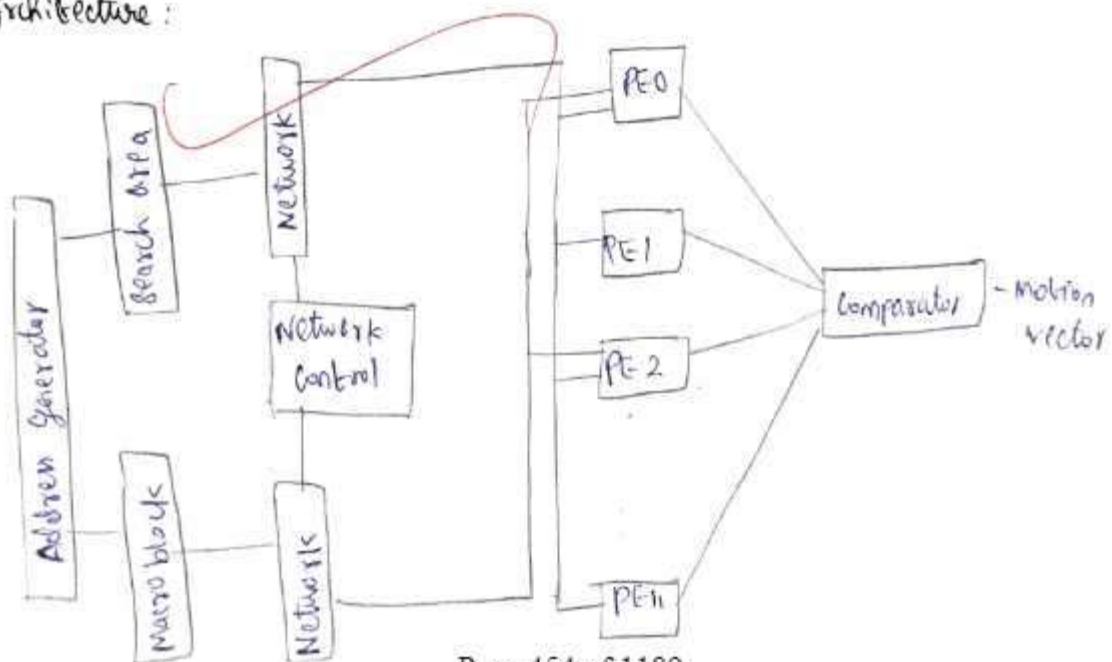
```
best x=0 ; best y=0;
best sad = MAXSAD;
for (Ox = -SEARCHSIZE; Ox < SEARCHSIZE; Ox++)
{
for (Oy = SEARCHSIZE; Oy < SEARCHSIZE; Oy++)
{ int result =0;
```

```
for(i=0;i<MBSIZE;i++)
{
for(j=0;j<MBSIZE;j++)
{
RESULT = result + iabs(mb[i][j] - search[i-0x+1x CENTER][j-0y+1 YCENTER]);
}
}
if (result <= bestsad)
{
bestsad = result;
best x = 0x;
best y = 0y;
}
```

REQUIREMENTS:

Name	Block motion Estimator
Purpose	Perform block motion estimation within a PC system
Inputs	Macro blocks and search areas
outputs	Motion vectors
Functions	Compute motion vectors using Full search algorithms.
performance	As fast as we can get
Manufacturing cost	Hundreds of dollars

Architecture:



the architecture for the accelerator requires some although because of the large amount of data required by the algorithm. The macro blocks has 16x16=256. The search area has $(8+8+(8+8)^2) = 1089$ pixels. The FPGA will not have to use a memory external to FPGA but on the accelerator board to hold pixels.

Component design:

The accelerator board will have its own driver that is responsible for talking to the board, how most of the data transfers are performed directly by the board using DMA, the driver can be relatively simple.

System testing:

Open source for JPEG encoders and decoders is available. These programs can be modified to read JPEG images and put out pixels in the format required by our accelerators.

SARANATHAN COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

ROOT CAUSE ANALYSIS

Academic Year:2022-23ODD Date:28/09/2022

Name of the Faculty: **Ms.B.Divya**	Course Code & Name:**EC8791 & EMBEDDED AND REAL TIME SYSTEMS**
Degree & Program:B.E/B.TECH(ECE)	Semester & Section: **7-B**
IA Test: Internal Assessment Test -1	University Exam Month & Year:**22-23ODD**
Target:90%	Achieved:95%

S.NO	BATCH NO	NAME OF THE STUDENT	CAUSES FOR FAILURE	CORRECTIVE ACTION TAKEN	PREVENTIVE ACTION TAKEN	FOLLOWUP STATUS	REMARKS OF THE HOD
1	222065	MANOJKUMAR. M	Not study well.	Remedial class.	Notes given	Home test 6	Be serious towards exams. Study regularly
2	222072	NISAGAR. S	Not feeling well			Slip test	
3	222083	RAMKUMAR. N	Didn't study.				

Signature of the Staff

Head of the Department

SARANATHAN COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

ROOT CAUSE ANALYSIS

Academic Year:2022-23ODD Date:02/11/2022

Name of the Faculty: **Ms.B.Divya**	Course Code & Name:**EC8791 & EMBEDDED AND REAL TIME SYSTEMS**
Degree & Program:B.E/B.TECH(ECE)	Semester & Section: **7-B**
IA Test: Internal Assessment Test -2	University Exam Month & Year:**22-23ODD**
Target:90%	Achieved:87%

S.NO	BATCH NO	NAME OF THE STUDENT	CAUSES FOR FAILURE	CORRECTIVE ACTION TAKEN	PREVENTIVE ACTION TAKEN	FOLLOWUP STATUS	REMARKS OF THE HOD
1	222063	MALAVIKA. M	no enough time to write				
2	222065	MANOJKUMAR. M	didnt study.		Home.	Asked to	Do
3	222072	NISAGAR. S	went out.	Remedial test	assignment & test	Report	Regular
4	222073	NITHIN RAJ. S	didnt study.	Conducted	Given	daily on Home	study
5	222083	RAMKUMAR. N	didnt study well.			study.	
6	222085	RENGANATHAN. A	not feeling well				
7	222095	SHYAM SUNDAR. B	didnt study				
8	222107	SRISUDHARSSAN. R	family func.				

Signature of the Staff

Head of the Department

SARANATHAN COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

ROOT CAUSE ANALYSIS

Academic Year:2022-23ODD Date:18/11/2022

Name of the Faculty: **Ms.B.Divya**	Course Code & Name:**EC8791 & EMBEDDED AND REAL TIME SYSTEMS**
Degree & Program:B.E/B.TECH(ECE)	Semester & Section: **7-B**
IA Test: Internal Assessment Test -3	University Exam Month & Year:**22-23ODD**
Target:90%	Achieved:93%

S.NO	BATCH NO	NAME OF THE STUDENT	CAUSES FOR FAILURE	CORRECTIVE ACTION TAKEN	PREVENTIVE ACTION TAKEN	FOLLOWUP STATUS	REMARKS OF THE HOD
1	222072	NISAGAR. S	Not Studied	Remedial & Assignment	Notes & important question given.	Enquired about the Study Status Regularly.	Prepare well. Do regular study & refer std. books.
2	222073	NITHIN RAJ. S	Not feeling well.				
3	222083	RAMKUMAR. N	went for func.				
4	222095	SHYAM SUNDAR. B	Didnt study				

Signature of the Staff

Head of the Department

SARANATHAN COLLEGE OF ENGINEERING

Tiruchirapalli - 620 012

60

ANSWER BOOK

Name	P. MEENATCHI			Year / Semester / Section	IV / VII / B
Batch No.	222066	Date / Session	12.10.2022 / FN	Department	ECE
Course Code	EC8791	Course Title	Embedded Systems		
Internal Assessment Test	I ☐	II ☒	III ☐	Model ☐	No. of pages used : 19
Name and Signature of the Invigilator with date	A. Barani Vijaya Kumar 12/10/22				

INSTRUCTIONS TO THE CANDIDATES :

1. Answers for Part-A must be written in pages 2-6. Answers for Part-B must be written from page 7 onwards.
2. Write your Batch Number in the Question Paper.
3. Use both sides of the paper for answering questions.
4. The answer book contains sufficient pages and no additional sheets will be given.
5. Possesion of any incriminating material and malpractice of any nature shall be punishable as per rules.
6. Answer must be legibly written in pen (blue or black colour)

Instruction to the student : Put tick mark to the question attended in the column against question.

Part A			Part B / C					Total Marks
Q. NO.	✔	Marks	Q. NO.	✔	(a) Marks	✔	(b) Marks	
1	✓	2	11	✓	9			9
2	✓	2	12					
3	✓	2	13					
4	✓	2	14	✓	5	✓	4	9
5	✓	2	15					
6	✓	2	16	✓	9			9
7	✓	2					Total	27
8	✓	2						
9	✓	2						
10	✓	2						
Total		20						

A7

Grand Total

B 12/10 B DIN47

Name and Signature of the Examiner with date

To be filled by the examiner

Course Outcomes	1	2	3	4	5	6	Total
Marks allotted	20	30					50
Marks Obtained	19	28					47

QAC Audit - Remarks

S. P. Jayanthi

S. Prasanna Priya

Name and Signature of the QAC member

EC3451 **LINEAR INTEGRATED CIRCUITS** L T P C
3 0 0 3

COURSE OBJECTIVES:

- To introduce the basic building blocks of linear integrated circuits
- To learn the linear and non-linear applications of operational amplifiers
- To introduce the theory and applications of analog multipliers and PLL
- To learn the theory of ADC and DAC
- To introduce the concepts of waveform generation and introduce some special function ICs

UNIT I BASICS OF OPERATIONAL AMPLIFIERS 9

Current mirror and current sources, Current sources as active loads, Voltage sources, Voltage References, BJT Differential amplifier with active loads, Basic information about op-amps – Ideal Operational Amplifier - General operational amplifier stages -and internal circuit diagrams of IC 741, DC and AC performance characteristics, slew rate, Open and closed loop configurations – MOSFET Operational Amplifiers – LF155 and TL082.

UNIT II APPLICATIONS OF OPERATIONAL AMPLIFIERS 9

Sign Changer, Scale Changer, Phase Shift Circuits, Voltage Follower, V-to-I and I-to-V converters, adder, subtractor, Instrumentation amplifier, Integrator, Differentiator, Logarithmic amplifier, Antilogarithmic amplifier, Comparators, Schmitt trigger, Precision rectifier, peak detector, clipper and clamper, Low-pass, high-pass and band-pass Butterworth filters.

UNIT III ANALOG MULTIPLIER AND PLL 9

Analog Multiplier using Emitter Coupled Transistor Pair - Gilbert Multiplier cell – Variable transconductance technique, analog multiplier ICs and their applications, Operation of the basic PLL, Closed loop analysis, Voltage controlled oscillator, Monolithic PLL IC 565, application of PLL for AM detection, FM detection, FSK modulation and demodulation and Frequency synthesizing and clock synchronization

UNIT IV ANALOG TO DIGITAL AND DIGITAL TO ANALOG CONVERTERS 9

Analog and Digital Data Conversions, D/A converter – specifications - weighted resistor type, R-2R Ladder type, Voltage Mode and Current-Mode *R - 2R* Ladder types - switches for D/A converters, high speed sample-and-hold circuits, A/D Converters – specifications - Flash type - Successive Approximation type - Single Slope type – Dual Slope type - A/D Converter using Voltage-to-Time Conversion - Over-sampling A/D Converters, Sigma – Delta converters.

UNIT V WAVEFORM GENERATORS AND SPECIAL FUNCTION ICS 9

Sine-wave generators, Multivibrators and Triangular wave generator, Saw-tooth wave generator, ICL8038 function generator, Timer IC 555, IC Voltage regulators – Three terminal fixed and adjustable voltage regulators - IC 723 general purpose regulator - Monolithic switching regulator, Low Drop – Out(LDO) Regulators - Switched capacitor filter IC MF10, Frequency to Voltage and Voltage to Frequency converters, Audio Power amplifier, Video Amplifier, Isolation Amplifier, Opto-couplers and fibre optic IC

COURSE OUTCOMES:

At the end of the course the students will be able to

CO1 : Analyze the basic building blocks, AC and DC characteristics of linear integrated circuits
CO2 : Design linear and nonlinear applications of OP – AMPS
CO3 : Design applications using analog multiplier and PLL
CO4 : Design ADC and DAC using OP – AMPS
CO5 : Generate waveforms using OP – AMP Circuits
CO6 : Analyze Special function ICs

TOTAL:45 PERIODS

TEXT BOOK

1. 1.D.Roy Choudhry, Shail Jain, "Linear Integrated Circuits", New Age International Pvt. Ltd.,
2018, Fifth Edition. (Unit I – V)
2. 2.Sergio Franco, "Design with Operational Amplifiers and Analog Integrated Circuits", 4th Edition, Tata Mc Graw-Hill, 2016 (Unit I – V)

REFERENCES

1. Ramakant A. Gayakwad, "OP-AMP and Linear ICs", 4th Edition, Prentice Hall / Pearson Education, 2015
2. Robert F.Coughlin, Frederick F.Driscoll, "Operational Amplifiers and Linear Integrated Circuits", Sixth Edition, PHI, 2001.
3. S.Salivahanan & V.S. Kanchana Bhaskaran, "Linear Integrated Circuits", TMH,2nd Edition, 4th Reprint, 2016.

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C212.1	2	2	2	2	2	2	-	-	-	-	2	2	2	2
C212.2	2	2	2	2	2	2	-	-	-	-	2	2	2	2
C212.3	2	2	2	2	2	2	-	-	-	-	2	2	2	2
C212.4	2	2	2	2	2	2	-	-	-	-	2	2	2	2
C212.5	2	2	2	2	2	2	-	-	-	-	2	2	2	2
C212.6	2	2	2	2	2	2	-	-	-	-	2	2	2	2
AVG	2	2	2	2	2	2	-	-	-	-	2	2	2	2

Course coordinator

HOD/ECE

SARANATHAN COLLEGE OF ENGINEERING, TRICHY
DEPARTMENT OF ECE
LESSON PLAN (FEB2023-MAY 2023)

Sub. Code / Sub. Name : EC3451-Linear Integrated Circuits
Year / Class / Sem: II ECE / IV sem
Staff Name: J.Eindhumathy, AP/ECE&Dr.M.Padmaa

UNIT I BASICS OF OPERATIONAL AMPLIFIERS 9

Current mirror and current sources, Current sources as active loads, Voltage sources, Voltage References, BJT Differential amplifier with active loads, Basic information about op-amps – Ideal Operational Amplifier - General operational amplifier stages -and internal circuit diagrams of IC 741,DC and AC performance characteristics, slew rate, Open and closed loop configurations – JFET Operational Amplifiers – LF155 and TL082.

Objective: To introduce the basic building blocks of linear integrated circuits.

S. No	Topics	No.Of Hours	Ref	Teaching Method
1	Introduction to Linear Integrated Circuits, Classification of ICs	1	1,2	PPT / BB
2	Current mirror and current sources- Basic circuit, Wilson Widler source	1	1,2	PPT/BB
3	Current sources as active loads, Differential amplifier with active loads	1	1,2	PPT/BB
4	Voltage sources- Impedance transformation type, Common collector type, Temperature compensated avalanche diode type, VBE reference type	1	1,2	PPT/BB
5	Voltage References-temperature compensation scheme, Avalanche diode bias, temperature compensated Avalanche diode	1	2,4	PPT/BB
6	Basic information about op-amps- symbol, package, power supply, manufacturer	1	2,4	PPT/BB
7	Ideal Operational Amplifier	1	1,2	PPT/BB
8	General operational amplifier stages- Differential amplifier, Buffer and level translator, output stage	2	2,3	PPT/BB
9	Internal circuit diagrams of IC 741	1	2,3	PPT/BB
10	DC characteristics- input bias current, input offset current, input offset voltage, thermal drift	1	2	PPT/BB
11	AC performance characteristics –frequency response, stability of op-amp, frequency compensation ,slew rate	1	2	PPT/BB
12	Open and closed loop configurations-inverting, non-inverting and differential amplifier	1	2	PPT/BB
13	JFET Operational Amplifiers – LF155 and TL082-symbol, circuit, features, application	1 Total-14	2	PPT/BB

UNIT II APPLICATIONS OF OPERATIONAL AMPLIFIERS 9

Sign Changer, Scale Changer, Phase Shift Circuits, Voltage Follower, V-to-I and I-to-V converters, adder, subtractor, Instrumentation amplifier, Integrator, Differentiator, Logarithmic amplifier, Antilogarithmic amplifier, Comparators, Schmitt trigger, Precision rectifier, Peak detector, clipper and clamper, Low-pass, high-pass and band-pass Butterworth filters.

Objective: The linear and non-linear applications of operational amplifiers

S. No	Topics	No.Of Hours	Ref	Teaching Method
1	Voltage follower, Sign Changer, Scale Changer, Phase Shift Circuits, all input & output waveform relationships	1	1,2,8	PPT / BB
2	V-to-I converters, I-to-V converters	1	1,2	PPT / BB
3	Adder ,Subtractor, Combined effect of adder and subtractor	1	1,2,7	PPT / BB
4	Instrumentation amplifier using a transducer stage	1	1,2,7	PPT / BB
5	Integrator and Practical Integrator, Differentiator and Practical Differentiator	2	1,2,5,10	PPT / BB
6	Comparators and various applications of Comparators	1	1,2,5	PPT / BB
7	Schmitt trigger	1	2	PPT / BB
8	Logarithmic amplifier, Antilogarithmic amplifier	1	1,2,5	PPT / BB
9	Precision rectifiers-half and full wave rectifier, Peak detector, Clippers and clamper	1	1,2,10	PPT / BB
10	Introduction & types of active filters, Low pass filters Butterworth filters, High-pass and Band-pass Butterworth filters	2 Total-12	1,2,5	PPT / BB

UNIT III ANALOG MULTIPLIER AND PLL 9

Analog Multiplier using Emitter Coupled Transistor Pair – Gilbert Multiplier cell – Variable transconductance technique, analog multiplier Ics and their applications, Operation of the basic PLL, Closed loop analysis, Voltage Controlled Oscillator, Monolithic PLL IC 565, application of PLL for AM detection, FM detection, FSK modulation and demodulation and Frequency synthesizing and clock synchronization.

Objective: To introduce the theory and applications of analog multipliers and concept of PLL and its applications.

S. No	Topics	No.Of Hours	Ref	Teaching Method
1	Analog Multiplier using Emitter Coupled Transistor Pair	1	1,2	PPT
2	Gilbert Multiplier cell – Variable transconductance technique	1	1,2	PPT
3	Analog multiplier Ics and their applications	1	2,5	PPT
4	Introduction to PLL, Different blocks of a PLL, IC Operation of PLL	1	2,5,9	PPT
5	Types of Phase Detector, Voltage Controlled Oscillator	1	2,5,9	PPT
6	Derivation of Lock-in-range and Capture range, Closed loop analysis,IC565	1	2,5,9	PPT
7	Various applications of PLL-FM detector, AM detection, FSK modulation and demodulation	1	9	PPT
8	Frequency synthesizing	1	2,9	PPT
9	Clock synchronization	1 Total-9	9	PPT

UNIT IV ANALOG TO DIGITAL AND DIGITAL TO ANALOG CONVERTERS 9

Analog and Digital Data Conversions, D/A converter – specifications – weighted resistor type, R-2R Ladder type, Voltage Mode and Current-Mode R 2R Ladder types – switches for D/A converters, high speed sample-and-hold circuits, A/D Converters – specifications – Flash type – Successive Approximation type – Single Slope type – Dual Slope type – A/D Converter using Voltage-to-Time Conversion - Over-sampling A/D Converters, Sigma-Delta converters.

Objective: To introduce the concept of converters with respect to Digital &analog signals and various types of Analog to Digital and Digital to Analog converters

S. No	Topics	No.Of Hours	Ref	Teaching Method
1	Introduction to analog& digital data converters and the need for the same. Different types of switches & resistances used for the same	1	2,5	PPT
2	Specifications of D/A converters, 4 bit Weighted resistor type of D/A converter	1	2,5	PPT
3	R-2R ladder type of D/A converter, Voltage & Current mode R -2R ladder types	1	2,5	PPT
4	High speed sample-and-hold circuits	1	2	PPT
5	A/D converters, Specifications, Types of A/D converters	1	2,3	PPT
6	Flash type converter, Successive Approximation type converter	1	2,3,10	PPT
7	A/D Converter using Voltage-to-Time Conversion	1	2,3	PPT
8	Single Slope type and Dual Slope type A/D Converter	1	2,3	PPT
9	Oversampling A/D converters, Sigma-Delta converters	1 Total-9	1,5	PPT

UNIT V WAVEFORM GENERATORS AND SPECIAL FUNCTION Ics **9**

Sine-wave generators, Multivibrators and Triangular wave generator, Saw-tooth wave generator, ICL8038 function generator, Timer IC 555, IC Voltage regulators – Three terminal fixed and adjustable voltage regulators – IC 723 general purpose regulator – Monolithic switching regulator, Switched capacitor filter IC MF10, Frequency to Voltage and Voltage to Frequency converters, Audio Power amplifier, Video Amplifier, Isolation Amplifier, Opto-couplers and fibre optic IC

Objective: To introduce the concepts of waveform generation and introduce some special function Ics.

S. No	Topics	No.Of Hours	Ref	Teaching Method
1	Sine wave generators/oscillator circuits using diodes & transistors along with op-amps	1	2,6	PPT
2	Introduction to Timer IC555- circuit aspect	1	2,10	PPT
3	Introduction & types of Multivibrators-Astablemultivibrator, Monostablemultivibrator	1	2,6	PPT
4	Triangular wave generator, Saw-tooth wave generator	1	2,6	PPT
5	ICL8038 function generator	1	2,5	PPT
6	IC Voltage regulators – Three terminal fixed and adjustable voltage regulators, IC 723 general purpose regulator	1	2,5	PPT
7	Monolithic switching regulator	1	2,5	PPT
8	Switched capacitor filter IC MF10,Frequency to Voltage and Voltage to Frequency converters	1	2,5	PPT
9	Audio and Video amplifier IC, Isolation Amplifier, Opto-couplers and fibre optic IC	1 Total-9	2,5	PPT

Total Periods-**53**

Content beyond syllabus (CBS): 3D INTEGRATED CIRCUITS.

REFERENCES:

1. Sergio Franco, "Design with operational amplifiers and analog integrated circuits", 3rd Edition, Tata McGraw-Hill, 2007.
2. D.RoyChoudhry, Shail Jain, "Linear Integrated Circuits", New Age International Pvt. Ltd., 2000.
3. B.S.Sonde, "System design using Integrated Circuits" , New Age Pub, 2nd Edition, 2001.
4. Gray and Meyer, "Analysis and Design of Analog Integrated Circuits", Wiley International, 2005.
5. RamakantA.Gayakwad, "OP-AMP and Linear ICs", Prentice Hall / Pearson Education, 4thEdition, 2001.
6. Michael Jacob, "Applications and Design with Analog Integrated Circuits", Prentice Hall of India, 1996
7. William D.Stanley, "Operational Amplifiers with Linear Integrated Circuits", Pearson Education, 2004.
8. K Lal Kishore, "Operational Amplifier and Linear Integrated Circuits", Pearson Education, 2006.
9. S.Salivahanan& V.S. KanchanaBhaskaran," Linear Integrated Circuits", TMH, 2008.
10. www.nptel.com

Course Outcomes

C212.1	Analyze the basic building blocks, AC and DC characteristics of linear integrated circuits.
C212.2	Design linear and non linear applications of OP – AMPS
C212.3	Design applications using analog multiplier and PLL
C212.4	Design ADC and DAC using OP – AMPS
C212.5	Generate waveforms using OP – AMP Circuits
C212.6	Analyze special function ICs

Staff in Charge

HOD/ECE

SARANATHAN COLLEGE OF ENGINEERING

DEPARTMENT OF ECE

SCE/ECE/Course committee meeting /LIC/2022-2023(EVEN) DATE: 30.01.2023

COURSE COMMITTEE MEETING – EC3451 - Linear Integrated Circuits

ACADEMIC YEAR: 2022-2023(EVEN) **SEM:** 04 **REGULATION:** 2021
PROGRAM: ECE **DATE OF MEETING:** 30.01.2023 **TIME:** 12.15 PM
Venue: ECE Dept. MICROWAVE LAB

Members Present

Table.1 Course committee members

S.No.	Name of the faculty & Designation, Program	Sem/Sec/Program	Signature
1.	DR.M.SANTHI, HOD/ECE	-	
2.	MS.J.EINDHUMATHY AP/ECE	IV SEM/A/ ECE	
3.	DR.M.PADMAA PROF/ECE	IV SEM/B/ ECE	

HOD welcomed all the members present

1. Content of syllabus, unit wise discussed. Nature of qualitative, quantitative, problematic, theoretical concepts etc. have been discussed
2. With reference to the R-2021 regulation, Number of periods per unit = 9, total number of periods =45 periods.
3. Vision and mission of the college, department discussed. POs, PEOs, PSOs discussed.
4. Course outcomes defined for each unit, considering learning outcomes.

Table.2 Course Outcomes

C212.1	**Analyze the basic building blocks, AC and DC characteristics of linear integrated circuits**
C212.2	**Design linear and non linear applications of OP – AMPS**
C212.3	**Design applications using analog multiplier and PLL**
C212.4	**Design ADC and DAC using OP – AMPS**
C212.5	**Generate waveforms using OP – AMP Circuits**
C212.6	**Analyze special function ICs**

5. Mapping of COs with POs and PSOs is done with suitable correlation levels(1 for low, 2 for medium, 3 for high,"-" for no correlation, before content beyond syllabus)

Table.3 Mapping of COs with POs & PSOs - before CBS.

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C212.1	2	2	2	2	2	2	-	-	-	-	2	2	2	2
C212.2	2	2	2	2	2	2	-	-	-	-	2	2	2	2
C212.3	2	2	2	2	2	2	-	-	-	-	2	2	2	2
C212.4	2	2	2	2	2	2	-	-	-	-	2	2	2	2
C212.5	2	2	2	2	2	2	-	-	-	-	2	2	2	2
C212.6	2	2	2	2	2	2	-	-	-	-	2	2	2	2
AVG	2	2	2	2	2	2	-	-	-	-	2	2	2	2

6. Identification of content beyond syllabus- curricular gaps are identified considering industry needs, employers feedback, alumni feedback, government policy on industrialization, new investments by private/ public sectors, societal needs and level of correlation of COs with POs and PSOs. Accordingly the details of CBS added and its correlation is given below.

Table.4 Identification of content beyond syllabus

Details of Content Beyond Syllabus(CBS) added	POs strengthened/ vacant filled	CO / Unit
3D INTEGRATED CIRCUITS	PO6(3) Strengthened	C212.1 / I

7. Mapping of COs with POs, PSOs- after CBS.

Table.5 Mapping of COs with POs & PSOs - after CBS.

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO
C212.1	2	2	2	2	2	3*	-	-	-	-	2	2	2	2
C212.2	2	2	2	2	2	2	-	-	-	-	2	2	2	2
C212.3	2	2	2	2	2	2	-	-	-	-	2	2	2	2
C212.4	2	2	2	2	2	2	-	-	-	-	2	2	2	2
C212.5	2	2	2	2	2	2	-	-	-	-	2	2	2	2
C212.6	2	2	2	2	2	2	-	-	-	-	2	2	2	2
AVG	2	2	2	2	2	2.17*	-	-	-	-	2	2	2	2

PO6 STRENGTHENED TO LEVEL 3

8. Content beyond syllabus is thus identified based on the above. Plan for handling of CBS by internal/external resource person/ industrial visits are decided. This will be included in the class log book.
9. Lecture schedule should be prepared unit wise, as in the syllabus. Number of periods per unit and total number of periods planned should not be less than, periods allotted in the syllabus of Anna University.
10. Plan for additional Periods for IA tests, CBS, NPTEL delivery, Seminar, Quiz etc are to be incorporated in the lecture schedule. These periods are added exclusive of number of periods prescribed in the syllabus.
11. Plan for at least three assignments (with level of correlation), seminar topic, quiz questions discussed.
12. Bright students and slow learners are to be identified, immediately after IA test - I. such students may be counselled suitably and the evidence for counselling to be recorded in the attendance cum assessment record. (Sign of students with date and time of counselling, to be strictly recorded and to be attached in the course file). Such counseling may be conducted after college hours.
13. For those students secured less than 60% in the IA Test, Makeup test should be conducted. Correspondingly root cause analysis for reasons of failure, corrective and preventive action, and follow up action taken should be filed properly.
14. Contents of course file to be reviewed periodically.
15. Lecture schedule, assignment questions, course materials, AU questions (at least 5) should be supplied within one week after the commencement of classes.
16. Course material should be uploaded in the college website for student's reference.
17. Discrepancy in question paper, if any to be informed to the controller of examinations through web portal entry, after getting approval from the HoD& the Principal. Critically asked questions, if any to be discussed with the students of the next batch.
18. Immediately after the publication of the results, analysis is to be carried out and follow up action to be taken for the failures.
19. IA test question papers should be set as per the norms of the college, incorporating marks for learning outcomes and course outcomes. Common question papers should be set.
20. Certificate courses/Workshop/guest lectures may be planned inviting experts from industry/higher learning institutions.
21. After IA test, an objective type tests may be conducted (3 times in a semester-30 minutes duration-maximum 10 questions). Questions asked in GATE, TANCET, IES or any other Competitive examination can be taken as a reference. This is to facilitate the bright students to prepare for higher level of thinking and to enhance placement and higher studies opportunities.
22. IA test papers, assignment papers or any other papers submitted by the students should be returned to the students within 5 days after correction. Sample paper should be suitably filed.
23. Long absentees of students if any to be informed to the parents through class coordinator, if such students attendance less than 75%.

Course coordinator

7/2/23

HOD/ECE

SARANATHAN COLLEGE OF ENGINEERING
(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Identification of curricular gap &Content Beyond Syllabus(CBS)

Name of the Faculty : MS.J.EINDHUMATHY / DR.M.PADMAA
Course Code & Name: EC3451 LINEAR INTEGRATED CIRCUITS
Degree & Program : B.E. / ECE Semester & Section : IV / A & B

I.Mapping of Course Outcomes with POs & PSOs.(before CBS)

Table.1 Mapping of COs with Pos& PSOs - before CBS.

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C212.1	2	2	2	2	2	2	-	-	-	-	2	2	2	2
C212.2	2	2	2	2	2	2	-	-	-	-	2	2	2	2
C212.3	2	2	2	2	2	2	-	-	-	-	2	2	2	2
C212.4	2	2	2	2	2	2	-	-	-	-	2	2	2	2
C212.5	2	2	2	2	2	2	-	-	-	-	2	2	2	2
C212.6	2	2	2	2	2	2	-	-	-	-	2	2	2	2
C212	2	2	2	2	2	2	-	-	-	-	2	2	2	2

II. Identification of content beyond syllabus.

Table.2 Identification of content beyond syllabus

Details of Content Beyond Syllabus(CBS) added	POs strengthened/ vacant filled	CO/Unit
3D INTEGRATED CIRCUITS	PO6(3) Strengthened	C212.1/ I

III. Mapping of Course Outcomes with POs & PSOs. (After CBS)

Table.3 Mapping of COs with Pos& PSOs- after CBS.

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C212.1	2	2	2	2	2	3*	-	-	-	-	2	2	2	2
C212.2	2	2	2	2	2	2	-	-	-	-	2	2	2	2
C212.3	2	2	2	2	2	2	-	-	-	-	2	2	2	2
C212.4	2	2	2	2	2	2	-	-	-	-	2	2	2	2
C212.5	2	2	2	2	2	2	-	-	-	-	2	2	2	2
C212.6	2	2	2	2	2	2	-	-	-	-	2	2	2	2
AVG	2	2	2	2	2	2.17*	-	-	-	-	2	2	2	2

Signature of the Faculty

HOD/ECE

SARANATHAN COLLEGE OF ENGINEERING
TIRUCHIRAPALLI
DEPARTMENT OF ECE

CIRCULAR

27.01.2023

Course committee meeting for IV semester ECE subject Linear Integrated Circuits will be held on 30-01-2023 between 12.15 pm and 12.30 pm at Microwave lab. The committee members are requested to attend the meeting. They are requested to bring their subject syllabus.

AGENDA

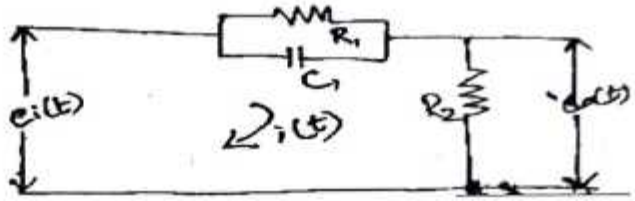
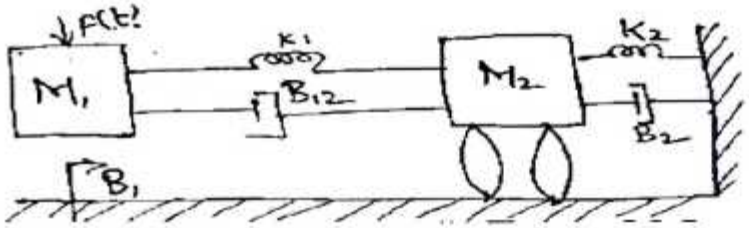
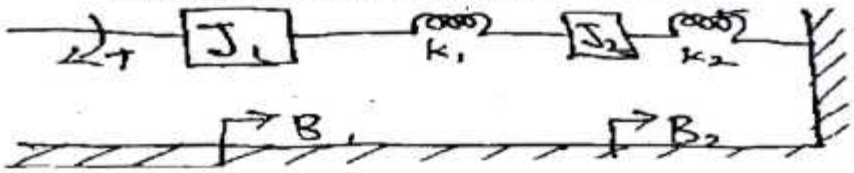
1. Discussion about Content of syllabus
2. Availability of books in the library
3. CO framing
4. Content beyond syllabus (CBS) - curricular gaps

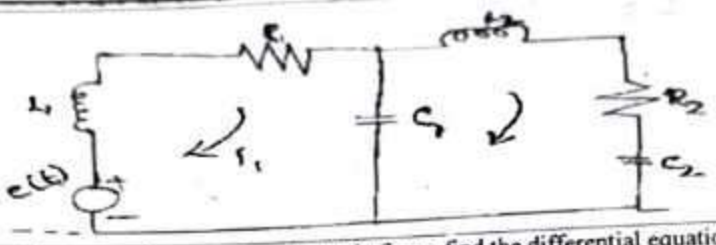
Course committee members

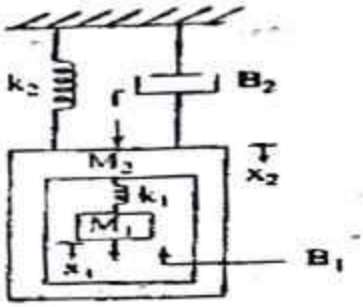
S.No.	Name of the faculty & Designation, Program	Sem/Sec/Program	Signature
1.	MS.J.EINDHUMATHY AP/ECE	IV SEM/A/ ECE	
2.	DR.M.PADMAA PROF/ECE	IV SEM/B/ ECE	

HOD / ECE

Assignment – 01			Dateof Issue:	27.08.2022	Marks	10
Course code	EC 3351	Course Title	CONTROL SYSTEMS			
Year	II	Semester/Section	III /B	Dateof Submission:	02.09.2022	

Q.No	Questions	CO
1	**Obtain the transfer function of the lead network shown.** 	CO205.1
2	Write the differential equations governing the mechanical system. Find Transfer function. Convert to force-voltage, force-current analogy 	CO205.1
3	Write the differential equations governing the mechanical rotational system shown. Find Transfer function. Convert to Torque-voltage, Torque -current analogy 	CO205.1
4	OBTAIN THE TRANSFER FUNCTION	CO205.1



5	For the spring, damper and mass system shown in figure find the differential equations and transfer function governing the system. Convert to force-voltage, force-current analogy 	CO205.1

Name and Signature of the Faculty
J. EINDHUMATHY

HoD/ECE

NAME : MUTHULAKSHMI

B.E. ECE

"B" sec

BATCH NO: 242075

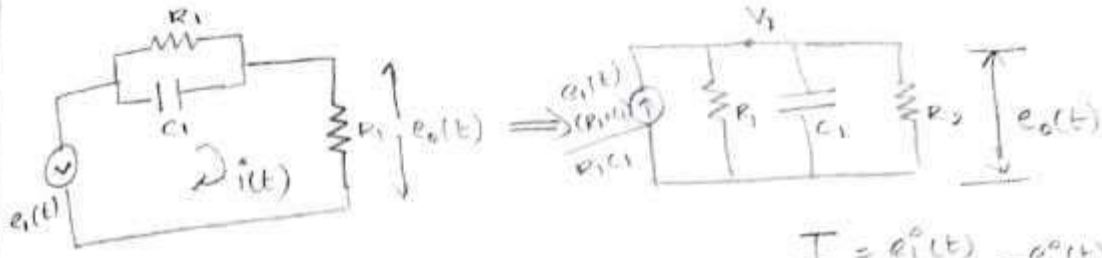
CONTROL SYSTEMS

ASSIGNMENT - I

Content - 6
Submission - 2
presentation - 1
9

Am
2/9/m

1)



$$I = \frac{e_i(t)}{\frac{R_1C_1}{R_1+C_1}} = \frac{e_i(t)(R_1+C_1)}{R_1C_1}$$

@ node V_1 :-

$$\frac{V_1}{R_1} + \frac{V_1}{R_2} + C_1\frac{dv_1}{dt} = \frac{e_i(t)(R_1+C_1)}{R_1C_1}$$

$$\frac{V_1(s)}{R_1} + \frac{V_1(s)}{R} + C_1sV_1(s) = \frac{e_i(s)(R_1+C_1)}{R_1C_1}$$

$$V_1(s)\left(\frac{1}{R_1}+\frac{1}{R_2}+C_1s\right) = e_i(s)\left(\frac{R_1+C_1}{R_1C_1}\right)$$

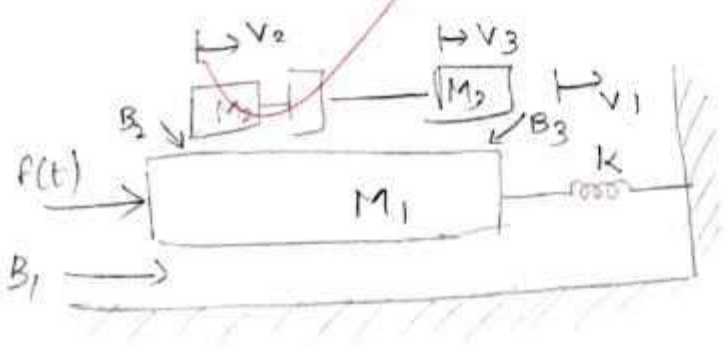
$$\frac{e_o(s)}{e_i(s)} = \frac{\frac{R_1+C_1}{R_1C_1}}{\frac{1}{R_1}+\frac{1}{R_2}+C_1s}$$

$$= \frac{R_1+C_1}{R_1C_1\left(\frac{R_2+R_1+C_1+sR_1R_2}{R_1R_2}\right)} = \frac{R_2(R_1+C_1)}{C_1(R_2+R_1+R_1R_2C_1s)}$$

$$\frac{e_o(s)}{e_i(s)} = \frac{R_2(R_1+C_1)}{C_1(R_1+R_2+R_1R_2C_1s)}$$

---

2)



@ node 1 :



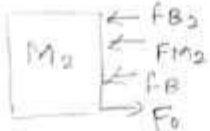
$f(t) = F_{m_1} + F_K + F_{B_1} + F_{B_2} + F_{B_3}$

$f(t) = m_1\frac{d^2x_1}{dt^2} + kx_1 + B_1\frac{dx_1}{dt} + B_2\frac{dx_1 - x_2}{dt} + B_3\frac{dx_1 - x_3}{dt}$

$f(t) = M_1\frac{dv_1}{dt} + k\int v_1 dt + B_1v_1 + B_2v_1 - B_2v_2 + B_3v_1 - B_3v_3$

$F(s) = M_1sV_1(s) + \frac{k}{s}x_1(s) + B_1V_1(s) + B_2V_1(s) - B_2V_2(s) + B_3V_1(s) - B_3V_3(s)$

@ node 2 :



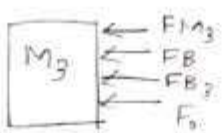
$0 = F_{B_2} + F_{m_2} - F_B$

$0 = B_2\frac{dx_2 - dx_1}{dt} + M_2\frac{d^2x_2}{dt^2} + B\frac{dx_2 - x_3}{dt}$

$0 = B_2v_2 - B_2v_1 + m_2\frac{dv_2}{dt} + Bv_2 - Bv_3$ ②

$0 = B_2V_2(s) - B_2V_1(s) + M_2sV_2(s) + BV_2(s) - BV_3(s)$

@ node 3



$0 = F_{m_3} + F_B + F_{B_3}$

$0 = M_3\frac{d^2x_3}{dt^2} + B\frac{d(x_3 - x_2)}{dt} + B_3\frac{d(x_3 - x_1)}{dt}$

$0 = M_3\frac{dv_3}{dt} + B(v_3 - v_2) + B_3v_3 - B_3v_1$ ③

$0 = M_3sV_3(s) + BV_3(s) - BV_2(s) + B_3V_3(s) - B_3V_1(s)$

F-V :

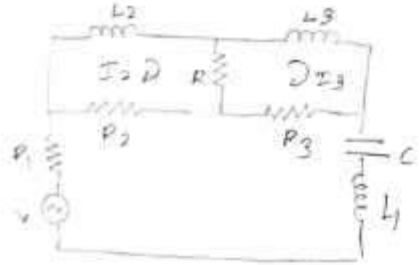
M - L

B = R

K = $\frac{1}{C}$

f(t) = V

V = I

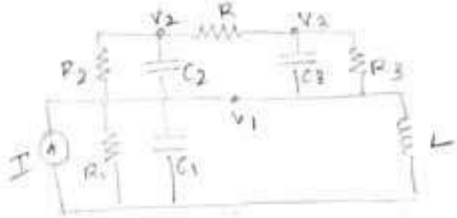


① $\Rightarrow V = L_1\frac{dx_1}{dt} + \frac{1}{C}\int I_1 dt + R_1I_1 + R_2I_1 - R_2I_2 + R_3I_1 - R_3I_3$

② $\Rightarrow 0 = R_2I_2 - R_2I_1 + C_1\frac{dI_2}{dt} + RI_2 - RI_3$

③ $\Rightarrow 0 = L_3\frac{dI_3}{dt} + RI_3 - RI_2 + R_3I_3 - R_3I_1$

F-I :



M = C

B = $\frac{1}{R}$

K = $\frac{1}{L}$

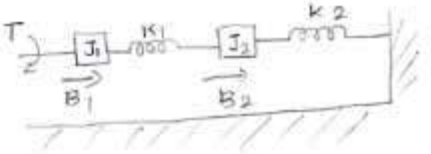
V = V

F(t) = I ① $\Rightarrow I = C_1\frac{dv_1}{dt} + \frac{1}{L}\int v_1 dt + \frac{v_1}{R_1} - \frac{v_2}{R_2} + \frac{v_1}{R_2} + \frac{v_1}{R_3} - \frac{v_3}{R_3}$

② $\Rightarrow 0 = \frac{v_2}{R_2} - \frac{v_1}{R_2} + C_1\frac{dv_2}{dt} + \frac{v_2}{R} - \frac{v_3}{R}$

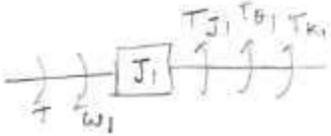
③ $\Rightarrow 0 = C_3\frac{dv_3}{dt} + \frac{v_3}{R} - \frac{v_2}{R} + \frac{v_3}{R_3} - \frac{v_1}{R_3}$

3) no. of node = 2



@ node 1 :

$T = T_{J_1} + T_{B_1} + T_{K_1}$



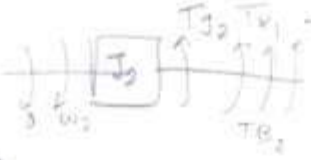
$T = J_1\frac{d^2\theta_1}{dt^2} + B_1\frac{d\theta_1}{dt} + k_1(\theta_1 - \theta_2)$

$T = J_1\frac{d\omega_1}{dt} + B_1\omega_1 + k_1\int\omega_1 - \omega_2 dt$ ①

$T(s) = J_1s\omega_1(s) + B_1\omega_1(s) + \frac{k_1}{s}\omega_1(s) - \frac{k_1}{s}\omega_2(s)$

$\omega_1(s) = \frac{\frac{k_1}{s}\omega_2(s) + T(s)}{J_1s + B_1 + \frac{k_1}{s}}$ ②

@ node 2 :



$$0 = T_{K_1} + T_{K_2} + T_{J_2} + T_{B_2}$$

$$0 = k_1(\theta_2 - \theta_1) + k_2\theta_2 + J_2\frac{d^2\theta}{dt^2} + B_2\frac{d\theta_2}{dt}$$

$$0 = k_1\int(\omega_2 - \omega_1)dt + k_2\int\omega_2 dt + J_2\frac{d\omega_2}{dt} + B_2\omega_2 \quad \text{— (2)}$$

$$0 = \frac{k_1}{s}\omega_2(s) - \frac{k_1}{s}\omega_1(s) + \frac{k_2}{s}\omega_2(s) + B_2\omega_2(s) + J_2 s\omega_2(s)$$

$$\frac{k_1}{s}\omega_1(s) = \omega_2(s)\left[\frac{k_1}{s} + \frac{k_2}{s} + B_2 + J_2 s\right] \quad \text{— (4)}$$

(3) in (4)

$$\frac{k_1}{s}\left(\frac{\frac{k_1}{s}\omega_2(s) + T(s)}{J_1 s + B_1 + \frac{k_1}{s}}\right) = \omega_2(s)\left(\frac{k_1}{s} + \frac{k_2}{s} + B_2 + J_2 s\right)$$

$$\frac{\left(\frac{k_1}{s}\right)^2\omega_2(s) + T(s)\frac{k_1}{s}}{J_1 s + B_1 + \frac{k_1}{s}} = \omega_2(s)\left(\frac{k_1}{s} + \frac{k_2}{s} + B_2 + J_2 s\right)$$

$$\frac{T(s)\frac{k_1}{s}}{J_1 s + B_1 + \frac{k_1}{s}} = \omega_2(s)\left(\frac{k_1}{s} + \frac{k_2}{s} + B_2 + J_2 s\right) - \frac{\left(\frac{k_1}{s}\right)^2\omega_2(s)}{J_1 s + B_1 + \frac{k_1}{s}}$$

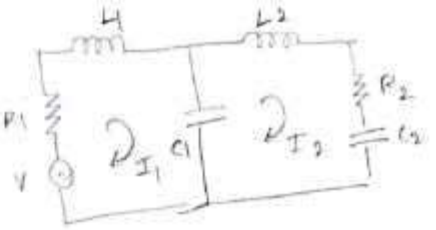
$$T(s)\left(\frac{\frac{k_1}{s}}{J_1 s + B_1 + \frac{k_1}{s}}\right) = \omega_2(s)\left[\frac{k_1}{s} + \frac{k_2}{s} + B_2 + J_2 s - \frac{\left(\frac{k_1}{s}\right)^2}{J_1 s + B_1 + \frac{k_1}{s}}\right]$$

$$\frac{\omega_2(s)}{T(s)} = \frac{\frac{k_1}{s}}{\left(J_1 s + B_1 + \frac{k_1}{s}\right)\left(\frac{k_1}{s} + \frac{k_2}{s} + B_2 + J_2 s\right) - \left(\frac{k_1}{s}\right)^2}$$

$$\frac{\omega_2(s)}{T(s)} = \frac{k_1/s}{\left(J_2 s + B_1 + \frac{k_1}{s}\right)\left(\frac{k_1}{s} + \frac{k_2}{s} + B_2 J_2 s\right) - \left(\frac{k_1}{s}\right)^2}$$

T-V :

T - V
J - L
K = 1/C
B = R
ω = I

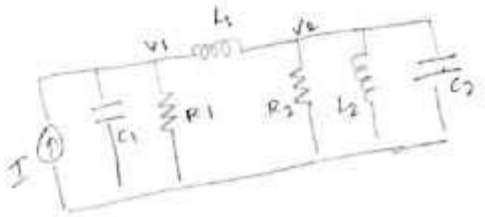


$$\text{①} \Rightarrow V = L_1\frac{dI_1}{dt} + R_1 I_1 + \frac{1}{C_1}\int I_1 - I_2 dt$$

$$\text{③} \Rightarrow 0 = \frac{1}{C_1}\int I_2 - I_1 dt + \frac{1}{C_2}\int I_2 dt + L_1\frac{dI_2}{dt} + R_2 I_2$$

T - I :

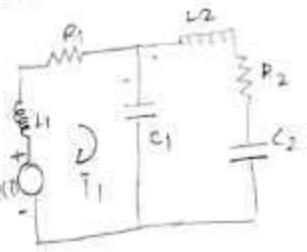
T = I
J = C
K = 1/C
B = 1/R
ω = V



$$\text{①} \Rightarrow I = C_1\frac{dv_1}{dt} + \frac{1}{R_1}v_1 + \frac{1}{L_1}\int v_1 - v_2\,dt$$

$$\text{③} \Rightarrow 0 = \frac{1}{L_1}\int v_2 - v_1\,dt + \frac{1}{L_2}\int v_2 dt + C_1\frac{dv_2}{dt} + \frac{1}{R_1}v_2$$

4) @ loop 1



$$L_1\frac{di_1}{dt} + Ri_1 - \frac{1}{C_1}\int i_2 dt + \frac{1}{C_1}\int i_1 dt = e(t)$$

$$L_1 s i_1(s) + R i_1(s) + \frac{i_1(s)}{C_1(s)} - \frac{i_2(s)}{C_1(s)} = e(s)$$

$$i_1(s)\left(L_1 s + R_1 + \frac{1}{C_1 s}\right) = e(s) + \frac{i_2(s)}{C_1(s)}$$

$$i_1(s) = \frac{e(s) + \left(i_2(s)/C_1 s\right)}{L_1 s + R_1 + \frac{1}{C_1 s}}$$

$$i_1(s) = \frac{e(s)C_1 s + i_2(s)}{C_1 s\left(L_1 s + R_1 + \frac{1}{C_1 s}\right)} \quad \text{— (1)}$$

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@ loop 2:

$$\frac{1}{C_1}\int i_2\,dt + L_2\frac{di_2}{dt} + R_2 i_2 + \frac{1}{C_2}\int i_2\,dt - \frac{1}{C_1}\int i_1\,dt = 0$$

$$L_2 s I_2(s) + R_2 I_2(s) + \frac{1}{C_2 s} I_2(s) + \frac{I_2(s)}{C_1 s} - \frac{I_1(s)}{C_1 s} = 0$$

$$I_2(s)\left(L_2 s + R_2 + \frac{1}{C_2 s} + \frac{1}{C_1 s}\right) - \left(\frac{I_1(s)}{C_1(s)}\right) = 0 \quad -(2)$$

(1) in (2)

$$I_2(s)\left(L_2 s + R_2 + \frac{1}{C_2 s} + \frac{1}{C_1 s}\right) - \frac{E(s)C_1 s + I_2(s)}{C_1 s^2\left(L_1 s + R_1 + \frac{1}{C_1 s}\right)} \quad -(3)$$

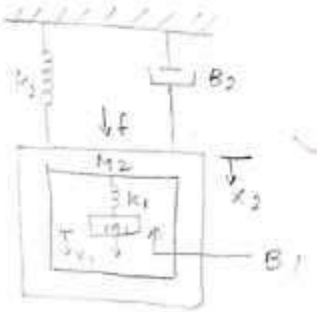
$$I_2(s)\left[\left(L_2 s + R_2 + \frac{1}{C_1 s} + \frac{1}{C_2 s}\right) - \frac{1}{C_1 s^2\left(L_1 s + R_1 + \frac{1}{C_1 s}\right)}\right] = 0$$

$$\frac{I_2(s)}{E(s)} = \frac{C_1 s}{C_1 s^2\left(L_1 s + R_1 + \frac{1}{C_1 s}\right)\left[L_2 s + R_2 + \frac{1}{C_1 s} + \frac{1}{C_2 s} - \frac{1}{C_1 s^2\left(L_1 s + R_1 + \frac{1}{C_1 s}\right)}\right]}$$

$$= \frac{C_1 s}{C_1 s^2\left(L_1 s + R_1 + \frac{1}{C_1 s}\right)\left[\frac{C_1 s^2\left(L_1 s + R_1 + \frac{1}{C_1 s}\right)\left(L_2 s + R_2 + \frac{1}{C_1 s} + \frac{1}{C_2 s}\right) - 1}{C_1 s^2\left(L_1 s + R_1 + \frac{1}{C_1 s}\right)}\right]}$$

$$\frac{I_2(s)}{E(s)} = \frac{C_1 s}{\left(C_1 s^2\left(L_1 s + R_1 + \frac{1}{C_1 s}\right)\left(L_2 s + R_2 + \frac{1}{C_1 s} + \frac{1}{C_2 s}\right) - 1\right)}$$

5)



no. of nodes : 2

@ node 1:



$$0 = F_{M1} + F_{B1} + F_{K1}$$

$$0 = M_1\frac{d^2x_1}{dt^2} + B_1\frac{dx_1 - dx_2}{dt} + k(x_1 - x_2)$$

$$0 = M_1\frac{dv_1}{dt} + B_1 v_1 - B_1 v_2 + k\int v_1 - v_2\,dt \quad -(1)$$

$$0 = M_1 s V_1(s) + B_1 V_1(s) - B_1 V_2(s) + \frac{k}{s}V_1(s) - \frac{k_1}{s}V_2(s)$$

$$0 = V_1(s)\left\{M_1 s + B_1 + \frac{k_1}{s}\right\} - V_2(s)\left[B_1 + \frac{k_1}{s}\right]$$

$$V_1(s) = \frac{V_2(s)\left(B_1 + \frac{k_1}{s}\right)}{M_1 s + B_1 + \frac{k_1}{s}} \quad -(2)$$

@ node 2:



$$f = f_{M2} + F_{K1} + f_{K2} + f_{B1} + f_{B2}$$

$$f = M_2\frac{dx_2^2}{dt} + k_1(x_2 - x_1) + k_2 x_2 + B_1\frac{dx_2}{dt} - x_1 + B_2\frac{dx_2}{dt}$$

$$f = M_2\frac{dv_2}{dt} + k_1\int v_2 - v_1\,dt + k_2\int v_1\,dt + B_1 v_2 - B_1 v_1 + B_2 v_2 \quad -(3)$$

$$f(s) = M_2 s V_2(s) + \frac{k_1}{s}V_2(s) - \frac{k_1}{s}V_1(s) + \frac{k_2}{s}V_2 f(s) + B_1 V_2(s) - B_1 V_1(s) + B_2 V_2(s)$$

$$f(s) = V_2(s)\left[M_2 s + \frac{k_1}{s} + \frac{k_2}{s} + B_1 + B_2\right] - V_1(s)\left[\frac{k_1}{s} + B_1\right] \quad -(4)$$

(2) in (4)

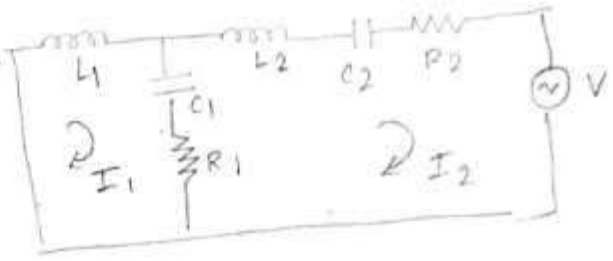
$$f(s) = V_2(s)\left[M_2 s + \frac{k_1}{s} + \frac{k_2}{s} + B_1 + B_2\right] - \frac{V_2(s)\left(B_1 + \frac{k_1}{s}\right)^2}{M_1 s + B_1 + \frac{k_1}{s}}$$

$$f(s) = V_2(s)\left[M_2 s + \frac{k_1}{s} + \frac{k_2}{s} + B_1 + B_2 - \frac{\left(B_1 + \frac{k_1}{s}\right)^2}{M_1 s + B_1 + \frac{k_1}{s}}\right]$$

$$\frac{V_2(s)}{f(s)} = \frac{1}{\left(M_1 s + B_1 + \frac{k_1}{s}\right)\left(M_2 s + \frac{k_1}{s} + \frac{k_2}{s} + B_1 + B_2\right) - \left(B_1 + \frac{k_1}{s}\right)^2}{M_1 s + B_1 + \frac{k_1}{s}}$$

$$\frac{V_2(s)}{f(s)} = \frac{M_1 s + B_1 + K_1/s}{\left(M_1 s + B_1 + \frac{K_1}{s}\right)\left(m_2 s + \frac{K_1}{s} + \frac{K_2}{s} + B_1 + B_2\right) - \left(B_1 + \frac{K_1}{s}\right)^2}$$

F-V:



$f = v$

$m = L$

$K = 1/C$

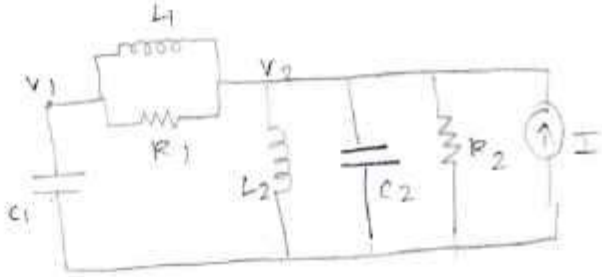
$B = R$

$V = I$

① $\Rightarrow 0 = L_1 \frac{dI_1}{dt} + R_1 I_1 - R_1 I_2 + \frac{1}{C_1}\int I_1 - I_2\, dt$

③ $\Rightarrow V = L_2 \frac{dI_2}{dt} + \frac{1}{C_1}\int I_2 - I_1\, dt + \frac{1}{C_2}\int I_2\, dt + R_1 I_2 - R_1 I_1 + R_2 I_2$

F-I:



$f = I$

$M_1 = C_1$

$K_1 = 1/L_1$

$B = 1/R$

$V = V$

① $\Rightarrow 0\ C_1 \frac{dv_1}{dt} + \frac{1}{R_1}(v_1) - \frac{1}{R_1}(v_2 + \frac{1}{C_1}\int v_1 - v_2\, dt$

② $\Rightarrow I = C_2 \frac{dv_2}{dt} + \frac{1}{L_1}\int v_2 - v_1\, dt + \frac{1}{L_2}\int v_2\, dt + \frac{1}{R_1}(v_2) - \frac{v_1}{R_1} + \frac{v_2}{R_2}$

SARANATHAN COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi, Accredited by NAAC with A+ grade -Affiliated to Anna University, Chennai-25)

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

(Accredited by NBA)

Assignment – 02			Dateof Issue:	03.09.2022	Marks	10
Course code	EC 3351	Course Title	CONTROL SYSTEM			
Year	II	Semester/Section	III /B	Dateof Submission:	12.09.2022	

Q.No	Questions	CO
1	Consider the system shown in fig E1.9(a), (b), (c) & (d). obtain the transfer function using Mason's gain formula.	CO205.1

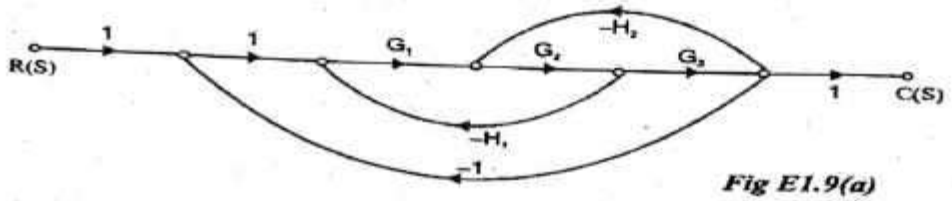


Fig E1.9(a)

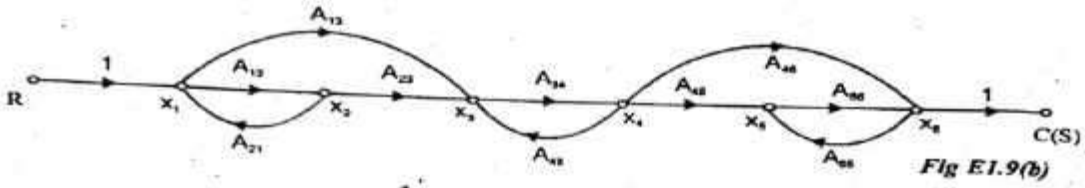


Fig E1.9(b)

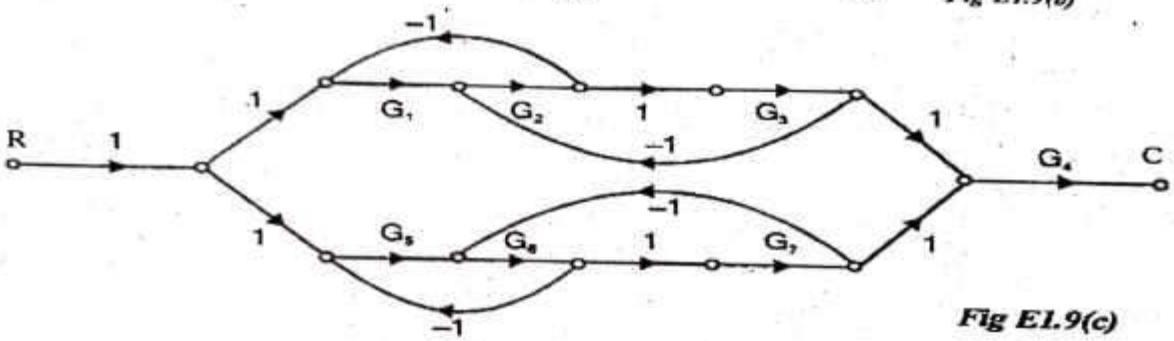


Fig E1.9(c)

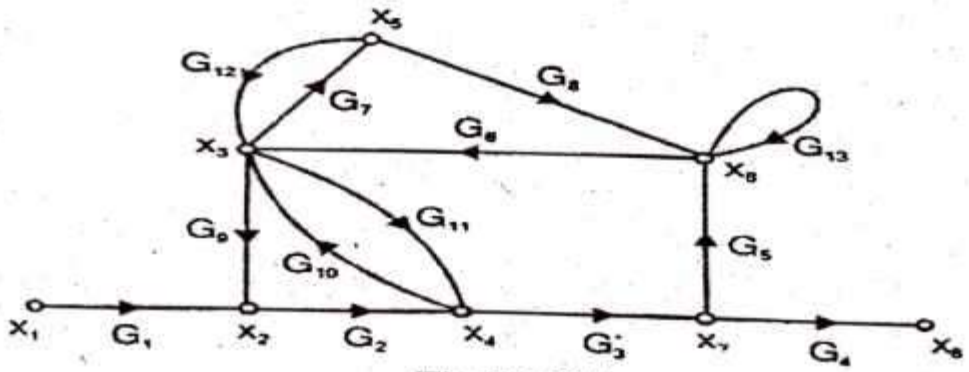


Fig E1.9(d)

Consider the block diagram shown in fig E.1.7(a), (b) (c) & (d). Using the block diagram reduction technique, find C/R.

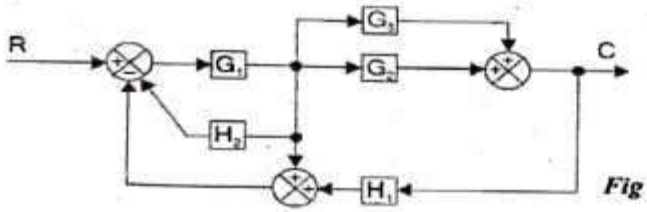


Fig E1.7(a)

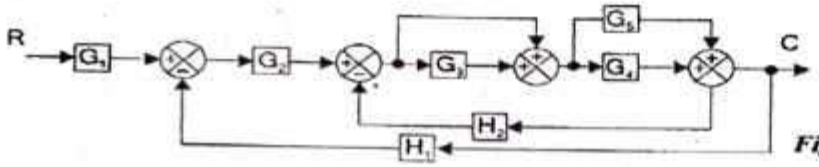


Fig E1.7(b)

2 CO205.1

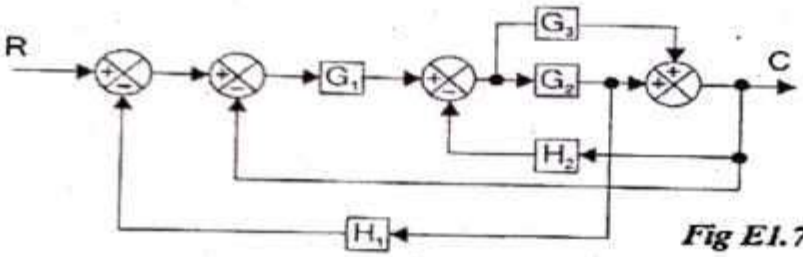


Fig E1.7(c)

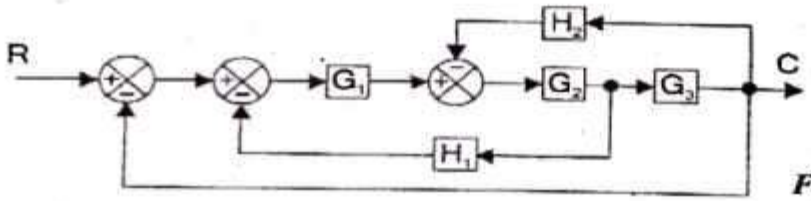


Fig E1.7(d)

Name and Signature of the Faculty

HoD/ECE

CONTROL SYSTEM - EC3351

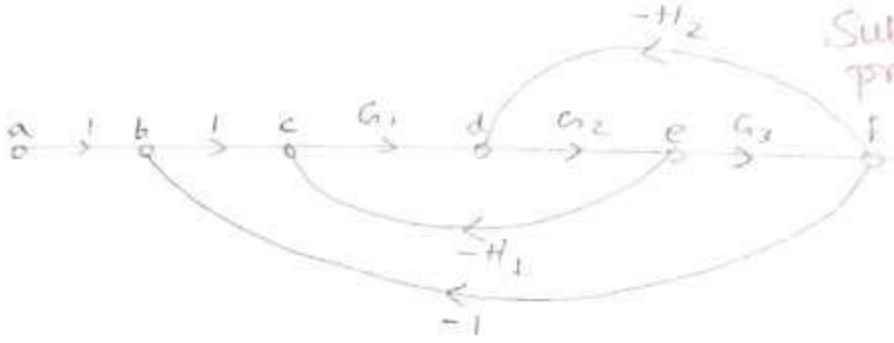
ASSIGNMENT - 2

K. Shaam Varunesh
24202
ECE 'B'
SEM III YEAR II

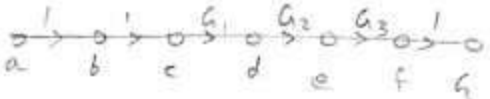
Content = 6
Submission = 2
presentation = 2
10

I.

a).



K = 1



$P_1 = G_1 G_2 G_3$



$P_{11} = G_1 G_2 H_1$



$P_{21} = -G_2 G_3 H_2$



$P_{31} = -G_1 G_2 G_3$

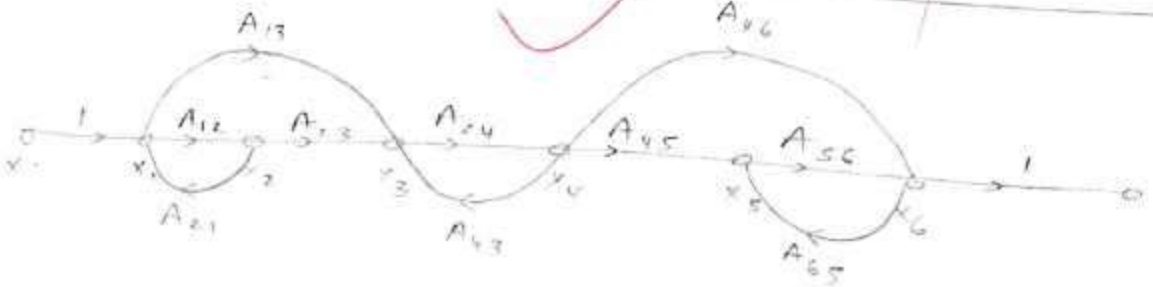
$\Delta = 1 + G_1 G_2 H_1 + G_2 G_3 H_2 + G_1 G_2 G_3$

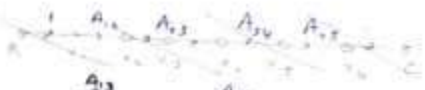
$\Delta_1 = 1$

$\therefore \quad T(s) = \dfrac{1}{1 + G_1 G_2 H_1 + G_2 G_3 H_2 + G_1 G_2 G_3}$ $\left[G_1 G_2 G_3 (1)\right]$

$$T(s) = \frac{G_1 G_2 G_3}{1 + G_1 G_2 H_1 + G_2 G_3 H_2 + G_1 G_2 G_3}$$

b).

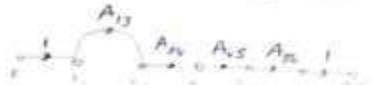




$k = 4$



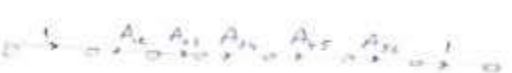
$P_2 = A_{13} A_{34} A_{4C}$



$P_3 = A_{13} A_{35} A_{54} A_{4C}$

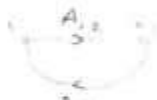


$P_4 = A_{12} A_{23} A_{34} A_{4C}$



$P_1 = A_{12} A_{23} A_{34} A_{45} A_{5C}$

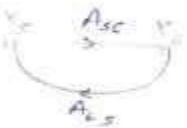
3 loops:



$P_{11} = A_{12} A_{21}$



$P_{21} = A_{34} A_{43}$



$P_{31} \Rightarrow A_{5C} A_{C5}$

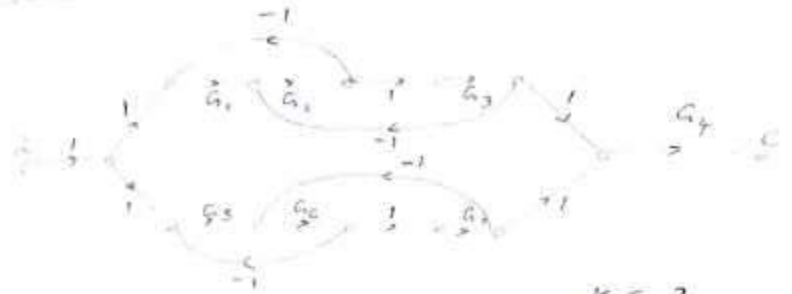
$$\Delta = 1 - (A_{12}A_{21} + A_{34}A_{43} + A_{5C}A_{C5}) + (A_{12}A_{21}A_{34}A_{43} + A_{12}A_{21}A_{5C}A_{C5} + A_{34}A_{43}A_{5C}A_{C5}) - (A_{12}A_{21}A_{34}A_{43}A_{5C}A_{C5})$$

$$\Delta_1 = \Delta_2 = \Delta_3 = \Delta_4 = 1$$

$$\therefore T(s) = \frac{1}{\Delta} \sum_{k=1}^{n} [P_k \Delta_k]$$

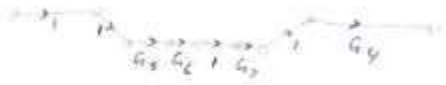
$$T(s) = \frac{A_{12}A_{23}A_{34}A_{45}A_{5C} + A_{13}A_{34}A_{4C} + A_{13}A_{35}A_{45}A_{5C} + A_{12}A_{23}A_{34}A_{4C}}{1 - (A_{12}A_{21} + A_{34}A_{43} + A_{5C}A_{C5}) + (A_{12}A_{21}A_{34}A_{43} + A_{12}A_{21}A_{5C}A_{C5} + A_{34}A_{43}A_{5C}A_{C5}) - (A_{12}A_{21}A_{34}A_{43}A_{5C}A_{C5})}$$

c)



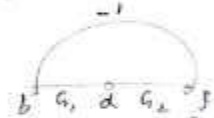
$k = 2$

$P_1 = G_1 G_2 G_3 G_4$

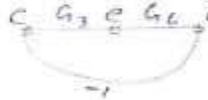


$P_2 = G_5 G_6 G_7 G_4$

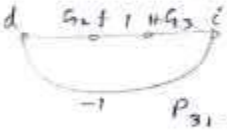
4 loops:



$P_{11} = -G_1 G_2$



$P_{21} = -G_5 G_6$



$P_{31} = -G_2 G_3$



$P_{41} = -G_6 G_7$

$$\Delta = 1 + (G_1G_2 + G_2G_3 + G_5G_6 + G_6G_7) + G_1G_2G_5G_6 + G_5G_6G_2G_3 + G_1G_2G_6G_7 + G_2G_3G_6G_7$$

$$\Delta_1 = 1 + (G_5G_6 + G_6G_7)$$

$$\Delta_2 = 1 + (G_1G_2 + G_2G_3)$$

$$T(s) = \frac{1}{\Delta} \sum_{k=1}^{n} [P_k \Delta_k]$$

$$T(s) = \frac{G_1G_2G_3G_4[1 + G_5G_6 + G_6G_7] + G_4G_5G_6G_7[1 + G_1G_2 + G_2G_3]}{1 + (G_1G_2 + G_2G_3 + G_5G_6 + G_6G_7) + (G_1G_2G_5G_6 + G_5G_6G_2G_3 + G_1G_2G_6G_7 + G_2G_3G_6G_7)}$$

$P_1 = G_1 G_2 G_3 G_4$

$P_{11} = G_8 G_9 G_{10}$

$P_{21} = G_{10} G_{11}$

$P_{31} = G_7 G_{12}$

$P_{41} = G_6 G_9 G_8$

$P_{51} = G_{13}$

$P_{61} = G_3 G_5 G_6 G_{11}$

$P_{71} = G_2 G_3 G_5 G_6 G_9$

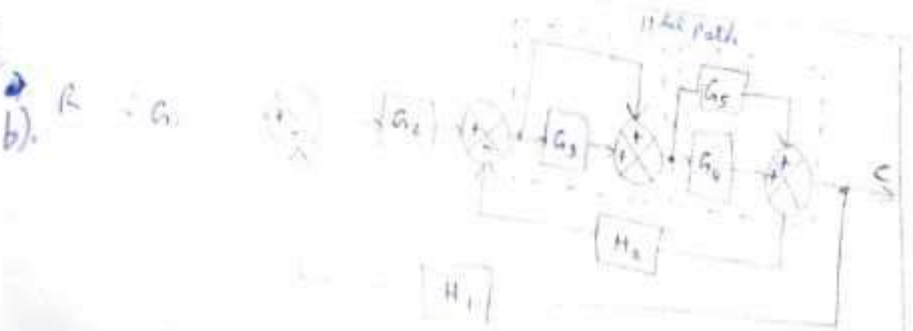
$$\Delta = 1 - [G_8 G_9 G_{10} + G_{10} G_{11}] + G_6 G_3 G_5 G_6 G_9 + G_3 G_5 G_6 G_{11} + G_7 G_{12} + G_6 G_3 G_8 + G_{13}] + G_2 G_9 G_{10} G_{13} + G_{10} G_{11} G_{13} + G_7 G_{12} G_{13}$$

$$\Delta_1 = 1 - (G_7 G_{12} + G_6 G_7 G_8 + G_{13}) + (G_7 G_{12} G_{13})$$

$$T(s) = \frac{G_1 G_2 G_3 G_4 [1 - (G_7 G_{12} + G_6 G_7 G_8 + G_{13}) + (G_7 G_{12} G_{13})]}{[1 - (G_8 G_9 G_{10} + G_{10} G_{11} + G_6 G_3 G_5 G_6 G_9 + G_3 G_5 G_6 G_{11} + G_7 G_{12} + G_6 G_7 G_8 + G_{13}) + (G_2 G_9 G_{10} G_{13} + G_{10} G_{11} G_{13} + G_7 G_{12} G_{13})]}$$

II

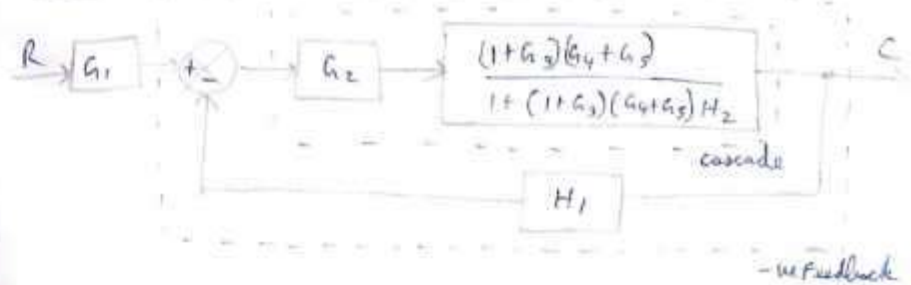
b).



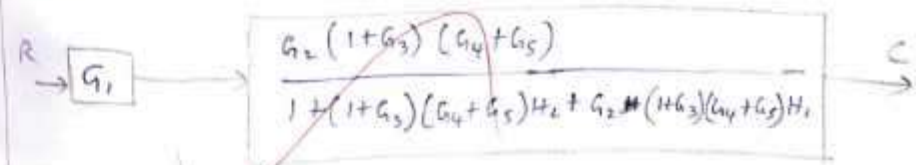
step1: 2nd Path



step2: cascade & -ve Feedback



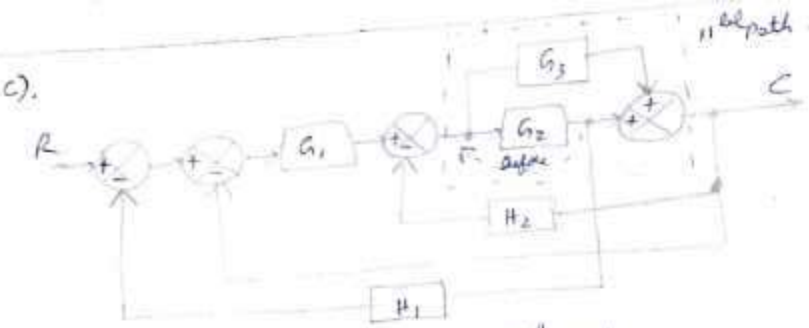
step3: cascade & -ve feedback.



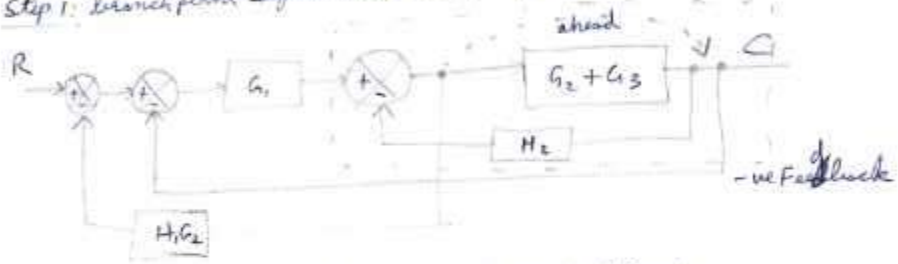
step4: cascade.

$$\therefore \frac{C}{R} = \frac{G_1 G_2 (1+G_3)(G_4+G_5)}{1+(1+G_3)(G_4+G_5)H_2 + G_2 H_1 (1+G_3)(G_6+G_5)}$$

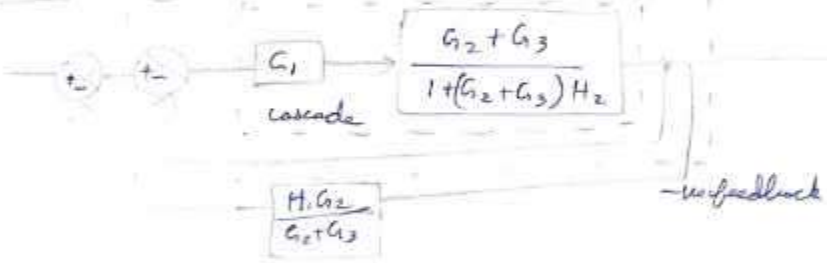
c).



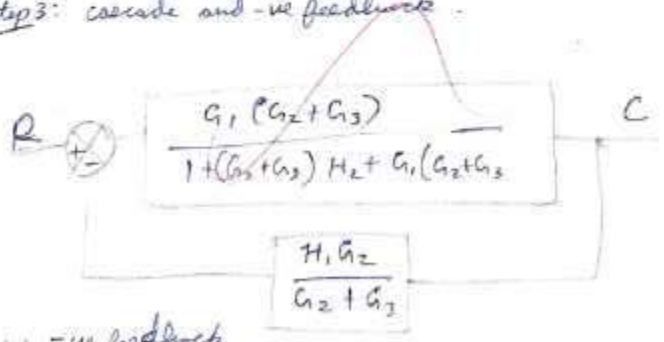
Step 1: branch point before block & II el path.



Step 2: branch point ahead block and -ve feedback.



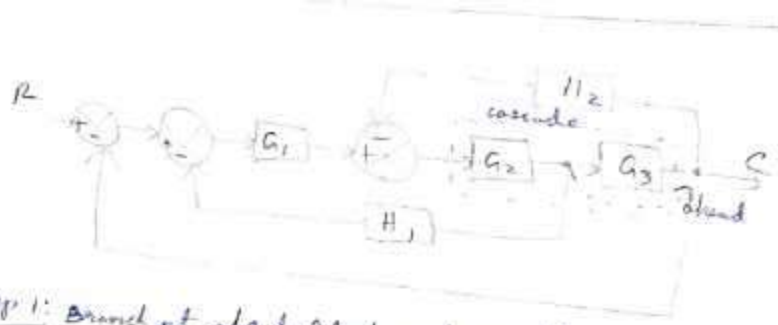
Step 3: cascade and -ve feedback.



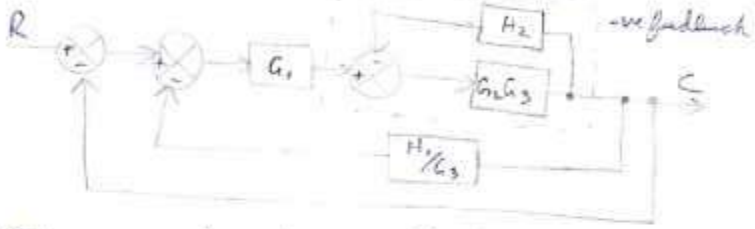
Step 4: -ve feedback.

$$\frac{C}{R} = \frac{G_1 (G_2 + G_3)}{1 + (G_2 + G_3) H_2 + G_1 (G_2 + G_3) + G_1 G_2 H_1}$$

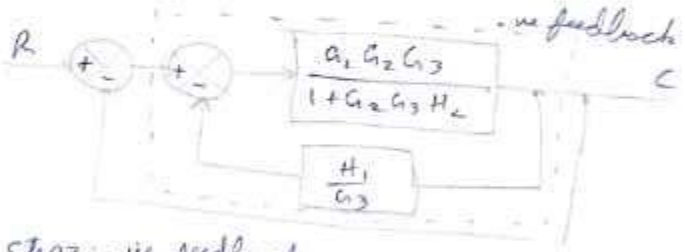
d).



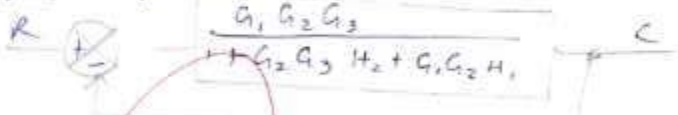
Step 1: Branch pt ahead block and cascade



Step 2: cascade and -ve feedback



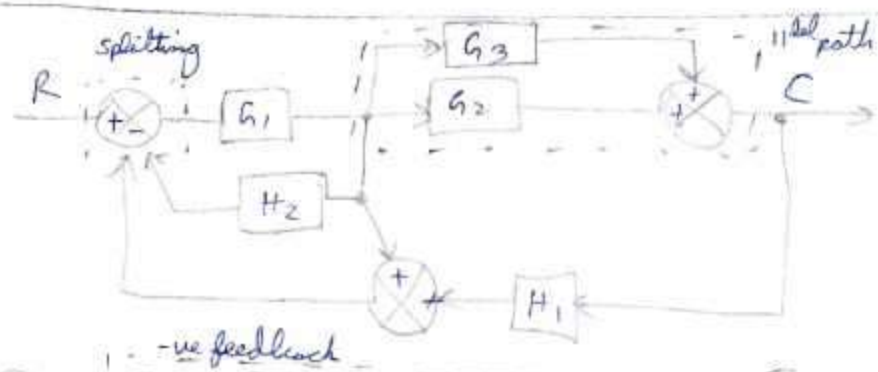
Step 3: -ve feedback

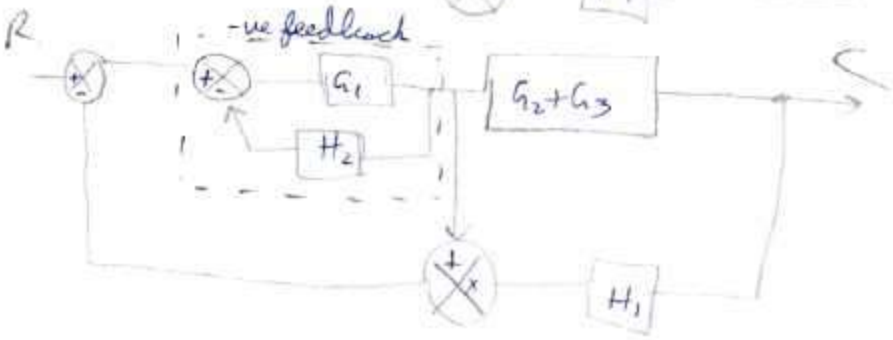


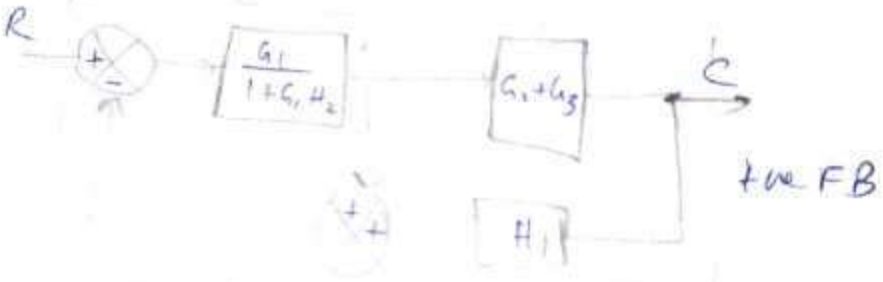
Step 4: -ve feedback.

$$\frac{C}{R} = \frac{G_1 G_2 G_3}{1 + G_2 G_3 H_2 + G_1 G_2 H_1 + G_1 G_2 G_3}$$

2).







-Ve FB



$$\frac{C}{R} = \frac{G_1(G_2+G_3)}{(1+G_2H_2+G_1)(1-H_1(G_2+G_3))}$$

SARANATHAN COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi, Accredited by NAAC with A+ grade -Affiliated to Anna University, Chennai-25)

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

(Accredited by NBA)

Assignment – 03			Dateof Issue:	08.10.2022	Marks	10
Course code	EC 3351	Course Title	CONTROL SYSTEMS			
Year	II ECE	Semester/Section	III /B	Dateof Submission:	14.10.2022	

Q.No	Questions	CO
1	***The open loop transfer function of a system is given by G(s) = K/s(1+0.5s) (1+0.2s). Using bode plot find the value of K so that (i) The gain margin of the system is 6db and (ii) The phase margin of the system is 25°.***	CO205.3
2	***Sketch the polar plot of the following transfer functions and from the plot, determine the phase margin and gain margin.*** ***a) $G(s) = 10\,(s+1)/(s+10)^2$*** ***c) $e^{-0.1s}/s\,(s+1)\,(s+5)$***	CO205.3
3	***The open loop transfer function of a system is given by $G(s) = K/s\,(s^2 + s + 4)$. Using polar plot, determine the value of K, so that phase margin is 50°. What is the corresponding value of gain margin?***	CO205.3
4	***Sketch the bode plot of the following open loop transfer functions and from the plot determine the phase margin and gain margin.*** ***$G(s) = 100(1+0.1s)/s(1+0.2s)\,(1+0.5s)$***	CO205.3

Name and Signature of the Faculty

HoD/ECE

Control System
Assignment - 3.

Y. Sana Azeemab
242097
ECE-'B'

Content - 4
Submission - 2
presentation - 2
8

8/10

(1)

$$G(s) = \frac{K}{s(1+0.5s)(1+0.2s)}$$

$K = 1.$

$$G(j\omega) = \frac{1}{j\omega(1+0.5j\omega)(1+0.2j\omega)}$$

corner freq.

$\omega_{c_1} = \frac{1}{0.5} = 2$ rad/sec.

$\omega_{c_2} = \frac{1}{0.2} = 5$ rad/sec

Assume $\omega_L = 0.5$ rad/sec $\omega_H = 10$ rad/sec.

Term	ω_c	slope	change in slope.
$\frac{1}{j\omega}$	-	-20	-
$\frac{1}{1+0.5j\omega}$	2	-20	-40
$\frac{1}{1+0.2j\omega}$	5	-20	-60

For ω_2.
$20\log\frac{1}{0.5} = 6.02.$

For ω_{c_1}
$20\log\frac{1}{2} = -6.02$

For ω_{c_2}
$-40\log\frac{5}{2} - 6.02$
$= -21.93$

For ω_H.
$-60.\log\frac{40}{5} - 21.93$
$= -76.1.$

$\angle G(j\omega) = -90 - \tan^{-1}(0.5\omega)$
$-\tan^{-1}(0.2j\omega)$

mag plot

ω	plot
0.5	6.02
2	-6.03
5	-21.93
10	-76.1

ω	ϕ
0.1	-96
0.5	-110
1	-128
2	-157.
3	-177.
3.5	-185.

(3)

$\phi_{gc} = 124$

$\gamma = -180.7$

$= 56°$

GM = -16.16

(i) $6 = -16 + x$

$x = 10$

$20 \log k = 10$

$k = 10^{\left(\frac{20}{10}\right)}$

$k = 3.1623$

(ii) $25°$

$-180 + 25 = -155 = 6$ [From graph]

$20 \log k = 6$

$k = (10)^{\frac{6}{20}}$

$k = 1.9953$

(2)

$$G(s) = \frac{e^{-0.1s}}{s(s+1)(s+5)}$$

$$G(j\omega) = \frac{e^{-0.1j\omega}}{j\omega(j\omega+1)(j\omega+5)}$$

$$|G(j\omega)| = \frac{1}{\omega\sqrt{\omega^2+1^2}\sqrt{\omega^2+5^2}}$$

$$\angle G(j\omega) = \tan^{-1}(0.1\omega) - 90 - \tan^{-1}(\omega) - \tan^{-1}\left(\frac{\omega}{5}\right)$$

ω	0.1	0.2	0.4	0.6	0.8	1	1.4	1.8
$\lvert G(j\omega)\rvert$	1.99	0.98	0.46	0.28	0.19	0.14	0.08	0.05
$\angle G(j\omega)$	-97	-105	-114	-127	-142	-152	-166	-181

$$K_g = \frac{1}{|G(j\omega)|} = \frac{1}{0.055} \qquad K_g = 18.180$$

$\gamma = 180 - \phi_{gc}$

$= 180 - 162 = 18°$.

(3) $G(s) = \frac{K}{s(s^2+s+4)} \rightarrow \frac{K}{4s(\frac{s^2}{4}+\frac{s}{4}+1)}$

$\rightarrow \frac{K}{4j\omega(0.25(j\omega)^2 + 0.25j\omega + 1)}$

$\frac{K}{4j\omega(0.2j\omega - 0.25\omega^2 + 1)}$ $K=1$

$= \frac{1}{4j\omega(1-0.25\omega^2 + 0.25j\omega)}$

$|G(j\omega)| = \frac{1}{4\omega\sqrt{(0.25\omega^2)+(1-0.25\omega^2)^2}}$

$\angle G(j\omega) = -90^\circ - \tan^{-1}\left(\frac{0.25\omega}{1-0.25\omega^2}\right)$

Scale 1:

ω	1.2	1.4	1.6	1.8	2
$\lvert G(j\omega)\rvert$	0.295	0.219	0.29	0.28	0.25
$\angle G(j\omega)$	-115.11	-124	-138	-157	-180

Scale 2.

ω	0.1	0.2	0.3	0.4	0.5
$\lvert G(j\omega)\rvert$	2.5	1.26	0.85	0.65	0.52
$\angle G(j\omega)$	-91	-95	-95	-9.5	-97

$\gamma = 180 - 92$

$= 88^\circ$

$K_g = \frac{1}{0.25} = 4$

For 50° $k = ?$

$\phi = \gamma - 180$

$= 50 - 180 = -130$

$k = \frac{1}{0.295} = 3.390$

(4)

$$G(s) = \frac{100(1+0.1jw)}{jw(1+0.2jw)(1+0.5jw)}$$

corner freq.

$$w_{c1} = \frac{1}{0.1} = 10 \text{ rad/sec}$$

$$w_{c2} = \frac{1}{0.2} = 5 \text{ rad/sec}.$$

$$w_{c3} = \frac{1}{0.5} = 2 \text{ rad/sec}.$$

Term	w_c	Slope in dec	Change in slope dB/dec
$\frac{100}{jw}$	-	-20	-
$\frac{1}{1+0.5jw}$	2	-20	-40
$\frac{1}{1+0.2jw}$	5	-20	-60
$\frac{1}{1+0.1jw}$	10	+20	-40

assume $w_2 = 0.5$ $w_n = 40 \text{ rad/sec}$

at $w_2 = 20\log\frac{100}{0.5} = 46$

at $w_{c1} = 20\log\frac{100}{2} = 34.$

at $w_{c2} = -60 \times \log\frac{2}{5} + 34.$

$= 18$

at $w_{c3} = -60 \times \log\frac{10}{5} + 18$

at $w_{c4} = -60\log\frac{40}{10} = 0$

$\angle G(jw) = -90 + \tan^{-1}(0.1w) - \tan^{-1}(0.2w)$

w	ϕ
0.5	-10.6
1	-12.2
2	-14.6
4	-17.0.3
6	-18.0.3
8	-18.5.3
10	-18.7.1

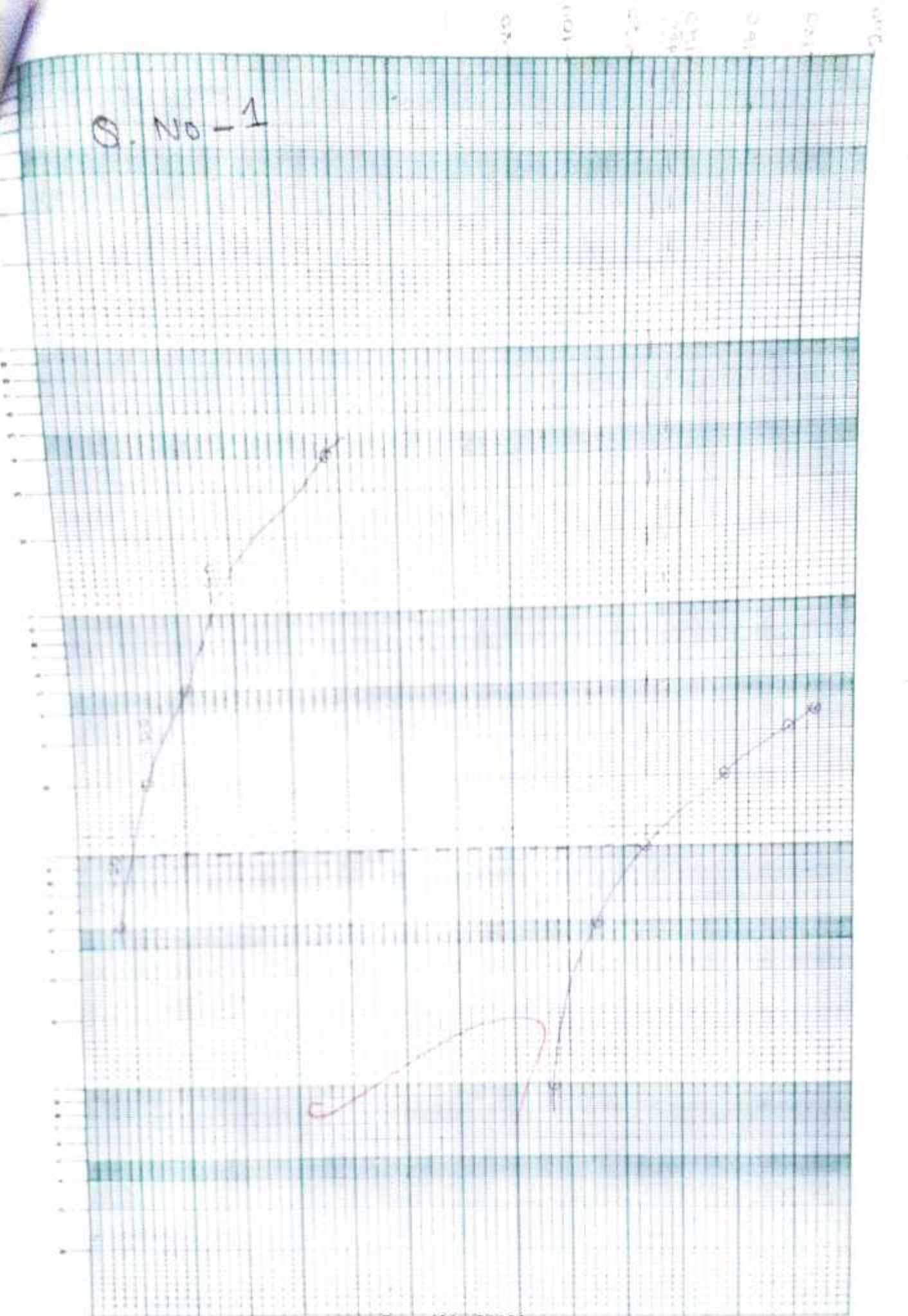
wang plot

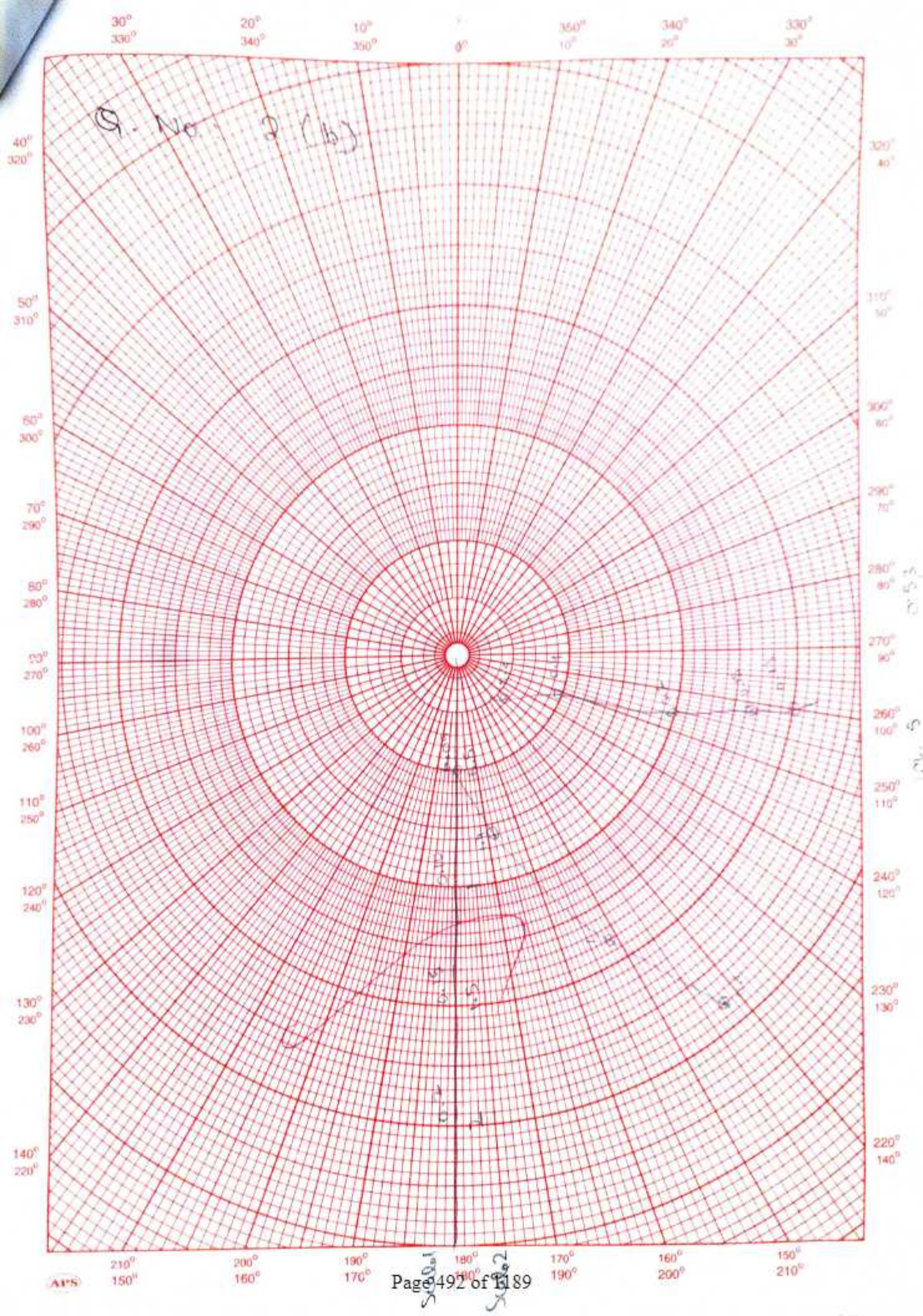
w	plot
0.5	4.6
2	3.4
5	1.8
10	0
40	-2.4

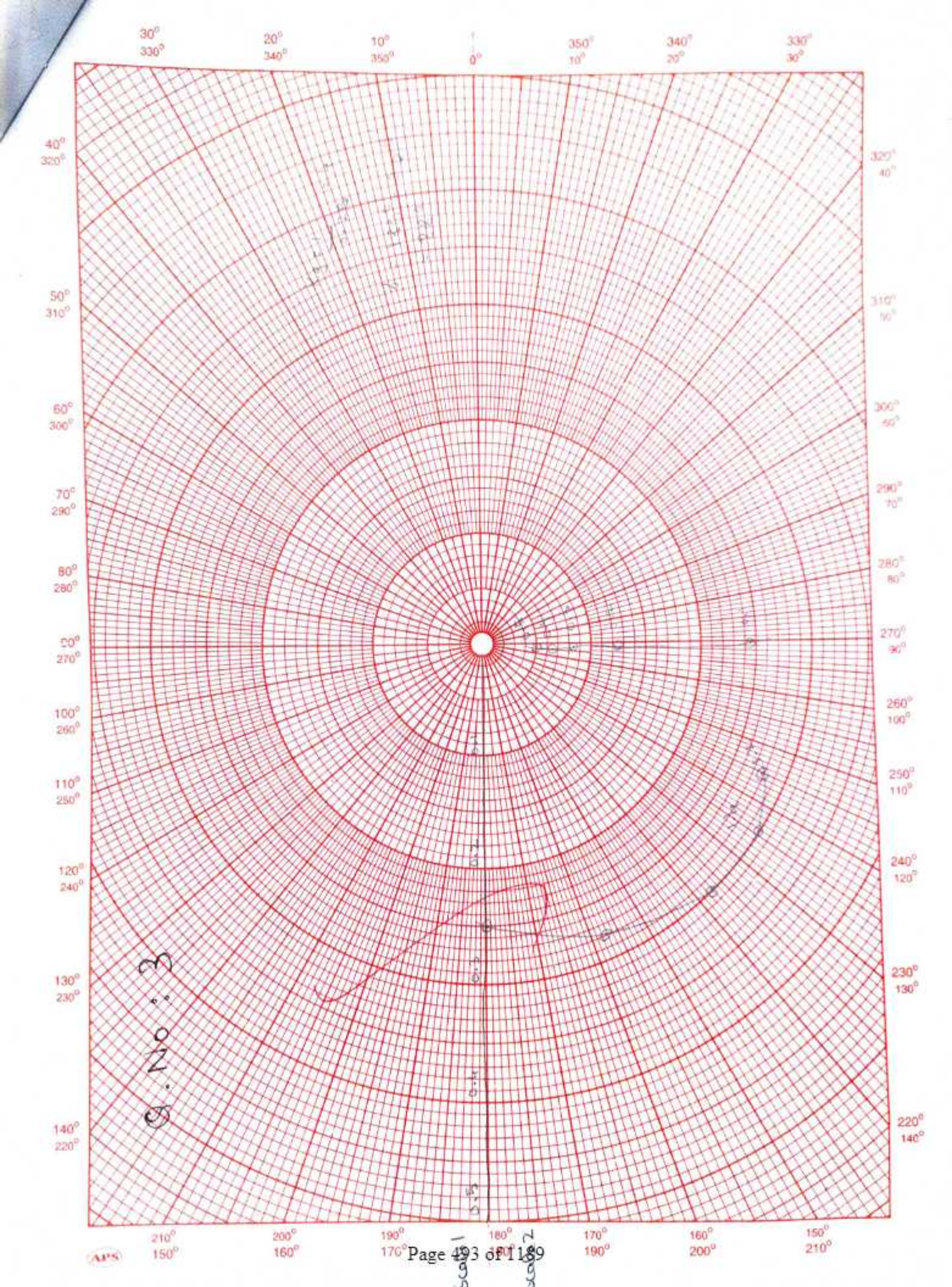
$\gamma = 180 - 186.$

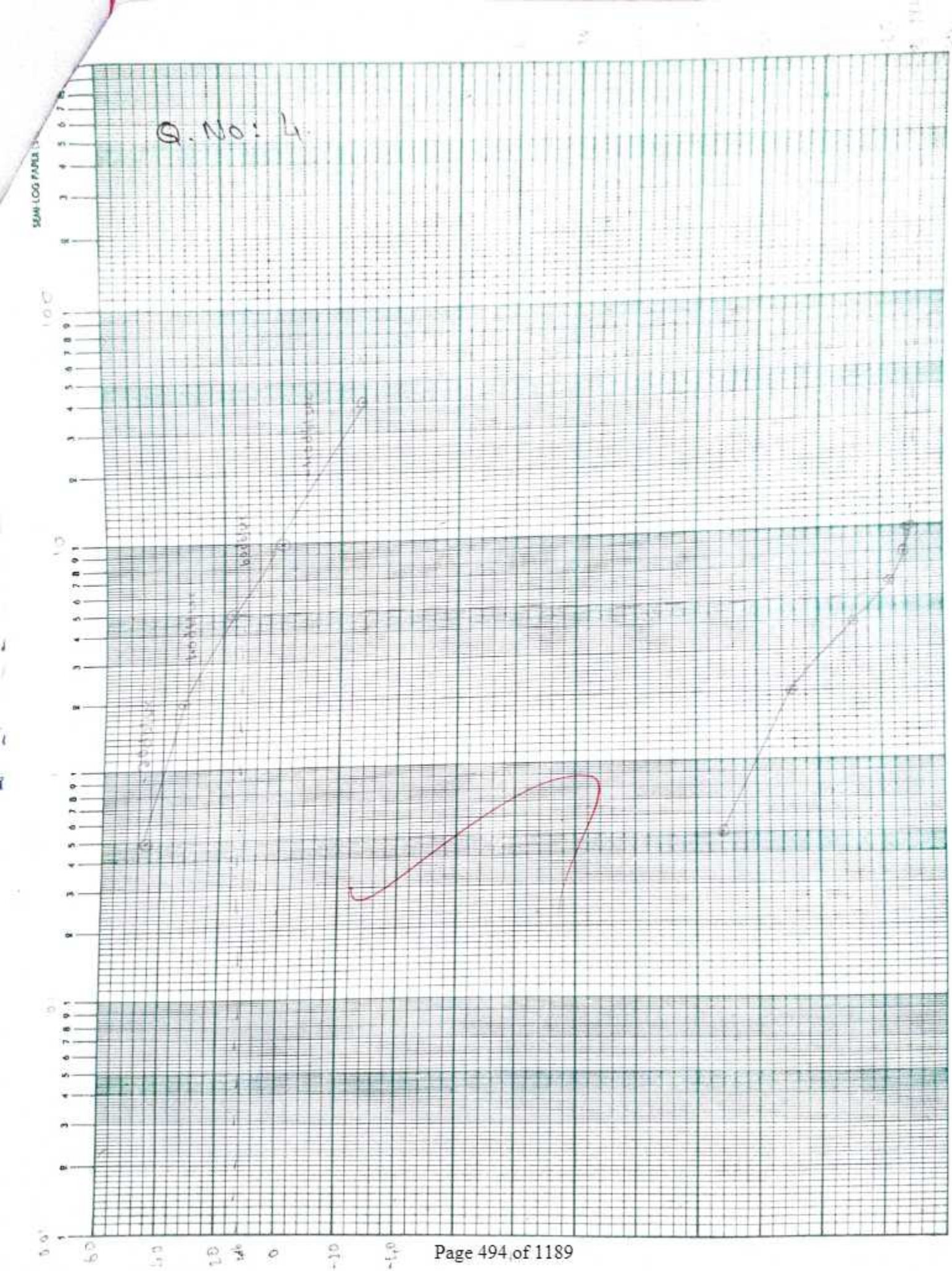
$\gamma = -6°$

$GM = 1.4 \, dB$


Q. No - 1


Q. No. 3 (b)


30° 330°
20° 340°
10° 350°
0°
350° 10°
340° 20°
330° 30°
40° 320°
320° 40°
50° 310°
310° 50°
60° 300°
300° 60°
70° 290°
290° 70°
80° 280°
280° 80°
90° 270°
270° 90°
100° 260°
260° 100°
110° 250°
250° 110°
120° 240°
240° 120°
130° 230°
230° 130°
140° 220°
220° 140°
210° 150°
200° 160°
190° 170°
180°
170° 190°
160° 200°
150° 210°
APS


S. No: 4

CONTROL SYSTEM

ASSIGNMENT - 3

K. Shasm Varnesh
242102
ECE 'B'
II nd YEAR

content - 6
Submission - 2
presentation - 1
9

Sm

(1) $G(s) = \frac{K}{s(1+0.5s)(1+0.2s)}$

$K = 1$

$G(j\omega) = \frac{1}{j\omega(1+0.5j\omega)(1+0.2j\omega)}$

corner freq:

$\omega_{c_1} = \frac{1}{0.5} = 2$ rad/sec

$\omega_{c_2} = \frac{1}{0.2} = 5$ rad/sec

Assume $\omega_L = 0.5$, $\omega_h = 40$ rad/sec

Term	ω_c	slope	change in slope
$\frac{1}{j\omega}$	-	-20	-
$\frac{1}{1+0.5j\omega}$	2	-20	-40
$\frac{1}{1+0.2j\omega}$	5	-20	-60

For ω_L,

$\Rightarrow 20 \log \frac{1}{0.5} = 6.02$

For ω_{c_1}

$\Rightarrow 20 \log \frac{1}{2} = -6.02$

for ω_{c_2}

$\Rightarrow -40 \times \log \frac{5}{2} - 6.02$

$= -21.93$

for ω_h

$\Rightarrow -60 \times \log \frac{40}{5} - 21.93$

$= -76.1$

mag plot:

ω	Plot
0.5	6.02
2	-6.02
5	-21.93
40	-76.1

$\angle G(j\omega) = -90 - \tan^{-1}(0.5\omega) - \tan^{-1}(0.2\omega)$

Phase plot

ω	ϕ
0.1	-94
0.5	-110
1	-128
2	-157
3	-177
3.5	-185

$\phi_{gc} = -16$ dB

$\phi_{gc} = 124°$

$\gamma = 180 - 124$

$\gamma = 56°$

GM = -16 dB

(1). (i). $c = -16 + x$

$x = 10$

$20 \log k = 10$

$k = 10^{(\frac{1}{2})}$

$k = 3.1623$

(ii) $25°$

$-180 + 25$

$\Rightarrow -155$

$\Rightarrow 6$ [∵ from graph]

$20 \log k = 6$

$k = (10)^{\frac{6}{20}}$

$k = 1.9953$

(2) (b) $G(s) = \dfrac{e^{-0.1s}}{s(s+1)(s+5)}$

$G(j\omega) = \dfrac{e^{-0.1j\omega}}{j\omega(j\omega+1)(j\omega+5)}$

$|G(j\omega)| = \dfrac{1}{\omega\sqrt{\omega^2+1^2}\sqrt{\omega^2+5^2}}$

$\angle G(j\omega) = \tan^{-1}(0.1\omega) - 90 - \tan^{-1}(\omega) - \tan^{-1}(\frac{\omega}{5})$

ω	0.1	0.2	0.4	0.6	0.8	1	1.4	1.8
$\lvert G(j\omega)\rvert$	1.99	0.98	0.46	0.28	0.19	0.14	0.08	0.05
$\angle G(j\omega)$	-97	-105	-114	-127	-142	-152	-168	-181

$k_g = \frac{1}{|G(j\omega)|} = \frac{1}{0.055}$

$k_g = 18.181$

$\gamma = 180 - \phi_{gc}$

$= 180 - 162$

$\gamma = 18°$

(4). $G(s) = \dfrac{100(1+0.1j\omega)}{j\omega(1+0.2j\omega)(1+0.5j\omega)}$

~~$G(j\omega) = 100$~~ corner freq;

$\omega_{c1} = \frac{1}{0.1} = 10$ rad/sec

$\omega_{c2} = \frac{1}{0.2} = 5$ rad/sec

$\omega_{c3} = \frac{1}{0.5} = 2$ rad/sec

Term	ω_c	slope db/dec	change in slope db/dec
$\frac{100}{j\omega}$	-	-20	-
$\frac{1}{1+0.5j\omega}$	2	-20	-40
$\frac{1}{1+0.2j\omega}$	5	-20	-60
$1+0.1j\omega$	10	+20	-40

assume $\omega_2 = 0.5$, $\omega_h = 4.38$ rad/sec

at $\omega_2 = 20 \log \frac{100}{0.5} = 46$

at $\omega_{c1} = 20 \log \frac{100}{2} = 34$

at $\omega_{c2} = -40 \times \log \frac{2}{5} + 34$

$= 18$

at $\omega_{c3} = -60 \times \log \frac{10}{5} + 18$

$= 0$

at $\omega_h = -40 \log \frac{40}{10} + 0$

$= -24.$

Mag plot:

ω	Plot
0.5	46
2	34
5	18
10	0
40	-24

$\angle G(j\omega) = -90 + \tan^{-1}(0.1\omega) - \tan^{-1}(0.2\omega) - \tan^{-1}(0.5\omega)$

ω	ϕ
0.5	-106
1	-122
2	-146
4	-170.3
6	-180.3
8	-185.3
10	-187.1

$\gamma = 180 - 186$

$\gamma = -6°$

GM = 14 dB

(3). $G(s) = \dfrac{k}{s(s^2+3s+4)} \Rightarrow \dfrac{k}{4s(\frac{s^2}{4}+\frac{s}{4}+1)} \Rightarrow \dfrac{k}{4j\omega(0.25(j\omega)^2+0.25j\omega+1)}$

$\Rightarrow \dfrac{k}{4j\omega(0.2j\omega - 0.25\omega^2+1)}$ $k=1$ $\Rightarrow \dfrac{1}{4j\omega(1-0.25\omega^2+0.25j\omega)}$

$|G(j\omega)| = \dfrac{1}{4\omega\sqrt{(0.25\omega)^2+(1-0.25\omega^2)^2}}$

$\angle G(j\omega) = -90° - \tan^{-1}\left(\dfrac{0.25\omega}{1-0.25\omega^2}\right)$

Scale 1:

ω	1.2	1.4	1.6	1.8	2
$\lvert G(j\omega)\rvert$	0.295	0.289	0.29	0.28	0.25
$\angle G(j\omega)$	-115.11	-124	-138	-157	-180

Scale 2:

ω	0.1	0.2	0.3	0.4	0.5
$\lvert G(j\omega)\rvert$	2.5	1.26	0.85	0.65	0.52
$\angle G(j\omega)$	-91	-93	-95	-95	-97

$\gamma = 180 - 92$

$\gamma = 88^\circ$

$K_g = \frac{1}{0.25} = 4$

- For 50° K = ?

$\phi = \gamma - 180$

$= 50 - 180 = -130$

$k = \frac{1}{0.295} = 3.390.$

$k = 3.390$

$k = \frac{1}{0.295}$

$K_g = 3.390$

2(a): $G(s) = \frac{10(s+1)}{(s+10)^2} = \frac{10(s+1)}{s^2+20s+100}$ corner freq = 10 rad/sec

$G(j\omega) = \frac{10(j\omega+1)}{(j\omega)^2+20j\omega+100} = \frac{j\omega+1}{10(1-0.01\omega^2+0.2j\omega)}$

$|G(j\omega)| = \frac{\sqrt{\omega^2+1}}{\sqrt{(1-0.01\omega^2)^2+(0.2\omega)^2}}$

For $\omega \le \omega_c$

$\angle G(j\omega) = \tan^{-1}\omega(\omega) - \tan^{-1}\left(\frac{0.2\omega}{1-0.01\omega^2}\right)$

For $\omega > \omega_c$

$\angle G(j\omega) = \tan^{-1}(\omega) - \tan^{-1}\left(\frac{0.2\omega}{1-0.01\omega^2} + 180^\circ\right)$

ω	0	1	2	3	4	5	6	7	8	9	10	11	12	13
$\lvert G(j\omega)\rvert$	1	1.4	2.2	2.9	3.55	4.08	4.5	4.7	4.9	5	5.02	4.99	4.93	4.85
$\angle G(j\omega)$	0	33.6	40.8	35.2	32.4	25.6	18.6	11.9	5.6	-0.3	-5.7	-9.9	-9.6	-10.1

$\phi_{gc} = 0^\circ$

$\gamma = 180^\circ - 0^\circ$

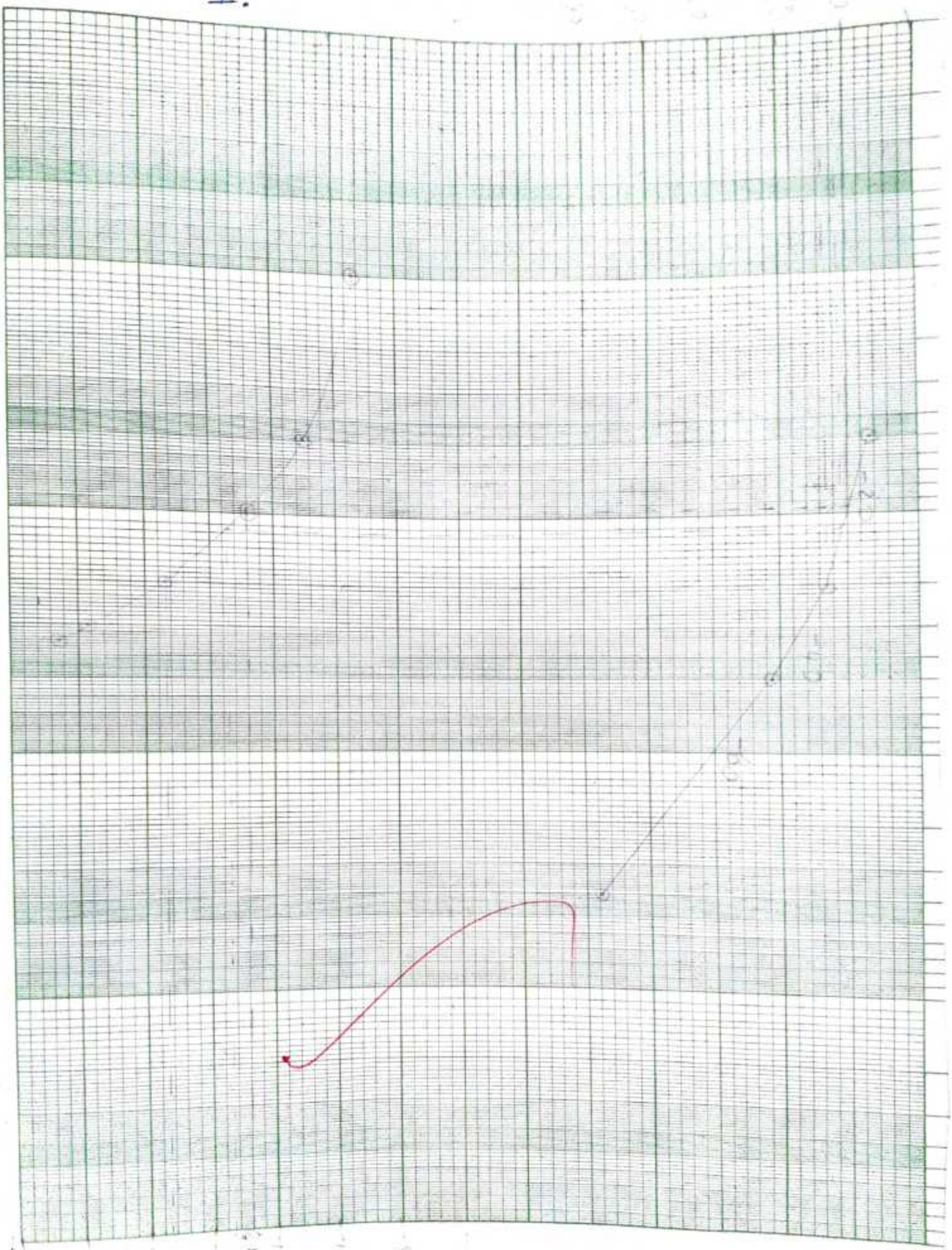
$\gamma = 180^\circ$

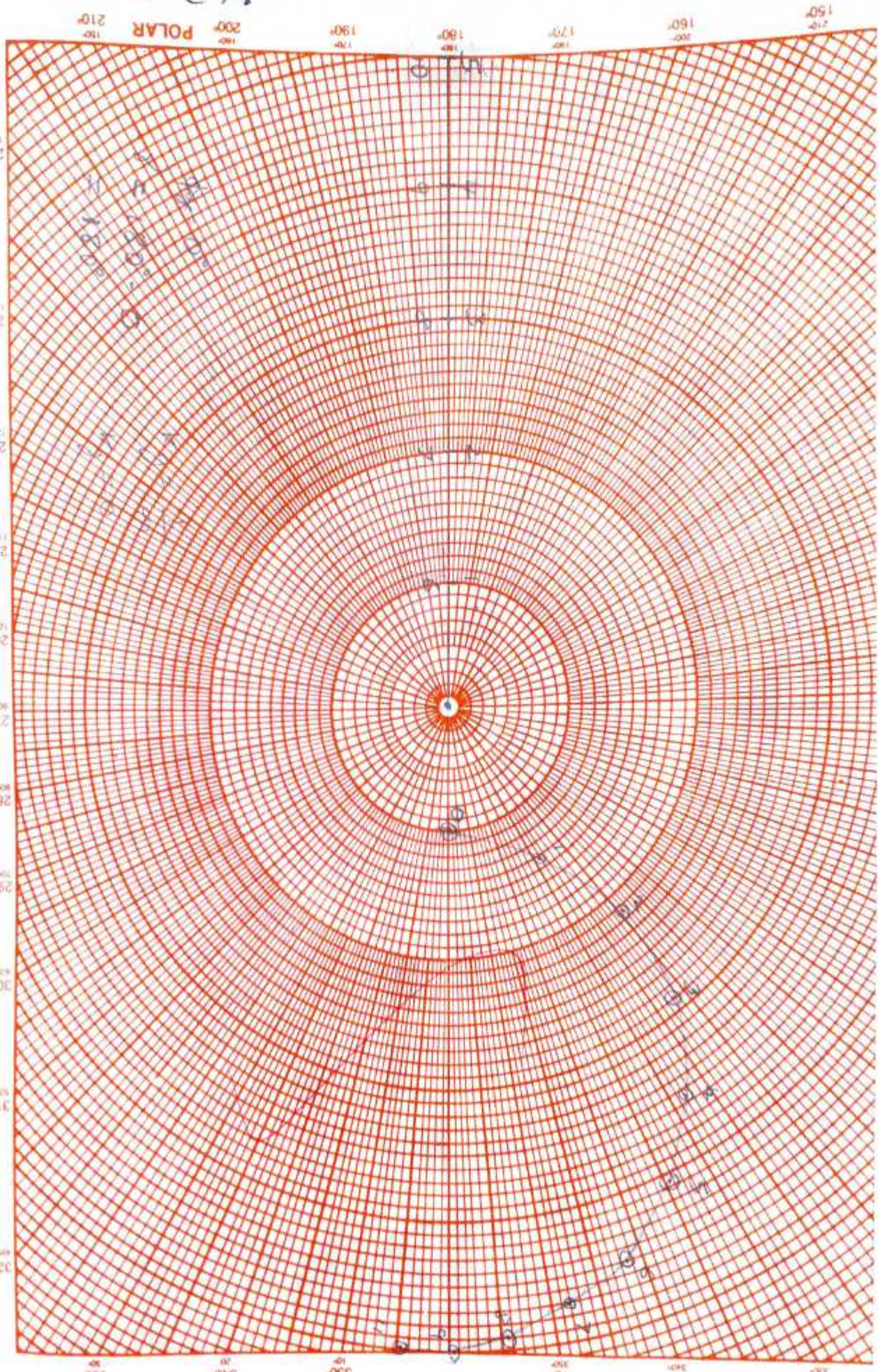
$K_g = \frac{1}{0}$

$K_g = 0$

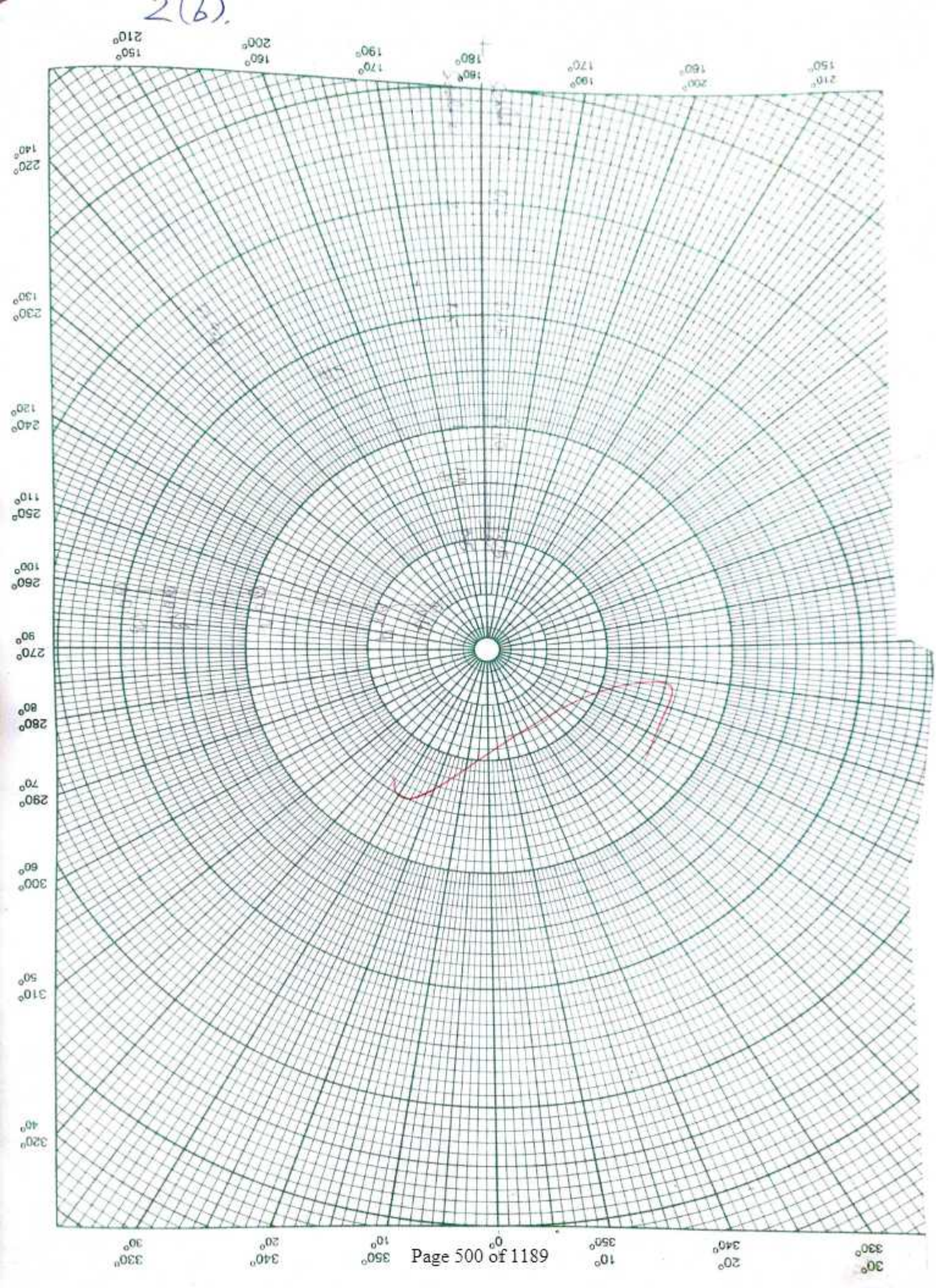
Ans

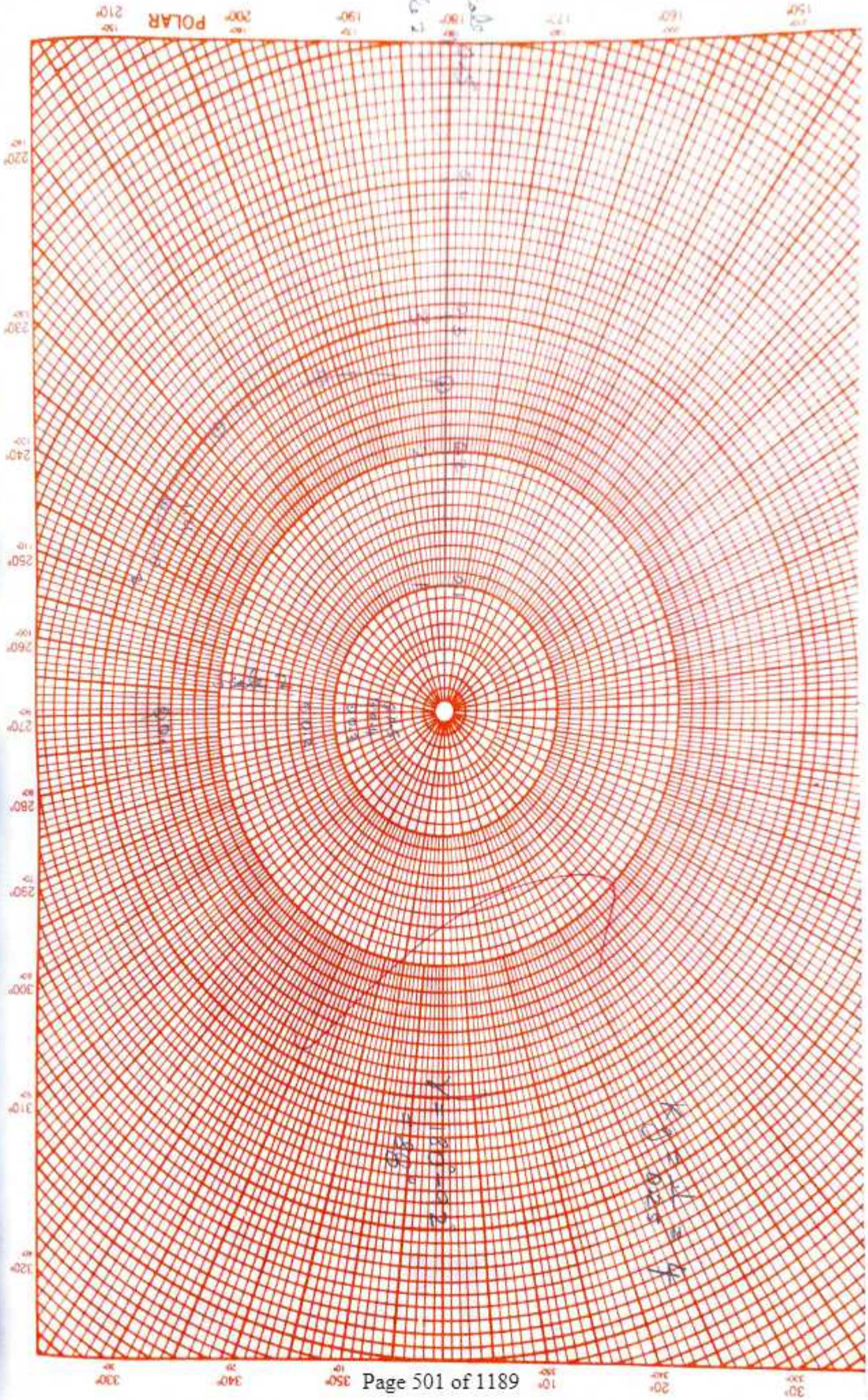
1.

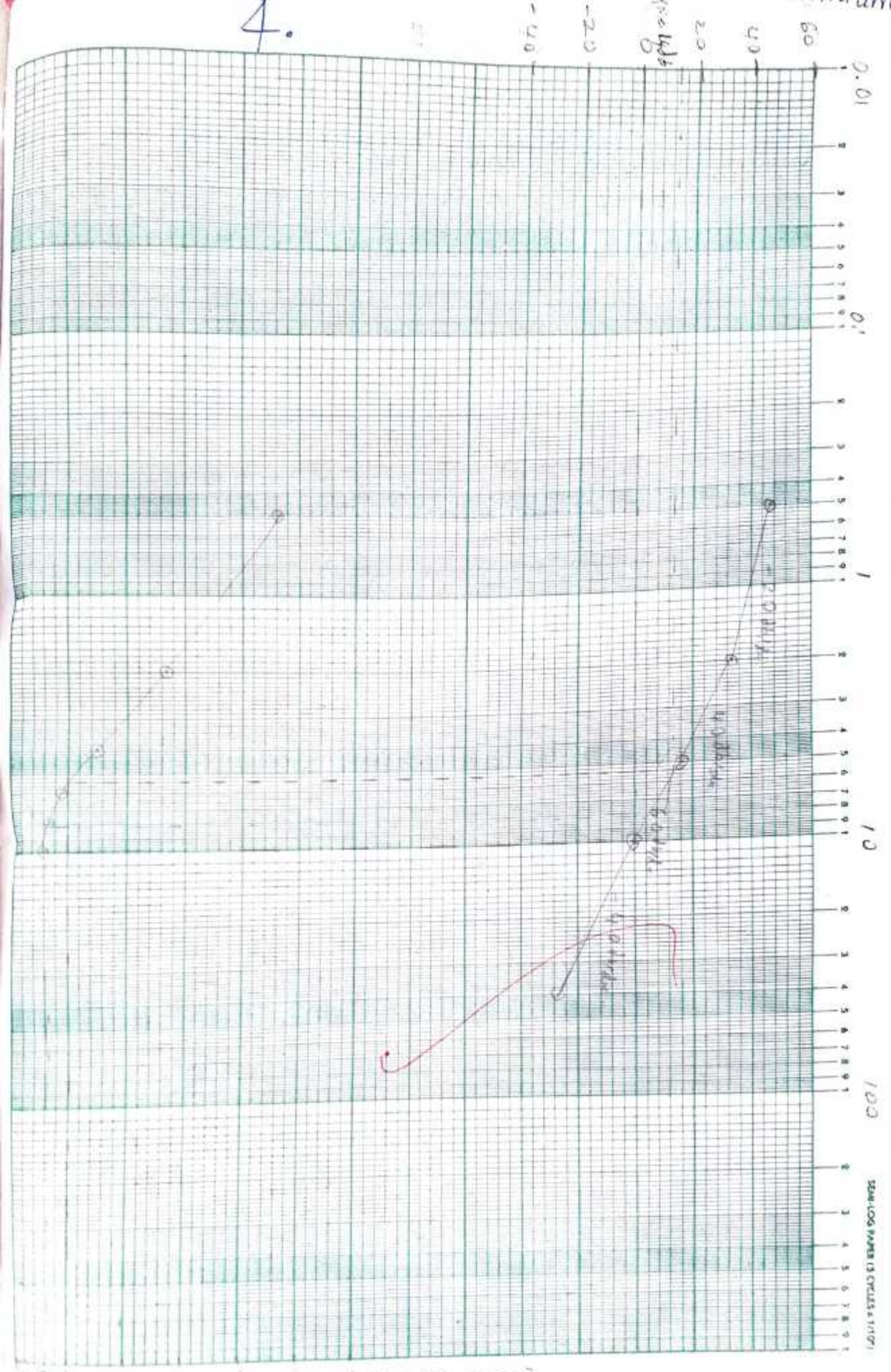



2(07.
POLAR

2(b).




3.
POLAR


4.
0.01
0.1
1
10
100

SARANATHAN COLLEGE OF ENGINEERING

Tiruchirapalli - 620 012

ANSWER BOOK

Name	G. Nithish Kumar			Year / Semester / Section	II / III / B
Batch No.	242080	Date / Session	20.09.2022 / FN	Department	ECE
Course Code	EC3351	Course Title	Control Systems		
Internal Assessment Test	I ☑	II ☐	III ☐	Model ☐	No. of pages used : 10
Name and Signature of the Invigilator with date	S. RANJANI				

INSTRUCTIONS TO THE CANDIDATES :

1. Answers for Part-A must be written in pages 2-6. Answers for Part-B must be written from page 7 onwards.
2. Write your Batch Number in the Question Paper.
3. Use both sides of the paper for answering questions.
4. The answer book contains sufficient pages and no additional sheets will be given.
5. Possesion of any incriminating material and malpractice of any nature shall be punishable as per rules.
6. Answer must be legibly written in pen (blue or black colour)

Instruction to the student : Put tick mark to the question attended in the column against question.

Part A			Part B / C					Total Marks
Q. NO	✔	Marks	Q. NO.	✔	(a) Marks	✔	(b) Marks	
1	✓	1	11					
2	✓	2	12	✓	5			5
3	✓	1	13	✓	4			4
4	✓	1	14					
5	✓	2	15					
6	✓	1	16					
7	✓	0					Total	9
8	✓	0						
9	✓	0						
10	✓	0						
Total		8	17/30		34			

Grand Total

S. Sindhumathy 20/9

Name and Signature of the Examiner with date

To be filled by the examiner

Course Outcomes	1	2	3	4	5	6	Total
Marks allotted	30	20					50
Marks Obtained	16	1					17

QAC Audit - Remarks

S. P. Jeyanthi
S. Prasanna Peteria

Name and Signature of the QAC member

SARANATHAN COLLEGE OF ENGINEERING

Tiruchirapalli - 620 012

ANSWER BOOK

Name	Sanjay . C			Year / Semester / Section	II / III / B
Batch No.	242098	Date / Session	20/9/22/F.N	Department	ECE
Course Code	EC3351	Course Title	CONTROL SYSTEMS		
Internal Assessment Test	I ☑	II ☐	III ☐	Model ☐	No. of pages used : 11
Name and Signature of the Invigilator with date	Dr. D. Geetha D Geetha 20/9/22				

INSTRUCTIONS TO THE CANDIDATES :

1. Answers for Part - A must be written in pages 2-6. Answers for Part - B must be written from page 7 onwards.
2. Write your Batch Number in the Question Paper.
3. Use both sides of the paper for answering questions.
4. The answer book contains sufficient pages and no additional sheets will be given.
5. Possesion of any incriminating material and malpractice of any nature shall be punishable as per rules.
6. Answer must be legibly written in pen (blue or black colour)

Instruction to the student : Put tick mark to the question attended in the column against question.

Part A			Part B / C					Total Marks
Q. NO.	✔	Marks	Q. NO.	✔	(a) Marks	✔	(b) Marks	
1	✔	2	11	✔	7			7
2	✔	2	12					
3	✔	1	13	✔	3			3
4		0	14					
5	✔	2	15	✔	7			7
6		0	16					
7	✔	0					Total	17
8	✔	1						
9	✔	1						
10	✔	0						
Total		9						

26/50 52% Grand Total

J. Sindhumathy J. Sindhu 20/9 — Name and Signature of the Examiner with date

To be filled by the examiner

Course Outcomes	1	2	3	4	5	6	Total
Marks allotted	30	20					50
Marks Obtained	17	9					26

QAC Audit - Remarks

S. Prasanna 9 FEBRUARY — Name and Signature of the QAC member

SARANATHAN COLLEGE OF ENGINEERING

Tiruchirapalli - 620 012

ANSWER BOOK

Name	S. Preetha			Year / Semester / Section	II / IV / B
Batch No.	2112118	Date / Session	20.09.2022 FN	Department	ECE.
Course Code	EC3351	Course Title	control System		
Internal Assessment Test	I ☑	II ☐	III ☐	Model ☐	No. of pages used :
Name and Signature of the Invigilator with date	Dr. N. Preethi Elizabeth				

INSTRUCTIONS TO THE CANDIDATES :

1. Answers for Part-A must be written in pages 2-6. Answers for Part-B must be written from page 7 onwards.
2. Write your Batch Number in the Question Paper.
3. Use both sides of the paper for answering questions.
4. The answer book contains sufficient pages and no additional sheets will be given.
5. Possesion of any incriminating material and malpractice of any nature shall be punishable as per rules.
6. Answer must be legibly written in pen (blue or black colour)

Instruction to the student : Put tick mark to the question attended in the column against question.

Part A			Part B / C					Total Marks
Q. NO.	✔	Marks	Q. NO.	✔	(a) Marks	✔	(b) Marks	
1	✓	2	11	✓	8			8
2	✓	2	12					
3	✓	1	13					
4	✓	1	14	✓	7			7
5	✓	1	15	✓	8			8
6	✓	2	16					
7	✓	2					Total	23
8	✓	0						
9	✓	1						
10	✓	2						
Total		14	37/50		74			

Grand Total

Name and Signature of the Examiner with date

J. Eindhumathy 21/9

To be filled by the examiner

Course Outcomes	1	2	3	4	5	6	Total
Marks allotted	30	20					50
Marks Obtained	22	15					37

QAC Audit - Remarks

S. P. Prassanna Perumal

Name and Signature of the QAC member

SARANATHAN COLLEGE OF ENGINEERING

Tiruchirapalli - 620 012

ANSWER BOOK

Name	R. Logesh			Year / Semester / Section	II/III/B
Batch No.	242064	Date / Session	17/10/22 - FN	Department	ECE - B
Course Code	EC3351	Course Title	CONTROL SYSTEMS		
Internal Assessment Test	I ☐	II ☑	III ☐	Model ☐	No. of pages used :
Name and Signature of the Invigilator with date	S. RANJANI	K. R. 17/10/22			

INSTRUCTIONS TO THE CANDIDATES :

1. Answers for Part-A must be written in pages 2-6. Answers for Part-B must be written from page 7 onwards.
2. Write your Batch Number in the Question Paper.
3. Use both sides of the paper for answering questions.
4. The answer book contains sufficient pages and no additional sheets will be given.
5. Possesion of any incriminating material and malpractice of any nature shall be punishable as per rules.
6. Answer must be legibly written in pen (blue or black colour)

Instruction to the student : Put tick mark to the question attended in the column against question.

Part A			Part B / C					Total Marks
Q. NO.	✔	Marks	Q. NO.	✔	(a) Marks	✔	(b) Marks	
1	✔	2	11					
2	✔	2	12	✔	9			9
3	✔	—	13					
4	✔	2	14	✔	9			9
5	✔	2	15	✔	10			10
6	✔	2	16					
7	✔	—					Total	28
8	✔	2						
9	✔	0						
10	✔	0						
Total		12						

40/50 80%

Grand Total

D. Sindhumathy 18/10

Name and Signature of the Examiner with date

To be filled by the examiner

Course Outcomes	1	2	3	4	5	6	Total
Marks allotted		30	20				50
Marks Obtained		26	14				40

QAC Audit - Remarks

S. Prasanna Perumal

Name and Signature of the QAC member

SARANATHAN COLLEGE OF ENGINEERING

Tiruchirapalli - 620 012

ANSWER BOOK

Name	S. NITHISH			Year / Semester / Section	II / III / B
Batch No.	242081	Date / Session	17-10-22 / FN	Department	ECE
Course Code	EC3351	Course Title	CONTROL SYSTEMS.		
Internal Assessment Test	I ☐	II ☑	III ☐	Model ☐	No. of pages used : 6
Name and Signature of the Invigilator with date	P. DINESHKUMAR / 17/10/22				

INSTRUCTIONS TO THE CANDIDATES :

1. Answers for Part-A must be written in pages 2-6. Answers for Part-B must be written from page 7 onwards.
2. Write your Batch Number in the Question Paper.
3. Use both sides of the paper for answering questions.
4. The answer book contains sufficient pages and no additional sheets will be given.
5. Possesion of any incriminating material and malpractice of any nature shall be punishable as per rules.
6. Answer must be legibly written in pen (blue or black colour)

Instruction to the student : Put tick mark to the question attended in the column against question.

Part A			Part B / C					Total Marks
Q. NO.	✔	Marks	Q. NO.	✔	(a) Marks	✔	(b) Marks	
1	✔	0	11					
2	✔	1	12	✔	9			9
3	✔	1	13					
4	✔	2	14	✔	9			9
5	✔	0	15					
6	✔	0	16	✔	6			6
7	✔	0					Total	24
8	✔	2						
9	✔	1						
10	✔	—						
Total		7						

31/50 — 62% — S. NITHISH — Grand Total

P. Sindhumathy 17/10 — Name and Signature of the Examiner with date

To be filled by the examiner

Course Outcomes	1	2	3	4	5	6	Total
Marks allotted		30	20				50
Marks Obtained		22	9				31

QAC Audit - Remarks

S. Prassanna Kumar — Name and Signature of the QAC member

SARANATHAN COLLEGE OF ENGINEERING

Tiruchirapalli - 620 012

ANSWER BOOK

Name	P. SUDHARSANAN.			Year / Semester / Section	II / III / B
Batch No.	242117	Date / Session	17/10/22 (FN)	Department	ECE
Course Code	EC3351	Course Title	Control Systems		
Internal Assessment Test	I ☐	II ☑	III ☐	Model ☐	No. of pages used : 13
Name and Signature of the Invigilator with date	K. MOHANAPRIYA K. Mohanapriya				

INSTRUCTIONS TO THE CANDIDATES :

1. Answers for Part-A must be written in pages 2-6. Answers for Part-B must be written from page 7 onwards.
2. Write your Batch Number in the Question Paper.
3. Use both sides of the paper for answering questions.
4. The answer book contains sufficient pages and no additional sheets will be given.
5. Possesion of any incriminating material and malpractice of any nature shall be punishable as per rules.
6. Answer must be legibly written in pen (blue or black colour)

Instruction to the student : Put tick mark to the question attended in the column against question.

Part A			Part B / C					Total Marks
Q. NO.	✔	Marks	Q. NO.	✔	(a) Marks	✔	(b) Marks	
1	✔	2	11	✔	8			8
2	✔	1	12					
3	✔	2	13					
4	✔	2	14					
5	✔	2	15	✔	7			7
6	✔	2	16					
7	✔	0					Total	15
8	✔	2						
9	✔	1						
10	✔	0						
Total		14	Grand Total		29/50		58%	

Name and Signature of the Examiner with date: S. Sindhumathy 18/10

To be filled by the examiner

Course Outcomes	1	2	3	4	5	6	Total
Marks allotted		30	20				50
Marks Obtained		17	12				29

QAC Audit - Remarks

S. Prasanna perumal

Name and Signature of the QAC member

SARANATHAN COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

ROOT CAUSE ANALYSIS

Academic Year:2022-23ODD Date:08/10/2022

Name of the Faculty: **Ms.J.Eindhumathy**	Course Code & Name:**EC3351 & CONTROL SYSTEMS**
Degree & Program:B.E/B.TECH(ECE)	Semester & Section: **3-B**
IA Test: Internal Assessment Test -1	University Exam Month & Year:**22-23ODD**
Target:90%	Achieved:70%

S.NO	BATCH NO	NAME OF THE STUDENT	CAUSES FOR FAILURE	CORRECTIVE ACTION TAKEN	PREVENTIVE ACTION TAKEN	FOLLOWUP STATUS	REMARKS OF THE HOD
1	242065	LOGESVARAN. N	Not studying well				
2	242076	NANDHA KUMARAN. S	not Studied well	Students were asked to write Slip test	Questions & answers are discussed problems solved are given to Students	Assign ment given do practise more problems & Homework given.	Do study regularly & refer standard books, Practice more problems.
3	242078	NIKILAN. S	didn't Prepare well in I.C				
4	242079	NITHEESVARAN. J B	Lack of preparation				
5	242080	NITHISH KUMAR. G	Not Studied well				
6	242084	PRASANNA KUMAR. R	Not prepared well				
7	242085	PRASHATHAN. V	Didn't Studywell				
8	242089	RAGUL. S	not prepare well.				
9	242091	RAHUL. R	not Study well.				
10	242095	ROHITH JOSHUA. M	notwell&o didn't Study				

11	242099	SANJAY. D	Didn't prepare well D. Sanjay				
12	242101	SATHIYAMOORTHY. M	Not studied well	Students were asked to concentrate more & give more attention to problems Slip test Conducted	Question bank given & more problems were discussed	Assignment & Homework given Try to Study daily & do writing practise	Be attentive in class, Improve standard books & study well.
13	242103	SHAKTHI. G	Didn't Prepare well				
14	242107	SHIVAGURU. A	Didn't prepare well				
15	242115	SUBRAMANIAN. I	Not studied well				
16	242116	SUDARSHAN. R	Not attentive in class				
17	242120	UDAYA KUMAR. B	Not studied well				
18	242122	VIGNESH. T C	Not written Remedial work				
19	242125	YOGESH KUMAR. M	not interested				

Signature of the Staff

Head of the Department

SARANATHAN COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

ROOT CAUSE ANALYSIS

Academic Year:2022-23ODD Date:01/11/2022

Name of the Faculty: **Ms.J.Eindhumathy**	Course Code & Name:**EC3351 & CONTROL SYSTEMS**
Degree & Program:B.E/B.TECH**(ECE)**	Semester & Section: **3-B**
IA Test: Internal Assessment Test -2	University Exam Month & Year:**22-23ODD**
Target:90%	Achieved:81%

S.NO	BATCH NO	NAME OF THE STUDENT	CAUSES FOR FAILURE	CORRECTIVE ACTION TAKEN	PREVENTIVE ACTION TAKEN	FOLLOWUP STATUS	REMARKS OF THE HOD
1	242065	LOGESVARAN. N	Didn't Study well				
2	242075	MUTHULAKSHMI. G	prepared but not well so confuse	Students must maintain health & Study daily do writing practise Slip test & remedial conducted	material, Solve problems & question bank given motivated to Study daily	Assignment & daily test to do writing exercise practise is made	It is the student's responsibility to study well & write hard
3	242076	NANDHA KUMARAN. S	Didn't Prepare well				
4	242078	NIKILAN. S	Didn't Study well				
5	242084	PRASANNA KUMAR. R	Not well				
6	242091	RAHUL. R	didn't Study				
7	242095	ROHITH JOSHUA. M	Healthiness				
8	242103	SHAKTHI. G	Didn't prepare well				
9	242107	SHIVAGURU. A	Careless mistakes				

10	242120	UDAYA KUMAR. B	Did not Study	Slip test conducted	question bank & material given	Assignment collected	Do Regular Study
11	242122	VIGNESH. T C	Didn't practice well				
12	242125	YOGESH KUMAR. M	not prepared well				

Signature of the Staff

Head of the Department

Faculty Feedback on Syllabus

[1] Personal Information

Name of the Faculty : J. Eindhumathy

Designation : Assistant professor Department : ECE

Course Code and Name : EC3351 control Systems

Year / Semester / Branch : II / III / ECE

AU - Regulation : R2021

Academic year / ODD or EVEN : 2022-2023 Odd

[2] Choose appropriate option against each question
(Please rate your preference) (Please kindly encircle your choice)
Disagree (DA) – 0; Partially Agree (PA) – 1; Agree (A) -2; Strongly Agree (SA) – 3;

a) The syllabus is designed to bridge the gap between academics and industry

0 1 (2) 3

b) The syllabus is designed to bridge the gap between Theory and Practical

(0) 1 2 3

c) The syllabus can be completed within the prescribed times limits

0 1 (2) 3

d) The syllabus covers modern & advanced topics

0 (1) 2 3

e) The objectives of the syllabus is clearly indicated

0 1 (2) 3

f) The contents are challenging to teach

0 (1) 2 3

g) The syllabus is designed in a way to improve Employability index

0 1 (2) 3

[3] Content Beyond the Syllabus added if any: Yes / ~~No~~

If yes, mention the Content beyond the Syllabus added in this course Non linear controltheory

Signature

13/12/2022 Slow learners coaching class Attendance

II ECE B - EC3351 Control Systems

venue - Microwavelab

SNO	Batch NO	Name	Sign
1.	242085	PRASHATHAN	
2.	242078	Nekkelan. S	
3	242107	Shivaguru A	
4	242120	Udaya Kumar B	
5	242103	G. Shakthi	
6	242125	M. Yogesh Kumar	

Topics covered

1. Bode plot
2. polar plot
3. Root locus
4. Routh array

13/12/22
Staff incharge

15/12/22
HOD/ECE

COURSE LOG

Branch: IV Sem ECE A

Subject: EC 3462 Linear Integrated Lab

Date	Day Order	Period	Particulars of Portions Covered	Remarks
1/2/23	3	678	Current Series & voltage shunt	
3/2/23	5	234	current Series & voltage shunt	
8/2/23	3	678	oscillators - RC & wien bridge	
10/2/23	5	234	oscillators - RC & wien bridge	
15/2/23	3	678	First cycle	
17/2/23	5	234	experiments	
22/2/23	3	678	1) Hartley & colpitts osc	
24/2/23	5	234	2) Integrator differentiator	
1/3/23	3	678	3) clipper clamper	
10/3/23	5	1,2,3,4	4) Instrumentation amp	
13/3/23	3	678	5) Pspice - Schmitt trigger.	
13/3/23	1	678		
15/3/23	3	678		
20/3/23	1	678	II cycle experiments	
27/3/23	1	678	1) LPF HPF BPF	
29/3/23	3	678	2) PLL char & appln	
01/4/23	3	678	3) R-2R ladder	
3/4/23	1	678	4) Pspice expts	
5/4/23	3	678	Tuned collector, Twin T, wien bridge	
10/4/23	1	678	Double & Stagger & Bistable multivibrator)	
12/4/23	3	678	analysis of power amplifier	
24/4/23	1	678		
26/4/23	3	678		
8/5/23	1	678	model lab Assessment	
10/5/23	3	678	model lab	
15/5/23	1	678	Revision	
17/5/23	3	678		
22/5/23	1	678	Revision value added	
24/5/23	3	678		

Saranathan College of Engineering
Tiruchirappalli-12

FeedBack Report : ECE Month&Year: SEP2022 Academic Year :2022-23ODD

S.no	staffcode	branch /Sem	No. partici pated	Subject Code /Title	(1) Does the faculty come Prepared for the Classes ?	(2) Subject Knowledge and Clarity of the Faculty	(3) Impartiality and Fairness to Students ?	(4) Interaction with Students by the faculty	(5) Valuable/Extra Information given during the Lectures by the faculty	(6) Enthusiasm for Subject ?	(7) Showing Concern and Care for Students?	(8) Punctuality in Evaluation of Exam Papers/ Assignments ?	(9) Whether Syllabus for IA Tests/ University Examination Completed steadily?	(10) Ability to Speak Loudly and Clearly	Total Out of
	Weigtage				**15.0**	**15.0**	**8.0**	**12.0**	**12.0**	**12.0**	**4.0**	**6.0**	**8.0**	**8.0**	**100**
1	anthuvanlydia-ece	CSE-A/5	28	EC8691/Microprocessors And Microcontrollers	13.50	13.18	7.14	10.71	10.20	10.54	3.46	5.31	7.31	7.14	88.51
2	divyab-ece	CSE-B/5	56	EC8691/Microprocessors And Microcontrollers	12.91	12.86	6.71	10.20	10.20	10.24	3.43	5.16	6.86	6.89	85.46
3	mohan-ece	ECE-A/3	61	EC3351/Control Systems	11.21	11.41	5.98	9.05	9.13	8.93	3.04	4.58	6.09	6.48	75.90
4	sivagamasundhari-ece	ECE-A/3	64	EC3352/Digital Systems Design	13.41	13.41	6.75	10.65	10.61	10.46	3.58	5.38	7.18	7.18	88.59
5	hariprasath-ece	ECE-A/3	65	EC3353/Electronic Devices And Circuits	12.51	12.37	6.25	9.56	9.71	9.56	3.26	4.87	6.60	6.52	81.22
6	sivakannu-ece	ECE-A/3	61	EC3354/Signals And Systems	14.11	14.16	7.34	10.94	10.98	10.94	3.66	5.55	7.45	7.37	92.50
7	anthuvanlydia-ece	ECE-A/5	33	EC8073/Medical Electronics	12.82	12.36	6.98	9.53	9.67	9.67	3.30	5.05	6.79	6.50	82.67
8	shanmugapriya-ece	ECE-A/5	36	EC8501/Digital Communication	12.33	12.00	6.27	8.67	8.53	8.47	2.80	4.73	6.22	6.49	76.51
9	kruthiga-ece	ECE-A/5	34	EC8551/Communication Networks	11.21	11.56	5.98	8.61	7.91	8.89	2.62	4.48	6.12	5.55	73.13
10	sivakannu-ece	ECE-A/5	37	EC8553/Discrete-Time Signal Processing	14.19	14.03	7.18	11.29	11.09	11.03	3.55	5.45	7.31	7.35	92.45
11	preethielizabeth-ece	ECE-A/5	41	OMD551/Basics Of Biomedical Instrumentation	10.61	10.61	5.93	9.13	8.90	9.19	3.12	4.68	6.05	5.97	74.20
12	arunmozhi-ece	ECE-A/7	52	EC8701/Antennas And Microwave Engineering	12.00	12.12	6.28	9.23	9.46	9.74	3.17	4.87	6.49	6.43	79.78
13	vennila-ece	ECE-A/7	53	EC8702/Ad Hoc And Wireless Sensor Networks	13.53	13.53	7.34	10.69	10.73	10.64	3.53	5.41	7.25	6.76	89.40
14	mahendran-ece	ECE-A/7	52	EC8751/Optical Communication	12.69	12.52	6.77	9.74	9.51	9.83	3.31	5.05	6.77	6.43	82.62
15	sindhumathy-ece	ECE-A/7	52	EC8791/Embedded And Real Time Systems	12.87	13.10	6.89	10.11	9.97	10.15	3.48	5.26	6.95	6.83	85.81
16	rajeswaris-ece	ECE-A/7	52	GE8076[8]/Professional Ethics in Engineering	12.06	12.58	6.58	9.51	10.02	9.97	3.20	5.10	6.68	6.71	82.40
17	padmaa-ece	ECE-A/7	52	OIC751/Transducer Engineering	12.52	12.63	6.34	9.60	9.69	10.11	3.15	5.03	6.71	6.68	82.46
18	sindhumathy-ece	ECE-B/3	63	EC3351/Control Systems	13.29	12.86	6.88	10.13	9.98	10.10	3.47	5.14	6.96	6.81	85.61
19	santhim	ECE-B/3	64	EC3352/Digital Systems Design	12.56	12.56	6.62	9.52	9.56	9.94	3.26	5.03	6.55	5.95	81.56
20	shanmugapriya-ece	ECE-B/3	66	EC3353/Electronic Devices And Circuits	12.05	12.00	6.33	9.35	9.09	9.31	3.12	4.64	6.42	6.38	78.67
21	mohan-ece	ECE-B/3	63	EC3354/Signals And Systems	11.67	11.29	6.20	9.03	9.60	8.95	3.09	4.67	5.94	6.91	77.33
22	barithabegum-ece	ECE-B/5	52	EC8073/Medical Electronics	11.71	11.48	5.88	9.00	9.51	9.32	2.97	4.82	6.46	6.40	77.55
23	rajeswaris-ece	ECE-B/5	50	EC8501/Digital Communication	12.36	12.24	6.08	9.31	9.36	9.65	2.99	4.82	6.27	6.50	79.58
24	mahendran-ece	ECE-B/5	50	EC8551/Communication Networks	12.24	12.12	6.27	9.26	9.46	9.26	3.14	4.75	6.43	6.30	79.24
25	padmaa-ece	ECE-B/5	53	EC8553/Discrete-Time Signal Processing	12.68	12.57	6.64	10.01	10.19	10.05	3.41	5.09	6.82	6.79	84.26
26	kesavan-ece	ECE-B/5	51	OMD551/Basics Of Biomedical Instrumentation	10.59	10.24	5.62	8.52	8.42	8.56	2.89	4.40	5.77	5.87	70.87
27	malaisamy-ece	ECE-B/7	75	EC8701/Antennas And Microwave Engineering	11.04	10.60	5.93	8.96	8.99	8.93	3.00	4.58	6.02	6.02	74.06
28	kruthiga-ece	ECE-B/7	68	EC8702/Ad Hoc And Wireless Sensor Networks	13.32	13.24	7.27	10.73	10.69	10.48	3.62	5.47	7.29	7.20	89.32
29	vennila-ece	ECE-B/7	74	EC8751/Optical Communication	13.95	14.07	7.42	11.09	11.09	10.93	3.78	5.63	7.63	7.50	93.09

30	divya-ece	ECE-B/7	67	EC8791/Embedded And Real Time Systems	10.03	10.03	5.42	7.92	7.88	8.06	2.53	4.03	5.35	5.40	66.64
31	arunmozhi-ece	ECE-B/7	72	GE8076/Professional Ethics In Engineering	12.82	12.42	6.76	9.70	9.90	9.53	3.37	5.07	6.96	6.82	83.14
32	barithabegum-ece	ECE-B/7	73	OIC751/Transducer Engineering	12.66	12.45	6.82	10.16	9.90	10.16	3.25	5.08	6.88	6.86	84.22
33	malaisamy-ece	ICE-A/5	26	EE8551/Microprocessors And Microcontrollers	11.42	11.42	5.72	8.68	7.48	8.77	2.77	5.03	6.52	6.46	74.28
34	malaisamy-ece	ICE-A/5	26	EE8681/Microprocessors And Microcontrollers Laboratory	12.00	11.54	6.09	8.95	8.77	9.05	2.83	4.85	6.65	6.52	77.25
35	hariprasath-ece	ICE-A/7	42	EC8093/Digital Image Processing	13.29	12.79	6.36	9.60	8.86	10.11	3.26	5.09	6.82	6.90	83.06
36	sivagamasundhari-ece	IT-A/5	46	EC8691/Microprocessors And Microcontrollers	13.04	12.91	6.85	10.02	9.97	10.02	3.36	5.17	6.85	6.89	85.07

FeedBack Report : ECE Month&Year: NOV2022 Academic Year :2022-23ODD

S.no	staffcode	branch /Sem	No. particl pated	Subject Code /Title	(1) Does the faculty come Prepared for the Classes ?	(2) Subject Knowledge and Clarity of the Faculty	(3) Impartiality and Fairness to Students ?	(4) Interaction with Students by the faculty	(5) Valuable/Extra Information given during the Lectures by the faculty	(6) Enthusiasm for Subject ?	(7) Showing Concern and Care for Students?	(8) Punctuality in Evaluation of Exam Papers/ Assignments ?	(9) Whether Syllabus for IA Tests/ University Examination Completed steadily?	(10) Ability to Speak Loudly and Clearly	Total Out of
	Weigtage				15.0	15.0	8.0	12.0	12.0	12.0	4.0	6.0	8.0	8.0	100
1	anthuvanlydia-ece	CSE-A/5	54	EC8691/Microprocessors And Microcontrollers	14.56	14.22	7.59	11.47	11.51	11.42	3.82	5.76	7.70	7.61	95.86
2	divya-ece	CSE-B/5	63	EC8691/Microprocessors And Microcontrollers	11.00	10.67	5.94	8.53	8.04	8.53	2.97	4.78	6.17	5.74	72.38
3	mohan-ece	ECE-A/3	63	EC3351/Control Systems	11.24	11.19	5.94	8.84	9.14	9.10	3.06	4.59	5.87	6.27	75.25
4	sivaganesundhan-ece	ECE-A/3	62	EC3352/Digital Systems Design	13.84	13.60	6.76	10.49	10.72	10.41	3.56	5.36	7.20	7.10	89.04
5	hariprasath-ece	ECE-A/3	65	EC3353/Electronic Devices And Circuits	11.72	11.58	5.71	9.18	9.45	9.64	3.09	4.63	6.18	6.45	77.62
6	sivakannu-ece	ECE-A/3	62	EC3354/Signals And Systems	13.65	13.69	7.12	10.72	10.34	10.68	3.51	5.48	7.15	7.12	89.46
7	anthuvanlydia-ece	ECE-A/5	66	EC8073/Medical Electronics	12.05	12.23	6.33	9.67	9.49	9.53	3.25	4.76	6.47	6.50	80.27
8	shanmugapriya-ece	ECE-A/5	67	EC8501/Digital Communication	11.60	11.60	6.04	8.96	8.67	9.21	3.00	4.64	6.11	6.42	76.24
9	kruthiga-ece	ECE-A/5	66	EC8551/Communication Networks	11.91	11.55	6.18	9.24	9.35	9.27	3.13	4.75	6.33	6.06	77.75
10	sivakannu-ece	ECE-A/5	65	EC8553/Discrete-Time Signal Processing	13.52	13.48	7.16	11.00	10.82	10.97	3.66	5.50	7.48	7.43	91.02
11	preethelizabeth-ece	ECE-A/5	69	OMD551/Basics Of Biomedical Instrumentation	11.30	11.22	5.96	8.94	8.97	9.01	2.94	4.57	6.21	6.33	75.47
12	arunmozhi-ece	ECE-A/7	58	EC8701/Antennas And Microwave Engineering	11.48	11.28	5.96	9.19	8.81	9.10	3.01	4.81	6.23	6.10	75.77
13	vennila-ece	ECE-A/7	61	EC8702/Ad Hoc And Wireless Sensor Networks	12.89	12.69	6.90	10.07	9.95	10.31	3.42	5.15	6.90	6.56	84.84
14	mahendran-ece	ECE-A/7	57	EC8751/Optical Communication	12.21	12.26	6.65	9.68	9.60	9.85	3.27	4.91	6.62	6.37	81.44
15	sendhumathy-ece	ECE-A/7	56	EC8791/Embedded And Real Time Systems	12.75	12.43	6.74	9.90	9.77	9.90	3.33	4.93	6.71	6.51	82.98
16	rajeswaris-ece	ECE-A/7	56	GE8076(8)/Professional Ethics In Engineering	12.38	12.05	6.26	9.69	10.11	9.77	3.10	4.95	6.66	6.54	81.51
17	padmaa-ece	ECE-A/7	56	OIC751/Transducer Engineering	12.21	12.43	6.37	9.77	9.73	9.64	3.19	4.93	6.49	6.40	81.16
18	sendhumathy-ece	ECE-B/3	63	EC3351/Control Systems	13.38	13.29	7.11	10.67	10.51	10.59	3.59	5.43	7.16	7.14	88.87
19	santhi	ECE-B/3	62	EC3352/Digital Systems Design	12.53	12.58	6.68	9.72	9.87	9.75	3.34	4.92	6.40	6.14	81.94
20	shanmugapriya-ece	ECE-B/3	65	EC3353/Electronic Devices And Circuits	11.95	11.91	6.42	9.49	9.19	9.42	3.18	4.84	6.38	6.33	79.10
21	mohan-ece	ECE-B/3	63	EC3354/Signals And Systems	11.76	11.81	6.40	9.64	9.90	9.56	3.17	4.72	5.99	6.83	79.80
22	banithabegum-ece	ECE-B/5	51	EC8073/Medical Electronics	11.47	11.29	6.02	9.13	9.04	8.99	3.07	4.78	6.49	6.31	76.59
23	rajeswaris-ece	ECE-B/5	52	EC8501/Digital Communication	11.08	11.13	5.82	8.54	8.49	8.63	2.80	4.36	5.88	5.97	72.70
24	mahendran-ece	ECE-B/5	51	EC8551/Communication Networks	11.47	11.18	5.99	8.99	8.99	9.13	3.07	4.61	6.18	5.90	75.51
25	padmaa-ece	ECE-B/5	52	EC8553/Discrete-Time Signal Processing	11.83	11.71	6.12	9.32	9.09	9.28	3.11	4.64	6.34	6.28	77.72
26	kesavan-ece	ECE-B/5	54	OMD551/Basics Of Biomedical Instrumentation	12.33	12.28	6.58	9.87	9.82	9.69	3.35	5.09	6.73	6.79	82.51
27	malaisamy-ece	ECE-B/7	63	EC8701/Antennas And Microwave Engineering	10.52	10.81	5.79	8.65	8.30	8.65	2.84	4.44	5.89	5.71	71.61
28	kruthiga-ece	ECE-B/7	65	EC8702/Ad Hoc And Wireless Sensor Networks	12.32	12.55	6.60	9.67	9.93	9.90	3.32	4.82	6.60	6.38	82.09
29	vennila-ece	ECE-B/7	65	EC8751/Optical Communication	13.71	13.98	7.26	11.04	11.08	11.19	3.70	5.65	7.51	7.09	92.21

30	divyab-ece	ECE-B/7	67	EC8791/Embedded And Real Time Systems	11.06	10.97	5.68	8.67	8.53	9.10	2.95	4.59	6.14	5.80	73.48
31	arunmozhi-ece	ECE-B/7	61	GE8076[8]/Professional Ethics In Engineering	12.34	12.34	6.50	9.80	9.72	9.80	3.19	4.94	6.58	6.53	81.74
32	banthabegum-ece	ECE-B/7	62	OIC751/Transducer Engineering	12.44	12.77	6.66	10.10	9.99	10.06	3.28	5.07	6.74	6.84	83.95
33	malaisamy-ece	ICE-A/5	27	EE8551/Microprocessors And Microcontrollers	11.11	10.56	5.87	8.71	8.27	8.53	2.84	4.58	6.22	6.04	72.73
34	malaisamy-ece	ICE-A/5	28	EE8681/Microprocessors And Microcontrollers Laboratory	10.61	10.71	5.54	8.66	8.49	8.40	2.77	4.50	5.83	5.83	71.34
35	hariswasath-ece	ICE-A/7	43	EC8093/Digital Image Processing	12.98	13.26	6.73	10.16	9.82	10.38	3.35	5.08	6.92	7.03	85.71
36	shagamasundhan-ece	IT-A/5	49	EC8691/Microprocessors And Microcontrollers	12.86	12.67	6.73	9.99	9.80	9.94	3.35	5.12	6.82	6.96	84.23

Saranathan College of Engineering
Tiruchirappalli-12

FeedBack Report : ECE Month&Year: MARCH2023 Academic Year :2022-23EVEN

S.no	staffcode	branch /Sem	No. partici pated	Subject Code /Title	(1) Does the faculty come Prepared for the Classes ?	(2) Subject Knowledge and Clarity of the Faculty	(3) Impartiality and Fairness to Students ?	(4) Interaction with Students by the faculty	(5) Valuable/Extra Information given during the Lectures by the faculty	(6) Enthusiasm for Subject ?	(7) Showing Concern and Care for Students?	(8) Punctuality in Evaluation of Exam Papers/ Assignments ?	(9) Whether Syllabus for IA Tests/ University Examination Completed steadily?	(10) Ability to Speak Loudly and Clearly	Total Out of
	Weightage				15.0	15.0	8.0	12.0	12.0	12.0	4.0	8.0	8.0	8.0	100
1	sivagamasundhari-ece	ECE-A/2	60	EC3251/Circuit Analysis	12.30	11.45	6.00	9.08	8.44	9.24	3.24	4.60	6.29	6.24	76.88
2	rajeswari-ece	ECE-A/2	60	GE3252/Tamils And Technology	12.50	12.65	6.72	9.80	10.24	10.24	3.35	4.76	6.53	6.77	83.56
3	rajeswari-ece	ECE-A/4	59	EC3401/Networks And Security	12.05	12.15	6.21	9.23	9.15	9.23	3.11	4.62	6.37	6.45	78.79
4	vindhumathy-ece	ECE-A/4	59	EC3451/Linear Integrated Circuits	12.61	12.46	6.59	10.05	10.01	9.93	3.36	5.06	6.89	6.73	83.68
5	mohan-ece	ECE-A/4	60	EC3452/Electromagnetic Fields	12.05	11.75	6.16	9.52	9.64	9.40	3.25	4.90	6.51	6.61	79.79
6	banthabegum-ece	ECE-A/4	61	EC3491/Communication Systems	12.64	12.59	6.53	10.03	9.80	9.88	3.28	5.00	6.89	6.81	83.54
7	sivakamo-ece	ECE-A/4	59	EC3492/Digital Signal Processing	14.19	14.08	7.29	11.23	11.06	11.11	3.73	5.59	7.38	7.51	93.17
8	santhi	ECE-A/6	63	EC8095/Vlsi Design	12.81	13.00	6.53	9.94	9.90	10.02	3.28	4.78	6.58	6.65	93.70
9	santhi	ECE-A/6	62	EC8611/Technical Seminar	11.95	12.34	6.45	9.72	9.64	9.52	3.19	4.90	6.50	6.53	80.74
10	banthabegum-ece	ECE-A/6	68	EC8651/Transmission Lines And Rf Systems	13.24	13.01	6.80	10.20	10.13	10.09	3.44	5.12	6.73	6.54	85.30
11	preethelizabeth-ece	ECE-A/6	67	EC8652/Wireless Communication	12.31	12.36	6.71	9.96	10.10	9.74	3.31	4.87	6.45	6.23	82.04
12	anthuvaniyda-ece	ECE-A/6	61	EC8691/Microprocessors And Microcontrollers	12.39	12.49	6.61	9.72	9.84	9.88	3.25	4.84	6.50	6.53	82.05
13	rajeswari-ece	ECE-A/6	65	GE8076(B)/Professional Ethics In Engineering	12.88	12.46	6.62	9.93	9.75	9.67	3.25	5.02	6.65	6.52	82.75
14	anthuvaniyda-ece	ECE-A/6	58	TP/Training And Placement	11.33	11.43	6.23	9.43	9.19	9.43	3.17	4.72	6.18	6.23	77.35
15	hariprasath-ece	ECE-B/2	58	EC3251/Circuit Analysis	12.72	12.78	6.23	9.85	9.64	9.89	3.19	5.09	6.76	6.96	83.10
16	preethelizabeth-ece	ECE-B/2	58	GE3252/Tamils And Technology	11.59	11.43	6.12	9.39	9.31	9.27	3.03	4.55	6.07	6.34	77.22
17	mahendran-ece	ECE-B/4	53	EC3401/Networks And Security	10.96	11.26	5.71	8.78	8.60	8.92	2.94	4.46	6.07	6.04	73.77
18	padmae-ece	ECE-B/4	53	EC3451/Linear Integrated Circuits	12.28	12.23	6.37	9.69	9.33	9.51	3.25	4.89	6.49	6.52	80.55
19	shanmugapriya-ece	ECE-B/4	54	EC3452/Electromagnetic Fields	12.28	12.50	6.61	10.00	9.91	10.18	3.30	5.11	6.79	6.70	83.37
20	arunmozhi-ece	ECE-B/4	53	EC3491/Communication Systems	12.23	12.34	6.61	9.69	9.83	9.74	3.29	4.94	6.64	6.55	81.85
21	mohan-ece	ECE-B/4	54	EC3492/Digital Signal Processing	11.67	11.67	6.28	9.60	9.60	9.42	3.17	4.80	6.31	6.61	78.13
22	padmaa-ece	ECE-B/6	26	EC8002/Multimedia Compression And Communication	12.12	12.00	6.34	9.42	9.05	9.32	3.17	4.80	6.28	6.28	78.76
23	vennila-ece	ECE-B/6	32	EC8095/Vlsi Design	13.22	13.31	7.00	10.43	10.35	10.73	3.60	5.40	7.20	6.80	88.03
24	santhi	ECE-B/6	32	EC8611/Technical Seminar	12.09	12.38	6.60	9.75	10.06	9.98	3.35	4.95	6.65	6.60	82.39
25	shanmugapriya-ece	ECE-B/6	32	EC8651/Transmission Lines And Rf Systems	12.66	12.66	6.80	10.12	9.90	9.90	3.35	5.18	6.85	6.80	84.21
26	kiruthiga-ece	ECE-B/6	32	EC8652/Wireless Communication	12.75	12.64	7.10	10.35	10.20	10.35	3.55	5.29	6.95	6.95	86.33
27	malaisamy-ece	ECE-B/6	31	EC8691/Microprocessors And Microcontrollers	10.65	10.65	5.52	8.52	8.28	8.28	2.81	4.22	5.63	5.68	70.23
28	arunmozhi-ece	ECE-B/6	32	GE8076(B)/Professional Ethics In Engineering	12.09	11.91	6.15	9.30	9.07	9.00	3.17	4.88	6.65	6.70	78.93
29	kasavan-ece	EEE-A/4	54	EE3402/Linear Integrated Circuits Ptc 3 0 0 3 3	11.39	11.29	6.16	9.29	9.02	9.24	3.04	4.64	6.22	6.16	76.45
30	divya-ece	ICE-A/4	18	IC3402/Embedded Systems And Iot	11.83	11.83	6.22	9.47	9.47	8.93	3.02	5.00	6.31	6.31	78.40

Saranathan College of Engineering
Tiruchirappalli-12

FeedBack Report : ECE Month&Year: may2023 Academic Year :2022-23EVEN

S.no	staffcode	branch /Sem	No. particiapated	Subject Code /Title	(1) Does the faculty come Prepared for the Classes ?	(2) Subject Knowledge and Clarity of the Faculty	(3) Impartiality and Fairness to Students ?	(4) Interaction with Students by the faculty	(5) Valuable/Extra information given during the Lectures by the faculty	(6) Enthusiasm for Subject ?	(7) Showing Concern and Care for Students?	(8) Punctuality in Evaluation of Exam Papers/ Assignments ?	(9) Whether Syllabus for IA Tests/ University Examination Completed steadily?	(10) Ability to Speak Loudly and Clearly	Total Out of
	Weigtage				15.0	15.0	8.0	12.0	12.0	12.0	4.0	6.0	8.0	8.0	100
1	rajeswarie-ece	ECE-A/4	52	EC3401/Networks And Security	11.19	10.98	5.85	8.68	8.91	8.86	2.82	4.48	5.91	6.00	73.65
2	sivathunathy-ece	ECE-A/4	52	EC3451/Linear Integrated Circuits	12.23	11.88	6.40	9.46	9.69	9.32	3.18	4.75	6.46	6.22	79.61
3	mohan-ece	ECE-A/4	54	EC3452/Electromagnetic Fields	11.83	12.22	6.46	9.78	9.73	9.33	3.19	4.84	6.52	6.52	80.43
4	banthubegum-ece	ECE-A/4	52	EC3491/Communication Systems	11.83	11.83	6.28	9.37	9.32	9.32	3.15	4.66	6.25	5.97	77.98
5	sivakannu-ece	ECE-A/4	53	EC3492/Digital Signal Processing	13.98	14.04	7.34	11.05	11.14	11.23	3.84	5.52	7.34	7.37	92.64
6	santhin	ECE-A/6	32	EC8095/Vlsi Design	12.00	12.09	6.45	9.23	9.07	9.30	3.08	4.54	6.25	6.25	78.26
7	santhin	ECE-A/6	37	EC8611/Technical Seminar	11.59	11.84	6.40	9.47	9.26	9.34	3.09	4.63	6.18	6.23	78.25
8	banthubegum-ece	ECE-A/6	35	EC8651/Transmission Lines And Rf Systems	12.17	12.17	6.35	9.61	9.53	9.94	3.20	4.90	6.49	6.22	80.79
9	preethelizabeth-ece	ECE-A/6	33	EC8652/Wireless Communication	11.91	11.45	6.35	9.67	9.31	9.45	3.20	4.80	6.40	6.35	78.90
10	anthuvanlydia-ece	ECE-A/6	41	EC8691/Microprocessors And Microcontrollers	12.07	11.93	6.44	9.54	9.54	9.42	3.18	4.83	6.44	6.36	79.76
11	rajeswarie-ece	ECE-A/6	34	GE8076(B)/Professional Ethics In Engineering	12.00	12.00	6.21	9.39	9.46	9.32	3.11	4.73	6.31	6.16	78.68
12	anthuvanlydia-ece	ECE-A/6	38	TP/Training And Placement	11.84	11.92	6.38	9.47	9.47	9.35	3.12	4.86	6.32	6.32	79.03
13	mahendran-ece	ECE-B/4	69	EC3401/Networks And Security	11.09	11.04	5.87	8.90	9.01	8.90	2.98	4.49	6.03	5.96	74.27
14	padmaa-ece	ECE-B/4	66	EC3451/Linear Integrated Circuits	12.00	12.14	6.30	9.75	9.67	9.78	3.31	4.91	6.55	6.52	80.92
15	shanmugapriya-ece	ECE-B/4	67	EC3452/Electromagnetic Fields	12.54	12.49	6.78	9.96	9.85	9.81	3.32	4.98	6.61	6.59	82.94
16	arunmozhi-ece	ECE-B/4	65	EC3491/Communication Systems	11.91	11.82	6.18	9.23	9.34	9.30	3.09	4.76	6.45	6.40	78.48
17	mohan-ece	ECE-B/4	64	EC3492/Digital Signal Processing	12.56	12.56	6.65	10.16	10.31	10.01	3.33	5.08	6.82	6.88	84.37
18	padmaa-ece	ECE-B/6	46	EC8002/Multimedia Compression And Communication	10.30	10.11	5.39	8.03	8.09	8.19	2.68	4.07	5.46	5.39	67.72
19	vennila-ece	ECE-B/6	51	EC8095/Vlsi Design	12.35	12.41	6.71	9.96	9.84	9.79	3.17	4.78	6.49	6.15	81.67
20	santhin	ECE-B/6	50	EC8611/Technical Seminar	11.04	11.04	5.89	8.69	8.59	8.74	2.94	4.49	5.86	5.89	73.16
21	shanmugapriya-ece	ECE-B/6	50	EC8651/Transmission Lines And Rf Systems	11.40	11.40	5.98	8.74	8.69	9.07	3.02	4.61	6.11	6.08	75.10
22	kiruthiga-ece	ECE-B/6	50	EC8652/Wireless Communication	12.06	12.00	6.34	9.50	9.26	9.55	3.17	4.87	6.40	6.46	79.62
23	malasamy-ece	ECE-B/6	51	EC8691/Microprocessors And Microcontrollers	9.59	9.35	4.77	7.39	7.29	7.01	2.35	3.55	4.86	4.83	61.00
24	arunmozhi-ece	ECE-B/6	53	GE8076(B)/Professional Ethics In Engineering	10.58	10.58	5.65	8.92	8.78	8.42	2.78	4.39	5.80	5.83	71.74
25	kesavan-ece	EEE-A/4	49	EE3402/Linear Integrated Circuits Poc 3 0 0 3 3	10.41	10.41	5.55	8.23	8.13	8.18	2.78	4.29	5.71	5.62	69.30
26	divya-ece	ICE-A/4	17	IC3402/Embedded Systems And Iot	10.94	10.76	5.93	8.75	9.32	8.61	2.87	4.52	6.12	6.12	73.94

Faculty Feedback Report of ECE Department

Academic Year 2022-23

ODD SEMESTER

Members: HOD/ECE, Faculty Members of ECE

Venue : Microwave Lab

Time : 11.00 A.M – 12.00 P.M

The meeting was convened by the HOD with the faculty Members.

The following points were discussed in the meeting.

Staff members were advised to prepare well, have clarity in the concepts by referring standard books, discussing with the subject experts in our department, interact with the students, and provide related additional input to the students.

S.NO	NAME	YEAR/SEC	SUBJECT NAME	PERCENTAGE
1	Mr.K.Malaisamy	ECE-B/7	EC8701/Antennas And Microwave Engineering	72.83
2	Ms.B.Divya	ECE-B/7	EC8791/Embedded And Real Time Systems	70.48
3	Ms.S.Kiruthiga	ECE-A/5	EC8551/Communication Networks	75.44

HOD/ECE

PRINCIPAL

Faculty Feedback Report of ECE Department

Academic Year 2022-23

EVEN SEMESTER

Members: HOD/ECE, Faculty Members of ECE

Venue : Microwave Lab

Time : 11.00 A.M – 12.00 P.M

The meeting was convened by the HOD with the faculty Members.

The following points were discussed in the meeting.

Staff members were advised to prepare well, have clarity in the concepts by referring standard books, discussing with the subject experts in our department, interact with the students, and provide related additional input to the students.

S.NO	NAME	YEAR/SEC	SUBJECT NAME	PERCENTAGE
1	Mr.K.Malaisamy	ECE-B/6	EC8691/Microprocessors And Microcontrollers	65.61
2	Mr.M.Mahendran	ECE-B/4	EC3401/Networks And Security	74.02
3	Mr.A. Kesavan	EEE-A/4	EE3402/Linear Integrated Circuits	72.87

HOD/ECE

PRINCIPAL

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23ODD** Semester : **3** Programme: **B.E/B.Tech (ECE)**
Subject Code : **CS3353** NBA Code : **C202** Title **C PROGRAMMING AND DATA STRUCTURES**
Faculty: Ms.E.Shapna Rani / Ms.E.Elankathir

Cos	CO Description	Attained Level	%
C202.1	Learn the basics of C, Decision Making and Looping Statements, Functions and Arrays concepts.	3.0	100.00
C202.2	Learn the concept of Structures, Union, Pointers and File handling in C.	3.0	100.00
C202.3	Explain the Linear data structures like List, Stack and Queue and their applications.	2.54	84.67
C202.4	Discuss the Non-Linear data structure Tree, its Representation, Types, Traversals and applications.	2.48	82.67
C202.5	Learn the concept of Hashing and its types.	2.5	83.33
C202.6	Discuss the various Sorting and Searching algorithms.	3.0	100.00

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 126

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
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242003	CS3353	3	3	3	2	3	3	24/02/2023	ECE	3
242004	CS3353	3	3	2	3	3	3	24/02/2023	ECE	3
242006	CS3353	3	3	3	2	2	3	24/02/2023	ECE	3
242007	CS3353	3	3	3	3	2	3	24/02/2023	ECE	3
242008	CS3353	3	3	3	3	3	3	24/02/2023	ECE	3
242009	CS3353	3	3	3	2	3	3	24/02/2023	ECE	3
242010	CS3353	3	3	3	3	3	3	24/02/2023	ECE	3
242011	CS3353	3	3	2	2	3	3	24/02/2023	ECE	3
242012	CS3353	3	3	3	3	3	3	24/02/2023	ECE	3

242013	CS3353	3	3	2	3	2	3	24/02/2023	ECE	3
242014	CS3353	3	3	3	3	2	3	24/02/2023	ECE	3
242015	CS3353	3	3	2	3	3	3	24/02/2023	ECE	3
242016	CS3353	3	3	2	2	2	3	24/02/2023	ECE	3
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242019	CS3353	3	3	2	3	3	3	24/02/2023	ECE	3
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242075	CS3353	3	3	3	3	2	3	24/02/2023	ECE	3
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242081	CS3353	3	3	3	2	2	3	24/02/2023	ECE	3
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242131	CS3353	3	3	3	2	2	3	24/02/2023	ECE	3
242132	CS3353	3	3	3	3	2	3	24/02/2023	ECE	3
Attained Level		3.0	3.0	2.54	2.48	2.5	3.0			
%		100.00	100.00	84.67	82.67	83.33	100.00			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23ODD** Semester : **3** Programme: **B.E/B.Tech (ECE)**
Subject Code : **EC3351** NBA Code : **CO4** Title **CONTROL SYSTEMS**
Faculty: Dr.V.Mohan / Ms.J.Eindhumathy

Cos	CO Description	Attained Level	%
CO4.1	To introduce the components and their representation of control systems	3.0	100.00
CO4.2	To introduce the components and their representation of control systems	3.0	100.00
CO4.3	To learn various methods for analyzing the time response, frequency response and stability of the systems	2.44	81.33
CO4.4	To learn various methods for analyzing the time response, frequency response and stability of the systems	2.56	85.33
CO4.5	To learn the various approach for the state variable analysis.	2.5	83.33
CO4.6	To learn the various approach for the state variable analysis.	3.0	100.00

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 126

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
242001	EC3351	3	3	3	3	3	3	24/02/2023	ECE	3
242002	EC3351	3	3	3	2	3	3	24/02/2023	ECE	3
242003	EC3351	3	3	3	3	2	3	24/02/2023	ECE	3
242004	EC3351	3	3	3	3	3	3	24/02/2023	ECE	3
242006	EC3351	3	3	2	2	2	3	24/02/2023	ECE	3
242007	EC3351	3	3	2	3	3	3	24/02/2023	ECE	3
242008	EC3351	3	3	2	3	2	3	24/02/2023	ECE	3
242009	EC3351	3	3	3	2	3	3	24/02/2023	ECE	3
242010	EC3351	3	3	3	2	3	3	24/02/2023	ECE	3
242011	EC3351	3	3	3	3	2	3	24/02/2023	ECE	3
242012	EC3351	3	3	2	3	3	3	24/02/2023	ECE	3
242013	EC3351	3	3	2	2	2	3	24/02/2023	ECE	3

242014	EC3351	3	3	2	3	3	3	24/02/2023	ECE	3
242015	EC3351	3	3	2	3	2	3	24/02/2023	ECE	3
242016	EC3351	3	3	3	2	3	3	24/02/2023	ECE	3
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242020	EC3351	3	3	2	2	3	3	24/02/2023	ECE	3
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242048	EC3351	3	3	2	2	3	3	24/02/2023	ECE	3
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242101	EC3351	3	3	3	3	3	3	24/02/2023	ECE	3
242102	EC3351	3	3	3	3	3	3	24/02/2023	ECE	3
242103	EC3351	3	3	2	3	3	3	24/02/2023	ECE	3
242104	EC3351	3	3	3	3	2	3	24/02/2023	ECE	3
242105	EC3351	3	3	2	3	2	3	24/02/2023	ECE	3
242106	EC3351	3	3	2	2	2	3	24/02/2023	ECE	3
242107	EC3351	3	3	3	3	2	3	24/02/2023	ECE	3
242108	EC3351	3	3	3	2	3	3	24/02/2023	ECE	3
242109	EC3351	3	3	3	3	2	3	24/02/2023	ECE	3
242110	EC3351	3	3	2	2	3	3	24/02/2023	ECE	3
242111	EC3351	3	3	2	2	2	3	24/02/2023	ECE	3

242112	EC3351	3	3	2	2	2	3	24/02/2023	ECE	3
242113	EC3351	3	3	2	3	2	3	24/02/2023	ECE	3
242114	EC3351	3	3	3	3	3	3	24/02/2023	ECE	3
242115	EC3351	3	3	2	3	3	3	24/02/2023	ECE	3
242116	EC3351	3	3	3	2	2	3	24/02/2023	ECE	3
242117	EC3351	3	3	2	3	3	3	24/02/2023	ECE	3
242118	EC3351	3	3	2	3	3	3	24/02/2023	ECE	3
242119	EC3351	3	3	2	3	2	3	24/02/2023	ECE	3
242120	EC3351	3	3	3	3	3	3	24/02/2023	ECE	3
242121	EC3351	3	3	3	3	2	3	24/02/2023	ECE	3
242122	EC3351	3	3	2	3	3	3	24/02/2023	ECE	3
242123	EC3351	3	3	2	3	3	3	24/02/2023	ECE	3
242124	EC3351	3	3	3	3	2	3	24/02/2023	ECE	3
242125	EC3351	3	3	2	3	3	3	24/02/2023	ECE	3
242126	EC3351	3	3	2	3	3	3	24/02/2023	ECE	3
242127	EC3351	3	3	3	2	2	3	24/02/2023	ECE	3
242128	EC3351	3	3	2	2	3	3	24/02/2023	ECE	3
242129	EC3351	3	3	2	2	2	3	24/02/2023	ECE	3
242130	EC3351	3	3	2	3	2	3	24/02/2023	ECE	3
242131	EC3351	3	3	2	2	2	3	24/02/2023	ECE	3
242132	EC3351	3	3	2	3	2	3	24/02/2023	ECE	3
Attained Level		3.0	3.0	2.44	2.56	2.5	3.0			
%		100.00	100.00	81.33	85.33	83.33	100.00			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23ODD** Semester : **3** Programme: **B.E/B.Tech (ECE)**
Subject Code : **EC3352** NBA Code : **C206** Title **DIGITAL SYSTEMS DESIGN**
Faculty: Ms.P.Sivagamasundhari / Dr.M.Santhi

Cos	CO Description	Attained Level	%
C206.1	Use Boolean algebra and simplification procedures relevant to digital logic.	3.0	100.00
C206.2	Design various combinational digital circuits using logic gates.	3.0	100.00
C206.3	Analyse and design synchronous sequential circuits.	2.51	83.67
C206.4	Analyse and design asynchronous sequential circuits.	2.52	84.00
C206.5	Build logic gates and use programmable devices	2.54	84.67
C206.6	Use Digital Electronics in present Contemporary World	3.0	100.00

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 126

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
242001	EC3352	3	3	2	3	2	3	24/02/2023	ECE	3
242002	EC3352	3	3	3	3	2	3	24/02/2023	ECE	3
242003	EC3352	3	3	3	3	3	3	24/02/2023	ECE	3
242004	EC3352	3	3	2	2	3	3	24/02/2023	ECE	3
242006	EC3352	3	3	2	3	2	3	24/02/2023	ECE	3
242007	EC3352	3	3	3	3	3	3	24/02/2023	ECE	3
242008	EC3352	3	3	2	2	3	3	24/02/2023	ECE	3
242009	EC3352	3	3	2	3	3	3	24/02/2023	ECE	3
242010	EC3352	3	3	3	3	2	3	24/02/2023	ECE	3
242011	EC3352	3	3	2	3	2	3	24/02/2023	ECE	3
242012	EC3352	3	3	2	2	3	3	24/02/2023	ECE	3
242013	EC3352	3	3	3	2	3	3	24/02/2023	ECE	3
242014	EC3352	3	3	2	3	2	3	24/02/2023	ECE	3

242015	EC3352	3	3	2	3	3	3	24/02/2023	ECE	3
242016	EC3352	3	3	3	2	3	3	24/02/2023	ECE	3
242017	EC3352	3	3	3	2	2	3	24/02/2023	ECE	3
242018	EC3352	3	3	3	2	2	3	24/02/2023	ECE	3
242019	EC3352	3	3	2	3	2	3	24/02/2023	ECE	3
242020	EC3352	3	3	2	3	3	3	24/02/2023	ECE	3
242021	EC3352	3	3	3	3	2	3	24/02/2023	ECE	3
242022	EC3352	3	3	3	3	2	3	24/02/2023	ECE	3
242023	EC3352	3	3	3	3	3	3	24/02/2023	ECE	3
242024	EC3352	3	3	2	2	3	3	24/02/2023	ECE	3
242025	EC3352	3	3	2	3	3	3	24/02/2023	ECE	3
242026	EC3352	3	3	3	3	3	3	24/02/2023	ECE	3
242027	EC3352	3	3	2	2	3	3	24/02/2023	ECE	3
242028	EC3352	3	3	3	2	3	3	24/02/2023	ECE	3
242029	EC3352	3	3	3	3	3	3	24/02/2023	ECE	3
242030	EC3352	3	3	2	2	2	3	24/02/2023	ECE	3
242032	EC3352	3	3	3	3	3	3	24/02/2023	ECE	3
242033	EC3352	3	3	2	2	3	3	24/02/2023	ECE	3
242034	EC3352	3	3	2	2	2	3	24/02/2023	ECE	3
242035	EC3352	3	3	2	2	3	3	24/02/2023	ECE	3
242036	EC3352	3	3	3	3	3	3	24/02/2023	ECE	3
242037	EC3352	3	3	3	3	3	3	24/02/2023	ECE	3
242038	EC3352	3	3	2	3	2	3	24/02/2023	ECE	3
242039	EC3352	3	3	3	2	2	3	24/02/2023	ECE	3
242040	EC3352	3	3	2	3	2	3	24/02/2023	ECE	3
242041	EC3352	3	3	3	3	2	3	24/02/2023	ECE	3
242042	EC3352	3	3	3	2	3	3	24/02/2023	ECE	3
242043	EC3352	3	3	2	3	2	3	24/02/2023	ECE	3
242044	EC3352	3	3	2	2	2	3	24/02/2023	ECE	3
242045	EC3352	3	3	2	2	2	3	24/02/2023	ECE	3
242046	EC3352	3	3	2	2	2	3	24/02/2023	ECE	3

242047	EC3352	3	3	2	3	2	3	24/02/2023	ECE	3
242048	EC3352	3	3	2	3	3	3	24/02/2023	ECE	3
242049	EC3352	3	3	3	2	3	3	24/02/2023	ECE	3
242050	EC3352	3	3	2	3	3	3	24/02/2023	ECE	3
242052	EC3352	3	3	3	3	2	3	24/02/2023	ECE	3
242053	EC3352	3	3	2	2	2	3	24/02/2023	ECE	3
242054	EC3352	3	3	2	2	2	3	24/02/2023	ECE	3
242055	EC3352	3	3	2	3	2	3	24/02/2023	ECE	3
242056	EC3352	3	3	3	3	2	3	24/02/2023	ECE	3
242057	EC3352	3	3	2	3	3	3	24/02/2023	ECE	3
242058	EC3352	3	3	3	2	2	3	24/02/2023	ECE	3
242059	EC3352	3	3	2	3	3	3	24/02/2023	ECE	3
242062	EC3352	3	3	3	2	3	3	24/02/2023	ECE	3
242063	EC3352	3	3	2	2	3	3	24/02/2023	ECE	3
242064	EC3352	3	3	2	3	3	3	24/02/2023	ECE	3
242065	EC3352	3	3	3	2	2	3	24/02/2023	ECE	3
242066	EC3352	3	3	2	2	3	3	24/02/2023	ECE	3
242067	EC3352	3	3	3	3	3	3	24/02/2023	ECE	3
242068	EC3352	3	3	2	2	2	3	24/02/2023	ECE	3
242069	EC3352	3	3	3	3	2	3	24/02/2023	ECE	3
242070	EC3352	3	3	2	3	3	3	24/02/2023	ECE	3
242071	EC3352	3	3	3	3	2	3	24/02/2023	ECE	3
242072	EC3352	3	3	3	3	2	3	24/02/2023	ECE	3
242073	EC3352	3	3	3	3	2	3	24/02/2023	ECE	3
242074	EC3352	3	3	3	3	3	3	24/02/2023	ECE	3
242075	EC3352	3	3	3	3	3	3	24/02/2023	ECE	3
242076	EC3352	3	3	2	2	3	3	24/02/2023	ECE	3
242077	EC3352	3	3	3	2	2	3	24/02/2023	ECE	3
242078	EC3352	3	3	3	3	2	3	24/02/2023	ECE	3
242079	EC3352	3	3	3	2	2	3	24/02/2023	ECE	3
242080	EC3352	3	3	3	2	2	3	24/02/2023	ECE	3

242081	EC3352	3	3	3	2	2	3	24/02/2023	ECE	3
242082	EC3352	3	3	2	2	3	3	24/02/2023	ECE	3
242083	EC3352	3	3	2	2	2	3	24/02/2023	ECE	3
242084	EC3352	3	3	3	3	2	3	24/02/2023	ECE	3
242085	EC3352	3	3	2	3	2	3	24/02/2023	ECE	3
242086	EC3352	3	3	3	2	3	3	24/02/2023	ECE	3
242087	EC3352	3	3	2	3	3	3	24/02/2023	ECE	3
242088	EC3352	3	3	2	2	3	3	24/02/2023	ECE	3
242089	EC3352	3	3	3	2	3	3	24/02/2023	ECE	3
242090	EC3352	3	3	3	3	3	3	24/02/2023	ECE	3
242091	EC3352	3	3	3	3	2	3	24/02/2023	ECE	3
242092	EC3352	3	3	2	3	3	3	24/02/2023	ECE	3
242093	EC3352	3	3	3	3	3	3	24/02/2023	ECE	3
242094	EC3352	3	3	2	2	2	3	24/02/2023	ECE	3
242095	EC3352	3	3	3	3	3	3	24/02/2023	ECE	3
242096	EC3352	3	3	2	2	3	3	24/02/2023	ECE	3
242097	EC3352	3	3	2	2	3	3	24/02/2023	ECE	3
242098	EC3352	3	3	3	2	3	3	24/02/2023	ECE	3
242099	EC3352	3	3	2	3	2	3	24/02/2023	ECE	3
242101	EC3352	3	3	3	2	3	3	24/02/2023	ECE	3
242102	EC3352	3	3	2	2	2	3	24/02/2023	ECE	3
242103	EC3352	3	3	2	2	3	3	24/02/2023	ECE	3
242104	EC3352	3	3	2	3	2	3	24/02/2023	ECE	3
242105	EC3352	3	3	3	3	3	3	24/02/2023	ECE	3
242106	EC3352	3	3	3	2	2	3	24/02/2023	ECE	3
242107	EC3352	3	3	2	3	3	3	24/02/2023	ECE	3
242108	EC3352	3	3	3	2	3	3	24/02/2023	ECE	3
242109	EC3352	3	3	2	3	2	3	24/02/2023	ECE	3
242110	EC3352	3	3	2	2	2	3	24/02/2023	ECE	3
242111	EC3352	3	3	2	2	3	3	24/02/2023	ECE	3
242112	EC3352	3	3	3	3	2	3	24/02/2023	ECE	3

242113	EC3352	3	3	3	2	3	3	24/02/2023	ECE	3
242114	EC3352	3	3	3	3	2	3	24/02/2023	ECE	3
242115	EC3352	3	3	2	2	2	3	24/02/2023	ECE	3
242116	EC3352	3	3	2	3	2	3	24/02/2023	ECE	3
242117	EC3352	3	3	3	2	3	3	24/02/2023	ECE	3
242118	EC3352	3	3	3	2	3	3	24/02/2023	ECE	3
242119	EC3352	3	3	3	3	3	3	24/02/2023	ECE	3
242120	EC3352	3	3	2	3	3	3	24/02/2023	ECE	3
242121	EC3352	3	3	3	2	3	3	24/02/2023	ECE	3
242122	EC3352	3	3	3	3	3	3	24/02/2023	ECE	3
242123	EC3352	3	3	2	2	3	3	24/02/2023	ECE	3
242124	EC3352	3	3	2	2	2	3	24/02/2023	ECE	3
242125	EC3352	3	3	3	3	3	3	24/02/2023	ECE	3
242126	EC3352	3	3	2	2	2	3	24/02/2023	ECE	3
242127	EC3352	3	3	2	2	3	3	24/02/2023	ECE	3
242128	EC3352	3	3	3	3	3	3	24/02/2023	ECE	3
242129	EC3352	3	3	3	2	2	3	24/02/2023	ECE	3
242130	EC3352	3	3	3	3	3	3	24/02/2023	ECE	3
242131	EC3352	3	3	3	2	2	3	24/02/2023	ECE	3
242132	EC3352	3	3	3	2	3	3	24/02/2023	ECE	3
Attained Level		3.0	3.0	2.51	2.52	2.54	3.0			
%		100.00	100.00	83.67	84.00	84.67	100.00			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23ODD** Semester : **3** Programme: **B.E/B.Tech (ECE)**
Subject Code : **EC3353** NBA Code : **C204** Title **ELECTRONIC DEVICES AND CIRCUITS**
Faculty: Mr.S.Hariprasath / Dr.P.Shanmugapriya

Cos	CO Description	Attained Level	%
C204.1	Explain the structure and working operation of basic electronic devices	3.0	100.00
C204.2	Design and analyze amplifiers.	3.0	100.00
C204.3	Determine frequency response of BJT and MOSFET amplifiers.	2.44	81.33
C204.4	Design and analyze feedback amplifiers and oscillator principles.	2.47	82.33
C204.5	Design and analyse power amplifiers	2.48	82.67
C204.6	Design and analyse of power supply circuits	3.0	100.00

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 126

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
242001	EC3353	3	3	2	3	3	3	24/02/2023	ECE	3
242002	EC3353	3	3	3	2	2	3	24/02/2023	ECE	3
242003	EC3353	3	3	3	2	3	3	24/02/2023	ECE	3
242004	EC3353	3	3	3	3	2	3	24/02/2023	ECE	3
242006	EC3353	3	3	3	2	3	3	24/02/2023	ECE	3
242007	EC3353	3	3	2	2	3	3	24/02/2023	ECE	3
242008	EC3353	3	3	2	2	3	3	24/02/2023	ECE	3
242009	EC3353	3	3	2	2	2	3	24/02/2023	ECE	3
242010	EC3353	3	3	2	3	2	3	24/02/2023	ECE	3
242011	EC3353	3	3	2	2	3	3	24/02/2023	ECE	3
242012	EC3353	3	3	2	3	3	3	24/02/2023	ECE	3
242013	EC3353	3	3	2	2	3	3	24/02/2023	ECE	3
242014	EC3353	3	3	2	2	3	3	24/02/2023	ECE	3

242015	EC3353	3	3	3	3	2	3	24/02/2023	ECE	3
242016	EC3353	3	3	3	2	2	3	24/02/2023	ECE	3
242017	EC3353	3	3	3	3	2	3	24/02/2023	ECE	3
242018	EC3353	3	3	3	3	2	3	24/02/2023	ECE	3
242019	EC3353	3	3	3	2	2	3	24/02/2023	ECE	3
242020	EC3353	3	3	3	3	2	3	24/02/2023	ECE	3
242021	EC3353	3	3	3	2	3	3	24/02/2023	ECE	3
242022	EC3353	3	3	3	2	3	3	24/02/2023	ECE	3
242023	EC3353	3	3	2	3	3	3	24/02/2023	ECE	3
242024	EC3353	3	3	2	3	2	3	24/02/2023	ECE	3
242025	EC3353	3	3	2	3	2	3	24/02/2023	ECE	3
242026	EC3353	3	3	2	3	3	3	24/02/2023	ECE	3
242027	EC3353	3	3	2	2	3	3	24/02/2023	ECE	3
242028	EC3353	3	3	2	3	3	3	24/02/2023	ECE	3
242029	EC3353	3	3	3	2	2	3	24/02/2023	ECE	3
242030	EC3353	3	3	2	2	3	3	24/02/2023	ECE	3
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242033	EC3353	3	3	2	3	2	3	24/02/2023	ECE	3
242034	EC3353	3	3	3	3	3	3	24/02/2023	ECE	3
242035	EC3353	3	3	3	2	3	3	24/02/2023	ECE	3
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242041	EC3353	3	3	3	3	3	3	24/02/2023	ECE	3
242042	EC3353	3	3	3	2	2	3	24/02/2023	ECE	3
242043	EC3353	3	3	3	3	2	3	24/02/2023	ECE	3
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242045	EC3353	3	3	2	3	2	3	24/02/2023	ECE	3
242046	EC3353	3	3	3	3	3	3	24/02/2023	ECE	3

242047	EC3353	3	3	2	3	3	3	24/02/2023	ECE	3
242048	EC3353	3	3	2	3	3	3	24/02/2023	ECE	3
242049	EC3353	3	3	3	3	2	3	24/02/2023	ECE	3
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242053	EC3353	3	3	2	3	3	3	24/02/2023	ECE	3
242054	EC3353	3	3	3	2	2	3	24/02/2023	ECE	3
242055	EC3353	3	3	2	3	2	3	24/02/2023	ECE	3
242056	EC3353	3	3	3	2	2	3	24/02/2023	ECE	3
242057	EC3353	3	3	2	2	2	3	24/02/2023	ECE	3
242058	EC3353	3	3	2	3	2	3	24/02/2023	ECE	3
242059	EC3353	3	3	2	2	2	3	24/02/2023	ECE	3
242062	EC3353	3	3	3	3	3	3	24/02/2023	ECE	3
242063	EC3353	3	3	3	3	2	3	24/02/2023	ECE	3
242064	EC3353	3	3	2	3	3	3	24/02/2023	ECE	3
242065	EC3353	3	3	3	2	2	3	24/02/2023	ECE	3
242066	EC3353	3	3	3	2	3	3	24/02/2023	ECE	3
242067	EC3353	3	3	2	3	3	3	24/02/2023	ECE	3
242068	EC3353	3	3	2	3	2	3	24/02/2023	ECE	3
242069	EC3353	3	3	3	3	2	3	24/02/2023	ECE	3
242070	EC3353	3	3	2	3	3	3	24/02/2023	ECE	3
242071	EC3353	3	3	2	2	2	3	24/02/2023	ECE	3
242072	EC3353	3	3	2	3	2	3	24/02/2023	ECE	3
242073	EC3353	3	3	2	3	3	3	24/02/2023	ECE	3
242074	EC3353	3	3	2	3	2	3	24/02/2023	ECE	3
242075	EC3353	3	3	2	2	2	3	24/02/2023	ECE	3
242076	EC3353	3	3	3	3	3	3	24/02/2023	ECE	3
242077	EC3353	3	3	3	3	3	3	24/02/2023	ECE	3
242078	EC3353	3	3	3	2	3	3	24/02/2023	ECE	3
242079	EC3353	3	3	3	3	2	3	24/02/2023	ECE	3
242080	EC3353	3	3	3	2	2	3	24/02/2023	ECE	3

242081	EC3353	3	3	2	2	2	3	24/02/2023	ECE	3
242082	EC3353	3	3	3	2	3	3	24/02/2023	ECE	3
242083	EC3353	3	3	2	2	3	3	24/02/2023	ECE	3
242084	EC3353	3	3	2	3	2	3	24/02/2023	ECE	3
242085	EC3353	3	3	3	3	3	3	24/02/2023	ECE	3
242086	EC3353	3	3	3	2	3	3	24/02/2023	ECE	3
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242088	EC3353	3	3	3	2	2	3	24/02/2023	ECE	3
242089	EC3353	3	3	2	2	3	3	24/02/2023	ECE	3
242090	EC3353	3	3	3	2	3	3	24/02/2023	ECE	3
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242092	EC3353	3	3	2	3	3	3	24/02/2023	ECE	3
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242095	EC3353	3	3	3	2	2	3	24/02/2023	ECE	3
242096	EC3353	3	3	3	2	2	3	24/02/2023	ECE	3
242097	EC3353	3	3	3	2	3	3	24/02/2023	ECE	3
242098	EC3353	3	3	3	3	3	3	24/02/2023	ECE	3
242099	EC3353	3	3	2	2	2	3	24/02/2023	ECE	3
242101	EC3353	3	3	3	2	2	3	24/02/2023	ECE	3
242102	EC3353	3	3	2	2	3	3	24/02/2023	ECE	3
242103	EC3353	3	3	2	2	2	3	24/02/2023	ECE	3
242104	EC3353	3	3	2	3	3	3	24/02/2023	ECE	3
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242106	EC3353	3	3	2	2	3	3	24/02/2023	ECE	3
242107	EC3353	3	3	2	3	2	3	24/02/2023	ECE	3
242108	EC3353	3	3	2	2	3	3	24/02/2023	ECE	3
242109	EC3353	3	3	3	2	2	3	24/02/2023	ECE	3
242110	EC3353	3	3	2	3	2	3	24/02/2023	ECE	3
242111	EC3353	3	3	3	2	3	3	24/02/2023	ECE	3
242112	EC3353	3	3	3	3	3	3	24/02/2023	ECE	3

242113	EC3353	3	3	2	3	3	3	24/02/2023	ECE	3
242114	EC3353	3	3	2	2	2	3	24/02/2023	ECE	3
242115	EC3353	3	3	2	3	2	3	24/02/2023	ECE	3
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242117	EC3353	3	3	3	2	2	3	24/02/2023	ECE	3
242118	EC3353	3	3	3	2	2	3	24/02/2023	ECE	3
242119	EC3353	3	3	2	3	2	3	24/02/2023	ECE	3
242120	EC3353	3	3	2	3	2	3	24/02/2023	ECE	3
242121	EC3353	3	3	3	3	2	3	24/02/2023	ECE	3
242122	EC3353	3	3	2	2	2	3	24/02/2023	ECE	3
242123	EC3353	3	3	3	2	3	3	24/02/2023	ECE	3
242124	EC3353	3	3	3	2	2	3	24/02/2023	ECE	3
242125	EC3353	3	3	3	3	2	3	24/02/2023	ECE	3
242126	EC3353	3	3	2	2	2	3	24/02/2023	ECE	3
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242128	EC3353	3	3	2	3	2	3	24/02/2023	ECE	3
242129	EC3353	3	3	2	2	3	3	24/02/2023	ECE	3
242130	EC3353	3	3	2	2	2	3	24/02/2023	ECE	3
242131	EC3353	3	3	3	3	3	3	24/02/2023	ECE	3
242132	EC3353	3	3	2	3	3	3	24/02/2023	ECE	3
Attained Level		3.0	3.0	2.44	2.47	2.48	3.0			
%		100.00	100.00	81.33	82.33	82.67	100.00			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23ODD** Semester : **3** Programme: **B.E/B.Tech (ECE)**
Subject Code : **EC3354** NBA Code : **C204** Title **SIGNALS AND SYSTEMS**
Faculty: Mr.G.Sivakannu / Dr.V.Mohan

Cos	CO Description	Attained Level	%
C204.1	Analyze the basic properties of various types of continuous time and discrete time signals and systems and also determine whether the given system is linear/time invariant/causal/stable	3.0	100.00
C204.2	Apply, evaluate and analyze Fourier series expansion, Fourier transformation ans Laplace transformation for determining the frequency components of continuous time signals.	3.0	100.00
C204.3	Evaluate and analyze the characteristics of continuous time linear time invariant systems by applying Fourier and Laplace transforms.	2.43	81.00
C204.4	Analyze the properties of discrete time signals by applying the Z transform and discrete time Fourier transform.	2.52	84.00
C204.5	Evaluate the response of the given discrete time LTI systems using difference equations, impulse response and Convolution in time domain.	2.51	83.67
C204.6	Apply, Evaluate and analyze the characteristics of discrete time LTI systems using Z Transform and discrete time Fourier transform in Frequency domain	3.0	100.00

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 126

Batchno	Subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
242001	EC3354	3	3	3	2	2	3	24/02/2023	ECE	3
242002	EC3354	3	3	2	2	3	3	24/02/2023	ECE	3
242003	EC3354	3	3	2	3	3	3	24/02/2023	ECE	3
242004	EC3354	3	3	3	2	2	3	24/02/2023	ECE	3
242006	EC3354	3	3	3	2	2	3	24/02/2023	ECE	3
242007	EC3354	3	3	3	2	3	3	24/02/2023	ECE	3
242008	EC3354	3	3	3	2	3	3	24/02/2023	ECE	3
242009	EC3354	3	3	3	2	3	3	24/02/2023	ECE	3
242010	EC3354	3	3	3	2	2	3	24/02/2023	ECE	3

242011	EC3354	3	3	2	3	3	3	24/02/2023	ECE	3
242012	EC3354	3	3	2	3	3	3	24/02/2023	ECE	3
242013	EC3354	3	3	2	3	2	3	24/02/2023	ECE	3
242014	EC3354	3	3	2	3	2	3	24/02/2023	ECE	3
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242016	EC3354	3	3	2	3	2	3	24/02/2023	ECE	3
242017	EC3354	3	3	3	2	3	3	24/02/2023	ECE	3
242018	EC3354	3	3	2	2	2	3	24/02/2023	ECE	3
242019	EC3354	3	3	3	3	2	3	24/02/2023	ECE	3
242020	EC3354	3	3	2	2	2	3	24/02/2023	ECE	3
242021	EC3354	3	3	2	3	3	3	24/02/2023	ECE	3
242022	EC3354	3	3	2	2	3	3	24/02/2023	ECE	3
242023	EC3354	3	3	2	2	3	3	24/02/2023	ECE	3
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242029	EC3354	3	3	3	3	2	3	24/02/2023	ECE	3
242030	EC3354	3	3	3	2	2	3	24/02/2023	ECE	3
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242035	EC3354	3	3	2	3	2	3	24/02/2023	ECE	3
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242037	EC3354	3	3	2	3	3	3	24/02/2023	ECE	3
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242039	EC3354	3	3	3	2	3	3	24/02/2023	ECE	3
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242041	EC3354	3	3	2	2	3	3	24/02/2023	ECE	3
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242043	EC3354	3	3	2	2	2	3	24/02/2023	ECE	3
242044	EC3354	3	3	2	3	2	3	24/02/2023	ECE	3
242045	EC3354	3	3	3	2	2	3	24/02/2023	ECE	3
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242047	EC3354	3	3	2	3	3	3	24/02/2023	ECE	3
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242053	EC3354	3	3	2	2	2	3	24/02/2023	ECE	3
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242058	EC3354	3	3	2	2	2	3	24/02/2023	ECE	3
242059	EC3354	3	3	2	2	2	3	24/02/2023	ECE	3
242062	EC3354	3	3	2	3	2	3	24/02/2023	ECE	3
242063	EC3354	3	3	3	2	3	3	24/02/2023	ECE	3
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242065	EC3354	3	3	2	2	3	3	24/02/2023	ECE	3
242066	EC3354	3	3	2	3	2	3	24/02/2023	ECE	3
242067	EC3354	3	3	2	3	3	3	24/02/2023	ECE	3
242068	EC3354	3	3	2	2	3	3	24/02/2023	ECE	3
242069	EC3354	3	3	3	2	3	3	24/02/2023	ECE	3
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242071	EC3354	3	3	2	2	2	3	24/02/2023	ECE	3
242072	EC3354	3	3	3	2	2	3	24/02/2023	ECE	3
242073	EC3354	3	3	2	2	3	3	24/02/2023	ECE	3
242074	EC3354	3	3	2	3	2	3	24/02/2023	ECE	3
242075	EC3354	3	3	2	2	2	3	24/02/2023	ECE	3
242076	EC3354	3	3	3	2	2	3	24/02/2023	ECE	3

242077	EC3354	3	3	2	3	2	3	24/02/2023	ECE	3
242078	EC3354	3	3	3	3	2	3	24/02/2023	ECE	3
242079	EC3354	3	3	2	2	2	3	24/02/2023	ECE	3
242080	EC3354	3	3	2	3	3	3	24/02/2023	ECE	3
242081	EC3354	3	3	3	2	3	3	24/02/2023	ECE	3
242082	EC3354	3	3	3	2	3	3	24/02/2023	ECE	3
242083	EC3354	3	3	2	2	2	3	24/02/2023	ECE	3
242084	EC3354	3	3	2	3	3	3	24/02/2023	ECE	3
242085	EC3354	3	3	2	3	2	3	24/02/2023	ECE	3
242086	EC3354	3	3	3	3	3	3	24/02/2023	ECE	3
242087	EC3354	3	3	2	3	2	3	24/02/2023	ECE	3
242088	EC3354	3	3	3	3	3	3	24/02/2023	ECE	3
242089	EC3354	3	3	3	2	2	3	24/02/2023	ECE	3
242090	EC3354	3	3	3	3	2	3	24/02/2023	ECE	3
242091	EC3354	3	3	2	3	2	3	24/02/2023	ECE	3
242092	EC3354	3	3	3	3	2	3	24/02/2023	ECE	3
242093	EC3354	3	3	2	2	2	3	24/02/2023	ECE	3
242094	EC3354	3	3	2	2	2	3	24/02/2023	ECE	3
242095	EC3354	3	3	2	3	3	3	24/02/2023	ECE	3
242096	EC3354	3	3	2	3	2	3	24/02/2023	ECE	3
242097	EC3354	3	3	3	3	3	3	24/02/2023	ECE	3
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242102	EC3354	3	3	3	3	3	3	24/02/2023	ECE	3
242103	EC3354	3	3	3	3	3	3	24/02/2023	ECE	3
242104	EC3354	3	3	2	2	2	3	24/02/2023	ECE	3
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242106	EC3354	3	3	3	3	2	3	24/02/2023	ECE	3
242107	EC3354	3	3	2	2	3	3	24/02/2023	ECE	3
242108	EC3354	3	3	2	2	3	3	24/02/2023	ECE	3

242109	EC3354	3	3	3	2	3	3	24/02/2023	ECE	3
242110	EC3354	3	3	3	2	2	3	24/02/2023	ECE	3
242111	EC3354	3	3	2	3	3	3	24/02/2023	ECE	3
242112	EC3354	3	3	2	2	2	3	24/02/2023	ECE	3
242113	EC3354	3	3	3	2	2	3	24/02/2023	ECE	3
242114	EC3354	3	3	3	2	2	3	24/02/2023	ECE	3
242115	EC3354	3	3	3	2	3	3	24/02/2023	ECE	3
242116	EC3354	3	3	2	3	2	3	24/02/2023	ECE	3
242117	EC3354	3	3	2	3	2	3	24/02/2023	ECE	3
242118	EC3354	3	3	2	3	3	3	24/02/2023	ECE	3
242119	EC3354	3	3	2	2	3	3	24/02/2023	ECE	3
242120	EC3354	3	3	2	3	2	3	24/02/2023	ECE	3
242121	EC3354	3	3	3	3	3	3	24/02/2023	ECE	3
242122	EC3354	3	3	3	2	2	3	24/02/2023	ECE	3
242123	EC3354	3	3	3	2	2	3	24/02/2023	ECE	3
242124	EC3354	3	3	2	3	3	3	24/02/2023	ECE	3
242125	EC3354	3	3	3	3	2	3	24/02/2023	ECE	3
242126	EC3354	3	3	2	3	3	3	24/02/2023	ECE	3
242127	EC3354	3	3	2	2	3	3	24/02/2023	ECE	3
242128	EC3354	3	3	3	3	3	3	24/02/2023	ECE	3
242129	EC3354	3	3	2	3	2	3	24/02/2023	ECE	3
242130	EC3354	3	3	2	3	3	3	24/02/2023	ECE	3
242131	EC3354	3	3	2	2	3	3	24/02/2023	ECE	3
242132	EC3354	3	3	3	3	3	3	24/02/2023	ECE	3
Attained Level		3.0	3.0	2.43	2.52	2.51	3.0			
%		100.00	100.00	81.00	84.00	83.67	100.00			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23ODD** Semester : **3** Programme: **B.E/B.Tech (ECE)**
Subject Code : **MA3355** NBA Code : **201** Title **RANDOM PROCESSES AND LINEAR ALGEBRA**
Faculty: Dr.D.Geetha / Dr.N.Subashini

Cos	CO Description	Attained Level	%
201.1	Have a fundamental knowledge of the basic probability concepts and Get exposure and a well-founded knowledge of standard distributions which can describe real life phenomena	3.0	100.00
201.2	Acquire skills in handling situations involving more than one random Variable and functions of random variables	3.0	100.00
201.3	Understand and characterize phenomena which evolve with respect to time in probabilistic manner.	2.51	83.67
201.4	To introduce the basic notions of groups, rings, fields and vectoe space which will then be used to solve related problems.	2.52	84.00
201.5	To understand the concepts of linear transformations and diagnolization.	2.49	83.00
201.6	To apply the concept of inner product spaces in orthogonalization.	3.0	100.00

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 126

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
242001	MA3355	3	3	3	2	3	3	24/02/2023	ECE	3
242002	MA3355	3	3	2	2	2	3	24/02/2023	ECE	3
242003	MA3355	3	3	3	3	3	3	24/02/2023	ECE	3
242004	MA3355	3	3	2	2	2	3	24/02/2023	ECE	3
242006	MA3355	3	3	3	3	3	3	24/02/2023	ECE	3
242007	MA3355	3	3	3	2	2	3	24/02/2023	ECE	3
242008	MA3355	3	3	2	2	2	3	24/02/2023	ECE	3
242009	MA3355	3	3	2	2	3	3	24/02/2023	ECE	3
242010	MA3355	3	3	3	3	2	3	24/02/2023	ECE	3
242011	MA3355	3	3	3	3	2	3	24/02/2023	ECE	3
242012	MA3355	3	3	3	3	2	3	24/02/2023	ECE	3

242013	MA3355	3	3	2	2	3	3	24/02/2023	ECE	3
242014	MA3355	3	3	2	2	2	3	24/02/2023	ECE	3
242015	MA3355	3	3	2	3	2	3	24/02/2023	ECE	3
242016	MA3355	3	3	2	2	3	3	24/02/2023	ECE	3
242017	MA3355	3	3	3	2	3	3	24/02/2023	ECE	3
242018	MA3355	3	3	2	2	2	3	24/02/2023	ECE	3
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242020	MA3355	3	3	2	3	2	3	24/02/2023	ECE	3
242021	MA3355	3	3	3	3	3	3	24/02/2023	ECE	3
242022	MA3355	3	3	3	3	2	3	24/02/2023	ECE	3
242023	MA3355	3	3	2	2	2	3	24/02/2023	ECE	3
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242035	MA3355	3	3	2	3	3	3	24/02/2023	ECE	3
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242037	MA3355	3	3	2	3	2	3	24/02/2023	ECE	3
242038	MA3355	3	3	3	2	2	3	24/02/2023	ECE	3
242039	MA3355	3	3	2	2	3	3	24/02/2023	ECE	3
242040	MA3355	3	3	2	3	2	3	24/02/2023	ECE	3
242041	MA3355	3	3	3	3	2	3	24/02/2023	ECE	3
242042	MA3355	3	3	2	2	2	3	24/02/2023	ECE	3
242043	MA3355	3	3	3	2	3	3	24/02/2023	ECE	3
242044	MA3355	3	3	2	2	3	3	24/02/2023	ECE	3

242045	MA3355	3	3	3	2	2	3	24/02/2023	ECE	3
242046	MA3355	3	3	2	2	3	3	24/02/2023	ECE	3
242047	MA3355	3	3	2	3	2	3	24/02/2023	ECE	3
242048	MA3355	3	3	3	3	2	3	24/02/2023	ECE	3
242049	MA3355	3	3	2	3	2	3	24/02/2023	ECE	3
242050	MA3355	3	3	3	3	2	3	24/02/2023	ECE	3
242052	MA3355	3	3	3	2	2	3	24/02/2023	ECE	3
242053	MA3355	3	3	2	2	3	3	24/02/2023	ECE	3
242054	MA3355	3	3	3	2	2	3	24/02/2023	ECE	3
242055	MA3355	3	3	2	2	2	3	24/02/2023	ECE	3
242056	MA3355	3	3	2	3	2	3	24/02/2023	ECE	3
242057	MA3355	3	3	3	2	2	3	24/02/2023	ECE	3
242058	MA3355	3	3	3	2	3	3	24/02/2023	ECE	3
242059	MA3355	3	3	3	3	3	3	24/02/2023	ECE	3
242062	MA3355	3	3	3	3	2	3	24/02/2023	ECE	3
242063	MA3355	3	3	2	3	3	3	24/02/2023	ECE	3
242064	MA3355	3	3	2	2	2	3	24/02/2023	ECE	3
242065	MA3355	3	3	2	2	2	3	24/02/2023	ECE	3
242066	MA3355	3	3	3	3	3	3	24/02/2023	ECE	3
242067	MA3355	3	3	2	3	3	3	24/02/2023	ECE	3
242068	MA3355	3	3	2	3	3	3	24/02/2023	ECE	3
242069	MA3355	3	3	3	2	2	3	24/02/2023	ECE	3
242070	MA3355	3	3	2	2	3	3	24/02/2023	ECE	3
242071	MA3355	3	3	2	3	3	3	24/02/2023	ECE	3
242072	MA3355	3	3	2	2	3	3	24/02/2023	ECE	3
242073	MA3355	3	3	2	3	2	3	24/02/2023	ECE	3
242074	MA3355	3	3	2	2	3	3	24/02/2023	ECE	3
242075	MA3355	3	3	2	3	2	3	24/02/2023	ECE	3
242076	MA3355	3	3	3	2	3	3	24/02/2023	ECE	3
242077	MA3355	3	3	2	3	2	3	24/02/2023	ECE	3
242078	MA3355	3	3	3	3	2	3	24/02/2023	ECE	3

242079	MA3355	3	3	3	3	3	3	24/02/2023	ECE	3
242080	MA3355	3	3	3	2	3	3	24/02/2023	ECE	3
242081	MA3355	3	3	3	3	3	3	24/02/2023	ECE	3
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242083	MA3355	3	3	2	3	2	3	24/02/2023	ECE	3
242084	MA3355	3	3	3	3	3	3	24/02/2023	ECE	3
242085	MA3355	3	3	2	2	3	3	24/02/2023	ECE	3
242086	MA3355	3	3	3	3	3	3	24/02/2023	ECE	3
242087	MA3355	3	3	2	3	2	3	24/02/2023	ECE	3
242088	MA3355	3	3	2	2	3	3	24/02/2023	ECE	3
242089	MA3355	3	3	3	2	2	3	24/02/2023	ECE	3
242090	MA3355	3	3	3	3	2	3	24/02/2023	ECE	3
242091	MA3355	3	3	2	3	3	3	24/02/2023	ECE	3
242092	MA3355	3	3	2	3	3	3	24/02/2023	ECE	3
242093	MA3355	3	3	3	3	3	3	24/02/2023	ECE	3
242094	MA3355	3	3	3	3	3	3	24/02/2023	ECE	3
242095	MA3355	3	3	3	2	2	3	24/02/2023	ECE	3
242096	MA3355	3	3	3	3	3	3	24/02/2023	ECE	3
242097	MA3355	3	3	3	2	3	3	24/02/2023	ECE	3
242098	MA3355	3	3	3	3	2	3	24/02/2023	ECE	3
242099	MA3355	3	3	2	2	3	3	24/02/2023	ECE	3
242101	MA3355	3	3	3	2	2	3	24/02/2023	ECE	3
242102	MA3355	3	3	3	2	2	3	24/02/2023	ECE	3
242103	MA3355	3	3	3	3	2	3	24/02/2023	ECE	3
242104	MA3355	3	3	3	2	3	3	24/02/2023	ECE	3
242105	MA3355	3	3	3	2	3	3	24/02/2023	ECE	3
242106	MA3355	3	3	2	3	3	3	24/02/2023	ECE	3
242107	MA3355	3	3	3	2	2	3	24/02/2023	ECE	3
242108	MA3355	3	3	2	3	2	3	24/02/2023	ECE	3
242109	MA3355	3	3	2	3	3	3	24/02/2023	ECE	3
242110	MA3355	3	3	3	3	2	3	24/02/2023	ECE	3

242111	MA3355	3	3	3	3	3	3	24/02/2023	ECE	3
242112	MA3355	3	3	2	2	3	3	24/02/2023	ECE	3
242113	MA3355	3	3	2	3	3	3	24/02/2023	ECE	3
242114	MA3355	3	3	2	3	2	3	24/02/2023	ECE	3
242115	MA3355	3	3	2	2	2	3	24/02/2023	ECE	3
242116	MA3355	3	3	3	2	2	3	24/02/2023	ECE	3
242117	MA3355	3	3	2	2	2	3	24/02/2023	ECE	3
242118	MA3355	3	3	3	2	3	3	24/02/2023	ECE	3
242119	MA3355	3	3	3	2	2	3	24/02/2023	ECE	3
242120	MA3355	3	3	2	3	3	3	24/02/2023	ECE	3
242121	MA3355	3	3	2	3	3	3	24/02/2023	ECE	3
242122	MA3355	3	3	2	3	2	3	24/02/2023	ECE	3
242123	MA3355	3	3	3	3	2	3	24/02/2023	ECE	3
242124	MA3355	3	3	2	3	3	3	24/02/2023	ECE	3
242125	MA3355	3	3	3	3	2	3	24/02/2023	ECE	3
242126	MA3355	3	3	3	3	2	3	24/02/2023	ECE	3
242127	MA3355	3	3	3	3	3	3	24/02/2023	ECE	3
242128	MA3355	3	3	3	3	2	3	24/02/2023	ECE	3
242129	MA3355	3	3	2	3	3	3	24/02/2023	ECE	3
242130	MA3355	3	3	2	2	3	3	24/02/2023	ECE	3
242131	MA3355	3	3	3	3	2	3	24/02/2023	ECE	3
242132	MA3355	3	3	2	2	3	3	24/02/2023	ECE	3
Attained Level		3.0	3.0	2.51	2.52	2.49	3.0			
%		100.00	100.00	83.67	84.00	83.00	100.00			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23ODD** Semester : **5** Programme: **B.E/B.Tech (ECE)**
Subject Code : **EC8073** NBA Code : **C305PE** Title **MEDICAL ELECTRONICS**
Faculty: Ms.M.Anthuvan Lydia / Dr.M.Baritha Begum

Cos	CO Description	Attained Level	%
C305PE.1	Understand the medical terminology relevant with biomedical instrumentation	3.0	100.00
C305PE.2	Understand various physiological parameters and the methods of amplification, recording and also the methods of transmitting these parameters	3.0	100.00
C305PE.3	Understand the principle of operations of various assist devices used in emergency units	2.49	83.00
C305PE.4	Understand the operation of equipments used for physical medicine and the various recently developed diagnostic and therapeutic techniques in physical medicine	2.53	84.33
C305PE.5	analyze the elements of risks involved with different instruments and understand the basic electrical safety methods	2.47	82.33
C305PE.6	Understand the concepts of advanced techniques like telemedicine, insulin pump, radio pill, brain machine interface etc used in medical fields	3.0	100.00

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 108

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
232001	EC8073	3	3	3	3	2	3	24/02/2023	ECE	5
232002	EC8073	3	3	3	3	3	3	24/02/2023	ECE	5
232003	EC8073	3	3	3	3	2	3	24/02/2023	ECE	5
232004	EC8073	3	3	3	3	3	3	24/02/2023	ECE	5
232005	EC8073	3	3	3	2	2	3	24/02/2023	ECE	5
232006	EC8073	3	3	3	2	3	3	24/02/2023	ECE	5
232007	EC8073	3	3	2	2	3	3	24/02/2023	ECE	5
232008	EC8073	3	3	2	2	3	3	24/02/2023	ECE	5
232010	EC8073	3	3	2	2	3	3	24/02/2023	ECE	5
232011	EC8073	3	3	3	2	3	3	24/02/2023	ECE	5

232012	EC8073	3	3	2	3	3	3	24/02/2023	ECE	5
232013	EC8073	3	3	3	3	2	3	24/02/2023	ECE	5
232014	EC8073	3	3	2	3	2	3	24/02/2023	ECE	5
232015	EC8073	3	3	3	3	3	3	24/02/2023	ECE	5
232016	EC8073	3	3	2	2	3	3	24/02/2023	ECE	5
232017	EC8073	3	3	2	3	3	3	24/02/2023	ECE	5
232018	EC8073	3	3	2	3	3	3	24/02/2023	ECE	5
232019	EC8073	3	3	3	3	3	3	24/02/2023	ECE	5
232020	EC8073	3	3	3	2	2	3	24/02/2023	ECE	5
232021	EC8073	3	3	2	2	3	3	24/02/2023	ECE	5
232022	EC8073	3	3	2	3	2	3	24/02/2023	ECE	5
232023	EC8073	3	3	3	3	2	3	24/02/2023	ECE	5
232024	EC8073	3	3	3	2	2	3	24/02/2023	ECE	5
232025	EC8073	3	3	3	3	3	3	24/02/2023	ECE	5
232026	EC8073	3	3	2	2	2	3	24/02/2023	ECE	5
232027	EC8073	3	3	3	3	3	3	24/02/2023	ECE	5
232028	EC8073	3	3	2	3	3	3	24/02/2023	ECE	5
232029	EC8073	3	3	2	3	3	3	24/02/2023	ECE	5
232030	EC8073	3	3	2	2	2	3	24/02/2023	ECE	5
232031	EC8073	3	3	3	2	2	3	24/02/2023	ECE	5
232032	EC8073	3	3	2	2	3	3	24/02/2023	ECE	5
232033	EC8073	3	3	3	3	3	3	24/02/2023	ECE	5
232034	EC8073	3	3	2	2	3	3	24/02/2023	ECE	5
232036	EC8073	3	3	2	3	3	3	24/02/2023	ECE	5
232037	EC8073	3	3	2	2	2	3	24/02/2023	ECE	5
232038	EC8073	3	3	2	2	2	3	24/02/2023	ECE	5
232039	EC8073	3	3	2	2	3	3	24/02/2023	ECE	5
232040	EC8073	3	3	2	3	2	3	24/02/2023	ECE	5
232041	EC8073	3	3	2	3	2	3	24/02/2023	ECE	5
232042	EC8073	3	3	2	3	3	3	24/02/2023	ECE	5
232043	EC8073	3	3	2	3	2	3	24/02/2023	ECE	5

232044	EC8073	3	3	3	2	2	3	24/02/2023	ECE	5
232045	EC8073	3	3	3	2	2	3	24/02/2023	ECE	5
232046	EC8073	3	3	3	3	2	3	24/02/2023	ECE	5
232047	EC8073	3	3	3	2	3	3	24/02/2023	ECE	5
232048	EC8073	3	3	2	3	2	3	24/02/2023	ECE	5
232049	EC8073	3	3	2	2	3	3	24/02/2023	ECE	5
232050	EC8073	3	3	3	2	3	3	24/02/2023	ECE	5
232051	EC8073	3	3	2	3	2	3	24/02/2023	ECE	5
232052	EC8073	3	3	2	2	2	3	24/02/2023	ECE	5
232053	EC8073	3	3	2	2	2	3	24/02/2023	ECE	5
232054	EC8073	3	3	2	3	2	3	24/02/2023	ECE	5
232055	EC8073	3	3	2	3	2	3	24/02/2023	ECE	5
232056	EC8073	3	3	2	2	3	3	24/02/2023	ECE	5
232058	EC8073	3	3	3	2	2	3	24/02/2023	ECE	5
232059	EC8073	3	3	2	3	2	3	24/02/2023	ECE	5
232060	EC8073	3	3	3	2	2	3	24/02/2023	ECE	5
232061	EC8073	3	3	3	2	2	3	24/02/2023	ECE	5
232062	EC8073	3	3	2	3	3	3	24/02/2023	ECE	5
232063	EC8073	3	3	2	2	2	3	24/02/2023	ECE	5
232064	EC8073	3	3	3	2	3	3	24/02/2023	ECE	5
232065	EC8073	3	3	3	3	2	3	24/02/2023	ECE	5
232066	EC8073	3	3	3	2	2	3	24/02/2023	ECE	5
232067	EC8073	3	3	2	3	3	3	24/02/2023	ECE	5
232068	EC8073	3	3	3	2	3	3	24/02/2023	ECE	5
232070	EC8073	3	3	3	2	3	3	24/02/2023	ECE	5
232071	EC8073	3	3	3	3	3	3	24/02/2023	ECE	5
232072	EC8073	3	3	3	3	3	3	24/02/2023	ECE	5
232073	EC8073	3	3	2	2	3	3	24/02/2023	ECE	5
232074	EC8073	3	3	2	3	2	3	24/02/2023	ECE	5
232075	EC8073	3	3	3	3	2	3	24/02/2023	ECE	5
232076	EC8073	3	3	3	2	3	3	24/02/2023	ECE	5

232077	EC8073	3	3	3	3	3	3	24/02/2023	ECE	5
232078	EC8073	3	3	2	2	2	3	24/02/2023	ECE	5
232079	EC8073	3	3	2	2	2	3	24/02/2023	ECE	5
232080	EC8073	3	3	2	3	2	3	24/02/2023	ECE	5
232081	EC8073	3	3	3	2	2	3	24/02/2023	ECE	5
232082	EC8073	3	3	2	3	2	3	24/02/2023	ECE	5
232083	EC8073	3	3	3	3	3	3	24/02/2023	ECE	5
232084	EC8073	3	3	2	2	3	3	24/02/2023	ECE	5
232085	EC8073	3	3	3	3	2	3	24/02/2023	ECE	5
232086	EC8073	3	3	2	2	2	3	24/02/2023	ECE	5
232087	EC8073	3	3	3	3	3	3	24/02/2023	ECE	5
232088	EC8073	3	3	3	3	3	3	24/02/2023	ECE	5
232089	EC8073	3	3	2	3	3	3	24/02/2023	ECE	5
232090	EC8073	3	3	3	2	2	3	24/02/2023	ECE	5
232091	EC8073	3	3	3	3	2	3	24/02/2023	ECE	5
232092	EC8073	3	3	2	3	3	3	24/02/2023	ECE	5
232093	EC8073	3	3	2	3	2	3	24/02/2023	ECE	5
232094	EC8073	3	3	3	3	3	3	24/02/2023	ECE	5
232095	EC8073	3	3	3	2	3	3	24/02/2023	ECE	5
232096	EC8073	3	3	3	3	3	3	24/02/2023	ECE	5
232097	EC8073	3	3	3	3	2	3	24/02/2023	ECE	5
232098	EC8073	3	3	3	2	2	3	24/02/2023	ECE	5
232099	EC8073	3	3	2	3	2	3	24/02/2023	ECE	5
232100	EC8073	3	3	3	3	3	3	24/02/2023	ECE	5
232101	EC8073	3	3	2	3	2	3	24/02/2023	ECE	5
232102	EC8073	3	3	2	2	2	3	24/02/2023	ECE	5
232103	EC8073	3	3	3	2	2	3	24/02/2023	ECE	5
232104	EC8073	3	3	2	3	2	3	24/02/2023	ECE	5
232105	EC8073	3	3	3	3	2	3	24/02/2023	ECE	5
232106	EC8073	3	3	3	3	3	3	24/02/2023	ECE	5
232107	EC8073	3	3	3	3	3	3	24/02/2023	ECE	5

232108	EC8073	3	3	3	2	2	3	24/02/2023	ECE	5
232109	EC8073	3	3	2	2	2	3	24/02/2023	ECE	5
232110	EC8073	3	3	2	2	3	3	24/02/2023	ECE	5
232111	EC8073	3	3	2	2	2	3	24/02/2023	ECE	5
232112	EC8073	3	3	2	2	2	3	24/02/2023	ECE	5
Attained Level		3.0	3.0	2.49	2.53	2.47	3.0			
%		100.00	100.00	83.00	84.33	82.33	100.00			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23ODD** Semester : **5** Programme: **B.E/B.Tech (ECE)**
Subject Code : **EC8501** NBA Code : **C301** Title **DIGITAL COMMUNICATION**
Faculty: Dr.P.Shanmugapriya / Dr.S.Rajeswari

Cos	CO Description	Attained Level	%
C301.1	Analyze the principles of Information theory and source coding techniques	3.0	100.00
C301.2	Evaluate and Analyze the characteristics of the various waveform coding schemes and also the measurement of parameters of those techniques	3.0	100.00
C301.3	Analyse the procedure for the design of transmitter and receiver of various base band transmission schemes	2.57	85.67
C301.4	Design of transmitter and receiver of various band pass signaling schemes	2.54	84.67
C301.5	Analyze the spectral characteristics of band pass signaling schemes and their noise performance	2.56	85.33
C301.6	Analyse the fundamental characteristics of channel coding and design of channel coders for various digital transmission techniques	3.0	100.00

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 108

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
232001	EC8501	3	3	3	3	3	3	24/02/2023	ECE	5
232002	EC8501	3	3	3	3	3	3	24/02/2023	ECE	5
232003	EC8501	3	3	2	3	3	3	24/02/2023	ECE	5
232004	EC8501	3	3	3	3	2	3	24/02/2023	ECE	5
232005	EC8501	3	3	3	2	2	3	24/02/2023	ECE	5
232006	EC8501	3	3	3	3	2	3	24/02/2023	ECE	5
232007	EC8501	3	3	3	3	3	3	24/02/2023	ECE	5
232008	EC8501	3	3	2	2	2	3	24/02/2023	ECE	5
232010	EC8501	3	3	3	3	2	3	24/02/2023	ECE	5
232011	EC8501	3	3	2	3	3	3	24/02/2023	ECE	5
232012	EC8501	3	3	2	3	2	3	24/02/2023	ECE	5

232013	EC8501	3	3	3	3	3	3	24/02/2023	ECE	5
232014	EC8501	3	3	3	3	3	3	24/02/2023	ECE	5
232015	EC8501	3	3	3	3	3	3	24/02/2023	ECE	5
232016	EC8501	3	3	3	3	2	3	24/02/2023	ECE	5
232017	EC8501	3	3	2	3	2	3	24/02/2023	ECE	5
232018	EC8501	3	3	3	2	3	3	24/02/2023	ECE	5
232019	EC8501	3	3	3	3	3	3	24/02/2023	ECE	5
232020	EC8501	3	3	3	2	3	3	24/02/2023	ECE	5
232021	EC8501	3	3	2	3	2	3	24/02/2023	ECE	5
232022	EC8501	3	3	3	3	2	3	24/02/2023	ECE	5
232023	EC8501	3	3	2	3	2	3	24/02/2023	ECE	5
232024	EC8501	3	3	3	2	3	3	24/02/2023	ECE	5
232025	EC8501	3	3	2	3	3	3	24/02/2023	ECE	5
232026	EC8501	3	3	3	3	3	3	24/02/2023	ECE	5
232027	EC8501	3	3	3	2	2	3	24/02/2023	ECE	5
232028	EC8501	3	3	2	3	2	3	24/02/2023	ECE	5
232029	EC8501	3	3	2	3	2	3	24/02/2023	ECE	5
232030	EC8501	3	3	3	2	3	3	24/02/2023	ECE	5
232031	EC8501	3	3	3	2	3	3	24/02/2023	ECE	5
232032	EC8501	3	3	3	2	3	3	24/02/2023	ECE	5
232033	EC8501	3	3	3	2	2	3	24/02/2023	ECE	5
232034	EC8501	3	3	2	3	3	3	24/02/2023	ECE	5
232036	EC8501	3	3	3	2	3	3	24/02/2023	ECE	5
232037	EC8501	3	3	2	3	3	3	24/02/2023	ECE	5
232038	EC8501	3	3	3	3	3	3	24/02/2023	ECE	5
232039	EC8501	3	3	3	2	3	3	24/02/2023	ECE	5
232040	EC8501	3	3	2	3	3	3	24/02/2023	ECE	5
232041	EC8501	3	3	3	3	3	3	24/02/2023	ECE	5
232042	EC8501	3	3	3	3	2	3	24/02/2023	ECE	5
232043	EC8501	3	3	2	3	2	3	24/02/2023	ECE	5
232044	EC8501	3	3	3	2	3	3	24/02/2023	ECE	5

232045	EC8501	3	3	3	2	2	3	24/02/2023	ECE	5
232046	EC8501	3	3	2	2	3	3	24/02/2023	ECE	5
232047	EC8501	3	3	2	3	3	3	24/02/2023	ECE	5
232048	EC8501	3	3	3	2	3	3	24/02/2023	ECE	5
232049	EC8501	3	3	3	3	2	3	24/02/2023	ECE	5
232050	EC8501	3	3	3	2	3	3	24/02/2023	ECE	5
232051	EC8501	3	3	2	3	3	3	24/02/2023	ECE	5
232052	EC8501	3	3	2	2	2	3	24/02/2023	ECE	5
232053	EC8501	3	3	3	2	2	3	24/02/2023	ECE	5
232054	EC8501	3	3	3	2	3	3	24/02/2023	ECE	5
232055	EC8501	3	3	2	2	2	3	24/02/2023	ECE	5
232056	EC8501	3	3	3	2	2	3	24/02/2023	ECE	5
232058	EC8501	3	3	2	3	2	3	24/02/2023	ECE	5
232059	EC8501	3	3	2	3	2	3	24/02/2023	ECE	5
232060	EC8501	3	3	2	3	3	3	24/02/2023	ECE	5
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232063	EC8501	3	3	3	2	2	3	24/02/2023	ECE	5
232064	EC8501	3	3	3	3	3	3	24/02/2023	ECE	5
232065	EC8501	3	3	2	3	3	3	24/02/2023	ECE	5
232066	EC8501	3	3	3	2	2	3	24/02/2023	ECE	5
232067	EC8501	3	3	3	2	3	3	24/02/2023	ECE	5
232068	EC8501	3	3	3	2	3	3	24/02/2023	ECE	5
232070	EC8501	3	3	2	2	2	3	24/02/2023	ECE	5
232071	EC8501	3	3	2	2	2	3	24/02/2023	ECE	5
232072	EC8501	3	3	2	3	2	3	24/02/2023	ECE	5
232073	EC8501	3	3	2	3	2	3	24/02/2023	ECE	5
232074	EC8501	3	3	2	3	3	3	24/02/2023	ECE	5
232075	EC8501	3	3	2	3	3	3	24/02/2023	ECE	5
232076	EC8501	3	3	3	3	3	3	24/02/2023	ECE	5
232077	EC8501	3	3	2	2	2	3	24/02/2023	ECE	5

232078	EC8501	3	3	2	3	3	3	24/02/2023	ECE	5
232079	EC8501	3	3	2	3	3	3	24/02/2023	ECE	5
232080	EC8501	3	3	2	2	2	3	24/02/2023	ECE	5
232081	EC8501	3	3	3	3	3	3	24/02/2023	ECE	5
232082	EC8501	3	3	2	2	3	3	24/02/2023	ECE	5
232083	EC8501	3	3	2	2	3	3	24/02/2023	ECE	5
232084	EC8501	3	3	3	2	2	3	24/02/2023	ECE	5
232085	EC8501	3	3	3	3	2	3	24/02/2023	ECE	5
232086	EC8501	3	3	3	2	2	3	24/02/2023	ECE	5
232087	EC8501	3	3	3	2	2	3	24/02/2023	ECE	5
232088	EC8501	3	3	2	2	3	3	24/02/2023	ECE	5
232089	EC8501	3	3	2	3	3	3	24/02/2023	ECE	5
232090	EC8501	3	3	3	3	3	3	24/02/2023	ECE	5
232091	EC8501	3	3	3	3	3	3	24/02/2023	ECE	5
232092	EC8501	3	3	3	2	3	3	24/02/2023	ECE	5
232093	EC8501	3	3	3	3	3	3	24/02/2023	ECE	5
232094	EC8501	3	3	3	2	3	3	24/02/2023	ECE	5
232095	EC8501	3	3	3	2	3	3	24/02/2023	ECE	5
232096	EC8501	3	3	3	2	2	3	24/02/2023	ECE	5
232097	EC8501	3	3	3	3	2	3	24/02/2023	ECE	5
232098	EC8501	3	3	2	2	3	3	24/02/2023	ECE	5
232099	EC8501	3	3	3	2	3	3	24/02/2023	ECE	5
232100	EC8501	3	3	3	3	2	3	24/02/2023	ECE	5
232101	EC8501	3	3	2	2	2	3	24/02/2023	ECE	5
232102	EC8501	3	3	3	2	3	3	24/02/2023	ECE	5
232103	EC8501	3	3	2	2	2	3	24/02/2023	ECE	5
232104	EC8501	3	3	3	2	3	3	24/02/2023	ECE	5
232105	EC8501	3	3	2	3	2	3	24/02/2023	ECE	5
232106	EC8501	3	3	2	3	2	3	24/02/2023	ECE	5
232107	EC8501	3	3	2	3	2	3	24/02/2023	ECE	5
232108	EC8501	3	3	3	3	2	3	24/02/2023	ECE	5

232109	EC8501	3	3	2	2	3	3	24/02/2023	ECE	5
232110	EC8501	3	3	3	3	2	3	24/02/2023	ECE	5
232111	EC8501	3	3	3	2	3	3	24/02/2023	ECE	5
232112	EC8501	3	3	2	2	3	3	24/02/2023	ECE	5
Attained Level		3.0	3.0	2.57	2.54	2.56	3.0			
%		100.00	100.00	85.67	84.67	85.33	100.00			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23ODD** Semester : **5** Programme: **B.E/B.Tech (ECE)**
Subject Code : **EC8551** NBA Code : **305** Title **COMMUNICATION NETWORKS**
Faculty: Ms.S.Kiruthiga / Mr.M.Mahendran

Cos	CO Description	Attained Level	%
305.1	Understand the overview of OSI model and the physical layer Functions	3.0	100.00
305.2	Evaluate the required functionality at data link layer and Network layer	3.0	100.00
305.3	Analyze various routing protocols of network layer	2.47	82.33
305.4	Understand the transport layer functions and various congestion control techniques	2.45	81.67
305.5	Analyze the QOS requirements for different types of networks	2.47	82.33
305.6	Understand different application layer protocols	3.0	100.00

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 108

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
232001	EC8551	3	3	2	2	3	3	24/02/2023	ECE	5
232002	EC8551	3	3	3	2	3	3	24/02/2023	ECE	5
232003	EC8551	3	3	3	3	2	3	24/02/2023	ECE	5
232004	EC8551	3	3	3	3	2	3	24/02/2023	ECE	5
232005	EC8551	3	3	2	3	3	3	24/02/2023	ECE	5
232006	EC8551	3	3	3	3	2	3	24/02/2023	ECE	5
232007	EC8551	3	3	2	3	2	3	24/02/2023	ECE	5
232008	EC8551	3	3	2	3	3	3	24/02/2023	ECE	5
232010	EC8551	3	3	3	3	3	3	24/02/2023	ECE	5
232011	EC8551	3	3	2	2	3	3	24/02/2023	ECE	5
232012	EC8551	3	3	2	2	3	3	24/02/2023	ECE	5
232013	EC8551	3	3	2	2	3	3	24/02/2023	ECE	5

232014	EC8551	3	3	2	3	2	3	24/02/2023	ECE	5
232015	EC8551	3	3	2	2	3	3	24/02/2023	ECE	5
232016	EC8551	3	3	2	2	2	3	24/02/2023	ECE	5
232017	EC8551	3	3	2	2	2	3	24/02/2023	ECE	5
232018	EC8551	3	3	3	2	2	3	24/02/2023	ECE	5
232019	EC8551	3	3	3	3	2	3	24/02/2023	ECE	5
232020	EC8551	3	3	3	2	2	3	24/02/2023	ECE	5
232021	EC8551	3	3	2	2	3	3	24/02/2023	ECE	5
232022	EC8551	3	3	3	3	3	3	24/02/2023	ECE	5
232023	EC8551	3	3	2	3	3	3	24/02/2023	ECE	5
232024	EC8551	3	3	2	3	3	3	24/02/2023	ECE	5
232025	EC8551	3	3	3	3	3	3	24/02/2023	ECE	5
232026	EC8551	3	3	3	3	2	3	24/02/2023	ECE	5
232027	EC8551	3	3	3	2	2	3	24/02/2023	ECE	5
232028	EC8551	3	3	2	2	3	3	24/02/2023	ECE	5
232029	EC8551	3	3	2	2	2	3	24/02/2023	ECE	5
232030	EC8551	3	3	2	2	2	3	24/02/2023	ECE	5
232031	EC8551	3	3	3	2	2	3	24/02/2023	ECE	5
232032	EC8551	3	3	2	3	2	3	24/02/2023	ECE	5
232033	EC8551	3	3	3	2	2	3	24/02/2023	ECE	5
232034	EC8551	3	3	2	2	2	3	24/02/2023	ECE	5
232036	EC8551	3	3	2	3	3	3	24/02/2023	ECE	5
232037	EC8551	3	3	2	2	3	3	24/02/2023	ECE	5
232038	EC8551	3	3	2	2	2	3	24/02/2023	ECE	5
232039	EC8551	3	3	3	3	2	3	24/02/2023	ECE	5
232040	EC8551	3	3	2	2	2	3	24/02/2023	ECE	5
232041	EC8551	3	3	2	3	2	3	24/02/2023	ECE	5
232042	EC8551	3	3	2	2	2	3	24/02/2023	ECE	5
232043	EC8551	3	3	3	3	2	3	24/02/2023	ECE	5
232044	EC8551	3	3	3	3	3	3	24/02/2023	ECE	5
232045	EC8551	3	3	3	3	2	3	24/02/2023	ECE	5

232046	EC8551	3	3	2	3	3	3	24/02/2023	ECE	5
232047	EC8551	3	3	3	2	2	3	24/02/2023	ECE	5
232048	EC8551	3	3	3	2	2	3	24/02/2023	ECE	5
232049	EC8551	3	3	2	2	2	3	24/02/2023	ECE	5
232050	EC8551	3	3	3	2	2	3	24/02/2023	ECE	5
232051	EC8551	3	3	2	2	3	3	24/02/2023	ECE	5
232052	EC8551	3	3	3	3	2	3	24/02/2023	ECE	5
232053	EC8551	3	3	2	2	2	3	24/02/2023	ECE	5
232054	EC8551	3	3	3	3	3	3	24/02/2023	ECE	5
232055	EC8551	3	3	3	3	2	3	24/02/2023	ECE	5
232056	EC8551	3	3	3	2	3	3	24/02/2023	ECE	5
232058	EC8551	3	3	2	2	3	3	24/02/2023	ECE	5
232059	EC8551	3	3	3	2	2	3	24/02/2023	ECE	5
232060	EC8551	3	3	3	3	3	3	24/02/2023	ECE	5
232061	EC8551	3	3	2	2	2	3	24/02/2023	ECE	5
232062	EC8551	3	3	3	2	3	3	24/02/2023	ECE	5
232063	EC8551	3	3	2	3	3	3	24/02/2023	ECE	5
232064	EC8551	3	3	2	2	3	3	24/02/2023	ECE	5
232065	EC8551	3	3	2	3	3	3	24/02/2023	ECE	5
232066	EC8551	3	3	3	2	3	3	24/02/2023	ECE	5
232067	EC8551	3	3	3	3	2	3	24/02/2023	ECE	5
232068	EC8551	3	3	2	2	2	3	24/02/2023	ECE	5
232070	EC8551	3	3	2	3	2	3	24/02/2023	ECE	5
232071	EC8551	3	3	3	3	3	3	24/02/2023	ECE	5
232072	EC8551	3	3	3	2	2	3	24/02/2023	ECE	5
232073	EC8551	3	3	2	2	3	3	24/02/2023	ECE	5
232074	EC8551	3	3	3	2	2	3	24/02/2023	ECE	5
232075	EC8551	3	3	3	3	2	3	24/02/2023	ECE	5
232076	EC8551	3	3	2	2	3	3	24/02/2023	ECE	5
232077	EC8551	3	3	3	3	3	3	24/02/2023	ECE	5
232078	EC8551	3	3	2	3	3	3	24/02/2023	ECE	5

232079	EC8551	3	3	3	2	3	3	24/02/2023	ECE	5
232080	EC8551	3	3	3	2	3	3	24/02/2023	ECE	5
232081	EC8551	3	3	3	3	3	3	24/02/2023	ECE	5
232082	EC8551	3	3	2	2	2	3	24/02/2023	ECE	5
232083	EC8551	3	3	3	2	2	3	24/02/2023	ECE	5
232084	EC8551	3	3	3	3	3	3	24/02/2023	ECE	5
232085	EC8551	3	3	3	3	3	3	24/02/2023	ECE	5
232086	EC8551	3	3	3	3	2	3	24/02/2023	ECE	5
232087	EC8551	3	3	3	2	2	3	24/02/2023	ECE	5
232088	EC8551	3	3	3	2	3	3	24/02/2023	ECE	5
232089	EC8551	3	3	2	2	2	3	24/02/2023	ECE	5
232090	EC8551	3	3	2	3	2	3	24/02/2023	ECE	5
232091	EC8551	3	3	2	3	2	3	24/02/2023	ECE	5
232092	EC8551	3	3	2	2	3	3	24/02/2023	ECE	5
232093	EC8551	3	3	3	2	2	3	24/02/2023	ECE	5
232094	EC8551	3	3	3	2	2	3	24/02/2023	ECE	5
232095	EC8551	3	3	2	3	2	3	24/02/2023	ECE	5
232096	EC8551	3	3	2	3	2	3	24/02/2023	ECE	5
232097	EC8551	3	3	2	3	3	3	24/02/2023	ECE	5
232098	EC8551	3	3	3	3	3	3	24/02/2023	ECE	5
232099	EC8551	3	3	2	3	3	3	24/02/2023	ECE	5
232100	EC8551	3	3	2	2	3	3	24/02/2023	ECE	5
232101	EC8551	3	3	3	2	2	3	24/02/2023	ECE	5
232102	EC8551	3	3	2	2	2	3	24/02/2023	ECE	5
232103	EC8551	3	3	2	2	2	3	24/02/2023	ECE	5
232104	EC8551	3	3	3	2	3	3	24/02/2023	ECE	5
232105	EC8551	3	3	2	2	3	3	24/02/2023	ECE	5
232106	EC8551	3	3	3	2	2	3	24/02/2023	ECE	5
232107	EC8551	3	3	2	3	2	3	24/02/2023	ECE	5
232108	EC8551	3	3	2	2	2	3	24/02/2023	ECE	5
232109	EC8551	3	3	2	3	3	3	24/02/2023	ECE	5

232110	EC8551	3	3	3	3	3	3	24/02/2023	ECE	5
232111	EC8551	3	3	2	3	3	3	24/02/2023	ECE	5
232112	EC8551	3	3	2	2	3	3	24/02/2023	ECE	5
Attained Level		3.0	3.0	2.47	2.45	2.47	3.0			
%		100.00	100.00	82.33	81.67	82.33	100.00			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23ODD** Semester : **5** Programme: **B.E/B.Tech (ECE)**
Subject Code : **EC8552** NBA Code : **C305** Title **COMPUTER ARCHITECTURE AND ORGANIZATION**
Faculty: Ms.A.Sheelavathi / Ms.G.Sathiya

Cos	CO Description	Attained Level	%
C305.1	Describe data representation, instruction formats and the operation of a digital computer	3.0	100.00
C305.2	Illustrate the fixed point and floating-point arithmetic for ALU operation	3.0	100.00
C305.3	Discuss about implementation schemes of control unit and pipeline performance	2.5	83.33
C305.4	Describe the concepts of various hazards in processor	2.51	83.67
C305.5	Explain the concept of various memories, interfacing and organization of multiple processors	2.48	82.67
C305.6	Discuss parallel processing technique and unconventional architectures	3.0	100.00

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 108

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
232001	EC8552	3	3	3	2	2	3	24/02/2023	ECE	5
232002	EC8552	3	3	2	2	2	3	24/02/2023	ECE	5
232003	EC8552	3	3	2	2	2	3	24/02/2023	ECE	5
232004	EC8552	3	3	2	3	2	3	24/02/2023	ECE	5
232005	EC8552	3	3	2	2	2	3	24/02/2023	ECE	5
232006	EC8552	3	3	2	2	3	3	24/02/2023	ECE	5
232007	EC8552	3	3	2	3	2	3	24/02/2023	ECE	5
232008	EC8552	3	3	2	3	2	3	24/02/2023	ECE	5
232010	EC8552	3	3	2	2	3	3	24/02/2023	ECE	5
232011	EC8552	3	3	3	3	3	3	24/02/2023	ECE	5
232012	EC8552	3	3	3	2	3	3	24/02/2023	ECE	5

232013	EC8552	3	3	3	2	3	3	24/02/2023	ECE	5
232014	EC8552	3	3	2	2	2	3	24/02/2023	ECE	5
232015	EC8552	3	3	2	2	3	3	24/02/2023	ECE	5
232016	EC8552	3	3	3	2	3	3	24/02/2023	ECE	5
232017	EC8552	3	3	2	2	2	3	24/02/2023	ECE	5
232018	EC8552	3	3	2	3	2	3	24/02/2023	ECE	5
232019	EC8552	3	3	3	2	3	3	24/02/2023	ECE	5
232020	EC8552	3	3	3	3	3	3	24/02/2023	ECE	5
232021	EC8552	3	3	3	3	2	3	24/02/2023	ECE	5
232022	EC8552	3	3	3	3	2	3	24/02/2023	ECE	5
232023	EC8552	3	3	3	2	2	3	24/02/2023	ECE	5
232024	EC8552	3	3	2	2	3	3	24/02/2023	ECE	5
232025	EC8552	3	3	3	3	2	3	24/02/2023	ECE	5
232026	EC8552	3	3	2	2	3	3	24/02/2023	ECE	5
232027	EC8552	3	3	2	2	3	3	24/02/2023	ECE	5
232028	EC8552	3	3	2	3	3	3	24/02/2023	ECE	5
232029	EC8552	3	3	3	2	2	3	24/02/2023	ECE	5
232030	EC8552	3	3	2	3	3	3	24/02/2023	ECE	5
232031	EC8552	3	3	3	2	3	3	24/02/2023	ECE	5
232032	EC8552	3	3	3	3	2	3	24/02/2023	ECE	5
232033	EC8552	3	3	2	2	2	3	24/02/2023	ECE	5
232034	EC8552	3	3	3	2	3	3	24/02/2023	ECE	5
232036	EC8552	3	3	3	3	3	3	24/02/2023	ECE	5
232037	EC8552	3	3	2	3	2	3	24/02/2023	ECE	5
232038	EC8552	3	3	3	3	2	3	24/02/2023	ECE	5
232039	EC8552	3	3	3	3	3	3	24/02/2023	ECE	5
232040	EC8552	3	3	2	3	2	3	24/02/2023	ECE	5
232041	EC8552	3	3	2	3	2	3	24/02/2023	ECE	5
232042	EC8552	3	3	2	3	3	3	24/02/2023	ECE	5
232043	EC8552	3	3	3	3	2	3	24/02/2023	ECE	5
232044	EC8552	3	3	3	2	2	3	24/02/2023	ECE	5

232045	EC8552	3	3	2	3	3	3	24/02/2023	ECE	5
232046	EC8552	3	3	2	2	3	3	24/02/2023	ECE	5
232047	EC8552	3	3	3	3	2	3	24/02/2023	ECE	5
232048	EC8552	3	3	3	2	3	3	24/02/2023	ECE	5
232049	EC8552	3	3	2	3	2	3	24/02/2023	ECE	5
232050	EC8552	3	3	3	2	3	3	24/02/2023	ECE	5
232051	EC8552	3	3	3	2	3	3	24/02/2023	ECE	5
232052	EC8552	3	3	2	2	3	3	24/02/2023	ECE	5
232053	EC8552	3	3	3	2	3	3	24/02/2023	ECE	5
232054	EC8552	3	3	3	3	3	3	24/02/2023	ECE	5
232055	EC8552	3	3	3	2	2	3	24/02/2023	ECE	5
232056	EC8552	3	3	2	2	2	3	24/02/2023	ECE	5
232058	EC8552	3	3	3	2	3	3	24/02/2023	ECE	5
232059	EC8552	3	3	2	2	2	3	24/02/2023	ECE	5
232060	EC8552	3	3	2	3	3	3	24/02/2023	ECE	5
232061	EC8552	3	3	3	3	2	3	24/02/2023	ECE	5
232062	EC8552	3	3	2	2	2	3	24/02/2023	ECE	5
232063	EC8552	3	3	2	2	3	3	24/02/2023	ECE	5
232064	EC8552	3	3	2	3	2	3	24/02/2023	ECE	5
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232066	EC8552	3	3	3	3	3	3	24/02/2023	ECE	5
232067	EC8552	3	3	3	2	2	3	24/02/2023	ECE	5
232068	EC8552	3	3	3	3	2	3	24/02/2023	ECE	5
232070	EC8552	3	3	3	3	2	3	24/02/2023	ECE	5
232071	EC8552	3	3	3	3	3	3	24/02/2023	ECE	5
232072	EC8552	3	3	2	2	3	3	24/02/2023	ECE	5
232073	EC8552	3	3	2	2	2	3	24/02/2023	ECE	5
232074	EC8552	3	3	2	3	2	3	24/02/2023	ECE	5
232075	EC8552	3	3	3	3	3	3	24/02/2023	ECE	5
232076	EC8552	3	3	2	3	2	3	24/02/2023	ECE	5
232077	EC8552	3	3	3	2	2	3	24/02/2023	ECE	5

232078	EC8552	3	3	3	3	3	3	24/02/2023	ECE	5
232079	EC8552	3	3	3	3	2	3	24/02/2023	ECE	5
232080	EC8552	3	3	2	2	3	3	24/02/2023	ECE	5
232081	EC8552	3	3	2	3	3	3	24/02/2023	ECE	5
232082	EC8552	3	3	2	3	2	3	24/02/2023	ECE	5
232083	EC8552	3	3	2	3	3	3	24/02/2023	ECE	5
232084	EC8552	3	3	2	2	3	3	24/02/2023	ECE	5
232085	EC8552	3	3	3	3	2	3	24/02/2023	ECE	5
232086	EC8552	3	3	3	3	2	3	24/02/2023	ECE	5
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232088	EC8552	3	3	2	2	3	3	24/02/2023	ECE	5
232089	EC8552	3	3	3	3	3	3	24/02/2023	ECE	5
232090	EC8552	3	3	2	3	2	3	24/02/2023	ECE	5
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232093	EC8552	3	3	3	3	2	3	24/02/2023	ECE	5
232094	EC8552	3	3	2	2	2	3	24/02/2023	ECE	5
232095	EC8552	3	3	3	3	2	3	24/02/2023	ECE	5
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232097	EC8552	3	3	3	3	2	3	24/02/2023	ECE	5
232098	EC8552	3	3	3	2	2	3	24/02/2023	ECE	5
232099	EC8552	3	3	2	2	2	3	24/02/2023	ECE	5
232100	EC8552	3	3	2	3	3	3	24/02/2023	ECE	5
232101	EC8552	3	3	2	3	2	3	24/02/2023	ECE	5
232102	EC8552	3	3	2	3	2	3	24/02/2023	ECE	5
232103	EC8552	3	3	3	2	3	3	24/02/2023	ECE	5
232104	EC8552	3	3	2	2	3	3	24/02/2023	ECE	5
232105	EC8552	3	3	3	3	3	3	24/02/2023	ECE	5
232106	EC8552	3	3	3	2	3	3	24/02/2023	ECE	5
232107	EC8552	3	3	3	2	3	3	24/02/2023	ECE	5
232108	EC8552	3	3	3	3	3	3	24/02/2023	ECE	5

232109	EC8552	3	3	3	2	2	3	24/02/2023	ECE	5
232110	EC8552	3	3	3	3	3	3	24/02/2023	ECE	5
232111	EC8552	3	3	2	2	2	3	24/02/2023	ECE	5
232112	EC8552	3	3	2	3	3	3	24/02/2023	ECE	5
Attained Level		3.0	3.0	2.5	2.51	2.48	3.0			
%		100.00	100.00	83.33	83.67	82.67	100.00			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23ODD** Semester : **5** Programme: **B.E/B.Tech (ECE)**
Subject Code : **EC8553** NBA Code : **C302** Title **DISCRETE-TIME SIGNAL PROCESSING**
Faculty: Mr.G.Sivakannu / Dr.M.Padmaa

Cos	CO Description	Attained Level	%
C302.1	Apply the basic concepts of signals and systems and DFT for the analysis of digital signals and systems	3.0	100.00
C302.2	Design and realize IIR filters for the given required specifications	3.0	100.00
C302.3	Design and realize linear phase FIR filters for the given specifications using various methods	2.44	81.33
C302.4	Characterize and analyze the effects of finite precision representation on digital filters	2.55	85.00
C302.5	Explain the operations of Digital Signal on fixed and floating point Processors.	2.47	82.33
C302.6	Apply and evaluate the DSP functionalities on Processors through programming for various applications.	3.0	100.00

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 108

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
232001	EC8553	3	3	2	3	3	3	24/02/2023	ECE	5
232002	EC8553	3	3	2	3	2	3	24/02/2023	ECE	5
232003	EC8553	3	3	3	2	3	3	24/02/2023	ECE	5
232004	EC8553	3	3	2	3	3	3	24/02/2023	ECE	5
232005	EC8553	3	3	2	3	2	3	24/02/2023	ECE	5
232006	EC8553	3	3	2	3	2	3	24/02/2023	ECE	5
232007	EC8553	3	3	2	2	2	3	24/02/2023	ECE	5
232008	EC8553	3	3	2	3	2	3	24/02/2023	ECE	5
232010	EC8553	3	3	3	3	2	3	24/02/2023	ECE	5
232011	EC8553	3	3	3	2	3	3	24/02/2023	ECE	5
232012	EC8553	3	3	2	3	2	3	24/02/2023	ECE	5

232013	EC8553	3	3	2	3	2	3	24/02/2023	ECE	5
232014	EC8553	3	3	2	2	2	3	24/02/2023	ECE	5
232015	EC8553	3	3	2	3	3	3	24/02/2023	ECE	5
232016	EC8553	3	3	3	2	3	3	24/02/2023	ECE	5
232017	EC8553	3	3	2	3	3	3	24/02/2023	ECE	5
232018	EC8553	3	3	2	3	2	3	24/02/2023	ECE	5
232019	EC8553	3	3	3	3	2	3	24/02/2023	ECE	5
232020	EC8553	3	3	2	3	2	3	24/02/2023	ECE	5
232021	EC8553	3	3	2	2	3	3	24/02/2023	ECE	5
232022	EC8553	3	3	3	3	3	3	24/02/2023	ECE	5
232023	EC8553	3	3	2	2	3	3	24/02/2023	ECE	5
232024	EC8553	3	3	3	3	3	3	24/02/2023	ECE	5
232025	EC8553	3	3	3	3	3	3	24/02/2023	ECE	5
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232027	EC8553	3	3	2	3	2	3	24/02/2023	ECE	5
232028	EC8553	3	3	3	3	2	3	24/02/2023	ECE	5
232029	EC8553	3	3	3	3	2	3	24/02/2023	ECE	5
232030	EC8553	3	3	3	3	2	3	24/02/2023	ECE	5
232031	EC8553	3	3	3	2	2	3	24/02/2023	ECE	5
232032	EC8553	3	3	2	2	2	3	24/02/2023	ECE	5
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232034	EC8553	3	3	2	2	3	3	24/02/2023	ECE	5
232036	EC8553	3	3	2	3	2	3	24/02/2023	ECE	5
232037	EC8553	3	3	3	2	2	3	24/02/2023	ECE	5
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232039	EC8553	3	3	3	2	2	3	24/02/2023	ECE	5
232040	EC8553	3	3	3	2	2	3	24/02/2023	ECE	5
232041	EC8553	3	3	3	3	3	3	24/02/2023	ECE	5
232042	EC8553	3	3	3	3	3	3	24/02/2023	ECE	5
232043	EC8553	3	3	2	3	2	3	24/02/2023	ECE	5
232044	EC8553	3	3	2	3	2	3	24/02/2023	ECE	5

232045	EC8553	3	3	3	3	3	3	24/02/2023	ECE	5
232046	EC8553	3	3	2	2	3	3	24/02/2023	ECE	5
232047	EC8553	3	3	2	2	2	3	24/02/2023	ECE	5
232048	EC8553	3	3	3	3	3	3	24/02/2023	ECE	5
232049	EC8553	3	3	3	3	2	3	24/02/2023	ECE	5
232050	EC8553	3	3	3	3	2	3	24/02/2023	ECE	5
232051	EC8553	3	3	2	3	3	3	24/02/2023	ECE	5
232052	EC8553	3	3	3	3	2	3	24/02/2023	ECE	5
232053	EC8553	3	3	2	2	2	3	24/02/2023	ECE	5
232054	EC8553	3	3	2	2	2	3	24/02/2023	ECE	5
232055	EC8553	3	3	2	2	3	3	24/02/2023	ECE	5
232056	EC8553	3	3	2	2	2	3	24/02/2023	ECE	5
232058	EC8553	3	3	2	3	2	3	24/02/2023	ECE	5
232059	EC8553	3	3	3	2	2	3	24/02/2023	ECE	5
232060	EC8553	3	3	3	3	3	3	24/02/2023	ECE	5
232061	EC8553	3	3	2	3	3	3	24/02/2023	ECE	5
232062	EC8553	3	3	2	3	2	3	24/02/2023	ECE	5
232063	EC8553	3	3	2	3	2	3	24/02/2023	ECE	5
232064	EC8553	3	3	3	3	3	3	24/02/2023	ECE	5
232065	EC8553	3	3	3	3	3	3	24/02/2023	ECE	5
232066	EC8553	3	3	2	3	3	3	24/02/2023	ECE	5
232067	EC8553	3	3	2	3	2	3	24/02/2023	ECE	5
232068	EC8553	3	3	3	2	3	3	24/02/2023	ECE	5
232070	EC8553	3	3	2	2	2	3	24/02/2023	ECE	5
232071	EC8553	3	3	2	2	2	3	24/02/2023	ECE	5
232072	EC8553	3	3	2	3	2	3	24/02/2023	ECE	5
232073	EC8553	3	3	2	2	2	3	24/02/2023	ECE	5
232074	EC8553	3	3	3	2	3	3	24/02/2023	ECE	5
232075	EC8553	3	3	3	2	3	3	24/02/2023	ECE	5
232076	EC8553	3	3	3	2	3	3	24/02/2023	ECE	5
232077	EC8553	3	3	2	2	2	3	24/02/2023	ECE	5

232078	EC8553	3	3	3	3	3	3	24/02/2023	ECE	5
232079	EC8553	3	3	2	2	3	3	24/02/2023	ECE	5
232080	EC8553	3	3	2	3	2	3	24/02/2023	ECE	5
232081	EC8553	3	3	3	3	3	3	24/02/2023	ECE	5
232082	EC8553	3	3	2	2	3	3	24/02/2023	ECE	5
232083	EC8553	3	3	2	2	2	3	24/02/2023	ECE	5
232084	EC8553	3	3	2	2	2	3	24/02/2023	ECE	5
232085	EC8553	3	3	3	2	3	3	24/02/2023	ECE	5
232086	EC8553	3	3	2	2	2	3	24/02/2023	ECE	5
232087	EC8553	3	3	3	3	2	3	24/02/2023	ECE	5
232088	EC8553	3	3	3	2	2	3	24/02/2023	ECE	5
232089	EC8553	3	3	3	3	3	3	24/02/2023	ECE	5
232090	EC8553	3	3	2	3	2	3	24/02/2023	ECE	5
232091	EC8553	3	3	3	2	3	3	24/02/2023	ECE	5
232092	EC8553	3	3	2	2	3	3	24/02/2023	ECE	5
232093	EC8553	3	3	2	3	2	3	24/02/2023	ECE	5
232094	EC8553	3	3	3	2	3	3	24/02/2023	ECE	5
232095	EC8553	3	3	3	3	3	3	24/02/2023	ECE	5
232096	EC8553	3	3	2	3	3	3	24/02/2023	ECE	5
232097	EC8553	3	3	2	2	3	3	24/02/2023	ECE	5
232098	EC8553	3	3	3	2	3	3	24/02/2023	ECE	5
232099	EC8553	3	3	3	2	3	3	24/02/2023	ECE	5
232100	EC8553	3	3	2	3	2	3	24/02/2023	ECE	5
232101	EC8553	3	3	2	2	2	3	24/02/2023	ECE	5
232102	EC8553	3	3	3	3	3	3	24/02/2023	ECE	5
232103	EC8553	3	3	2	2	3	3	24/02/2023	ECE	5
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232106	EC8553	3	3	2	3	3	3	24/02/2023	ECE	5
232107	EC8553	3	3	2	2	2	3	24/02/2023	ECE	5
232108	EC8553	3	3	3	2	3	3	24/02/2023	ECE	5

232109	EC8553	3	3	3	2	2	3	24/02/2023	ECE	5
232110	EC8553	3	3	3	3	2	3	24/02/2023	ECE	5
232111	EC8553	3	3	2	2	3	3	24/02/2023	ECE	5
232112	EC8553	3	3	3	3	3	3	24/02/2023	ECE	5
Attained Level		3.0	3.0	2.44	2.55	2.47	3.0			
%		100.00	100.00	81.33	85.00	82.33	100.00			

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Course End Survey - Consolidated Report

Academic Year : **2022-23ODD** Semester : **5** Programme: **B.E/B.Tech (ECE)**
Subject Code : **OMD551** NBA Code : **C306OE1** Title **BASICS OF BIOMEDICAL INSTRUMENTATION**
Faculty: Dr.N.Preethi Elizabeth / Mr.A.Kesavan

Cos	CO Description	Attained Level	%
C306OE1.1	To Learn the different bio potential and its propagation	3.0	100.00
C306OE1.2	To get Familiarize the different electrode placement for various physiological recording	3.0	100.00
C306OE1.3	Students will be able design bio amplifier for various physiological recording	2.49	83.00
C306OE1.4	Students will understand various technique non electrical physiological measurements	2.47	82.33
C306OE1.5	Students will understand various Biosignal characteristics and electrode configurations	2.53	84.33
C306OE1.6	Understand the different biochemical measurements	3.0	100.00

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 108

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
232001	OMD551	3	3	3	3	3	3	24/02/2023	ECE	5
232002	OMD551	3	3	2	2	2	3	24/02/2023	ECE	5
232003	OMD551	3	3	3	3	3	3	24/02/2023	ECE	5
232004	OMD551	3	3	3	2	3	3	24/02/2023	ECE	5
232005	OMD551	3	3	3	2	2	3	24/02/2023	ECE	5
232006	OMD551	3	3	2	2	2	3	24/02/2023	ECE	5
232007	OMD551	3	3	3	2	3	3	24/02/2023	ECE	5
232008	OMD551	3	3	2	2	3	3	24/02/2023	ECE	5
232010	OMD551	3	3	3	2	2	3	24/02/2023	ECE	5

232011	OMD551	3	3	2	2	2	3	24/02/2023	ECE	5
232012	OMD551	3	3	2	2	3	3	24/02/2023	ECE	5
232013	OMD551	3	3	3	3	3	3	24/02/2023	ECE	5
232014	OMD551	3	3	2	2	3	3	24/02/2023	ECE	5
232015	OMD551	3	3	3	2	3	3	24/02/2023	ECE	5
232016	OMD551	3	3	2	3	3	3	24/02/2023	ECE	5
232017	OMD551	3	3	2	2	2	3	24/02/2023	ECE	5
232018	OMD551	3	3	3	3	3	3	24/02/2023	ECE	5
232019	OMD551	3	3	3	3	2	3	24/02/2023	ECE	5
232020	OMD551	3	3	2	2	3	3	24/02/2023	ECE	5
232021	OMD551	3	3	2	3	3	3	24/02/2023	ECE	5
232022	OMD551	3	3	3	2	2	3	24/02/2023	ECE	5
232023	OMD551	3	3	3	3	3	3	24/02/2023	ECE	5
232024	OMD551	3	3	3	2	2	3	24/02/2023	ECE	5
232025	OMD551	3	3	3	3	3	3	24/02/2023	ECE	5
232026	OMD551	3	3	2	2	3	3	24/02/2023	ECE	5
232027	OMD551	3	3	2	3	2	3	24/02/2023	ECE	5
232028	OMD551	3	3	3	2	3	3	24/02/2023	ECE	5
232029	OMD551	3	3	3	3	3	3	24/02/2023	ECE	5
232030	OMD551	3	3	3	3	2	3	24/02/2023	ECE	5
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232032	OMD551	3	3	3	3	3	3	24/02/2023	ECE	5
232033	OMD551	3	3	2	2	3	3	24/02/2023	ECE	5
232034	OMD551	3	3	2	2	2	3	24/02/2023	ECE	5
232036	OMD551	3	3	3	2	2	3	24/02/2023	ECE	5
232037	OMD551	3	3	2	3	3	3	24/02/2023	ECE	5
232038	OMD551	3	3	3	2	2	3	24/02/2023	ECE	5
232039	OMD551	3	3	3	3	3	3	24/02/2023	ECE	5
232040	OMD551	3	3	2	2	2	3	24/02/2023	ECE	5
232041	OMD551	3	3	3	2	2	3	24/02/2023	ECE	5
232042	OMD551	3	3	2	3	2	3	24/02/2023	ECE	5

232043	OMD551	3	3	2	3	2	3	24/02/2023	ECE	5
232044	OMD551	3	3	2	2	3	3	24/02/2023	ECE	5
232045	OMD551	3	3	3	2	2	3	24/02/2023	ECE	5
232046	OMD551	3	3	3	2	3	3	24/02/2023	ECE	5
232047	OMD551	3	3	2	3	3	3	24/02/2023	ECE	5
232048	OMD551	3	3	2	3	3	3	24/02/2023	ECE	5
232049	OMD551	3	3	2	3	2	3	24/02/2023	ECE	5
232050	OMD551	3	3	2	3	2	3	24/02/2023	ECE	5
232051	OMD551	3	3	3	3	2	3	24/02/2023	ECE	5
232052	OMD551	3	3	2	3	3	3	24/02/2023	ECE	5
232053	OMD551	3	3	2	2	2	3	24/02/2023	ECE	5
232054	OMD551	3	3	2	2	3	3	24/02/2023	ECE	5
232055	OMD551	3	3	2	3	2	3	24/02/2023	ECE	5
232056	OMD551	3	3	3	3	2	3	24/02/2023	ECE	5
232058	OMD551	3	3	2	3	2	3	24/02/2023	ECE	5
232059	OMD551	3	3	2	2	2	3	24/02/2023	ECE	5
232060	OMD551	3	3	2	3	2	3	24/02/2023	ECE	5
232061	OMD551	3	3	2	2	2	3	24/02/2023	ECE	5
232062	OMD551	3	3	3	2	2	3	24/02/2023	ECE	5
232063	OMD551	3	3	3	3	2	3	24/02/2023	ECE	5
232064	OMD551	3	3	2	3	3	3	24/02/2023	ECE	5
232065	OMD551	3	3	2	3	2	3	24/02/2023	ECE	5
232066	OMD551	3	3	3	2	3	3	24/02/2023	ECE	5
232067	OMD551	3	3	2	3	3	3	24/02/2023	ECE	5
232068	OMD551	3	3	3	2	3	3	24/02/2023	ECE	5
232070	OMD551	3	3	3	3	3	3	24/02/2023	ECE	5
232071	OMD551	3	3	3	2	3	3	24/02/2023	ECE	5
232072	OMD551	3	3	2	2	3	3	24/02/2023	ECE	5
232073	OMD551	3	3	3	2	3	3	24/02/2023	ECE	5
232074	OMD551	3	3	2	2	3	3	24/02/2023	ECE	5
232075	OMD551	3	3	3	2	2	3	24/02/2023	ECE	5

232076	OMD551	3	3	2	2	3	3	24/02/2023	ECE	5
232077	OMD551	3	3	3	3	2	3	24/02/2023	ECE	5
232078	OMD551	3	3	3	3	2	3	24/02/2023	ECE	5
232079	OMD551	3	3	3	3	3	3	24/02/2023	ECE	5
232080	OMD551	3	3	2	2	2	3	24/02/2023	ECE	5
232081	OMD551	3	3	2	2	2	3	24/02/2023	ECE	5
232082	OMD551	3	3	3	2	3	3	24/02/2023	ECE	5
232083	OMD551	3	3	2	3	3	3	24/02/2023	ECE	5
232084	OMD551	3	3	2	2	3	3	24/02/2023	ECE	5
232085	OMD551	3	3	3	3	3	3	24/02/2023	ECE	5
232086	OMD551	3	3	2	3	3	3	24/02/2023	ECE	5
232087	OMD551	3	3	2	2	3	3	24/02/2023	ECE	5
232088	OMD551	3	3	2	3	2	3	24/02/2023	ECE	5
232089	OMD551	3	3	2	3	3	3	24/02/2023	ECE	5
232090	OMD551	3	3	3	2	3	3	24/02/2023	ECE	5
232091	OMD551	3	3	3	2	2	3	24/02/2023	ECE	5
232092	OMD551	3	3	2	2	2	3	24/02/2023	ECE	5
232093	OMD551	3	3	3	3	2	3	24/02/2023	ECE	5
232094	OMD551	3	3	3	2	2	3	24/02/2023	ECE	5
232095	OMD551	3	3	2	3	2	3	24/02/2023	ECE	5
232096	OMD551	3	3	2	2	3	3	24/02/2023	ECE	5
232097	OMD551	3	3	2	2	2	3	24/02/2023	ECE	5
232098	OMD551	3	3	3	3	2	3	24/02/2023	ECE	5
232099	OMD551	3	3	3	3	2	3	24/02/2023	ECE	5
232100	OMD551	3	3	3	2	2	3	24/02/2023	ECE	5
232101	OMD551	3	3	3	2	2	3	24/02/2023	ECE	5
232102	OMD551	3	3	3	2	3	3	24/02/2023	ECE	5
232103	OMD551	3	3	3	3	3	3	24/02/2023	ECE	5
232104	OMD551	3	3	2	2	3	3	24/02/2023	ECE	5
232105	OMD551	3	3	3	3	2	3	24/02/2023	ECE	5
232106	OMD551	3	3	3	3	3	3	24/02/2023	ECE	5

232107	OMD551	3	3	2	2	3	3	24/02/2023	ECE	5
232108	OMD551	3	3	2	3	2	3	24/02/2023	ECE	5
232109	OMD551	3	3	2	3	2	3	24/02/2023	ECE	5
232110	OMD551	3	3	3	3	3	3	24/02/2023	ECE	5
232111	OMD551	3	3	2	2	3	3	24/02/2023	ECE	5
232112	OMD551	3	3	3	3	3	3	24/02/2023	ECE	5
Attained Level		3.0	3.0	2.49	2.47	2.53	3.0			
%		100.00	100.00	83.00	82.33	84.33	100.00			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23ODD** Semester : **7** Programme: **B.E/B.Tech (ECE)**
Subject Code : **EC8701** NBA Code : **C401** Title **ANTENNAS AND MICROWAVE ENGINEERING**
Faculty: Dr.S.A.Arunmozhi / Dr.K.Malaisamy

Cos	CO Description	Attained Level	%
C401.1	Apply the basic principles and evaluate antenna parameters and link power budgets.	3.0	100.00
C401.2	Design and assess the performance of various antennas.	3.0	100.00
C401.3	Create the antenna array structure and evaluate the performance of arrays for various applications.	2.57	85.67
C401.4	Analyse the performance of various passive and active microwave devices.	2.54	84.67
C401.5	Design a microwave system for the given specifications of any application.	2.47	82.33
C401.6	Apply the microwave design principles and analyse the performance of the microwave system.	3.0	100.00

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 120

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
222001	EC8701	3	3	2	2	3	3	24/02/2023	ECE	7
222002	EC8701	3	3	2	3	3	3	24/02/2023	ECE	7
222003	EC8701	3	3	3	3	3	3	24/02/2023	ECE	7
222004	EC8701	3	3	2	2	3	3	24/02/2023	ECE	7
222005	EC8701	3	3	3	2	3	3	24/02/2023	ECE	7
222006	EC8701	3	3	3	3	2	3	24/02/2023	ECE	7
222007	EC8701	3	3	2	3	2	3	24/02/2023	ECE	7
222008	EC8701	3	3	3	3	3	3	24/02/2023	ECE	7
222009	EC8701	3	3	3	2	2	3	24/02/2023	ECE	7
222010	EC8701	3	3	3	2	2	3	24/02/2023	ECE	7
222011	EC8701	3	3	2	2	2	3	24/02/2023	ECE	7
222012	EC8701	3	3	3	3	3	3	24/02/2023	ECE	7

222013	EC8701	3	3	2	3	3	3	24/02/2023	ECE	7
222014	EC8701	3	3	2	2	3	3	24/02/2023	ECE	7
222015	EC8701	3	3	2	2	3	3	24/02/2023	ECE	7
222016	EC8701	3	3	2	3	3	3	24/02/2023	ECE	7
222017	EC8701	3	3	2	3	2	3	24/02/2023	ECE	7
222018	EC8701	3	3	2	3	2	3	24/02/2023	ECE	7
222019	EC8701	3	3	3	3	2	3	24/02/2023	ECE	7
222020	EC8701	3	3	3	2	3	3	24/02/2023	ECE	7
222021	EC8701	3	3	2	3	3	3	24/02/2023	ECE	7
222022	EC8701	3	3	3	2	2	3	24/02/2023	ECE	7
222023	EC8701	3	3	2	2	2	3	24/02/2023	ECE	7
222024	EC8701	3	3	3	3	2	3	24/02/2023	ECE	7
222025	EC8701	3	3	3	3	2	3	24/02/2023	ECE	7
222026	EC8701	3	3	3	2	2	3	24/02/2023	ECE	7
222027	EC8701	3	3	3	3	3	3	24/02/2023	ECE	7
222028	EC8701	3	3	2	2	2	3	24/02/2023	ECE	7
222029	EC8701	3	3	3	3	2	3	24/02/2023	ECE	7
222030	EC8701	3	3	3	2	2	3	24/02/2023	ECE	7
222031	EC8701	3	3	2	3	3	3	24/02/2023	ECE	7
222032	EC8701	3	3	3	2	2	3	24/02/2023	ECE	7
222033	EC8701	3	3	3	2	3	3	24/02/2023	ECE	7
222034	EC8701	3	3	3	3	2	3	24/02/2023	ECE	7
222035	EC8701	3	3	2	3	2	3	24/02/2023	ECE	7
222036	EC8701	3	3	3	3	3	3	24/02/2023	ECE	7
222037	EC8701	3	3	3	3	2	3	24/02/2023	ECE	7
222038	EC8701	3	3	3	3	3	3	24/02/2023	ECE	7
222039	EC8701	3	3	2	3	3	3	24/02/2023	ECE	7
222040	EC8701	3	3	3	3	2	3	24/02/2023	ECE	7
222041	EC8701	3	3	3	2	2	3	24/02/2023	ECE	7
222042	EC8701	3	3	3	3	3	3	24/02/2023	ECE	7
222043	EC8701	3	3	2	3	3	3	24/02/2023	ECE	7
222044	EC8701	3	3	3	2	2	3	24/02/2023	ECE	7

222046	EC8701	3	3	2	2	3	3	24/02/2023	ECE	7
222047	EC8701	3	3	3	2	2	3	24/02/2023	ECE	7
222048	EC8701	3	3	2	3	2	3	24/02/2023	ECE	7
222049	EC8701	3	3	3	2	3	3	24/02/2023	ECE	7
222050	EC8701	3	3	3	3	3	3	24/02/2023	ECE	7
222051	EC8701	3	3	2	3	3	3	24/02/2023	ECE	7
222052	EC8701	3	3	3	3	2	3	24/02/2023	ECE	7
222053	EC8701	3	3	2	3	3	3	24/02/2023	ECE	7
222054	EC8701	3	3	2	2	2	3	24/02/2023	ECE	7
222055	EC8701	3	3	3	2	2	3	24/02/2023	ECE	7
222056	EC8701	3	3	3	3	3	3	24/02/2023	ECE	7
222057	EC8701	3	3	3	2	2	3	24/02/2023	ECE	7
222058	EC8701	3	3	2	3	3	3	24/02/2023	ECE	7
222059	EC8701	3	3	3	3	2	3	24/02/2023	ECE	7
222060	EC8701	3	3	3	3	3	3	24/02/2023	ECE	7
222061	EC8701	3	3	2	2	3	3	24/02/2023	ECE	7
222062	EC8701	3	3	3	3	3	3	24/02/2023	ECE	7
222063	EC8701	3	3	3	2	2	3	24/02/2023	ECE	7
222064	EC8701	3	3	3	3	3	3	24/02/2023	ECE	7
222065	EC8701	3	3	2	2	3	3	24/02/2023	ECE	7
222066	EC8701	3	3	2	2	3	3	24/02/2023	ECE	7
222067	EC8701	3	3	3	3	3	3	24/02/2023	ECE	7
222068	EC8701	3	3	2	3	2	3	24/02/2023	ECE	7
222069	EC8701	3	3	3	2	2	3	24/02/2023	ECE	7
222070	EC8701	3	3	2	2	3	3	24/02/2023	ECE	7
222071	EC8701	3	3	2	2	2	3	24/02/2023	ECE	7
222072	EC8701	3	3	3	3	2	3	24/02/2023	ECE	7
222073	EC8701	3	3	3	3	3	3	24/02/2023	ECE	7
222074	EC8701	3	3	3	3	2	3	24/02/2023	ECE	7
222075	EC8701	3	3	3	2	3	3	24/02/2023	ECE	7
222076	EC8701	3	3	2	3	3	3	24/02/2023	ECE	7
222077	EC8701	3	3	3	2	2	3	24/02/2023	ECE	7

222078	EC8701	3	3	2	2	2	3	24/02/2023	ECE	7
222079	EC8701	3	3	2	3	2	3	24/02/2023	ECE	7
222080	EC8701	3	3	2	2	2	3	24/02/2023	ECE	7
222081	EC8701	3	3	3	2	2	3	24/02/2023	ECE	7
222082	EC8701	3	3	2	2	2	3	24/02/2023	ECE	7
222083	EC8701	3	3	2	3	3	3	24/02/2023	ECE	7
222084	EC8701	3	3	2	2	2	3	24/02/2023	ECE	7
222085	EC8701	3	3	2	2	3	3	24/02/2023	ECE	7
222086	EC8701	3	3	2	2	2	3	24/02/2023	ECE	7
222087	EC8701	3	3	3	2	3	3	24/02/2023	ECE	7
222088	EC8701	3	3	3	2	3	3	24/02/2023	ECE	7
222089	EC8701	3	3	3	3	2	3	24/02/2023	ECE	7
222090	EC8701	3	3	2	2	3	3	24/02/2023	ECE	7
222091	EC8701	3	3	2	3	3	3	24/02/2023	ECE	7
222092	EC8701	3	3	2	3	3	3	24/02/2023	ECE	7
222093	EC8701	3	3	2	3	2	3	24/02/2023	ECE	7
222094	EC8701	3	3	2	3	2	3	24/02/2023	ECE	7
222095	EC8701	3	3	2	2	3	3	24/02/2023	ECE	7
222096	EC8701	3	3	3	2	2	3	24/02/2023	ECE	7
222097	EC8701	3	3	3	2	3	3	24/02/2023	ECE	7
222098	EC8701	3	3	3	3	3	3	24/02/2023	ECE	7
222099	EC8701	3	3	2	3	2	3	24/02/2023	ECE	7
222100	EC8701	3	3	2	3	3	3	24/02/2023	ECE	7
222101	EC8701	3	3	2	2	3	3	24/02/2023	ECE	7
222102	EC8701	3	3	3	3	2	3	24/02/2023	ECE	7
222103	EC8701	3	3	3	3	2	3	24/02/2023	ECE	7
222104	EC8701	3	3	3	3	2	3	24/02/2023	ECE	7
222105	EC8701	3	3	3	3	2	3	24/02/2023	ECE	7
222106	EC8701	3	3	3	3	2	3	24/02/2023	ECE	7
222107	EC8701	3	3	3	2	2	3	24/02/2023	ECE	7
222108	EC8701	3	3	3	2	3	3	24/02/2023	ECE	7
222109	EC8701	3	3	2	3	2	3	24/02/2023	ECE	7

222110	EC8701	3	3	3	2	2	3	24/02/2023	ECE	7
222111	EC8701	3		3	3	3	3	24/02/2023	ECE	7
222112	EC8701	3		3	2	2	3	24/02/2023	ECE	7
222113	EC8701	3		3	3	3	3	24/02/2023	ECE	7
222114	EC8701	3		3	3	3	3	24/02/2023	ECE	7
222115	EC8701	3		3	2	3	3	24/02/2023	ECE	7
222116	EC8701	3		3	3	2	3	24/02/2023	ECE	7
222117	EC8701	3		3	2	2	3	24/02/2023	ECE	7
222118	EC8701	3		3	3	2	3	24/02/2023	ECE	7
222119	EC8701	3	3	3	2	2	3	24/02/2023	ECE	7
222120	EC8701	3	3	3	3	2	3	24/02/2023	ECE	7
222121	EC8701	3	3	3	2	2	3	24/02/2023	ECE	7
Attained Level		3.0	3.0	2.57	2.54	2.47	3.0			
%		100.00	100.00	85.67	84.67	82.33	100.00			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23ODD** Semester : **7** Programme: **B.E/B.Tech (ECE)**
Subject Code : **EC8702** NBA Code : **404** Title **AD HOC AND WIRELESS SENSOR NETWORKS**
Faculty: Dr.C.Vennila / Ms.S.Kiruthiga

Cos	CO Description	Attained Level	%
404.1	Know the basics of Ad hoc networks and Wireless Sensor Networks	3.0	100.00
404.2	Apply the basic knowledge to identify the suitable routing algorithm based on the network and user requirement	3.0	100.00
404.3	Understand the architecture of wireless sensor networks and design considerations	2.49	83.00
404.4	Apply the knowledge to identify appropriate physical and MAC layer protocols	2.49	83.00
404.5	Understand the transport layer and security issues possible in Ad hoc and sensor networks.	2.44	81.33
404.6	Be familiar with the OS used in Wireless Sensor Networks and build basic modules	3.0	100.00

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 120

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
222001	EC8702	3	3	3	2	2	3	24/02/2023	ECE	7
222002	EC8702	3	3	2	3	2	3	24/02/2023	ECE	7
222003	EC8702	3	3	3	2	2	3	24/02/2023	ECE	7
222004	EC8702	3	3	2	2	2	3	24/02/2023	ECE	7
222005	EC8702	3	3	3	2	3	3	24/02/2023	ECE	7
222006	EC8702	3	3	2	3	2	3	24/02/2023	ECE	7
222007	EC8702	3	3	3	2	2	3	24/02/2023	ECE	7
222008	EC8702	3	3	2	3	2	3	24/02/2023	ECE	7
222009	EC8702	3	3	2	2	3	3	24/02/2023	ECE	7
222010	EC8702	3	3	3	3	3	3	24/02/2023	ECE	7

222011	EC8702	3	3	2	3	2	3	24/02/2023	ECE	7
222012	EC8702	3	3	3	2	2	3	24/02/2023	ECE	7
222013	EC8702	3	3	3	2	3	3	24/02/2023	ECE	7
222014	EC8702	3	3	2	2	2	3	24/02/2023	ECE	7
222015	EC8702	3	3	2	3	3	3	24/02/2023	ECE	7
222016	EC8702	3	3	2	2	3	3	24/02/2023	ECE	7
222017	EC8702	3	3	3	3	2	3	24/02/2023	ECE	7
222018	EC8702	3	3	3	3	2	3	24/02/2023	ECE	7
222019	EC8702	3	3	2	2	3	3	24/02/2023	ECE	7
222020	EC8702	3	3	2	2	3	3	24/02/2023	ECE	7
222021	EC8702	3	3	2	3	2	3	24/02/2023	ECE	7
222022	EC8702	3	3	3	2	2	3	24/02/2023	ECE	7
222023	EC8702	3	3	2	2	3	3	24/02/2023	ECE	7
222024	EC8702	3	3	3	2	2	3	24/02/2023	ECE	7
222025	EC8702	3	3	3	2	2	3	24/02/2023	ECE	7
222026	EC8702	3	3	3	3	3	3	24/02/2023	ECE	7
222027	EC8702	3	3	3	3	2	3	24/02/2023	ECE	7
222028	EC8702	3	3	2	2	2	3	24/02/2023	ECE	7
222029	EC8702	3	3	3	3	2	3	24/02/2023	ECE	7
222030	EC8702	3	3	3	2	2	3	24/02/2023	ECE	7
222031	EC8702	3	3	2	3	3	3	24/02/2023	ECE	7
222032	EC8702	3	3	3	3	3	3	24/02/2023	ECE	7
222033	EC8702	3	3	3	3	3	3	24/02/2023	ECE	7
222034	EC8702	3	3	2	3	2	3	24/02/2023	ECE	7
222035	EC8702	3	3	2	3	3	3	24/02/2023	ECE	7
222036	EC8702	3	3	2	3	2	3	24/02/2023	ECE	7
222037	EC8702	3	3	3	3	2	3	24/02/2023	ECE	7
222038	EC8702	3	3	3	2	3	3	24/02/2023	ECE	7
222039	EC8702	3	3	2	2	3	3	24/02/2023	ECE	7
222040	EC8702	3	3	2	3	2	3	24/02/2023	ECE	7
222041	EC8702	3	3	2	3	3	3	24/02/2023	ECE	7

222042	EC8702	3	3	3	2	3	3	24/02/2023	ECE	7
222043	EC8702	3	3	2	3	3	3	24/02/2023	ECE	7
222044	EC8702	3	3	2	3	3	3	24/02/2023	ECE	7
222046	EC8702	3	3	3	3	2	3	24/02/2023	ECE	7
222047	EC8702	3	3	2	2	3	3	24/02/2023	ECE	7
222048	EC8702	3	3	2	2	3	3	24/02/2023	ECE	7
222049	EC8702	3	3	3	2	3	3	24/02/2023	ECE	7
222050	EC8702	3	3	2	2	2	3	24/02/2023	ECE	7
222051	EC8702	3	3	3	3	3	3	24/02/2023	ECE	7
222052	EC8702	3	3	2	3	2	3	24/02/2023	ECE	7
222053	EC8702	3	3	3	3	2	3	24/02/2023	ECE	7
222054	EC8702	3	3	2	3	2	3	24/02/2023	ECE	7
222055	EC8702	3	3	3	3	2	3	24/02/2023	ECE	7
222056	EC8702	3	3	3	3	3	3	24/02/2023	ECE	7
222057	EC8702	3	3	3	3	3	3	24/02/2023	ECE	7
222058	EC8702	3	3	3	3	3	3	24/02/2023	ECE	7
222059	EC8702	3	3	2	2	2	3	24/02/2023	ECE	7
222060	EC8702	3	3	2	2	3	3	24/02/2023	ECE	7
222061	EC8702	3	3	2	2	2	3	24/02/2023	ECE	7
222062	EC8702	3	3	2	3	2	3	24/02/2023	ECE	7
222063	EC8702	3	3	2	2	3	3	24/02/2023	ECE	7
222064	EC8702	3	3	3	2	2	3	24/02/2023	ECE	7
222065	EC8702	3	3	3	3	2	3	24/02/2023	ECE	7
222066	EC8702	3	3	3	3	2	3	24/02/2023	ECE	7
222067	EC8702	3	3	2	2	2	3	24/02/2023	ECE	7
222068	EC8702	3	3	3	2	3	3	24/02/2023	ECE	7
222069	EC8702	3	3	2	3	2	3	24/02/2023	ECE	7
222070	EC8702	3	3	2	2	2	3	24/02/2023	ECE	7
222071	EC8702	3	3	3	2	2	3	24/02/2023	ECE	7
222072	EC8702	3	3	3	3	2	3	24/02/2023	ECE	7
222073	EC8702	3	3	3	3	2	3	24/02/2023	ECE	7

222074	EC8702	3	3	2	3	2	3	24/02/2023	ECE	7
222075	EC8702	3	3	3	2	3	3	24/02/2023	ECE	7
222076	EC8702	3	3	3	2	2	3	24/02/2023	ECE	7
222077	EC8702	3	3	2	3	3	3	24/02/2023	ECE	7
222078	EC8702	3	3	3	3	2	3	24/02/2023	ECE	7
222079	EC8702	3	3	3	2	2	3	24/02/2023	ECE	7
222080	EC8702	3	3	3	2	2	3	24/02/2023	ECE	7
222081	EC8702	3	3	2	3	3	3	24/02/2023	ECE	7
222082	EC8702	3	3	2	3	3	3	24/02/2023	ECE	7
222083	EC8702	3	3	2	3	3	3	24/02/2023	ECE	7
222084	EC8702	3	3	2	2	2	3	24/02/2023	ECE	7
222085	EC8702	3	3	2	2	2	3	24/02/2023	ECE	7
222086	EC8702	3	3	2	3	3	3	24/02/2023	ECE	7
222087	EC8702	3	3	2	3	3	3	24/02/2023	ECE	7
222088	EC8702	3	3	2	3	2	3	24/02/2023	ECE	7
222089	EC8702	3	3	2	3	2	3	24/02/2023	ECE	7
222090	EC8702	3	3	3	2	2	3	24/02/2023	ECE	7
222091	EC8702	3	3	2	3	2	3	24/02/2023	ECE	7
222092	EC8702	3	3	3	2	3	3	24/02/2023	ECE	7
222093	EC8702	3	3	2	2	3	3	24/02/2023	ECE	7
222094	EC8702	3	3	3	2	2	3	24/02/2023	ECE	7
222095	EC8702	3	3	2	3	2	3	24/02/2023	ECE	7
222096	EC8702	3	3	3	2	3	3	24/02/2023	ECE	7
222097	EC8702	3	3	3	3	2	3	24/02/2023	ECE	7
222098	EC8702	3	3	3	2	2	3	24/02/2023	ECE	7
222099	EC8702	3	3	2	2	3	3	24/02/2023	ECE	7
222100	EC8702	3	3	3	2	2	3	24/02/2023	ECE	7
222101	EC8702	3	3	3	2	3	3	24/02/2023	ECE	7
222102	EC8702	3	3	3	3	2	3	24/02/2023	ECE	7
222103	EC8702	3	3	2	2	2	3	24/02/2023	ECE	7
222104	EC8702	3	3	3	2	3	3	24/02/2023	ECE	7

222105	EC8702	3	3	3	3	3	3	24/02/2023	ECE	7
222106	EC8702	3	3	3	2	2	3	24/02/2023	ECE	7
222107	EC8702	3	3	2	3	2	3	24/02/2023	ECE	7
222108	EC8702	3	3	3	3	3	3	24/02/2023	ECE	7
222109	EC8702	3	3	2	2	2	3	24/02/2023	ECE	7
222110	EC8702	3	3	3	2	3	3	24/02/2023	ECE	7
222111	EC8702	3	3	2	2	2	3	24/02/2023	ECE	7
222112	EC8702	3	3	3	2	2	3	24/02/2023	ECE	7
222113	EC8702	3	3	2	2	3	3	24/02/2023	ECE	7
222114	EC8702	3	3	2	2	3	3	24/02/2023	ECE	7
222115	EC8702	3	3	2	2	3	3	24/02/2023	ECE	7
222116	EC8702	3	3	3	2	3	3	24/02/2023	ECE	7
222117	EC8702	3	3	2	3	3	3	24/02/2023	ECE	7
222118	EC8702	3	3	3	3	3	3	24/02/2023	ECE	7
222119	EC8702	3	3	3	3	2	3	24/02/2023	ECE	7
222120	EC8702	3	3	2	2	2	3	24/02/2023	ECE	7
222121	EC8702	3	3	2	3	3	3	24/02/2023	ECE	7
Attained Level		3.0	3.0	2.49	2.49	2.44	3.0			
%		100.00	100.00	83.00	83.00	81.33	100.00			

Saranathan College of Engineering
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Course End Survey - Consolidated Report

Academic Year : **2022-23ODD** Semester : **7** Programme: **B.E/B.Tech (ECE)**
Subject Code : **EC8751** NBA Code : **C402** Title **OPTICAL COMMUNICATION**
Faculty: Mr.M.Mahendran / Dr.C.Vennila

Cos	CO Description	Attained Level	%
C402.1	Understand the fundamentals of fiber optic communication systems	3.0	100.00
C402.2	Understand and Analyze various losses and distortions incurred in fiber optic communication system	3.0	100.00
C402.3	Design, create and analyze the construction of fiber optic system and also analyze the system performance	2.56	85.33
C402.4	Understand the structures of optical networks such as SDH, SONET,WDM	2.58	86.00
C402.5	Create a model of an optical communication system for simulation	2.51	83.67
C402.6	Evaluate and analyze the performance of FOC system using OptiSim software	3.0	100.00

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 120

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
222001	EC8751	3	3	2	2	3	3	24/02/2023	ECE	7
222002	EC8751	3	3	2	3	3	3	24/02/2023	ECE	7
222003	EC8751	3	3	3	3	2	3	24/02/2023	ECE	7
222004	EC8751	3	3	2	3	3	3	24/02/2023	ECE	7
222005	EC8751	3	3	3	2	3	3	24/02/2023	ECE	7
222006	EC8751	3	3	2	2	3	3	24/02/2023	ECE	7
222007	EC8751	3	3	2	3	3	3	24/02/2023	ECE	7
222008	EC8751	3	3	2	3	3	3	24/02/2023	ECE	7
222009	EC8751	3	3	2	2	2	3	24/02/2023	ECE	7
222010	EC8751	3	3	3	2	3	3	24/02/2023	ECE	7
222011	EC8751	3	3	3	2	2	3	24/02/2023	ECE	7
222012	EC8751	3	3	3	2	2	3	24/02/2023	ECE	7
222013	EC8751	3	3	2	2	2	3	24/02/2023	ECE	7

222014	EC8751	3	3	3	2	3	3	24/02/2023	ECE	7
222015	EC8751	3	3	2	3	3	3	24/02/2023	ECE	7
222016	EC8751	3	3	3	2	3	3	24/02/2023	ECE	7
222017	EC8751	3	3	3	3	3	3	24/02/2023	ECE	7
222018	EC8751	3	3	2	3	3	3	24/02/2023	ECE	7
222019	EC8751	3	3	2	2	3	3	24/02/2023	ECE	7
222020	EC8751	3	3	2	2	3	3	24/02/2023	ECE	7
222021	EC8751	3	3	2	2	2	3	24/02/2023	ECE	7
222022	EC8751	3	3	3	3	2	3	24/02/2023	ECE	7
222023	EC8751	3	3	3	3	2	3	24/02/2023	ECE	7
222024	EC8751	3	3	3	3	2	3	24/02/2023	ECE	7
222025	EC8751	3	3	2	3	3	3	24/02/2023	ECE	7
222026	EC8751	3	3	2	2	2	3	24/02/2023	ECE	7
222027	EC8751	3	3	3	3	2	3	24/02/2023	ECE	7
222028	EC8751	3	3	2	2	2	3	24/02/2023	ECE	7
222029	EC8751	3	3	3	2	3	3	24/02/2023	ECE	7
222030	EC8751	3	3	3	3	2	3	24/02/2023	ECE	7
222031	EC8751	3	3	3	2	3	3	24/02/2023	ECE	7
222032	EC8751	3	3	2	3	3	3	24/02/2023	ECE	7
222033	EC8751	3	3	3	2	3	3	24/02/2023	ECE	7
222034	EC8751	3	3	3	2	2	3	24/02/2023	ECE	7
222035	EC8751	3	3	3	2	3	3	24/02/2023	ECE	7
222036	EC8751	3	3	2	3	2	3	24/02/2023	ECE	7
222037	EC8751	3	3	3	3	3	3	24/02/2023	ECE	7
222038	EC8751	3	3	2	2	3	3	24/02/2023	ECE	7
222039	EC8751	3	3	2	3	2	3	24/02/2023	ECE	7
222040	EC8751	3	3	3	3	2	3	24/02/2023	ECE	7
222041	EC8751	3	3	2	3	2	3	24/02/2023	ECE	7
222042	EC8751	3	3	2	2	2	3	24/02/2023	ECE	7
222043	EC8751	3	3	2	3	3	3	24/02/2023	ECE	7
222044	EC8751	3	3	3	3	3	3	24/02/2023	ECE	7

222046	EC8751	3	3	3	3	2	3	24/02/2023	ECE	7
222047	EC8751	3	3	3	3	2	3	24/02/2023	ECE	7
222048	EC8751	3	3	2	3	3	3	24/02/2023	ECE	7
222049	EC8751	3	3	3	2	2	3	24/02/2023	ECE	7
222050	EC8751	3	3	2	3	2	3	24/02/2023	ECE	7
222051	EC8751	3	3	3	3	2	3	24/02/2023	ECE	7
222052	EC8751	3	3	3	3	3	3	24/02/2023	ECE	7
222053	EC8751	3	3	3	3	2	3	24/02/2023	ECE	7
222054	EC8751	3	3	2	2	3	3	24/02/2023	ECE	7
222055	EC8751	3	3	2	3	2	3	24/02/2023	ECE	7
222056	EC8751	3	3	2	3	2	3	24/02/2023	ECE	7
222057	EC8751	3	3	2	3	3	3	24/02/2023	ECE	7
222058	EC8751	3	3	3	3	3	3	24/02/2023	ECE	7
222059	EC8751	3	3	2	3	2	3	24/02/2023	ECE	7
222060	EC8751	3	3	3	3	2	3	24/02/2023	ECE	7
222061	EC8751	3	3	2	2	3	3	24/02/2023	ECE	7
222062	EC8751	3	3	3	3	2	3	24/02/2023	ECE	7
222063	EC8751	3	3	3	3	3	3	24/02/2023	ECE	7
222064	EC8751	3	3	2	3	2	3	24/02/2023	ECE	7
222065	EC8751	3	3	3	2	2	3	24/02/2023	ECE	7
222066	EC8751	3	3	2	3	2	3	24/02/2023	ECE	7
222067	EC8751	3	3	3	2	2	3	24/02/2023	ECE	7
222068	EC8751	3	3	2	3	3	3	24/02/2023	ECE	7
222069	EC8751	3	3	2	3	3	3	24/02/2023	ECE	7
222070	EC8751	3	3	2	2	2	3	24/02/2023	ECE	7
222071	EC8751	3	3	3	2	3	3	24/02/2023	ECE	7
222072	EC8751	3	3	2	3	3	3	24/02/2023	ECE	7
222073	EC8751	3	3	3	3	3	3	24/02/2023	ECE	7
222074	EC8751	3	3	2	3	2	3	24/02/2023	ECE	7
222075	EC8751	3	3	2	3	3	3	24/02/2023	ECE	7
222076	EC8751	3	3	3	3	3	3	24/02/2023	ECE	7

222077	EC8751	3	3	2	2	3	3	24/02/2023	ECE	7
222078	EC8751	3	3	2	3	2	3	24/02/2023	ECE	7
222079	EC8751	3	3	3	3	2	3	24/02/2023	ECE	7
222080	EC8751	3	3	2	2	2	3	24/02/2023	ECE	7
222081	EC8751	3	3	3	3	2	3	24/02/2023	ECE	7
222082	EC8751	3	3	3	3	2	3	24/02/2023	ECE	7
222083	EC8751	3	3	3	2	3	3	24/02/2023	ECE	7
222084	EC8751	3	3	3	3	2	3	24/02/2023	ECE	7
222085	EC8751	3	3	3	3	3	3	24/02/2023	ECE	7
222086	EC8751	3	3	3	3	2	3	24/02/2023	ECE	7
222087	EC8751	3	3	3	2	3	3	24/02/2023	ECE	7
222088	EC8751	3	3	3	2	3	3	24/02/2023	ECE	7
222089	EC8751	3	3	3	3	2	3	24/02/2023	ECE	7
222090	EC8751	3	3	3	2	3	3	24/02/2023	ECE	7
222091	EC8751	3	3	2	3	3	3	24/02/2023	ECE	7
222092	EC8751	3	3	2	3	2	3	24/02/2023	ECE	7
222093	EC8751	3	3	2	3	2	3	24/02/2023	ECE	7
222094	EC8751	3	3	2	2	3	3	24/02/2023	ECE	7
222095	EC8751	3	3	3	3	2	3	24/02/2023	ECE	7
222096	EC8751	3	3	2	3	3	3	24/02/2023	ECE	7
222097	EC8751	3	3	2	2	2	3	24/02/2023	ECE	7
222098	EC8751	3	3	3	2	3	3	24/02/2023	ECE	7
222099	EC8751	3	3	2	2	3	3	24/02/2023	ECE	7
222100	EC8751	3	3	3	2	2	3	24/02/2023	ECE	7
222101	EC8751	3	3	3	2	3	3	24/02/2023	ECE	7
222102	EC8751	3	3	3	3	2	3	24/02/2023	ECE	7
222103	EC8751	3	3	3	3	2	3	24/02/2023	ECE	7
222104	EC8751	3	3	3	3	2	3	24/02/2023	ECE	7
222105	EC8751	3	3	3	3	2	3	24/02/2023	ECE	7
222106	EC8751	3	3	3	2	3	3	24/02/2023	ECE	7
222107	EC8751	3	3	3	2	3	3	24/02/2023	ECE	7

222108	EC8751	3	3	3	2	2	3	24/02/2023	ECE	7
222109	EC8751	3	3	2	3	2	3	24/02/2023	ECE	7
222110	EC8751	3	3	2	3	2	3	24/02/2023	ECE	7
222111	EC8751	3	3	3	2	3	3	24/02/2023	ECE	7
222112	EC8751	3	3	2	2	2	3	24/02/2023	ECE	7
222113	EC8751	3	3	3	3	3	3	24/02/2023	ECE	7
222114	EC8751	3	3	3	3	3	3	24/02/2023	ECE	7
222115	EC8751	3	3	2	3	3	3	24/02/2023	ECE	7
222116	EC8751	3	3	3	2	3	3	24/02/2023	ECE	7
222117	EC8751	3	3	3	2	2	3	24/02/2023	ECE	7
222118	EC8751	3	3	3	2	3	3	24/02/2023	ECE	7
222119	EC8751	3	3	3	2	3	3	24/02/2023	ECE	7
222120	EC8751	3	3	3	3	2	3	24/02/2023	ECE	7
222121	EC8751	3	3	3	2	3	3	24/02/2023	ECE	7
Attained Level		3.0	3.0	2.56	2.58	2.51	3.0			
%		100.00	100.00	85.33	86.00	83.67	100.00			

Saranathan College of Engineering
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Course End Survey - Consolidated Report

Academic Year : **2022-23ODD** Semester : **7** Programme: **B.E/B.Tech (ECE)**
Subject Code : **EC8791** NBA Code : **C403** Title **EMBEDDED AND REAL TIME SYSTEMS**
Faculty: Ms.J.Eindhumathy / Ms.B.Divya

Cos	CO Description	Attained Level	%
C403.1	Understand embedded design process and design methodologies	3.0	100.00
C403.2	Understand the architecture and programming of an ARM Processor	3.0	100.00
C403.3	Analyze the issues of real time embedded systems	2.53	84.33
C403.4	Apply the system design techniques to develop software for embedded systems	2.44	81.33
C403.5	Understand the differences between the general purpose operating system and RTOS	2.43	81.00
C403.6	Create embedded systems for real time applications	3.0	100.00

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 120

Batchno	Subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
222001	EC8791	3	3	2	2	2	3	24/02/2023	ECE	7
222002	EC8791	3	3	2	3	2	3	24/02/2023	ECE	7
222003	EC8791	3	3	3	2	2	3	24/02/2023	ECE	7
222004	EC8791	3	3	2	3	2	3	24/02/2023	ECE	7
222005	EC8791	3	3	2	3	2	3	24/02/2023	ECE	7
222006	EC8791	3	3	3	2	2	3	24/02/2023	ECE	7
222007	EC8791	3	3	3	2	2	3	24/02/2023	ECE	7
222008	EC8791	3	3	3	2	3	3	24/02/2023	ECE	7
222009	EC8791	3	3	2	2	2	3	24/02/2023	ECE	7
222010	EC8791	3	3	3	2	2	3	24/02/2023	ECE	7
222011	EC8791	3	3	2	2	2	3	24/02/2023	ECE	7
222012	EC8791	3	3	3	2	2	3	24/02/2023	ECE	7

222013	EC8791	3	3	2	2	2	3	24/02/2023	ECE	7
222014	EC8791	3	3	2	3	3	3	24/02/2023	ECE	7
222015	EC8791	3	3	2	3	2	3	24/02/2023	ECE	7
222016	EC8791	3	3	3	3	2	3	24/02/2023	ECE	7
222017	EC8791	3	3	2	3	3	3	24/02/2023	ECE	7
222018	EC8791	3	3	2	3	2	3	24/02/2023	ECE	7
222019	EC8791	3	3	3	2	3	3	24/02/2023	ECE	7
222020	EC8791	3	3	2	2	3	3	24/02/2023	ECE	7
222021	EC8791	3	3	2	3	3	3	24/02/2023	ECE	7
222022	EC8791	3	3	2	3	3	3	24/02/2023	ECE	7
222023	EC8791	3	3	3	2	2	3	24/02/2023	ECE	7
222024	EC8791	3	3	2	2	2	3	24/02/2023	ECE	7
222025	EC8791	3	3	3	3	2	3	24/02/2023	ECE	7
222026	EC8791	3	3	3	3	2	3	24/02/2023	ECE	7
222027	EC8791	3	3	2	2	2	3	24/02/2023	ECE	7
222028	EC8791	3	3	2	3	3	3	24/02/2023	ECE	7
222029	EC8791	3	3	2	2	3	3	24/02/2023	ECE	7
222030	EC8791	3	3	3	2	3	3	24/02/2023	ECE	7
222031	EC8791	3	3	3	3	2	3	24/02/2023	ECE	7
222032	EC8791	3	3	3	2	3	3	24/02/2023	ECE	7
222033	EC8791	3	3	3	3	2	3	24/02/2023	ECE	7
222034	EC8791	3	3	2	2	2	3	24/02/2023	ECE	7
222035	EC8791	3	3	3	3	3	3	24/02/2023	ECE	7
222036	EC8791	3	3	3	2	2	3	24/02/2023	ECE	7
222037	EC8791	3	3	3	2	3	3	24/02/2023	ECE	7
222038	EC8791	3	3	3	2	3	3	24/02/2023	ECE	7
222039	EC8791	3	3	2	2	3	3	24/02/2023	ECE	7
222040	EC8791	3	3	3	3	2	3	24/02/2023	ECE	7
222041	EC8791	3	3	3	3	2	3	24/02/2023	ECE	7
222042	EC8791	3	3	2	2	2	3	24/02/2023	ECE	7
222043	EC8791	3	3	3	2	2	3	24/02/2023	ECE	7

222044	EC8791	3	3	2	3	3	3	24/02/2023	ECE	7
222046	EC8791	3	3	2	2	3	3	24/02/2023	ECE	7
222047	EC8791	3	3	3	2	2	3	24/02/2023	ECE	7
222048	EC8791	3	3	3	2	3	3	24/02/2023	ECE	7
222049	EC8791	3	3	2	2	2	3	24/02/2023	ECE	7
222050	EC8791	3	3	3	3	2	3	24/02/2023	ECE	7
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222053	EC8791	3	3	3	2	3	3	24/02/2023	ECE	7
222054	EC8791	3	3	2	3	3	3	24/02/2023	ECE	7
222055	EC8791	3	3	2	2	3	3	24/02/2023	ECE	7
222056	EC8791	3	3	2	3	3	3	24/02/2023	ECE	7
222057	EC8791	3	3	3	3	3	3	24/02/2023	ECE	7
222058	EC8791	3	3	3	2	3	3	24/02/2023	ECE	7
222059	EC8791	3	3	3	3	2	3	24/02/2023	ECE	7
222060	EC8791	3	3	2	2	2	3	24/02/2023	ECE	7
222061	EC8791	3	3	3	2	3	3	24/02/2023	ECE	7
222062	EC8791	3	3	2	3	3	3	24/02/2023	ECE	7
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222064	EC8791	3	3	3	2	3	3	24/02/2023	ECE	7
222065	EC8791	3	3	3	3	2	3	24/02/2023	ECE	7
222066	EC8791	3	3	3	3	3	3	24/02/2023	ECE	7
222067	EC8791	3	3	2	2	3	3	24/02/2023	ECE	7
222068	EC8791	3	3	3	2	3	3	24/02/2023	ECE	7
222069	EC8791	3	3	2	2	2	3	24/02/2023	ECE	7
222070	EC8791	3	3	2	2	3	3	24/02/2023	ECE	7
222071	EC8791	3	3	3	2	3	3	24/02/2023	ECE	7
222072	EC8791	3	3	3	2	2	3	24/02/2023	ECE	7
222073	EC8791	3	3	2	3	2	3	24/02/2023	ECE	7
222074	EC8791	3	3	3	2	3	3	24/02/2023	ECE	7
222075	EC8791	3	3	3	2	2	3	24/02/2023	ECE	7

222076	EC8791	3	3	2	2	3	3	24/02/2023	ECE	7
222077	EC8791	3	3	3	2	3	3	24/02/2023	ECE	7
222078	EC8791	3	3	2	3	2	3	24/02/2023	ECE	7
222079	EC8791	3	3	3	2	3	3	24/02/2023	ECE	7
222080	EC8791	3	3	2	2	2	3	24/02/2023	ECE	7
222081	EC8791	3	3	2	3	2	3	24/02/2023	ECE	7
222082	EC8791	3	3	3	3	2	3	24/02/2023	ECE	7
222083	EC8791	3	3	3	2	2	3	24/02/2023	ECE	7
222084	EC8791	3	3	2	3	2	3	24/02/2023	ECE	7
222085	EC8791	3	3	2	3	3	3	24/02/2023	ECE	7
222086	EC8791	3	3	3	3	2	3	24/02/2023	ECE	7
222087	EC8791	3	3	2	2	3	3	24/02/2023	ECE	7
222088	EC8791	3	3	3	2	2	3	24/02/2023	ECE	7
222089	EC8791	3	3	2	3	2	3	24/02/2023	ECE	7
222090	EC8791	3	3	2	3	2	3	24/02/2023	ECE	7
222091	EC8791	3	3	3	2	3	3	24/02/2023	ECE	7
222092	EC8791	3	3	2	3	2	3	24/02/2023	ECE	7
222093	EC8791	3	3	2	3	2	3	24/02/2023	ECE	7
222094	EC8791	3	3	3	2	3	3	24/02/2023	ECE	7
222095	EC8791	3	3	3	3	3	3	24/02/2023	ECE	7
222096	EC8791	3	3	3	2	3	3	24/02/2023	ECE	7
222097	EC8791	3	3	3	3	2	3	24/02/2023	ECE	7
222098	EC8791	3	3	3	3	3	3	24/02/2023	ECE	7
222099	EC8791	3	3	3	3	2	3	24/02/2023	ECE	7
222100	EC8791	3	3	3	3	2	3	24/02/2023	ECE	7
222101	EC8791	3	3	2	2	2	3	24/02/2023	ECE	7
222102	EC8791	3	3	3	2	3	3	24/02/2023	ECE	7
222103	EC8791	3	3	2	3	2	3	24/02/2023	ECE	7
222104	EC8791	3	3	2	3	3	3	24/02/2023	ECE	7
222105	EC8791	3	3	2	3	2	3	24/02/2023	ECE	7
222106	EC8791	3	3	3	2	2	3	24/02/2023	ECE	7

222107	EC8791	3	3	3	2	3	3	24/02/2023	ECE	7
222108	EC8791	3	3	3	2	2	3	24/02/2023	ECE	7
222109	EC8791	3	3	3	2	2	3	24/02/2023	ECE	7
222110	EC8791	3	3	3	3	2	3	24/02/2023	ECE	7
222111	EC8791	3	3	3	2	2	3	24/02/2023	ECE	7
222112	EC8791	3	3	2	2	3	3	24/02/2023	ECE	7
222113	EC8791	3	3	2	3	2	3	24/02/2023	ECE	7
222114	EC8791	3	3	3	2	3	3	24/02/2023	ECE	7
222115	EC8791	3	3	3	2	2	3	24/02/2023	ECE	7
222116	EC8791	3	3	2	3	2	3	24/02/2023	ECE	7
222117	EC8791	3	3	2	3	3	3	24/02/2023	ECE	7
222118	EC8791	3	3	3	2	2	3	24/02/2023	ECE	7
222119	EC8791	3	3	3	2	2	3	24/02/2023	ECE	7
222120	EC8791	3	3	2	3	2	3	24/02/2023	ECE	7
222121	EC8791	3	3	2	2	2	3	24/02/2023	ECE	7
Attained Level		3.0	3.0	2.53	2.44	2.43	3.0			
%		100.00	100.00	84.33	81.33	81.00	100.00			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23ODD** Semester : **7** Programme: **B.E/B.Tech (ECE)**
Subject Code : **GE8076[8]** NBA Code : **C409PE** Title **PROFESSIONAL ETHICS IN ENGINEERING**
Faculty: Dr.S.Rajeswari / Dr.S.A.Arunmozhi

Cos	CO Description	Attained Level	%
C409PE.1	Understand the human values and ethicsin the human excellence and behaviour in the organisation	3.0	100.00
C409PE.2	Understand the characteristics of morals and engineer's conduct of behaviour and practice in the workplace	3.0	100.00
C409PE.3	Realize engineering as an experimental process to understand the various ethical implications	2.51	83.67
C409PE.4	Analyze the responsibility of engineers to ensure the safety, health and welfare of the public	2.51	83.67
C409PE.5	Apply ethics in dealing with the global issues, computer ethics and weapons development	2.49	83.00
C409PE.6	Realize moral guidelines of practising human, employee, professional rights in organisations.	3.0	100.00

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 120

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
222001	GE8076[8]	3	3	2	3	2	3	24/02/2023	ECE	7
222002	GE8076[8]	3	3	3	2	2	3	24/02/2023	ECE	7
222003	GE8076[8]	3	3	2	2	2	3	24/02/2023	ECE	7
222004	GE8076[8]	3	3	3	2	3	3	24/02/2023	ECE	7
222005	GE8076[8]	3	3	2	2	3	3	24/02/2023	ECE	7
222006	GE8076[8]	3	3	3	2	3	3	24/02/2023	ECE	7
222007	GE8076[8]	3	3	2	3	3	3	24/02/2023	ECE	7
222008	GE8076[8]	3	3	3	2	3	3	24/02/2023	ECE	7
222009	GE8076[8]	3	3	2	3	3	3	24/02/2023	ECE	7
222010	GE8076[8]	3	3	3	3	3	3	24/02/2023	ECE	7

222011	GE8076[8]	3	3	3	2	2	3	24/02/2023	ECE	7
222012	GE8076[8]	3	3	3	3	3	3	24/02/2023	ECE	7
222013	GE8076[8]	3	3	3	3	2	3	24/02/2023	ECE	7
222014	GE8076[8]	3	3	3	3	2	3	24/02/2023	ECE	7
222015	GE8076[8]	3	3	2	3	3	3	24/02/2023	ECE	7
222016	GE8076[8]	3	3	3	2	3	3	24/02/2023	ECE	7
222017	GE8076[8]	3	3	3	3	3	3	24/02/2023	ECE	7
222018	GE8076[8]	3	3	3	3	3	3	24/02/2023	ECE	7
222019	GE8076[8]	3	3	2	3	2	3	24/02/2023	ECE	7
222020	GE8076[8]	3	3	3	2	3	3	24/02/2023	ECE	7
222021	GE8076[8]	3	3	2	2	3	3	24/02/2023	ECE	7
222022	GE8076[8]	3	3	2	2	2	3	24/02/2023	ECE	7
222023	GE8076[8]	3	3	2	2	3	3	24/02/2023	ECE	7
222024	GE8076[8]	3	3	3	3	2	3	24/02/2023	ECE	7
222025	GE8076[8]	3	3	3	2	2	3	24/02/2023	ECE	7
222026	GE8076[8]	3	3	2	3	2	3	24/02/2023	ECE	7
222027	GE8076[8]	3	3	3	2	2	3	24/02/2023	ECE	7
222028	GE8076[8]	3	3	3	2	2	3	24/02/2023	ECE	7
222029	GE8076[8]	3	3	2	3	3	3	24/02/2023	ECE	7
222030	GE8076[8]	3	3	3	2	3	3	24/02/2023	ECE	7
222031	GE8076[8]	3	3	2	3	2	3	24/02/2023	ECE	7
222032	GE8076[8]	3	3	3	3	3	3	24/02/2023	ECE	7
222033	GE8076[8]	3	3	3	3	2	3	24/02/2023	ECE	7
222034	GE8076[8]	3	3	2	2	3	3	24/02/2023	ECE	7
222035	GE8076[8]	3	3	2	2	2	3	24/02/2023	ECE	7
222036	GE8076[8]	3	3	3	3	3	3	24/02/2023	ECE	7
222037	GE8076[8]	3	3	3	3	2	3	24/02/2023	ECE	7
222038	GE8076[8]	3	3	3	2	2	3	24/02/2023	ECE	7
222039	GE8076[8]	3	3	3	3	3	3	24/02/2023	ECE	7
222040	GE8076[8]	3	3	3	3	3	3	24/02/2023	ECE	7
222041	GE8076[8]	3	3	3	2	2	3	24/02/2023	ECE	7

222042	GE8076[8]	3	3	3	3	2	3	24/02/2023	ECE	7
222043	GE8076[8]	3	3	3	2	2	3	24/02/2023	ECE	7
222044	GE8076[8]	3	3	2	3	2	3	24/02/2023	ECE	7
222046	GE8076[8]	3	3	3	3	3	3	24/02/2023	ECE	7
222047	GE8076[8]	3	3	2	3	3	3	24/02/2023	ECE	7
222048	GE8076[8]	3	3	2	2	2	3	24/02/2023	ECE	7
222049	GE8076[8]	3	3	3	3	2	3	24/02/2023	ECE	7
222050	GE8076[8]	3	3	2	3	3	3	24/02/2023	ECE	7
222051	GE8076[8]	3	3	3	3	3	3	24/02/2023	ECE	7
222052	GE8076[8]	3	3	2	2	3	3	24/02/2023	ECE	7
222053	GE8076[8]	3	3	2	3	2	3	24/02/2023	ECE	7
222054	GE8076[8]	3	3	2	2	3	3	24/02/2023	ECE	7
222055	GE8076[8]	3	3	3	3	2	3	24/02/2023	ECE	7
222056	GE8076[8]	3	3	3	2	3	3	24/02/2023	ECE	7
222057	GE8076[8]	3	3	2	2	3	3	24/02/2023	ECE	7
222058	GE8076[8]	3	3	2	2	2	3	24/02/2023	ECE	7
222059	GE8076[8]	3	3	2	2	3	3	24/02/2023	ECE	7
222060	GE8076[8]	3	3	3	2	3	3	24/02/2023	ECE	7
222061	GE8076[8]	3	3	2	2	2	3	24/02/2023	ECE	7
222062	GE8076[8]	3	3	2	2	2	3	24/02/2023	ECE	7
222063	GE8076[8]	3	3	3	2	2	3	24/02/2023	ECE	7
222064	GE8076[8]	3	3	2	3	3	3	24/02/2023	ECE	7
222065	GE8076[8]	3	3	3	3	2	3	24/02/2023	ECE	7
222066	GE8076[8]	3	3	2	3	3	3	24/02/2023	ECE	7
222067	GE8076[8]	3	3	3	3	3	3	24/02/2023	ECE	7
222068	GE8076[8]	3	3	3	2	3	3	24/02/2023	ECE	7
222069	GE8076[8]	3	3	3	2	3	3	24/02/2023	ECE	7
222070	GE8076[8]	3	3	3	2	3	3	24/02/2023	ECE	7
222071	GE8076[8]	3	3	2	3	2	3	24/02/2023	ECE	7
222072	GE8076[8]	3	3	2	3	2	3	24/02/2023	ECE	7
222073	GE8076[8]	3	3	2	3	2	3	24/02/2023	ECE	7

222074	GE8076[8]	3	3	2	3	3	3	24/02/2023	ECE	7
222075	GE8076[8]	3	3	3	2	2	3	24/02/2023	ECE	7
222076	GE8076[8]	3	3	3	2	3	3	24/02/2023	ECE	7
222077	GE8076[8]	3	3	2	3	3	3	24/02/2023	ECE	7
222078	GE8076[8]	3	3	3	2	2	3	24/02/2023	ECE	7
222079	GE8076[8]	3	3	2	2	3	3	24/02/2023	ECE	7
222080	GE8076[8]	3	3	3	2	2	3	24/02/2023	ECE	7
222081	GE8076[8]	3	3	3	3	2	3	24/02/2023	ECE	7
222082	GE8076[8]	3	3	2	3	3	3	24/02/2023	ECE	7
222083	GE8076[8]	3	3	2	2	2	3	24/02/2023	ECE	7
222084	GE8076[8]	3	3	3	3	2	3	24/02/2023	ECE	7
222085	GE8076[8]	3	3	3	2	3	3	24/02/2023	ECE	7
222086	GE8076[8]	3	3	2	3	3	3	24/02/2023	ECE	7
222087	GE8076[8]	3	3	2	3	2	3	24/02/2023	ECE	7
222088	GE8076[8]	3	3	3	3	2	3	24/02/2023	ECE	7
222089	GE8076[8]	3	3	3	2	2	3	24/02/2023	ECE	7
222090	GE8076[8]	3	3	2	2	2	3	24/02/2023	ECE	7
222091	GE8076[8]	3	3	2	2	3	3	24/02/2023	ECE	7
222092	GE8076[8]	3	3	2	2	3	3	24/02/2023	ECE	7
222093	GE8076[8]	3	3	3	2	3	3	24/02/2023	ECE	7
222094	GE8076[8]	3	3	3	3	2	3	24/02/2023	ECE	7
222095	GE8076[8]	3	3	2	3	2	3	24/02/2023	ECE	7
222096	GE8076[8]	3	3	2	2	2	3	24/02/2023	ECE	7
222097	GE8076[8]	3	3	2	3	2	3	24/02/2023	ECE	7
222098	GE8076[8]	3	3	2	2	2	3	24/02/2023	ECE	7
222099	GE8076[8]	3	3	2	3	3	3	24/02/2023	ECE	7
222100	GE8076[8]	3	3	3	3	3	3	24/02/2023	ECE	7
222101	GE8076[8]	3	3	2	3	3	3	24/02/2023	ECE	7
222102	GE8076[8]	3	3	2	3	2	3	24/02/2023	ECE	7
222103	GE8076[8]	3	3	3	3	3	3	24/02/2023	ECE	7
222104	GE8076[8]	3	3	2	2	3	3	24/02/2023	ECE	7

222105	GE8076[8]	3	3	3	2	2	3	24/02/2023	ECE	7
222106	GE8076[8]	3	3	3	2	2	3	24/02/2023	ECE	7
222107	GE8076[8]	3	3	3	2	2	3	24/02/2023	ECE	7
222108	GE8076[8]	3	3	2	3	3	3	24/02/2023	ECE	7
222109	GE8076[8]	3	3	3	3	2	3	24/02/2023	ECE	7
222110	GE8076[8]	3	3	2	2	3	3	24/02/2023	ECE	7
222111	GE8076[8]	3	3	3	2	3	3	24/02/2023	ECE	7
222112	GE8076[8]	3	3	2	3	2	3	24/02/2023	ECE	7
222113	GE8076[8]	3	3	2	2	2	3	24/02/2023	ECE	7
222114	GE8076[8]	3	3	2	3	2	3	24/02/2023	ECE	7
222115	GE8076[8]	3	3	3	3	2	3	24/02/2023	ECE	7
222116	GE8076[8]	3	3	2	3	3	3	24/02/2023	ECE	7
222117	GE8076[8]	3	3	2	2	3	3	24/02/2023	ECE	7
222118	GE8076[8]	3	3	2	3	2	3	24/02/2023	ECE	7
222119	GE8076[8]	3	3	3	2	3	3	24/02/2023	ECE	7
222120	GE8076[8]	3	3	3	2	2	3	24/02/2023	ECE	7
222121	GE8076[8]	3	3	2	3	2	3	24/02/2023	ECE	7
Attained Level		3.0	3.0	2.51	2.51	2.49	3.0			
%		100.00	100.00	83.67	83.67	83.00	100.00			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23ODD** Semester : **7** Programme: **B.E/B.Tech (ECE)**
Subject Code : **OIC751** NBA Code : **C406OE2** Title **TRANSDUCER ENGINEERING**
Faculty: Dr.M.Padmaa / Dr.M.Baritha Begum

Cos	CO Description	Attained Level	%
C406OE2.1	pply mathematical knowledge and science and engineering fundamentals gained to solve problems pertaining to measurement application and Summarize the types of transducers and its applications.	3.0	100.00
C406OE2.2	Determine the static and dynamic characteristics of transducers to model them	3.0	100.00
C406OE2.3	Get exposed to different types of resistive transducers and their application areas	2.53	84.33
C406OE2.4	Acquire knowledge on variable inductance and variable capacitance transducers	2.37	79.00
C406OE2.5	Gain knowledge on variety of transducers and its need	2.63	87.67
C406OE2.6	Analyze MEMS and Nano sensors	3.0	100.00

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 120

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
222001	OIC751	3	3	2	2	3	3	24/02/2023	ECE	7
222002	OIC751	3	3	3	3	3	3	24/02/2023	ECE	7
222003	OIC751	3	3	2	2	2	3	24/02/2023	ECE	7
222004	OIC751	3	3	3	2	3	3	24/02/2023	ECE	7
222005	OIC751	3	3	3	2	3	3	24/02/2023	ECE	7
222006	OIC751	3	3	3	2	2	3	24/02/2023	ECE	7
222007	OIC751	3	3	3	2	2	3	24/02/2023	ECE	7
222008	OIC751	3	3	2	2	2	3	24/02/2023	ECE	7
222009	OIC751	3	3	2	2	3	3	24/02/2023	ECE	7
222010	OIC751	3	3	2	3	3	3	24/02/2023	ECE	7

222011	OIC751	3	3	2	2	2	3	24/02/2023	ECE	7
222012	OIC751	3	3	3	2	2	3	24/02/2023	ECE	7
222013	OIC751	3	3	2	3	2	3	24/02/2023	ECE	7
222014	OIC751	3	3	2	2	3	3	24/02/2023	ECE	7
222015	OIC751	3	3	2	2	2	3	24/02/2023	ECE	7
222016	OIC751	3	3	2	2	3	3	24/02/2023	ECE	7
222017	OIC751	3	3	2	2	3	3	24/02/2023	ECE	7
222018	OIC751	3	3	3	3	2	3	24/02/2023	ECE	7
222019	OIC751	3	3	2	2	3	3	24/02/2023	ECE	7
222020	OIC751	3	3	2	2	3	3	24/02/2023	ECE	7
222021	OIC751	3	3	2	3	3	3	24/02/2023	ECE	7
222022	OIC751	3	3	2	2	3	3	24/02/2023	ECE	7
222023	OIC751	3	3	3	2	3	3	24/02/2023	ECE	7
222024	OIC751	3	3	2	3	2	3	24/02/2023	ECE	7
222025	OIC751	3	3	3	2	2	3	24/02/2023	ECE	7
222026	OIC751	3	3	2	2	2	3	24/02/2023	ECE	7
222027	OIC751	3	3	2	2	3	3	24/02/2023	ECE	7
222028	OIC751	3	3	2	3	3	3	24/02/2023	ECE	7
222029	OIC751	3	3	2	3	3	3	24/02/2023	ECE	7
222030	OIC751	3	3	2	3	3	3	24/02/2023	ECE	7
222031	OIC751	3	3	3	3	2	3	24/02/2023	ECE	7
222032	OIC751	3	3	3	3	2	3	24/02/2023	ECE	7
222033	OIC751	3	3	2	2	3	3	24/02/2023	ECE	7
222034	OIC751	3	3	2	2	3	3	24/02/2023	ECE	7
222035	OIC751	3	3	3	2	3	3	24/02/2023	ECE	7
222036	OIC751	3	3	3	3	3	3	24/02/2023	ECE	7
222037	OIC751	3	3	3	2	3	3	24/02/2023	ECE	7
222038	OIC751	3	3	3	3	2	3	24/02/2023	ECE	7
222039	OIC751	3	3	3	2	3	3	24/02/2023	ECE	7
222040	OIC751	3	3	2	2	3	3	24/02/2023	ECE	7
222041	OIC751	3	3	3	3	3	3	24/02/2023	ECE	7

222042	OIC751	3	3	3	2	3	3	24/02/2023	ECE	7
222043	OIC751	3	3	2	2	3	3	24/02/2023	ECE	7
222044	OIC751	3	3	2	2	3	3	24/02/2023	ECE	7
222046	OIC751	3	3	2	3	2	3	24/02/2023	ECE	7
222047	OIC751	3	3	3	2	2	3	24/02/2023	ECE	7
222048	OIC751	3	3	2	2	3	3	24/02/2023	ECE	7
222049	OIC751	3	3	3	3	3	3	24/02/2023	ECE	7
222050	OIC751	3	3	2	2	2	3	24/02/2023	ECE	7
222051	OIC751	3	3	3	2	3	3	24/02/2023	ECE	7
222052	OIC751	3	3	3	2	3	3	24/02/2023	ECE	7
222053	OIC751	3	3	2	3	2	3	24/02/2023	ECE	7
222054	OIC751	3	3	3	2	2	3	24/02/2023	ECE	7
222055	OIC751	3	3	3	3	2	3	24/02/2023	ECE	7
222056	OIC751	3	3	3	2	2	3	24/02/2023	ECE	7
222057	OIC751	3	3	3	2	3	3	24/02/2023	ECE	7
222058	OIC751	3	3	3	2	3	3	24/02/2023	ECE	7
222059	OIC751	3	3	2	2	2	3	24/02/2023	ECE	7
222060	OIC751	3	3	3	2	3	3	24/02/2023	ECE	7
222061	OIC751	3	3	3	2	3	3	24/02/2023	ECE	7
222062	OIC751	3	3	2	3	3	3	24/02/2023	ECE	7
222063	OIC751	3	3	2	2	3	3	24/02/2023	ECE	7
222064	OIC751	3	3	3	3	2	3	24/02/2023	ECE	7
222065	OIC751	3	3	3	2	3	3	24/02/2023	ECE	7
222066	OIC751	3	3	3	3	3	3	24/02/2023	ECE	7
222067	OIC751	3	3	3	2	3	3	24/02/2023	ECE	7
222068	OIC751	3	3	2	2	3	3	24/02/2023	ECE	7
222069	OIC751	3	3	2	2	3	3	24/02/2023	ECE	7
222070	OIC751	3	3	3	2	3	3	24/02/2023	ECE	7
222071	OIC751	3	3	3	3	2	3	24/02/2023	ECE	7
222072	OIC751	3	3	2	2	3	3	24/02/2023	ECE	7
222073	OIC751	3	3	3	3	3	3	24/02/2023	ECE	7

222074	OIC751	3	3	2	2	2	3	24/02/2023	ECE	7
222075	OIC751	3	3	2	2	3	3	24/02/2023	ECE	7
222076	OIC751	3	3	3	3	3	3	24/02/2023	ECE	7
222077	OIC751	3	3	3	2	2	3	24/02/2023	ECE	7
222078	OIC751	3	3	3	3	3	3	24/02/2023	ECE	7
222079	OIC751	3	3	2	2	2	3	24/02/2023	ECE	7
222080	OIC751	3	3	2	2	2	3	24/02/2023	ECE	7
222081	OIC751	3	3	2	2	3	3	24/02/2023	ECE	7
222082	OIC751	3	3	2	2	2	3	24/02/2023	ECE	7
222083	OIC751	3	3	3	2	3	3	24/02/2023	ECE	7
222084	OIC751	3	3	3	3	3	3	24/02/2023	ECE	7
222085	OIC751	3	3	2	3	2	3	24/02/2023	ECE	7
222086	OIC751	3	3	3	3	3	3	24/02/2023	ECE	7
222087	OIC751	3	3	3	2	3	3	24/02/2023	ECE	7
222088	OIC751	3	3	2	3	2	3	24/02/2023	ECE	7
222089	OIC751	3	3	3	3	3	3	24/02/2023	ECE	7
222090	OIC751	3	3	2	2	2	3	24/02/2023	ECE	7
222091	OIC751	3	3	2	2	3	3	24/02/2023	ECE	7
222092	OIC751	3	3	3	2	3	3	24/02/2023	ECE	7
222093	OIC751	3	3	3	3	2	3	24/02/2023	ECE	7
222094	OIC751	3	3	3	3	3	3	24/02/2023	ECE	7
222095	OIC751	3	3	2	2	3	3	24/02/2023	ECE	7
222096	OIC751	3	3	3	2	3	3	24/02/2023	ECE	7
222097	OIC751	3	3	3	2	2	3	24/02/2023	ECE	7
222098	OIC751	3	3	2	2	3	3	24/02/2023	ECE	7
222099	OIC751	3	3	3	3	2	3	24/02/2023	ECE	7
222100	OIC751	3	3	2	3	3	3	24/02/2023	ECE	7
222101	OIC751	3	3	3	2	2	3	24/02/2023	ECE	7
222102	OIC751	3	3	3	3	2	3	24/02/2023	ECE	7
222103	OIC751	3	3	3	3	3	3	24/02/2023	ECE	7
222104	OIC751	3	3	2	2	3	3	24/02/2023	ECE	7

222105	OIC751	3	3	3	3	3	3	24/02/2023	ECE	7
222106	OIC751	3	3	3	2	3	3	24/02/2023	ECE	7
222107	OIC751	3	3	2	2	2	3	24/02/2023	ECE	7
222108	OIC751	3	3	3	2	2	3	24/02/2023	ECE	7
222109	OIC751	3	3	2	3	3	3	24/02/2023	ECE	7
222110	OIC751	3	3	3	2	3	3	24/02/2023	ECE	7
222111	OIC751	3	3	3	2	3	3	24/02/2023	ECE	7
222112	OIC751	3	3	3	2	3	3	24/02/2023	ECE	7
222113	OIC751	3	3	3	3	2	3	24/02/2023	ECE	7
222114	OIC751	3	3	2	2	3	3	24/02/2023	ECE	7
222115	OIC751	3	3	2	3	3	3	24/02/2023	ECE	7
222116	OIC751	3	3	3	3	2	3	24/02/2023	ECE	7
222117	OIC751	3	3	3	3	2	3	24/02/2023	ECE	7
222118	OIC751	3	3	2	2	3	3	24/02/2023	ECE	7
222119	OIC751	3	3	2	2	2	3	24/02/2023	ECE	7
222120	OIC751	3	3	2	3	3	3	24/02/2023	ECE	7
222121	OIC751	3	3	3	3	2	3	24/02/2023	ECE	7
Attained Level		3.0	3.0	2.53	2.37	2.63	3.0			
%		100.00	100.00	84.33	79.00	87.67	100.00			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23EVEN** Semester : **2** Programme: **B.E/B.Tech (ECE)**
Subject Code : **BE3254** NBA Code : **C112** Title **ELECTRICAL AND INSTRUMENTATION ENGINEERING**
Faculty: Mr.S.Ramprasath / Dr.R.Vijay

Cos	CO Description	Attained Level	%
C112.1	Comprehend the concepts in transformers	2.45	81.67
C112.2	Comprehend the concepts in electrical generators and motors	2.47	82.33
C112.3	Comprehend the concept of AC machines	2.57	85.67
C112.4	Explain Working principle of various measuring instruments	2.49	83.00
C112.5	Comprehend the concept of various power system	2.49	83.00
C112.6	Working of circuit breaker, Earthing CONCEPTS	2.53	84.33

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 118

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
252001	BE3254	2	3	3	3	3	2	20/09/2023	ECE	2
252002	BE3254	2	3	3	2	2	2	20/09/2023	ECE	2
252003	BE3254	2	3	2	2	3	2	20/09/2023	ECE	2
252004	BE3254	2	3	2	2	3	2	20/09/2023	ECE	2
252005	BE3254	2	2	3	3	3	3	20/09/2023	ECE	2
252006	BE3254	2	3	2	3	2	3	20/09/2023	ECE	2
252007	BE3254	3	3	2	2	3	2	20/09/2023	ECE	2
252008	BE3254	2	2	2	3	2	3	20/09/2023	ECE	2
252009	BE3254	2	3	3	2	3	2	20/09/2023	ECE	2
252010	BE3254	3	2	2	2	2	3	20/09/2023	ECE	2
252011	BE3254	3	2	2	2	2	3	20/09/2023	ECE	2
252012	BE3254	3	2	2	3	2	2	20/09/2023	ECE	2
252013	BE3254	2	2	2	3	3	2	20/09/2023	ECE	2
252015	BE3254	3	2	2	2	2	2	20/09/2023	ECE	2
252016	BE3254	2	2	3	2	2	3	20/09/2023	ECE	2
252017	BE3254	2	3	2	3	2	3	20/09/2023	ECE	2
252019	BE3254	3	3	3	3	2	3	20/09/2023	ECE	2
252020	BE3254	3	2	2	3	2	2	20/09/2023	ECE	2
252021	BE3254	2	2	3	2	2	2	20/09/2023	ECE	2
252022	BE3254	3	2	2	2	3	2	20/09/2023	ECE	2
252023	BE3254	2	2	2	2	2	3	20/09/2023	ECE	2
252024	BE3254	2	2	2	3	2	2	20/09/2023	ECE	2
252025	BE3254	3	2	3	2	2	2	20/09/2023	ECE	2
252026	BE3254	3	3	3	2	2	3	20/09/2023	ECE	2
252027	BE3254	3	3	3	3	2	3	20/09/2023	ECE	2

252028	BE3254	2	2	2	3	3	2	20/09/2023	ECE	2
252029	BE3254	3	2	3	2	3	2	20/09/2023	ECE	2
252030	BE3254	2	2	3	2	2	2	20/09/2023	ECE	2
252031	BE3254	2	2	3	2	3	3	20/09/2023	ECE	2
252032	BE3254	3	3	2	2	3	2	20/09/2023	ECE	2
252033	BE3254	3	3	2	2	3	3	20/09/2023	ECE	2
252034	BE3254	3	2	3	3	3	3	20/09/2023	ECE	2
252035	BE3254	2	2	2	2	3	3	20/09/2023	ECE	2
252036	BE3254	3	3	2	3	3	3	20/09/2023	ECE	2
252037	BE3254	3	2	2	2	3	3	20/09/2023	ECE	2
252038	BE3254	3	2	3	2	3	3	20/09/2023	ECE	2
252039	BE3254	2	3	3	3	3	3	20/09/2023	ECE	2
252040	BE3254	2	3	2	3	2	3	20/09/2023	ECE	2
252041	BE3254	3	3	3	2	3	2	20/09/2023	ECE	2
252042	BE3254	2	2	3	2	3	3	20/09/2023	ECE	2
252043	BE3254	3	2	2	2	3	2	20/09/2023	ECE	2
252044	BE3254	2	3	3	3	3	3	20/09/2023	ECE	2
252045	BE3254	2	2	2	2	3	2	20/09/2023	ECE	2
252046	BE3254	2	2	2	3	2	3	20/09/2023	ECE	2
252047	BE3254	3	3	2	2	2	2	20/09/2023	ECE	2
252048	BE3254	2	3	2	2	3	2	20/09/2023	ECE	2
252049	BE3254	2	2	2	2	3	2	20/09/2023	ECE	2
252050	BE3254	2	2	3	2	3	2	20/09/2023	ECE	2
252051	BE3254	2	3	3	3	2	3	20/09/2023	ECE	2
252052	BE3254	3	3	2	3	3	3	20/09/2023	ECE	2
252053	BE3254	3	3	2	2	2	3	20/09/2023	ECE	2
252054	BE3254	2	3	3	3	3	2	20/09/2023	ECE	2
252055	BE3254	2	3	3	2	3	2	20/09/2023	ECE	2
252056	BE3254	3	2	2	2	2	3	20/09/2023	ECE	2
252057	BE3254	2	3	2	3	2	3	20/09/2023	ECE	2
252058	BE3254	2	2	2	2	3	3	20/09/2023	ECE	2
252059	BE3254	2	3	3	3	3	2	20/09/2023	ECE	2
252060	BE3254	2	3	3	2	3	2	20/09/2023	ECE	2
252061	BE3254	2	2	3	3	2	3	20/09/2023	ECE	2
252062	BE3254	3	2	3	3	3	2	20/09/2023	ECE	2
252063	BE3254	2	3	3	2	3	3	20/09/2023	ECE	2
252064	BE3254	2	3	3	3	2	2	20/09/2023	ECE	2
252065	BE3254	3	3	2	3	2	2	20/09/2023	ECE	2
252066	BE3254	3	2	3	3	3	3	20/09/2023	ECE	2
252067	BE3254	2	2	3	2	2	2	20/09/2023	ECE	2
252068	BE3254	3	3	3	2	2	2	20/09/2023	ECE	2

252069	BE3254	2	2	2	3	2	3	20/09/2023	ECE	2
252070	BE3254	3	2	2	3	2	2	20/09/2023	ECE	2
252071	BE3254	2	3	2	2	3	2	20/09/2023	ECE	2
252072	BE3254	3	2	3	3	2	2	20/09/2023	ECE	2
252073	BE3254	2	2	3	3	3	3	20/09/2023	ECE	2
252074	BE3254	2	3	3	2	2	2	20/09/2023	ECE	2
252075	BE3254	3	2	2	2	3	2	20/09/2023	ECE	2
252076	BE3254	2	3	3	3	2	2	20/09/2023	ECE	2
252077	BE3254	3	3	3	3	3	2	20/09/2023	ECE	2
252078	BE3254	2	2	2	3	2	3	20/09/2023	ECE	2
252079	BE3254	2	2	3	2	2	3	20/09/2023	ECE	2
252080	BE3254	2	2	3	2	2	3	20/09/2023	ECE	2
252081	BE3254	2	3	3	3	2	3	20/09/2023	ECE	2
252082	BE3254	2	3	3	2	2	2	20/09/2023	ECE	2
252083	BE3254	3	3	3	3	2	3	20/09/2023	ECE	2
252084	BE3254	3	2	2	2	2	2	20/09/2023	ECE	2
252085	BE3254	3	2	3	3	2	3	20/09/2023	ECE	2
252086	BE3254	3	3	3	3	2	2	20/09/2023	ECE	2
252087	BE3254	3	3	3	3	3	3	20/09/2023	ECE	2
252088	BE3254	2	2	2	3	2	3	20/09/2023	ECE	2
252089	BE3254	2	3	3	2	3	3	20/09/2023	ECE	2
252090	BE3254	3	3	2	3	2	3	20/09/2023	ECE	2
252091	BE3254	3	2	3	3	3	3	20/09/2023	ECE	2
252092	BE3254	3	3	3	3	3	2	20/09/2023	ECE	2
252093	BE3254	2	2	3	2	3	2	20/09/2023	ECE	2
252094	BE3254	3	3	2	3	2	3	20/09/2023	ECE	2
252095	BE3254	3	3	3	3	2	3	20/09/2023	ECE	2
252096	BE3254	3	2	2	2	2	3	20/09/2023	ECE	2
252097	BE3254	2	3	3	3	2	3	20/09/2023	ECE	2
252098	BE3254	3	2	2	2	3	2	20/09/2023	ECE	2
252099	BE3254	2	3	3	2	2	2	20/09/2023	ECE	2
252100	BE3254	3	2	3	2	2	2	20/09/2023	ECE	2
252101	BE3254	2	2	2	3	3	3	20/09/2023	ECE	2
252102	BE3254	2	2	3	2	2	2	20/09/2023	ECE	2
252103	BE3254	3	2	2	2	3	3	20/09/2023	ECE	2
252104	BE3254	2	3	2	3	2	2	20/09/2023	ECE	2
252105	BE3254	2	3	3	3	3	3	20/09/2023	ECE	2
252106	BE3254	2	2	2	3	3	2	20/09/2023	ECE	2
252107	BE3254	3	3	3	2	3	2	20/09/2023	ECE	2
252108	BE3254	2	2	3	3	3	2	20/09/2023	ECE	2
252109	BE3254	2	2	3	3	3	3	20/09/2023	ECE	2

252110	BE3254	3	2	3	3	3	3	20/09/2023	ECE	2
252111	BE3254	3	2	3	2	2	3	20/09/2023	ECE	2
252112	BE3254	2	3	3	3	2	3	20/09/2023	ECE	2
252113	BE3254	3	3	3	2	3	3	20/09/2023	ECE	2
252114	BE3254	3	2	3	2	3	3	20/09/2023	ECE	2
252115	BE3254	2	3	2	2	2	3	20/09/2023	ECE	2
252116	BE3254	3	2	3	2	2	3	20/09/2023	ECE	2
252117	BE3254	2	3	3	3	3	3	20/09/2023	ECE	2
252118	BE3254	3	2	3	3	3	2	20/09/2023	ECE	2
252119	BE3254	2	2	2	2	2	3	20/09/2023	ECE	2
252120	BE3254	2	3	3	3	2	3	20/09/2023	ECE	2
Attained Level		2.45	2.47	2.57	2.49	2.49	2.53			
%		81.67	82.33	85.67	83.00	83.00	84.33			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23EVEN** Semester : **2** Programme: **B.E/B.Tech (ECE)**
Subject Code : **EC3271** NBA Code : **C117** Title **CIRCUIT ANALYSIS LABORATORY**
Faculty: Ms.P.Sivagamasundhari / Mr.S.Hariprasath

Cos	CO Description	Attained Level	%
C117.1	Realize the circuit connection and acquire the knowledge of analyzing the circuit	2.52	84.00
C117.2	Understand basic information of circuit theory	2.55	85.00
C117.3	Understand basic circuit laws of voltage and current.	2.46	82.00
C117.4	Relate the basics of circuit theorem theory and practical implementation.	2.48	82.67
C117.5	Understand and realize the concept of resonance	2.47	82.33
C117.6	Interpret the circuit and its uses in real time applications.	2.57	85.67

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 118

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
252001	EC3271	3	3	3	3	2	3	20/09/2023	ECE	2
252002	EC3271	3	3	2	2	2	3	20/09/2023	ECE	2
252003	EC3271	3	2	3	2	2	3	20/09/2023	ECE	2
252004	EC3271	3	3	2	2	3	3	20/09/2023	ECE	2
252005	EC3271	2	3	3	2	3	3	20/09/2023	ECE	2
252006	EC3271	3	3	2	2	2	3	20/09/2023	ECE	2
252007	EC3271	3	3	2	2	3	2	20/09/2023	ECE	2
252008	EC3271	2	3	3	3	2	3	20/09/2023	ECE	2
252009	EC3271	3	2	3	2	2	2	20/09/2023	ECE	2
252010	EC3271	2	3	2	2	3	3	20/09/2023	ECE	2
252011	EC3271	2	2	2	3	2	2	20/09/2023	ECE	2
252012	EC3271	3	3	2	3	3	2	20/09/2023	ECE	2
252013	EC3271	2	3	3	2	2	3	20/09/2023	ECE	2
252015	EC3271	2	3	2	2	3	2	20/09/2023	ECE	2
252016	EC3271	3	3	2	3	3	2	20/09/2023	ECE	2
252017	EC3271	3	2	3	3	3	2	20/09/2023	ECE	2
252019	EC3271	3	2	2	2	3	3	20/09/2023	ECE	2
252020	EC3271	2	2	2	3	2	2	20/09/2023	ECE	2
252021	EC3271	2	2	3	3	2	3	20/09/2023	ECE	2
252022	EC3271	2	3	2	2	3	2	20/09/2023	ECE	2
252023	EC3271	3	2	2	3	2	3	20/09/2023	ECE	2
252024	EC3271	2	3	3	2	3	2	20/09/2023	ECE	2
252025	EC3271	3	2	2	2	2	2	20/09/2023	ECE	2
252026	EC3271	3	2	2	3	2	3	20/09/2023	ECE	2

252027	EC3271	2	3	2	2	2	3	20/09/2023	ECE	2
252028	EC3271	3	3	2	3	2	2	20/09/2023	ECE	2
252029	EC3271	3	3	3	3	2	3	20/09/2023	ECE	2
252030	EC3271	2	2	3	3	2	3	20/09/2023	ECE	2
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252032	EC3271	2	2	3	3	2	3	20/09/2023	ECE	2
252033	EC3271	2	3	3	2	2	3	20/09/2023	ECE	2
252034	EC3271	3	3	2	3	2	2	20/09/2023	ECE	2
252035	EC3271	2	3	3	2	2	3	20/09/2023	ECE	2
252036	EC3271	2	2	3	2	3	2	20/09/2023	ECE	2
252037	EC3271	3	3	2	3	3	2	20/09/2023	ECE	2
252038	EC3271	3	2	2	3	3	3	20/09/2023	ECE	2
252039	EC3271	3	3	3	3	3	3	20/09/2023	ECE	2
252040	EC3271	3	3	2	2	2	2	20/09/2023	ECE	2
252041	EC3271	3	2	2	2	2	2	20/09/2023	ECE	2
252042	EC3271	3	2	2	2	2	2	20/09/2023	ECE	2
252043	EC3271	2	3	3	2	2	2	20/09/2023	ECE	2
252044	EC3271	2	3	2	2	2	3	20/09/2023	ECE	2
252045	EC3271	3	3	2	2	2	3	20/09/2023	ECE	2
252046	EC3271	2	3	3	3	3	3	20/09/2023	ECE	2
252047	EC3271	3	2	3	3	3	3	20/09/2023	ECE	2
252048	EC3271	3	2	3	2	2	3	20/09/2023	ECE	2
252049	EC3271	2	2	3	3	3	2	20/09/2023	ECE	2
252050	EC3271	3	2	3	2	2	3	20/09/2023	ECE	2
252051	EC3271	2	3	2	3	3	3	20/09/2023	ECE	2
252052	EC3271	2	2	2	3	2	3	20/09/2023	ECE	2
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252056	EC3271	3	2	3	3	3	3	20/09/2023	ECE	2
252057	EC3271	2	3	3	3	2	3	20/09/2023	ECE	2
252058	EC3271	2	3	2	3	2	3	20/09/2023	ECE	2
252059	EC3271	3	3	2	3	3	3	20/09/2023	ECE	2
252060	EC3271	3	3	3	3	2	2	20/09/2023	ECE	2
252061	EC3271	2	3	2	2	3	3	20/09/2023	ECE	2
252062	EC3271	3	3	3	2	3	3	20/09/2023	ECE	2
252063	EC3271	3	3	2	2	2	2	20/09/2023	ECE	2
252064	EC3271	2	2	2	2	3	3	20/09/2023	ECE	2
252065	EC3271	2	3	2	2	3	3	20/09/2023	ECE	2
252066	EC3271	2	2	3	2	3	2	20/09/2023	ECE	2
252067	EC3271	2	2	3	2	2	3	20/09/2023	ECE	2

252068	EC3271	2	2	2	3	3	3	20/09/2023	ECE	2
252069	EC3271	2	3	3	3	2	3	20/09/2023	ECE	2
252070	EC3271	3	3	2	2	2	3	20/09/2023	ECE	2
252071	EC3271	2	3	2	3	2	3	20/09/2023	ECE	2
252072	EC3271	3	2	3	3	2	3	20/09/2023	ECE	2
252073	EC3271	2	2	2	2	3	3	20/09/2023	ECE	2
252074	EC3271	3	2	2	2	3	3	20/09/2023	ECE	2
252075	EC3271	3	2	2	2	3	3	20/09/2023	ECE	2
252076	EC3271	2	2	2	2	3	2	20/09/2023	ECE	2
252077	EC3271	3	2	2	3	2	2	20/09/2023	ECE	2
252078	EC3271	3	2	3	3	2	3	20/09/2023	ECE	2
252079	EC3271	3	3	3	3	3	2	20/09/2023	ECE	2
252080	EC3271	3	3	3	3	3	3	20/09/2023	ECE	2
252081	EC3271	3	3	3	2	2	3	20/09/2023	ECE	2
252082	EC3271	2	2	2	2	3	2	20/09/2023	ECE	2
252083	EC3271	3	3	2	2	3	3	20/09/2023	ECE	2
252084	EC3271	3	3	2	2	3	2	20/09/2023	ECE	2
252085	EC3271	3	2	3	2	2	2	20/09/2023	ECE	2
252086	EC3271	3	3	2	3	2	2	20/09/2023	ECE	2
252087	EC3271	2	3	2	3	3	2	20/09/2023	ECE	2
252088	EC3271	2	2	3	2	3	3	20/09/2023	ECE	2
252089	EC3271	3	3	3	3	2	2	20/09/2023	ECE	2
252090	EC3271	2	3	2	3	3	3	20/09/2023	ECE	2
252091	EC3271	2	3	2	2	3	2	20/09/2023	ECE	2
252092	EC3271	3	3	3	3	2	3	20/09/2023	ECE	2
252093	EC3271	3	2	2	2	3	2	20/09/2023	ECE	2
252094	EC3271	2	2	3	3	3	3	20/09/2023	ECE	2
252095	EC3271	3	2	3	3	2	2	20/09/2023	ECE	2
252096	EC3271	3	2	3	2	2	2	20/09/2023	ECE	2
252097	EC3271	2	3	3	2	3	3	20/09/2023	ECE	2
252098	EC3271	3	3	2	2	3	3	20/09/2023	ECE	2
252099	EC3271	2	3	2	2	2	2	20/09/2023	ECE	2
252100	EC3271	3	2	2	3	2	2	20/09/2023	ECE	2
252101	EC3271	2	3	3	2	2	2	20/09/2023	ECE	2
252102	EC3271	3	2	3	2	3	3	20/09/2023	ECE	2
252103	EC3271	2	3	3	2	2	3	20/09/2023	ECE	2
252104	EC3271	2	2	3	3	3	2	20/09/2023	ECE	2
252105	EC3271	2	3	3	3	3	2	20/09/2023	ECE	2
252106	EC3271	2	2	2	3	2	3	20/09/2023	ECE	2
252107	EC3271	2	3	2	3	2	3	20/09/2023	ECE	2
252108	EC3271	3	2	2	3	2	2	20/09/2023	ECE	2

252109	EC3271	3	3	2	2	2	2	20/09/2023	ECE	2
252110	EC3271	2	3	3	3	2	3	20/09/2023	ECE	2
252111	EC3271	3	3	2	3	3	2	20/09/2023	ECE	2
252112	EC3271	3	3	2	2	3	2	20/09/2023	ECE	2
252113	EC3271	2	3	3	2	3	2	20/09/2023	ECE	2
252114	EC3271	2	3	2	3	3	3	20/09/2023	ECE	2
252115	EC3271	2	3	3	3	3	2	20/09/2023	ECE	2
252116	EC3271	3	2	3	3	2	2	20/09/2023	ECE	2
252117	EC3271	3	3	2	2	3	3	20/09/2023	ECE	2
252118	EC3271	2	2	2	2	3	2	20/09/2023	ECE	2
252119	EC3271	3	2	2	2	3	3	20/09/2023	ECE	2
252120	EC3271	2	2	3	3	2	3	20/09/2023	ECE	2
Attained Level		2.52	2.55	2.46	2.48	2.47	2.57			
%		84.00	85.00	82.00	82.67	82.33	85.67			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23EVEN** Semester : **2** Programme: **B.E/B.Tech (ECE)**
Subject Code : **EC3251** NBA Code : **C114** Title **CIRCUIT ANALYSIS**
Faculty: Ms.P.Sivagamasundhari / Mr.S.Hariprasath

Cos	CO Description	Attained Level	%
C114.1	Apply the basic concepts of circuit analysis such as Kirchhoff¿s laws, mesh current and node voltage method for analysis of DC and AC circuits	2.56	85.33
C114.2	Apply suitable network theorems and analyze AC and DC circuits	2.44	81.33
C114.3	Analyze steady state response of any R, L and C circuits.	2.4	80.00
C114.4	Analyze the transient response for any RC, RL and RLC circuits	2.51	83.67
C114.5	Analysis the Frequency response of parallel and series resonance circuits.	2.48	82.67
C114.6	Analyze the coupled circuits and network topologies	2.5	83.33

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 118

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
252001	EC3251	3	2	2	2	2	2	20/09/2023	ECE	2
252002	EC3251	3	2	2	3	3	3	20/09/2023	ECE	2
252003	EC3251	2	2	3	3	2	2	20/09/2023	ECE	2
252004	EC3251	3	2	2	2	3	3	20/09/2023	ECE	2
252005	EC3251	2	2	2	2	3	2	20/09/2023	ECE	2
252006	EC3251	3	2	3	3	3	3	20/09/2023	ECE	2
252007	EC3251	2	2	2	3	2	2	20/09/2023	ECE	2
252008	EC3251	2	3	3	2	2	3	20/09/2023	ECE	2
252009	EC3251	3	3	2	3	3	2	20/09/2023	ECE	2
252010	EC3251	2	2	2	3	2	3	20/09/2023	ECE	2
252011	EC3251	3	3	2	2	3	2	20/09/2023	ECE	2
252012	EC3251	3	2	2	2	2	3	20/09/2023	ECE	2
252013	EC3251	3	2	2	2	3	3	20/09/2023	ECE	2
252015	EC3251	2	2	3	3	2	2	20/09/2023	ECE	2
252016	EC3251	3	3	3	3	2	3	20/09/2023	ECE	2
252017	EC3251	2	3	3	3	3	3	20/09/2023	ECE	2
252019	EC3251	3	2	2	2	2	3	20/09/2023	ECE	2
252020	EC3251	2	3	2	3	2	2	20/09/2023	ECE	2
252021	EC3251	3	2	3	2	2	2	20/09/2023	ECE	2
252022	EC3251	3	2	3	2	3	2	20/09/2023	ECE	2
252023	EC3251	2	2	2	3	2	3	20/09/2023	ECE	2
252024	EC3251	3	3	2	3	3	2	20/09/2023	ECE	2
252025	EC3251	2	2	2	3	3	2	20/09/2023	ECE	2

252026	EC3251	3	3	2	2	2	3	20/09/2023	ECE	2
252027	EC3251	2	2	2	2	3	3	20/09/2023	ECE	2
252028	EC3251	2	3	2	3	2	3	20/09/2023	ECE	2
252029	EC3251	3	3	2	2	2	3	20/09/2023	ECE	2
252030	EC3251	3	2	3	3	2	3	20/09/2023	ECE	2
252031	EC3251	3	2	3	3	2	2	20/09/2023	ECE	2
252032	EC3251	2	3	2	3	2	3	20/09/2023	ECE	2
252033	EC3251	3	3	2	3	2	3	20/09/2023	ECE	2
252034	EC3251	3	3	2	2	2	3	20/09/2023	ECE	2
252035	EC3251	3	2	3	3	2	2	20/09/2023	ECE	2
252036	EC3251	3	2	2	3	2	2	20/09/2023	ECE	2
252037	EC3251	3	3	3	3	2	3	20/09/2023	ECE	2
252038	EC3251	3	2	3	3	2	3	20/09/2023	ECE	2
252039	EC3251	2	2	2	3	2	3	20/09/2023	ECE	2
252040	EC3251	3	3	2	3	2	3	20/09/2023	ECE	2
252041	EC3251	2	2	3	3	3	2	20/09/2023	ECE	2
252042	EC3251	2	2	2	2	2	3	20/09/2023	ECE	2
252043	EC3251	2	2	3	2	2	3	20/09/2023	ECE	2
252044	EC3251	2	2	2	3	3	2	20/09/2023	ECE	2
252045	EC3251	3	3	3	3	3	3	20/09/2023	ECE	2
252046	EC3251	3	3	3	3	2	3	20/09/2023	ECE	2
252047	EC3251	3	3	2	2	3	2	20/09/2023	ECE	2
252048	EC3251	2	3	2	2	3	2	20/09/2023	ECE	2
252049	EC3251	2	2	2	3	3	2	20/09/2023	ECE	2
252050	EC3251	3	2	3	3	2	2	20/09/2023	ECE	2
252051	EC3251	3	2	3	2	3	2	20/09/2023	ECE	2
252052	EC3251	3	2	2	2	2	2	20/09/2023	ECE	2
252053	EC3251	3	3	2	3	2	2	20/09/2023	ECE	2
252054	EC3251	3	2	3	3	3	2	20/09/2023	ECE	2
252055	EC3251	3	3	2	2	2	3	20/09/2023	ECE	2
252056	EC3251	3	3	2	2	2	3	20/09/2023	ECE	2
252057	EC3251	3	3	3	3	2	2	20/09/2023	ECE	2
252058	EC3251	2	3	3	2	3	3	20/09/2023	ECE	2
252059	EC3251	3	2	2	3	3	2	20/09/2023	ECE	2
252060	EC3251	2	3	2	2	2	2	20/09/2023	ECE	2
252061	EC3251	2	3	2	2	2	3	20/09/2023	ECE	2
252062	EC3251	3	3	3	2	2	2	20/09/2023	ECE	2
252063	EC3251	3	2	2	2	3	2	20/09/2023	ECE	2
252064	EC3251	3	3	2	2	3	2	20/09/2023	ECE	2
252065	EC3251	3	3	2	2	3	3	20/09/2023	ECE	2
252066	EC3251	3	2	3	2	3	3	20/09/2023	ECE	2

252067	EC3251	3	2	2	2	2	3	20/09/2023	ECE	2
252068	EC3251	3	3	2	2	2	2	20/09/2023	ECE	2
252069	EC3251	3	2	2	3	2	2	20/09/2023	ECE	2
252070	EC3251	2	3	2	3	2	3	20/09/2023	ECE	2
252071	EC3251	3	2	3	3	3	3	20/09/2023	ECE	2
252072	EC3251	2	3	2	3	2	2	20/09/2023	ECE	2
252073	EC3251	2	2	2	2	2	3	20/09/2023	ECE	2
252074	EC3251	2	3	3	2	2	2	20/09/2023	ECE	2
252075	EC3251	2	2	2	3	3	3	20/09/2023	ECE	2
252076	EC3251	3	2	3	2	3	2	20/09/2023	ECE	2
252077	EC3251	2	3	2	3	3	2	20/09/2023	ECE	2
252078	EC3251	2	3	2	2	2	2	20/09/2023	ECE	2
252079	EC3251	2	3	2	2	3	2	20/09/2023	ECE	2
252080	EC3251	3	2	2	3	3	3	20/09/2023	ECE	2
252081	EC3251	2	2	2	2	3	2	20/09/2023	ECE	2
252082	EC3251	2	2	2	3	3	3	20/09/2023	ECE	2
252083	EC3251	3	2	3	2	3	2	20/09/2023	ECE	2
252084	EC3251	3	2	3	2	3	2	20/09/2023	ECE	2
252085	EC3251	2	2	3	3	3	3	20/09/2023	ECE	2
252086	EC3251	3	3	2	3	3	2	20/09/2023	ECE	2
252087	EC3251	2	2	2	3	2	2	20/09/2023	ECE	2
252088	EC3251	2	2	2	2	2	3	20/09/2023	ECE	2
252089	EC3251	3	2	2	2	2	2	20/09/2023	ECE	2
252090	EC3251	2	3	3	3	2	3	20/09/2023	ECE	2
252091	EC3251	3	2	2	2	3	2	20/09/2023	ECE	2
252092	EC3251	2	2	3	2	3	2	20/09/2023	ECE	2
252093	EC3251	2	3	2	3	2	2	20/09/2023	ECE	2
252094	EC3251	2	3	3	3	2	2	20/09/2023	ECE	2
252095	EC3251	2	3	3	3	2	3	20/09/2023	ECE	2
252096	EC3251	2	2	3	2	3	3	20/09/2023	ECE	2
252097	EC3251	3	3	2	3	2	2	20/09/2023	ECE	2
252098	EC3251	3	2	2	3	2	2	20/09/2023	ECE	2
252099	EC3251	3	2	3	2	3	2	20/09/2023	ECE	2
252100	EC3251	3	3	2	3	3	3	20/09/2023	ECE	2
252101	EC3251	2	2	3	2	2	3	20/09/2023	ECE	2
252102	EC3251	2	3	3	3	3	2	20/09/2023	ECE	2
252103	EC3251	2	2	3	2	3	2	20/09/2023	ECE	2
252104	EC3251	3	3	2	2	3	3	20/09/2023	ECE	2
252105	EC3251	3	3	2	3	2	3	20/09/2023	ECE	2
252106	EC3251	3	3	2	2	2	3	20/09/2023	ECE	2
252107	EC3251	3	3	3	2	3	3	20/09/2023	ECE	2

252108	EC3251	3	2	2	3	3	2	20/09/2023	ECE	2
252109	EC3251	2	2	3	2	3	3	20/09/2023	ECE	2
252110	EC3251	3	2	2	3	2	3	20/09/2023	ECE	2
252111	EC3251	2	3	3	2	3	2	20/09/2023	ECE	2
252112	EC3251	3	2	3	3	3	2	20/09/2023	ECE	2
252113	EC3251	2	2	3	2	3	3	20/09/2023	ECE	2
252114	EC3251	2	2	2	3	2	2	20/09/2023	ECE	2
252115	EC3251	2	2	3	2	3	3	20/09/2023	ECE	2
252116	EC3251	2	3	3	3	2	2	20/09/2023	ECE	2
252117	EC3251	3	3	2	2	3	3	20/09/2023	ECE	2
252118	EC3251	2	2	3	3	3	3	20/09/2023	ECE	2
252119	EC3251	3	3	2	2	3	3	20/09/2023	ECE	2
252120	EC3251	3	2	2	2	3	3	20/09/2023	ECE	2
Attained Level		2.56	2.44	2.4	2.51	2.48	2.5			
%		85.33	81.33	80.00	83.67	82.67	83.33			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23EVEN** Semester : **2** Programme: **B.E/B.Tech (ECE)**
Subject Code : **GE3251** NBA Code : **C113** Title **ENGINEERING GRAPHICS**
Faculty: Mr.R.Suresh Babu / Dr.M.R.Anantha Padmanaban

Cos	CO Description	Attained Level	%
C113.1	Student will be able to draw the various types of engineering curves.	2.57	85.67
C113.2	Student will be able to draw the projection of points, lines and plain surfaces.	2.44	81.33
C113.3	Student will be able to drawing orthographic projection of solids.	2.56	85.33
C113.4	Student will be able to draw the freehand sketch of simple objects.	2.51	83.67
C113.5	Student will be able to draw the development of solids and section of solids.	2.49	83.00
C113.6	Student will be able to draw the isometric and perspective projections of simple solids.	2.49	83.00

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 118

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
252001	GE3251	3	2	3	2	2	3	20/09/2023	ECE	2
252002	GE3251	2	3	3	3	2	3	20/09/2023	ECE	2
252003	GE3251	2	2	2	3	2	3	20/09/2023	ECE	2
252004	GE3251	3	3	2	2	3	2	20/09/2023	ECE	2
252005	GE3251	3	2	3	3	3	3	20/09/2023	ECE	2
252006	GE3251	2	2	3	2	2	3	20/09/2023	ECE	2
252007	GE3251	2	3	2	3	2	3	20/09/2023	ECE	2
252008	GE3251	3	2	3	2	2	2	20/09/2023	ECE	2
252009	GE3251	3	2	3	3	2	3	20/09/2023	ECE	2
252010	GE3251	3	2	3	3	2	2	20/09/2023	ECE	2
252011	GE3251	2	2	3	3	2	2	20/09/2023	ECE	2
252012	GE3251	2	2	3	2	2	3	20/09/2023	ECE	2
252013	GE3251	3	3	3	2	3	2	20/09/2023	ECE	2
252015	GE3251	3	2	3	3	3	2	20/09/2023	ECE	2
252016	GE3251	2	3	3	2	2	3	20/09/2023	ECE	2
252017	GE3251	3	3	3	2	2	2	20/09/2023	ECE	2
252019	GE3251	2	3	2	3	3	3	20/09/2023	ECE	2
252020	GE3251	3	2	3	3	3	2	20/09/2023	ECE	2
252021	GE3251	2	3	2	2	2	2	20/09/2023	ECE	2
252022	GE3251	2	3	2	2	2	2	20/09/2023	ECE	2
252023	GE3251	2	3	3	3	3	3	20/09/2023	ECE	2
252024	GE3251	3	2	2	2	2	2	20/09/2023	ECE	2
252025	GE3251	2	3	2	3	3	3	20/09/2023	ECE	2

252026	GE3251	2	3	2	3	3	2	20/09/2023	ECE	2
252027	GE3251	3	3	2	3	3	2	20/09/2023	ECE	2
252028	GE3251	2	2	3	2	2	2	20/09/2023	ECE	2
252029	GE3251	2	3	2	2	2	2	20/09/2023	ECE	2
252030	GE3251	3	2	2	3	2	3	20/09/2023	ECE	2
252031	GE3251	3	2	2	3	2	3	20/09/2023	ECE	2
252032	GE3251	2	3	3	2	2	2	20/09/2023	ECE	2
252033	GE3251	3	2	3	2	3	3	20/09/2023	ECE	2
252034	GE3251	3	2	2	3	2	3	20/09/2023	ECE	2
252035	GE3251	3	3	3	3	3	3	20/09/2023	ECE	2
252036	GE3251	2	2	2	2	2	3	20/09/2023	ECE	2
252037	GE3251	2	3	2	2	3	3	20/09/2023	ECE	2
252038	GE3251	2	2	2	3	2	2	20/09/2023	ECE	2
252039	GE3251	3	2	3	3	3	2	20/09/2023	ECE	2
252040	GE3251	3	2	2	3	2	2	20/09/2023	ECE	2
252041	GE3251	3	2	3	3	3	3	20/09/2023	ECE	2
252042	GE3251	2	3	2	3	2	3	20/09/2023	ECE	2
252043	GE3251	3	2	3	3	3	3	20/09/2023	ECE	2
252044	GE3251	2	3	2	3	2	2	20/09/2023	ECE	2
252045	GE3251	2	3	3	2	2	3	20/09/2023	ECE	2
252046	GE3251	2	3	2	2	2	2	20/09/2023	ECE	2
252047	GE3251	3	3	2	2	2	3	20/09/2023	ECE	2
252048	GE3251	3	2	3	2	2	2	20/09/2023	ECE	2
252049	GE3251	3	3	3	2	3	2	20/09/2023	ECE	2
252050	GE3251	3	3	2	2	2	2	20/09/2023	ECE	2
252051	GE3251	2	2	3	3	3	2	20/09/2023	ECE	2
252052	GE3251	2	2	3	3	2	2	20/09/2023	ECE	2
252053	GE3251	2	2	2	3	3	2	20/09/2023	ECE	2
252054	GE3251	3	2	3	3	2	2	20/09/2023	ECE	2
252055	GE3251	2	2	3	2	2	2	20/09/2023	ECE	2
252056	GE3251	3	2	3	3	3	2	20/09/2023	ECE	2
252057	GE3251	2	2	3	3	2	2	20/09/2023	ECE	2
252058	GE3251	2	2	3	2	3	2	20/09/2023	ECE	2
252059	GE3251	3	2	2	3	3	2	20/09/2023	ECE	2
252060	GE3251	2	2	2	3	3	2	20/09/2023	ECE	2
252061	GE3251	3	3	2	3	3	3	20/09/2023	ECE	2
252062	GE3251	2	3	2	3	2	3	20/09/2023	ECE	2
252063	GE3251	3	2	3	2	3	2	20/09/2023	ECE	2
252064	GE3251	2	3	2	2	3	2	20/09/2023	ECE	2
252065	GE3251	3	3	3	3	2	2	20/09/2023	ECE	2
252066	GE3251	3	2	2	2	2	3	20/09/2023	ECE	2

252067	GE3251	3	3	3	3	3	3	20/09/2023	ECE	2
252068	GE3251	2	3	3	2	3	2	20/09/2023	ECE	2
252069	GE3251	2	3	3	3	3	2	20/09/2023	ECE	2
252070	GE3251	2	2	2	3	3	2	20/09/2023	ECE	2
252071	GE3251	3	2	3	2	3	3	20/09/2023	ECE	2
252072	GE3251	2	2	3	2	3	3	20/09/2023	ECE	2
252073	GE3251	2	3	3	3	3	2	20/09/2023	ECE	2
252074	GE3251	2	3	2	2	3	2	20/09/2023	ECE	2
252075	GE3251	3	2	3	2	2	2	20/09/2023	ECE	2
252076	GE3251	2	3	2	3	3	3	20/09/2023	ECE	2
252077	GE3251	3	2	2	2	3	3	20/09/2023	ECE	2
252078	GE3251	3	2	3	2	2	3	20/09/2023	ECE	2
252079	GE3251	3	3	3	2	2	2	20/09/2023	ECE	2
252080	GE3251	2	2	3	2	2	3	20/09/2023	ECE	2
252081	GE3251	2	2	3	2	3	3	20/09/2023	ECE	2
252082	GE3251	3	2	3	3	3	3	20/09/2023	ECE	2
252083	GE3251	2	2	3	3	2	3	20/09/2023	ECE	2
252084	GE3251	3	3	2	2	3	3	20/09/2023	ECE	2
252085	GE3251	2	3	2	2	2	3	20/09/2023	ECE	2
252086	GE3251	3	3	3	3	3	2	20/09/2023	ECE	2
252087	GE3251	3	2	2	3	2	2	20/09/2023	ECE	2
252088	GE3251	3	3	3	2	2	2	20/09/2023	ECE	2
252089	GE3251	3	3	3	3	3	3	20/09/2023	ECE	2
252090	GE3251	3	3	2	2	2	3	20/09/2023	ECE	2
252091	GE3251	3	2	3	2	3	3	20/09/2023	ECE	2
252092	GE3251	3	2	3	3	3	2	20/09/2023	ECE	2
252093	GE3251	3	3	3	3	3	3	20/09/2023	ECE	2
252094	GE3251	2	3	3	2	3	3	20/09/2023	ECE	2
252095	GE3251	3	2	2	3	2	2	20/09/2023	ECE	2
252096	GE3251	3	2	3	2	2	3	20/09/2023	ECE	2
252097	GE3251	3	3	2	2	2	3	20/09/2023	ECE	2
252098	GE3251	3	2	3	2	3	3	20/09/2023	ECE	2
252099	GE3251	3	2	2	3	3	2	20/09/2023	ECE	2
252100	GE3251	3	2	3	2	3	3	20/09/2023	ECE	2
252101	GE3251	3	3	3	2	2	3	20/09/2023	ECE	2
252102	GE3251	3	3	2	3	3	3	20/09/2023	ECE	2
252103	GE3251	3	3	2	2	3	2	20/09/2023	ECE	2
252104	GE3251	3	2	3	3	2	3	20/09/2023	ECE	2
252105	GE3251	2	2	3	2	2	3	20/09/2023	ECE	2
252106	GE3251	3	3	3	3	3	2	20/09/2023	ECE	2
252107	GE3251	3	3	2	3	2	2	20/09/2023	ECE	2

252108	GE3251	2	2	3	2	2	2	20/09/2023	ECE	2
252109	GE3251	3	2	3	2	3	2	20/09/2023	ECE	2
252110	GE3251	3	2	2	2	2	3	20/09/2023	ECE	2
252111	GE3251	2	3	2	3	2	2	20/09/2023	ECE	2
252112	GE3251	2	2	2	2	2	2	20/09/2023	ECE	2
252113	GE3251	3	2	2	3	3	2	20/09/2023	ECE	2
252114	GE3251	2	3	2	3	3	2	20/09/2023	ECE	2
252115	GE3251	3	2	3	2	3	3	20/09/2023	ECE	2
252116	GE3251	2	2	2	3	3	3	20/09/2023	ECE	2
252117	GE3251	3	3	3	2	2	3	20/09/2023	ECE	2
252118	GE3251	2	2	3	3	3	2	20/09/2023	ECE	2
252119	GE3251	3	2	2	2	2	3	20/09/2023	ECE	2
252120	GE3251	3	2	2	3	3	3	20/09/2023	ECE	2
Attained Level		2.57	2.44	2.56	2.51	2.49	2.49			
%		85.67	81.33	85.33	83.67	83.00	83.00			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23EVEN** Semester : **2** Programme: **B.E/B.Tech (ECE)**
Subject Code : **GE3271** NBA Code : **115** Title **ENGINEERING PRACTICES LABORATORY**
Faculty: Dr.G.Mahesh / Dr.M.R.Anantha Padmanaban

Cos	CO Description	Attained Level	%
115.1	Students will be able to distinguish residential house wiring, fluorescent lamp wiring and stair case wiring.	2.49	83.00
115.2	Students will be able to define electrical quantities like voltage, current, energy and resistance and their measurement using CRO.	2.52	84.00
115.3	Students will be able to analyze different logic gates, clock, rectifier and to solder devices and components.	2.48	82.67
115.4	Students will able to understand the pipe connections for the home application and industrial constructions	2.53	84.33
115.5	Students will be able to do plan the real geometry of the shapes for industrial applications.	2.62	87.33
115.6	Students will be able to understand the concept of joining the metal by welding.	2.49	83.00

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 118

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
252001	GE3271	2	2	2	2	3	3	20/09/2023	ECE	2
252002	GE3271	2	2	3	3	3	3	20/09/2023	ECE	2
252003	GE3271	2	3	2	2	3	3	20/09/2023	ECE	2
252004	GE3271	3	2	3	2	3	2	20/09/2023	ECE	2
252005	GE3271	2	3	3	2	3	2	20/09/2023	ECE	2
252006	GE3271	3	3	3	2	2	3	20/09/2023	ECE	2
252007	GE3271	3	3	2	3	3	2	20/09/2023	ECE	2
252008	GE3271	3	3	2	3	3	2	20/09/2023	ECE	2
252009	GE3271	2	3	3	2	2	2	20/09/2023	ECE	2
252010	GE3271	3	3	3	3	2	2	20/09/2023	ECE	2
252011	GE3271	3	3	2	3	3	2	20/09/2023	ECE	2
252012	GE3271	2	2	3	2	2	3	20/09/2023	ECE	2
252013	GE3271	2	3	3	3	3	2	20/09/2023	ECE	2
252015	GE3271	3	3	2	3	3	3	20/09/2023	ECE	2
252016	GE3271	2	3	3	2	3	2	20/09/2023	ECE	2
252017	GE3271	3	3	2	3	3	3	20/09/2023	ECE	2
252019	GE3271	2	3	2	2	3	3	20/09/2023	ECE	2
252020	GE3271	2	3	2	3	2	3	20/09/2023	ECE	2
252021	GE3271	3	2	3	2	3	3	20/09/2023	ECE	2
252022	GE3271	3	3	2	3	2	3	20/09/2023	ECE	2
252023	GE3271	2	2	2	2	2	2	20/09/2023	ECE	2

252024	GE3271	2	3	2	2	3	3	20/09/2023	ECE	2
252025	GE3271	2	2	3	2	3	3	20/09/2023	ECE	2
252026	GE3271	3	2	2	2	3	3	20/09/2023	ECE	2
252027	GE3271	3	3	3	3	2	3	20/09/2023	ECE	2
252028	GE3271	3	3	2	3	3	2	20/09/2023	ECE	2
252029	GE3271	2	2	2	3	3	2	20/09/2023	ECE	2
252030	GE3271	2	3	3	2	2	2	20/09/2023	ECE	2
252031	GE3271	3	2	3	2	3	2	20/09/2023	ECE	2
252032	GE3271	3	3	2	2	2	3	20/09/2023	ECE	2
252033	GE3271	3	2	3	2	3	2	20/09/2023	ECE	2
252034	GE3271	3	3	2	2	3	2	20/09/2023	ECE	2
252035	GE3271	2	2	3	3	2	3	20/09/2023	ECE	2
252036	GE3271	2	2	2	2	3	3	20/09/2023	ECE	2
252037	GE3271	2	3	2	2	3	3	20/09/2023	ECE	2
252038	GE3271	3	2	2	3	2	2	20/09/2023	ECE	2
252039	GE3271	3	3	2	3	3	2	20/09/2023	ECE	2
252040	GE3271	2	2	2	3	2	3	20/09/2023	ECE	2
252041	GE3271	3	2	2	2	2	2	20/09/2023	ECE	2
252042	GE3271	2	3	2	2	3	2	20/09/2023	ECE	2
252043	GE3271	2	2	2	3	2	3	20/09/2023	ECE	2
252044	GE3271	3	2	3	2	3	3	20/09/2023	ECE	2
252045	GE3271	3	3	3	2	2	3	20/09/2023	ECE	2
252046	GE3271	3	2	3	3	2	2	20/09/2023	ECE	2
252047	GE3271	3	2	3	3	3	2	20/09/2023	ECE	2
252048	GE3271	3	3	3	2	3	3	20/09/2023	ECE	2
252049	GE3271	2	2	3	3	3	3	20/09/2023	ECE	2
252050	GE3271	3	2	2	3	2	2	20/09/2023	ECE	2
252051	GE3271	3	2	2	3	2	2	20/09/2023	ECE	2
252052	GE3271	3	3	2	3	3	3	20/09/2023	ECE	2
252053	GE3271	3	3	3	3	3	2	20/09/2023	ECE	2
252054	GE3271	2	2	3	2	3	2	20/09/2023	ECE	2
252055	GE3271	2	2	2	2	3	3	20/09/2023	ECE	2
252056	GE3271	3	2	3	3	3	3	20/09/2023	ECE	2
252057	GE3271	2	2	2	2	3	2	20/09/2023	ECE	2
252058	GE3271	2	3	3	3	3	3	20/09/2023	ECE	2
252059	GE3271	2	2	2	2	2	2	20/09/2023	ECE	2
252060	GE3271	3	2	2	2	2	2	20/09/2023	ECE	2
252061	GE3271	2	2	3	2	2	2	20/09/2023	ECE	2
252062	GE3271	3	3	2	3	3	2	20/09/2023	ECE	2
252063	GE3271	3	3	2	3	3	3	20/09/2023	ECE	2
252064	GE3271	2	2	3	3	3	2	20/09/2023	ECE	2

252065	GE3271	3	3	3	2	3	3	20/09/2023	ECE	2
252066	GE3271	3	2	2	3	3	3	20/09/2023	ECE	2
252067	GE3271	2	3	2	3	2	2	20/09/2023	ECE	2
252068	GE3271	3	3	3	3	2	3	20/09/2023	ECE	2
252069	GE3271	3	2	3	2	3	2	20/09/2023	ECE	2
252070	GE3271	3	2	3	3	2	2	20/09/2023	ECE	2
252071	GE3271	3	3	2	3	3	2	20/09/2023	ECE	2
252072	GE3271	2	2	3	3	2	2	20/09/2023	ECE	2
252073	GE3271	2	2	3	2	2	3	20/09/2023	ECE	2
252074	GE3271	3	2	2	3	3	2	20/09/2023	ECE	2
252075	GE3271	3	2	2	3	2	3	20/09/2023	ECE	2
252076	GE3271	2	3	3	2	2	2	20/09/2023	ECE	2
252077	GE3271	2	3	2	2	3	3	20/09/2023	ECE	2
252078	GE3271	2	3	2	3	2	3	20/09/2023	ECE	2
252079	GE3271	3	3	2	2	2	2	20/09/2023	ECE	2
252080	GE3271	3	2	2	3	3	2	20/09/2023	ECE	2
252081	GE3271	2	3	3	3	3	3	20/09/2023	ECE	2
252082	GE3271	2	2	3	2	3	3	20/09/2023	ECE	2
252083	GE3271	3	3	2	3	3	3	20/09/2023	ECE	2
252084	GE3271	2	2	3	2	3	2	20/09/2023	ECE	2
252085	GE3271	2	3	3	3	3	2	20/09/2023	ECE	2
252086	GE3271	3	2	2	3	3	2	20/09/2023	ECE	2
252087	GE3271	2	3	3	2	3	2	20/09/2023	ECE	2
252088	GE3271	3	3	3	2	2	2	20/09/2023	ECE	2
252089	GE3271	2	3	3	3	3	2	20/09/2023	ECE	2
252090	GE3271	2	3	3	3	2	2	20/09/2023	ECE	2
252091	GE3271	2	2	3	2	3	2	20/09/2023	ECE	2
252092	GE3271	3	2	2	3	2	3	20/09/2023	ECE	2
252093	GE3271	2	2	2	2	3	2	20/09/2023	ECE	2
252094	GE3271	3	3	2	3	3	3	20/09/2023	ECE	2
252095	GE3271	3	2	2	3	2	3	20/09/2023	ECE	2
252096	GE3271	3	3	2	3	2	3	20/09/2023	ECE	2
252097	GE3271	2	3	2	3	2	3	20/09/2023	ECE	2
252098	GE3271	2	3	3	3	3	3	20/09/2023	ECE	2
252099	GE3271	2	2	3	2	2	3	20/09/2023	ECE	2
252100	GE3271	2	3	2	2	2	2	20/09/2023	ECE	2
252101	GE3271	2	2	3	2	3	2	20/09/2023	ECE	2
252102	GE3271	2	3	3	2	2	3	20/09/2023	ECE	2
252103	GE3271	3	3	3	2	3	3	20/09/2023	ECE	2
252104	GE3271	2	3	2	2	2	3	20/09/2023	ECE	2
252105	GE3271	2	2	2	3	3	3	20/09/2023	ECE	2

252106	GE3271	2	3	2	3	2	3	20/09/2023	ECE	2
252107	GE3271	3	2	3	3	3	2	20/09/2023	ECE	2
252108	GE3271	3	3	2	2	3	3	20/09/2023	ECE	2
252109	GE3271	3	2	2	2	2	2	20/09/2023	ECE	2
252110	GE3271	2	2	3	3	3	2	20/09/2023	ECE	2
252111	GE3271	2	2	3	3	3	2	20/09/2023	ECE	2
252112	GE3271	2	3	2	3	3	3	20/09/2023	ECE	2
252113	GE3271	3	3	2	3	3	3	20/09/2023	ECE	2
252114	GE3271	2	2	2	3	3	3	20/09/2023	ECE	2
252115	GE3271	3	2	3	2	3	2	20/09/2023	ECE	2
252116	GE3271	3	3	3	3	3	2	20/09/2023	ECE	2
252117	GE3271	2	2	3	2	3	3	20/09/2023	ECE	2
252118	GE3271	2	3	2	2	2	2	20/09/2023	ECE	2
252119	GE3271	2	3	3	2	2	3	20/09/2023	ECE	2
252120	GE3271	3	2	3	3	3	2	20/09/2023	ECE	2
Attained Level		2.49	2.52	2.48	2.53	2.62	2.49			
%		83.00	84.00	82.67	84.33	87.33	83.00			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23EVEN** Semester : **2** Programme: **B.E/B.Tech (ECE)**
Subject Code : **HS3252** NBA Code : **C108** Title **PROFESSIONAL ENGLISH-II**
Faculty: Dr.D.Ans Angel / Ms.S.Sandra

Cos	CO Description	Attained Level	%
C108.1	To compare and contrast products and ideas through technical texts in essays with appropriate grammatical usage and contextual meanings.	2.52	84.00
C108.2	emails and responses to complaints. To enhance learners¿ awareness of general rules of writing for specific audiences through professional	2.43	81.00
C108.3	To help learners understand the purpose, audience, contexts of different types of letters/essays/checklists	2.41	80.33
C108.4	To analyze problems in order to arrive at feasible solutions and communicate them orally and in the written format. To report events and the processes of technical and industrial nature	2.5	83.33
C108.5	To make use of grammatical items effectively in writing recommendations and in transcoding the graphs	2.48	82.67
C108.6	To write a winning job/internship application-cover letter and resume /SoP-Statement of purpose	2.5	83.33

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 118

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
252001	HS3252	3	3	2	3	3	2	20/09/2023	ECE	2
252002	HS3252	2	2	2	3	3	3	20/09/2023	ECE	2
252003	HS3252	3	2	2	3	2	2	20/09/2023	ECE	2
252004	HS3252	2	3	3	3	2	2	20/09/2023	ECE	2
252005	HS3252	2	2	2	3	3	2	20/09/2023	ECE	2
252006	HS3252	3	3	2	2	2	3	20/09/2023	ECE	2
252007	HS3252	3	3	3	3	2	2	20/09/2023	ECE	2
252008	HS3252	3	3	3	2	2	3	20/09/2023	ECE	2
252009	HS3252	2	3	2	2	2	2	20/09/2023	ECE	2
252010	HS3252	3	3	2	3	3	2	20/09/2023	ECE	2
252011	HS3252	2	3	2	2	2	2	20/09/2023	ECE	2
252012	HS3252	2	2	2	3	3	2	20/09/2023	ECE	2
252013	HS3252	2	2	3	3	3	3	20/09/2023	ECE	2
252015	HS3252	3	2	3	2	2	3	20/09/2023	ECE	2
252016	HS3252	2	2	3	2	2	2	20/09/2023	ECE	2
252017	HS3252	3	2	3	3	2	3	20/09/2023	ECE	2
252019	HS3252	3	3	2	3	2	3	20/09/2023	ECE	2
252020	HS3252	2	2	3	3	3	2	20/09/2023	ECE	2
252021	HS3252	3	2	3	2	2	3	20/09/2023	ECE	2

252022	HS3252	2	3	2	3	3	2	20/09/2023	ECE	2
252023	HS3252	2	2	2	3	3	3	20/09/2023	ECE	2
252024	HS3252	2	3	3	3	3	3	20/09/2023	ECE	2
252025	HS3252	3	2	3	3	2	3	20/09/2023	ECE	2
252026	HS3252	2	2	3	3	3	2	20/09/2023	ECE	2
252027	HS3252	3	2	3	3	2	3	20/09/2023	ECE	2
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252030	HS3252	2	3	2	3	3	3	20/09/2023	ECE	2
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252033	HS3252	3	2	2	2	2	2	20/09/2023	ECE	2
252034	HS3252	3	2	2	2	2	2	20/09/2023	ECE	2
252035	HS3252	2	2	3	2	2	2	20/09/2023	ECE	2
252036	HS3252	3	2	2	2	2	3	20/09/2023	ECE	2
252037	HS3252	2	3	2	3	2	2	20/09/2023	ECE	2
252038	HS3252	3	2	2	3	3	2	20/09/2023	ECE	2
252039	HS3252	3	3	3	3	3	3	20/09/2023	ECE	2
252040	HS3252	3	2	2	2	3	3	20/09/2023	ECE	2
252041	HS3252	3	3	3	3	2	3	20/09/2023	ECE	2
252042	HS3252	2	3	2	2	3	3	20/09/2023	ECE	2
252043	HS3252	2	2	3	2	3	3	20/09/2023	ECE	2
252044	HS3252	2	2	3	3	3	2	20/09/2023	ECE	2
252045	HS3252	2	2	2	3	3	2	20/09/2023	ECE	2
252046	HS3252	2	2	2	3	2	2	20/09/2023	ECE	2
252047	HS3252	3	3	2	2	3	3	20/09/2023	ECE	2
252048	HS3252	3	2	3	3	2	3	20/09/2023	ECE	2
252049	HS3252	3	3	2	2	2	3	20/09/2023	ECE	2
252050	HS3252	3	3	3	2	2	3	20/09/2023	ECE	2
252051	HS3252	3	2	2	2	2	2	20/09/2023	ECE	2
252052	HS3252	3	2	2	3	3	3	20/09/2023	ECE	2
252053	HS3252	3	3	2	3	2	3	20/09/2023	ECE	2
252054	HS3252	3	3	2	3	3	3	20/09/2023	ECE	2
252055	HS3252	3	3	2	2	2	2	20/09/2023	ECE	2
252056	HS3252	3	2	2	2	3	2	20/09/2023	ECE	2
252057	HS3252	3	3	2	3	2	3	20/09/2023	ECE	2
252058	HS3252	2	2	3	2	3	2	20/09/2023	ECE	2
252059	HS3252	2	3	3	2	3	3	20/09/2023	ECE	2
252060	HS3252	2	2	2	2	3	3	20/09/2023	ECE	2
252061	HS3252	3	3	2	3	2	3	20/09/2023	ECE	2
252062	HS3252	3	2	2	2	3	3	20/09/2023	ECE	2

252063	HS3252	2	3	3	2	2	2	20/09/2023	ECE	2
252064	HS3252	3	3	2	2	2	3	20/09/2023	ECE	2
252065	HS3252	2	3	3	3	2	3	20/09/2023	ECE	2
252066	HS3252	3	3	3	3	3	2	20/09/2023	ECE	2
252067	HS3252	2	3	2	2	3	2	20/09/2023	ECE	2
252068	HS3252	2	3	3	2	2	3	20/09/2023	ECE	2
252069	HS3252	2	2	2	3	2	2	20/09/2023	ECE	2
252070	HS3252	2	2	2	2	2	3	20/09/2023	ECE	2
252071	HS3252	2	3	3	3	3	3	20/09/2023	ECE	2
252072	HS3252	3	2	3	2	3	2	20/09/2023	ECE	2
252073	HS3252	3	2	2	3	2	2	20/09/2023	ECE	2
252074	HS3252	3	3	3	2	2	3	20/09/2023	ECE	2
252075	HS3252	3	2	3	2	2	3	20/09/2023	ECE	2
252076	HS3252	2	3	2	3	3	2	20/09/2023	ECE	2
252077	HS3252	3	3	2	2	2	3	20/09/2023	ECE	2
252078	HS3252	2	3	3	2	2	2	20/09/2023	ECE	2
252079	HS3252	2	2	2	2	3	3	20/09/2023	ECE	2
252080	HS3252	2	2	3	3	3	3	20/09/2023	ECE	2
252081	HS3252	3	3	2	2	2	3	20/09/2023	ECE	2
252082	HS3252	2	2	2	2	3	3	20/09/2023	ECE	2
252083	HS3252	2	3	3	2	3	3	20/09/2023	ECE	2
252084	HS3252	2	2	2	3	2	3	20/09/2023	ECE	2
252085	HS3252	3	3	3	2	3	3	20/09/2023	ECE	2
252086	HS3252	3	2	2	2	3	3	20/09/2023	ECE	2
252087	HS3252	3	2	3	3	3	2	20/09/2023	ECE	2
252088	HS3252	2	2	2	3	3	2	20/09/2023	ECE	2
252089	HS3252	2	3	2	2	2	2	20/09/2023	ECE	2
252090	HS3252	3	2	2	2	2	3	20/09/2023	ECE	2
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252092	HS3252	2	3	2	3	2	2	20/09/2023	ECE	2
252093	HS3252	3	2	2	3	3	3	20/09/2023	ECE	2
252094	HS3252	2	3	2	2	2	3	20/09/2023	ECE	2
252095	HS3252	3	2	2	3	3	2	20/09/2023	ECE	2
252096	HS3252	2	2	2	2	2	2	20/09/2023	ECE	2
252097	HS3252	3	2	3	2	3	3	20/09/2023	ECE	2
252098	HS3252	3	2	3	2	3	3	20/09/2023	ECE	2
252099	HS3252	3	3	3	2	2	3	20/09/2023	ECE	2
252100	HS3252	3	2	3	3	2	2	20/09/2023	ECE	2
252101	HS3252	3	2	3	2	2	2	20/09/2023	ECE	2
252102	HS3252	3	3	2	2	3	2	20/09/2023	ECE	2
252103	HS3252	3	2	2	3	3	2	20/09/2023	ECE	2

252104	HS3252	3	2	2	2	3	2	20/09/2023	ECE	2
252105	HS3252	3	3	2	3	2	2	20/09/2023	ECE	2
252106	HS3252	2	3	3	3	3	3	20/09/2023	ECE	2
252107	HS3252	2	2	2	2	2	3	20/09/2023	ECE	2
252108	HS3252	2	2	2	2	2	2	20/09/2023	ECE	2
252109	HS3252	2	2	3	3	3	2	20/09/2023	ECE	2
252110	HS3252	2	3	2	3	2	2	20/09/2023	ECE	2
252111	HS3252	3	3	2	2	3	3	20/09/2023	ECE	2
252112	HS3252	3	3	3	2	2	2	20/09/2023	ECE	2
252113	HS3252	2	2	3	2	2	2	20/09/2023	ECE	2
252114	HS3252	2	2	2	3	3	2	20/09/2023	ECE	2
252115	HS3252	3	3	2	3	3	2	20/09/2023	ECE	2
252116	HS3252	2	3	2	2	2	2	20/09/2023	ECE	2
252117	HS3252	2	2	3	3	2	2	20/09/2023	ECE	2
252118	HS3252	2	2	3	2	2	2	20/09/2023	ECE	2
252119	HS3252	2	2	3	3	3	2	20/09/2023	ECE	2
252120	HS3252	2	2	2	2	3	2	20/09/2023	ECE	2
Attained Level		2.52	2.43	2.41	2.5	2.48	2.5			
%		84.00	81.00	80.33	83.33	82.67	83.33			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23EVEN** Semester : **2** Programme: **B.E/B.Tech (ECE)**
Subject Code : **MA3251** NBA Code : **C109** Title **STATISTICS AND NUMERICAL METHODS**
Faculty: Dr.P.K.Lakshmi Devi / Dr.S.Dinesh

Cos	CO Description	Attained Level	%
C109.1	Apply the concept of testing of hypothesis for small and large samples in real life problems.	2.4	80.00
C109.2	Apply the basic concepts of classifications of design of experiments in the field of agriculture.	2.55	85.00
C109.3	Solve algebraic, transcendental equations and simultaneous equations by direct method.	2.5	83.33
C109.4	Solve simultaneous equations by iterative method and Eigen value problems.	2.47	82.33
C109.5	Appreciate the numerical techniques of interpolation in various intervals and apply the numerical techniques of differentiation and integration for engineering problems.	2.48	82.67
C109.6	Gain the knowledge of various techniques and methods to solve first order ordinary differential equations with initial conditions in engineering applications.	2.48	82.67

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 118

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
252001	MA3251	2	3	3	2	2	2	20/09/2023	ECE	2
252002	MA3251	2	2	2	3	3	3	20/09/2023	ECE	2
252003	MA3251	3	2	2	2	3	3	20/09/2023	ECE	2
252004	MA3251	3	2	3	2	2	2	20/09/2023	ECE	2
252005	MA3251	2	2	3	3	2	3	20/09/2023	ECE	2
252006	MA3251	3	2	2	2	2	2	20/09/2023	ECE	2
252007	MA3251	2	2	2	3	2	3	20/09/2023	ECE	2
252008	MA3251	3	2	2	2	3	2	20/09/2023	ECE	2
252009	MA3251	3	2	2	3	3	2	20/09/2023	ECE	2
252010	MA3251	2	2	2	3	3	2	20/09/2023	ECE	2
252011	MA3251	3	3	2	3	2	2	20/09/2023	ECE	2
252012	MA3251	2	2	2	2	3	2	20/09/2023	ECE	2
252013	MA3251	3	2	2	2	2	3	20/09/2023	ECE	2
252015	MA3251	3	2	3	3	3	3	20/09/2023	ECE	2
252016	MA3251	2	3	3	3	2	2	20/09/2023	ECE	2
252017	MA3251	3	2	3	3	2	3	20/09/2023	ECE	2
252019	MA3251	2	3	2	3	2	3	20/09/2023	ECE	2
252020	MA3251	3	3	3	3	3	3	20/09/2023	ECE	2
252021	MA3251	2	3	2	2	3	3	20/09/2023	ECE	2
252022	MA3251	2	2	3	2	2	2	20/09/2023	ECE	2
252023	MA3251	3	3	2	2	3	2	20/09/2023	ECE	2

252024	MA3251	2	3	3	3	3	3	20/09/2023	ECE	2
252025	MA3251	3	2	3	2	2	3	20/09/2023	ECE	2
252026	MA3251	3	2	3	2	3	3	20/09/2023	ECE	2
252027	MA3251	2	3	2	3	3	3	20/09/2023	ECE	2
252028	MA3251	2	3	2	2	2	2	20/09/2023	ECE	2
252029	MA3251	3	3	3	2	2	3	20/09/2023	ECE	2
252030	MA3251	2	3	2	2	2	2	20/09/2023	ECE	2
252031	MA3251	2	3	2	2	2	2	20/09/2023	ECE	2
252032	MA3251	2	3	3	2	2	3	20/09/2023	ECE	2
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252035	MA3251	3	3	2	3	2	2	20/09/2023	ECE	2
252036	MA3251	3	2	3	3	2	2	20/09/2023	ECE	2
252037	MA3251	3	2	2	3	3	2	20/09/2023	ECE	2
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252040	MA3251	3	2	3	3	2	2	20/09/2023	ECE	2
252041	MA3251	2	3	2	2	3	2	20/09/2023	ECE	2
252042	MA3251	3	3	3	3	3	3	20/09/2023	ECE	2
252043	MA3251	2	2	2	2	3	2	20/09/2023	ECE	2
252044	MA3251	2	3	2	3	3	3	20/09/2023	ECE	2
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252046	MA3251	3	2	2	2	3	2	20/09/2023	ECE	2
252047	MA3251	2	3	3	2	2	2	20/09/2023	ECE	2
252048	MA3251	2	2	2	2	2	2	20/09/2023	ECE	2
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252051	MA3251	3	2	3	2	2	3	20/09/2023	ECE	2
252052	MA3251	2	3	3	3	2	2	20/09/2023	ECE	2
252053	MA3251	2	3	3	2	3	2	20/09/2023	ECE	2
252054	MA3251	2	2	3	2	2	3	20/09/2023	ECE	2
252055	MA3251	2	3	3	2	2	2	20/09/2023	ECE	2
252056	MA3251	2	2	2	2	3	3	20/09/2023	ECE	2
252057	MA3251	2	3	3	2	3	3	20/09/2023	ECE	2
252058	MA3251	2	3	2	3	2	2	20/09/2023	ECE	2
252059	MA3251	2	2	3	3	3	2	20/09/2023	ECE	2
252060	MA3251	2	2	2	3	2	3	20/09/2023	ECE	2
252061	MA3251	3	3	3	2	2	3	20/09/2023	ECE	2
252062	MA3251	3	3	2	3	3	3	20/09/2023	ECE	2
252063	MA3251	3	3	3	3	3	3	20/09/2023	ECE	2
252064	MA3251	2	3	2	3	2	2	20/09/2023	ECE	2

252065	MA3251	2	2	3	2	3	2	20/09/2023	ECE	2
252066	MA3251	2	2	3	2	3	3	20/09/2023	ECE	2
252067	MA3251	2	3	3	2	3	3	20/09/2023	ECE	2
252068	MA3251	3	2	2	2	3	2	20/09/2023	ECE	2
252069	MA3251	3	3	3	2	3	2	20/09/2023	ECE	2
252070	MA3251	2	2	3	2	3	2	20/09/2023	ECE	2
252071	MA3251	3	2	2	2	3	3	20/09/2023	ECE	2
252072	MA3251	3	3	3	2	2	3	20/09/2023	ECE	2
252073	MA3251	2	2	3	3	2	2	20/09/2023	ECE	2
252074	MA3251	3	3	3	2	3	3	20/09/2023	ECE	2
252075	MA3251	2	2	3	3	2	3	20/09/2023	ECE	2
252076	MA3251	2	3	2	3	3	3	20/09/2023	ECE	2
252077	MA3251	2	3	3	2	2	2	20/09/2023	ECE	2
252078	MA3251	3	2	3	3	3	2	20/09/2023	ECE	2
252079	MA3251	3	3	3	3	2	3	20/09/2023	ECE	2
252080	MA3251	2	3	3	3	3	2	20/09/2023	ECE	2
252081	MA3251	2	2	2	3	2	3	20/09/2023	ECE	2
252082	MA3251	3	3	3	3	3	3	20/09/2023	ECE	2
252083	MA3251	2	2	3	3	3	3	20/09/2023	ECE	2
252084	MA3251	3	2	2	2	2	3	20/09/2023	ECE	2
252085	MA3251	2	3	3	3	3	3	20/09/2023	ECE	2
252086	MA3251	2	3	3	2	2	3	20/09/2023	ECE	2
252087	MA3251	2	2	3	3	3	3	20/09/2023	ECE	2
252088	MA3251	3	2	2	3	2	2	20/09/2023	ECE	2
252089	MA3251	2	3	2	3	2	2	20/09/2023	ECE	2
252090	MA3251	3	3	3	3	3	3	20/09/2023	ECE	2
252091	MA3251	3	3	3	3	3	3	20/09/2023	ECE	2
252092	MA3251	2	2	3	3	3	3	20/09/2023	ECE	2
252093	MA3251	2	2	2	3	2	3	20/09/2023	ECE	2
252094	MA3251	3	3	2	3	3	3	20/09/2023	ECE	2
252095	MA3251	2	3	3	2	3	3	20/09/2023	ECE	2
252096	MA3251	2	3	2	2	2	3	20/09/2023	ECE	2
252097	MA3251	2	3	3	2	3	2	20/09/2023	ECE	2
252098	MA3251	3	3	2	2	2	2	20/09/2023	ECE	2
252099	MA3251	2	3	2	2	2	2	20/09/2023	ECE	2
252100	MA3251	2	3	2	2	3	3	20/09/2023	ECE	2
252101	MA3251	3	2	2	3	2	3	20/09/2023	ECE	2
252102	MA3251	2	3	2	3	3	3	20/09/2023	ECE	2
252103	MA3251	3	3	2	3	3	2	20/09/2023	ECE	2
252104	MA3251	2	2	2	3	2	2	20/09/2023	ECE	2
252105	MA3251	2	3	2	2	3	2	20/09/2023	ECE	2

252106	MA3251	2	3	2	3	2	2	20/09/2023	ECE	2
252107	MA3251	2	3	2	2	2	2	20/09/2023	ECE	2
252108	MA3251	2	2	2	2	3	2	20/09/2023	ECE	2
252109	MA3251	3	2	2	3	2	2	20/09/2023	ECE	2
252110	MA3251	2	3	3	2	2	2	20/09/2023	ECE	2
252111	MA3251	2	3	3	2	2	3	20/09/2023	ECE	2
252112	MA3251	3	3	2	3	2	2	20/09/2023	ECE	2
252113	MA3251	2	3	3	2	2	3	20/09/2023	ECE	2
252114	MA3251	3	3	3	2	3	2	20/09/2023	ECE	2
252115	MA3251	2	3	3	2	2	2	20/09/2023	ECE	2
252116	MA3251	2	3	2	3	3	3	20/09/2023	ECE	2
252117	MA3251	2	3	2	3	3	2	20/09/2023	ECE	2
252118	MA3251	3	3	2	2	2	2	20/09/2023	ECE	2
252119	MA3251	2	2	3	2	2	2	20/09/2023	ECE	2
252120	MA3251	3	2	2	3	2	3	20/09/2023	ECE	2
Attained Level		2.4	2.55	2.5	2.47	2.48	2.48			
%		80.00	85.00	83.33	82.33	82.67	82.67			

Saranathan College of Engineering
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Course End Survey - Consolidated Report

Academic Year : **2022-23EVEN** Semester : **2** Programme: **B.E/B.Tech (ECE)**
Subject Code : **PH3254** NBA Code : **C111** Title **PHYSICS FOR ELECTRONICS ENGINEERING**
Faculty: Mr.G.Anantha Krishnan / Dr.M.Murali

Cos	CO Description	Attained Level	%
C111.1	Gives knowledge about structure of various materials and its properties	2.48	82.67
C111.2	Gives understanding about the electrical properties of materials, applications of quantum mechanics	2.51	83.67
C111.3	Gain knowledge on magnetic properties of materials and their applications	2.53	84.33
C111.4	Gives understanding of semiconductor physics from basics to applications of devices	2.43	81.00
C111.5	Gain knowledge about the optical properties of materials, optical displays and its applications	2.37	79.00
C111.6	Gives information about nanostructures, quantum confinement and nano device applications	2.47	82.33

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 118

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
252001	PH3254	2	3	3	2	2	3	20/09/2023	ECE	2
252002	PH3254	3	3	2	3	3	2	20/09/2023	ECE	2
252003	PH3254	2	3	3	2	3	3	20/09/2023	ECE	2
252004	PH3254	3	3	2	3	3	2	20/09/2023	ECE	2
252005	PH3254	2	3	2	3	3	2	20/09/2023	ECE	2
252006	PH3254	3	3	3	3	3	3	20/09/2023	ECE	2
252007	PH3254	2	3	3	3	3	3	20/09/2023	ECE	2
252008	PH3254	3	3	3	3	2	3	20/09/2023	ECE	2
252009	PH3254	3	3	3	2	2	3	20/09/2023	ECE	2
252010	PH3254	3	3	3	3	2	3	20/09/2023	ECE	2
252011	PH3254	3	3	3	3	2	2	20/09/2023	ECE	2
252012	PH3254	3	3	3	3	2	2	20/09/2023	ECE	2
252013	PH3254	3	2	3	3	2	2	20/09/2023	ECE	2
252015	PH3254	2	2	3	2	2	2	20/09/2023	ECE	2
252016	PH3254	3	2	3	2	2	2	20/09/2023	ECE	2
252017	PH3254	2	2	2	2	3	2	20/09/2023	ECE	2
252019	PH3254	2	3	2	2	2	2	20/09/2023	ECE	2
252020	PH3254	2	2	2	3	2	3	20/09/2023	ECE	2
252021	PH3254	3	3	2	2	3	3	20/09/2023	ECE	2
252022	PH3254	3	3	3	2	2	3	20/09/2023	ECE	2
252023	PH3254	3	2	3	3	2	3	20/09/2023	ECE	2
252024	PH3254	3	2	2	2	2	2	20/09/2023	ECE	2
252025	PH3254	3	2	2	3	3	2	20/09/2023	ECE	2

252026	PH3254	3	3	2	3	3	2	20/09/2023	ECE	2
252027	PH3254	3	2	3	2	3	2	20/09/2023	ECE	2
252028	PH3254	3	2	3	2	2	2	20/09/2023	ECE	2
252029	PH3254	2	3	2	2	3	2	20/09/2023	ECE	2
252030	PH3254	2	3	2	2	2	3	20/09/2023	ECE	2
252031	PH3254	3	3	2	2	2	2	20/09/2023	ECE	2
252032	PH3254	3	2	3	2	2	2	20/09/2023	ECE	2
252033	PH3254	2	2	2	3	2	2	20/09/2023	ECE	2
252034	PH3254	3	2	2	3	2	3	20/09/2023	ECE	2
252035	PH3254	3	2	2	2	2	2	20/09/2023	ECE	2
252036	PH3254	2	3	2	3	2	2	20/09/2023	ECE	2
252037	PH3254	2	3	2	2	2	2	20/09/2023	ECE	2
252038	PH3254	2	2	2	3	2	2	20/09/2023	ECE	2
252039	PH3254	2	3	3	2	3	2	20/09/2023	ECE	2
252040	PH3254	2	2	2	3	3	2	20/09/2023	ECE	2
252041	PH3254	2	3	3	3	2	2	20/09/2023	ECE	2
252042	PH3254	2	2	2	3	2	3	20/09/2023	ECE	2
252043	PH3254	2	3	2	2	2	2	20/09/2023	ECE	2
252044	PH3254	3	3	2	2	3	2	20/09/2023	ECE	2
252045	PH3254	3	2	3	2	2	2	20/09/2023	ECE	2
252046	PH3254	3	3	3	2	2	3	20/09/2023	ECE	2
252047	PH3254	2	3	3	2	2	2	20/09/2023	ECE	2
252048	PH3254	3	3	3	2	2	2	20/09/2023	ECE	2
252049	PH3254	3	3	2	2	3	2	20/09/2023	ECE	2
252050	PH3254	3	2	2	3	2	3	20/09/2023	ECE	2
252051	PH3254	2	2	2	3	3	2	20/09/2023	ECE	2
252052	PH3254	2	3	2	2	2	2	20/09/2023	ECE	2
252053	PH3254	3	2	3	3	2	2	20/09/2023	ECE	2
252054	PH3254	2	3	2	2	3	2	20/09/2023	ECE	2
252055	PH3254	2	2	2	3	2	2	20/09/2023	ECE	2
252056	PH3254	2	3	3	2	3	2	20/09/2023	ECE	2
252057	PH3254	3	2	2	2	2	3	20/09/2023	ECE	2
252058	PH3254	2	3	2	3	2	2	20/09/2023	ECE	2
252059	PH3254	2	2	3	2	3	3	20/09/2023	ECE	2
252060	PH3254	3	3	3	2	3	2	20/09/2023	ECE	2
252061	PH3254	3	3	3	2	2	2	20/09/2023	ECE	2
252062	PH3254	2	2	3	3	2	3	20/09/2023	ECE	2
252063	PH3254	3	3	2	2	3	2	20/09/2023	ECE	2
252064	PH3254	2	3	2	3	2	2	20/09/2023	ECE	2
252065	PH3254	3	3	3	2	2	3	20/09/2023	ECE	2
252066	PH3254	2	3	3	2	2	3	20/09/2023	ECE	2

252067	PH3254	2	2	3	2	2	2	20/09/2023	ECE	2
252068	PH3254	2	2	2	2	2	3	20/09/2023	ECE	2
252069	PH3254	3	3	2	3	2	2	20/09/2023	ECE	2
252070	PH3254	2	2	3	2	2	2	20/09/2023	ECE	2
252071	PH3254	3	2	2	3	2	3	20/09/2023	ECE	2
252072	PH3254	3	3	2	2	2	3	20/09/2023	ECE	2
252073	PH3254	2	3	2	3	2	2	20/09/2023	ECE	2
252074	PH3254	3	2	3	2	3	3	20/09/2023	ECE	2
252075	PH3254	2	2	2	2	3	3	20/09/2023	ECE	2
252076	PH3254	2	3	2	2	2	3	20/09/2023	ECE	2
252077	PH3254	3	2	3	2	2	3	20/09/2023	ECE	2
252078	PH3254	2	3	3	2	2	3	20/09/2023	ECE	2
252079	PH3254	3	3	3	3	3	2	20/09/2023	ECE	2
252080	PH3254	2	2	2	3	2	3	20/09/2023	ECE	2
252081	PH3254	2	2	3	3	3	3	20/09/2023	ECE	2
252082	PH3254	3	2	2	2	2	2	20/09/2023	ECE	2
252083	PH3254	3	3	2	2	2	3	20/09/2023	ECE	2
252084	PH3254	2	2	3	2	3	2	20/09/2023	ECE	2
252085	PH3254	2	3	3	3	2	3	20/09/2023	ECE	2
252086	PH3254	3	2	2	3	3	2	20/09/2023	ECE	2
252087	PH3254	2	2	2	2	3	2	20/09/2023	ECE	2
252088	PH3254	2	3	3	3	2	3	20/09/2023	ECE	2
252089	PH3254	2	2	2	2	2	2	20/09/2023	ECE	2
252090	PH3254	2	2	2	3	2	3	20/09/2023	ECE	2
252091	PH3254	2	3	3	2	2	2	20/09/2023	ECE	2
252092	PH3254	2	2	2	3	2	2	20/09/2023	ECE	2
252093	PH3254	3	3	2	3	3	2	20/09/2023	ECE	2
252094	PH3254	2	2	3	2	3	2	20/09/2023	ECE	2
252095	PH3254	2	3	3	3	2	3	20/09/2023	ECE	2
252096	PH3254	2	2	3	2	3	3	20/09/2023	ECE	2
252097	PH3254	3	2	3	2	2	2	20/09/2023	ECE	2
252098	PH3254	2	2	3	3	3	3	20/09/2023	ECE	2
252099	PH3254	3	3	3	2	3	3	20/09/2023	ECE	2
252100	PH3254	2	2	3	3	3	3	20/09/2023	ECE	2
252101	PH3254	2	2	2	2	2	2	20/09/2023	ECE	2
252102	PH3254	2	3	3	3	3	3	20/09/2023	ECE	2
252103	PH3254	3	2	2	3	3	3	20/09/2023	ECE	2
252104	PH3254	3	2	2	3	3	2	20/09/2023	ECE	2
252105	PH3254	3	2	3	2	2	3	20/09/2023	ECE	2
252106	PH3254	2	3	3	3	2	2	20/09/2023	ECE	2
252107	PH3254	3	2	3	3	2	3	20/09/2023	ECE	2

252108	PH3254	3	3	3	3	3	3	20/09/2023	ECE	2
252109	PH3254	3	2	3	2	2	3	20/09/2023	ECE	2
252110	PH3254	3	2	3	2	2	2	20/09/2023	ECE	2
252111	PH3254	3	3	2	2	3	3	20/09/2023	ECE	2
252112	PH3254	2	2	3	3	3	2	20/09/2023	ECE	2
252113	PH3254	2	3	3	2	2	3	20/09/2023	ECE	2
252114	PH3254	2	3	3	2	2	3	20/09/2023	ECE	2
252115	PH3254	2	2	2	2	3	3	20/09/2023	ECE	2
252116	PH3254	3	2	3	2	2	3	20/09/2023	ECE	2
252117	PH3254	2	3	3	2	3	3	20/09/2023	ECE	2
252118	PH3254	3	2	3	2	2	3	20/09/2023	ECE	2
252119	PH3254	3	3	3	2	2	3	20/09/2023	ECE	2
252120	PH3254	2	2	2	3	3	3	20/09/2023	ECE	2
Attained Level		2.48	2.51	2.53	2.43	2.37	2.47			
%		82.67	83.67	84.33	81.00	79.00	82.33			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23EVEN** Semester : **4** Programme: **B.E/B.Tech (ECE)**
Subject Code : **EC3401** NBA Code : **C311** Title **NETWORKS AND SECURITY**
Faculty: Dr.S.Rajeswari / Mr.M.Mahendran

Cos	CO Description	Attained Level	%
C311.1	Explain the Network Models, layers and functions	2.44	81.33
C311.2	Categorize and classify the routing protocols	2.48	82.67
C311.3	List the functions of the transport and application layer	2.47	82.33
C311.4	Evaluate and choose the network security mechanisms	2.53	84.33
C311.5	Discuss the hardware security attacks and countermeasures	2.57	85.67
C311.6	Implement all network models and protocols in C programming	2.56	85.33

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 126

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
242001	EC3401	3	3	2	2	3	3	20/09/2023	ECE	4
242002	EC3401	2	2	3	3	2	3	20/09/2023	ECE	4
242003	EC3401	2	3	3	3	3	3	20/09/2023	ECE	4
242004	EC3401	3	3	2	2	2	3	20/09/2023	ECE	4
242006	EC3401	3	2	2	3	3	3	20/09/2023	ECE	4
242007	EC3401	2	2	2	2	2	2	20/09/2023	ECE	4
242008	EC3401	3	2	3	2	2	3	20/09/2023	ECE	4
242009	EC3401	3	2	2	2	3	3	20/09/2023	ECE	4
242010	EC3401	2	2	2	2	3	3	20/09/2023	ECE	4
242011	EC3401	3	3	2	2	3	2	20/09/2023	ECE	4
242012	EC3401	3	3	2	2	3	3	20/09/2023	ECE	4
242013	EC3401	2	3	2	2	3	3	20/09/2023	ECE	4
242014	EC3401	2	3	3	3	3	3	20/09/2023	ECE	4
242015	EC3401	3	2	3	3	3	2	20/09/2023	ECE	4
242016	EC3401	2	3	2	3	2	2	20/09/2023	ECE	4
242017	EC3401	3	2	2	2	2	3	20/09/2023	ECE	4
242018	EC3401	3	2	2	3	2	2	20/09/2023	ECE	4
242019	EC3401	2	2	2	3	3	3	20/09/2023	ECE	4
242020	EC3401	2	2	2	2	2	2	20/09/2023	ECE	4
242021	EC3401	2	3	3	3	2	2	20/09/2023	ECE	4
242022	EC3401	2	2	3	2	2	3	20/09/2023	ECE	4
242023	EC3401	3	3	2	3	2	2	20/09/2023	ECE	4
242024	EC3401	2	3	3	3	3	2	20/09/2023	ECE	4
242025	EC3401	2	3	2	2	3	3	20/09/2023	ECE	4
242026	EC3401	2	2	2	2	3	2	20/09/2023	ECE	4
242027	EC3401	2	3	2	2	3	3	20/09/2023	ECE	4

242028	EC3401	2	3	2	2	3	3	20/09/2023	ECE	4
242029	EC3401	2	3	2	3	3	2	20/09/2023	ECE	4
242030	EC3401	3	3	2	2	3	2	20/09/2023	ECE	4
242032	EC3401	2	2	2	3	2	2	20/09/2023	ECE	4
242033	EC3401	2	3	3	3	2	2	20/09/2023	ECE	4
242034	EC3401	3	3	2	3	3	3	20/09/2023	ECE	4
242035	EC3401	3	3	2	2	2	2	20/09/2023	ECE	4
242036	EC3401	2	3	3	2	2	2	20/09/2023	ECE	4
242037	EC3401	2	3	2	2	2	3	20/09/2023	ECE	4
242038	EC3401	2	3	3	3	3	2	20/09/2023	ECE	4
242039	EC3401	3	2	2	3	3	3	20/09/2023	ECE	4
242040	EC3401	3	2	2	3	3	2	20/09/2023	ECE	4
242041	EC3401	3	2	3	2	3	2	20/09/2023	ECE	4
242042	EC3401	2	2	2	2	3	2	20/09/2023	ECE	4
242043	EC3401	3	2	2	2	2	3	20/09/2023	ECE	4
242044	EC3401	3	2	3	3	3	3	20/09/2023	ECE	4
242045	EC3401	3	2	2	3	3	3	20/09/2023	ECE	4
242046	EC3401	2	2	3	2	3	3	20/09/2023	ECE	4
242047	EC3401	2	2	2	3	2	2	20/09/2023	ECE	4
242048	EC3401	3	3	2	2	3	3	20/09/2023	ECE	4
242049	EC3401	2	3	2	3	3	2	20/09/2023	ECE	4
242050	EC3401	2	2	2	2	2	3	20/09/2023	ECE	4
242052	EC3401	2	3	2	3	2	2	20/09/2023	ECE	4
242053	EC3401	2	2	2	3	2	2	20/09/2023	ECE	4
242054	EC3401	3	3	2	2	3	2	20/09/2023	ECE	4
242055	EC3401	3	2	3	3	3	3	20/09/2023	ECE	4
242056	EC3401	2	3	2	2	2	2	20/09/2023	ECE	4
242057	EC3401	2	2	2	3	2	3	20/09/2023	ECE	4
242058	EC3401	2	2	3	3	3	3	20/09/2023	ECE	4
242059	EC3401	2	2	2	3	3	3	20/09/2023	ECE	4
242062	EC3401	3	3	2	3	3	3	20/09/2023	ECE	4
242063	EC3401	2	2	3	3	3	3	20/09/2023	ECE	4
242064	EC3401	3	3	2	2	2	2	20/09/2023	ECE	4
242065	EC3401	3	2	2	2	3	3	20/09/2023	ECE	4
242066	EC3401	2	3	3	2	3	3	20/09/2023	ECE	4
242067	EC3401	2	2	3	3	2	3	20/09/2023	ECE	4
242068	EC3401	3	3	2	2	3	2	20/09/2023	ECE	4
242069	EC3401	2	3	2	3	3	2	20/09/2023	ECE	4
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242071	EC3401	3	2	3	3	3	3	20/09/2023	ECE	4
242072	EC3401	3	2	2	3	2	2	20/09/2023	ECE	4

242073	EC3401	2	3	3	2	3	3	20/09/2023	ECE	4
242074	EC3401	3	3	2	3	3	2	20/09/2023	ECE	4
242075	EC3401	2	3	3	2	2	2	20/09/2023	ECE	4
242076	EC3401	3	2	3	2	2	3	20/09/2023	ECE	4
242077	EC3401	3	2	2	2	2	3	20/09/2023	ECE	4
242078	EC3401	3	3	3	3	3	3	20/09/2023	ECE	4
242079	EC3401	3	3	3	3	2	3	20/09/2023	ECE	4
242080	EC3401	2	3	3	2	2	3	20/09/2023	ECE	4
242081	EC3401	2	2	2	3	2	3	20/09/2023	ECE	4
242082	EC3401	2	3	2	3	3	3	20/09/2023	ECE	4
242083	EC3401	2	2	3	2	2	3	20/09/2023	ECE	4
242084	EC3401	3	2	3	2	2	2	20/09/2023	ECE	4
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242088	EC3401	2	2	2	2	2	3	20/09/2023	ECE	4
242089	EC3401	3	2	2	3	3	3	20/09/2023	ECE	4
242090	EC3401	2	3	3	3	3	3	20/09/2023	ECE	4
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242093	EC3401	2	2	2	2	3	2	20/09/2023	ECE	4
242094	EC3401	3	3	3	2	2	2	20/09/2023	ECE	4
242095	EC3401	2	3	2	3	2	3	20/09/2023	ECE	4
242096	EC3401	2	2	3	2	3	2	20/09/2023	ECE	4
242097	EC3401	2	2	3	2	3	2	20/09/2023	ECE	4
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242099	EC3401	3	2	2	3	3	3	20/09/2023	ECE	4
242101	EC3401	2	2	2	2	2	3	20/09/2023	ECE	4
242102	EC3401	3	2	2	2	2	3	20/09/2023	ECE	4
242103	EC3401	3	3	3	2	2	3	20/09/2023	ECE	4
242104	EC3401	3	2	3	2	3	2	20/09/2023	ECE	4
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242106	EC3401	3	2	3	3	2	2	20/09/2023	ECE	4
242107	EC3401	2	2	3	2	3	2	20/09/2023	ECE	4
242108	EC3401	2	3	3	3	3	2	20/09/2023	ECE	4
242109	EC3401	3	2	2	2	2	2	20/09/2023	ECE	4
242110	EC3401	3	2	2	3	3	2	20/09/2023	ECE	4
242111	EC3401	3	2	3	3	3	3	20/09/2023	ECE	4
242112	EC3401	2	3	3	3	2	2	20/09/2023	ECE	4
242113	EC3401	3	3	3	2	2	2	20/09/2023	ECE	4
242114	EC3401	2	2	3	2	3	3	20/09/2023	ECE	4

242115	EC3401	2	3	3	3	3	3	20/09/2023	ECE	4
242116	EC3401	2	3	3	3	3	3	20/09/2023	ECE	4
242117	EC3401	3	2	2	3	3	3	20/09/2023	ECE	4
242118	EC3401	2	3	2	3	3	3	20/09/2023	ECE	4
242119	EC3401	2	2	3	3	3	3	20/09/2023	ECE	4
242120	EC3401	2	2	3	3	2	3	20/09/2023	ECE	4
242121	EC3401	3	3	3	3	2	3	20/09/2023	ECE	4
242122	EC3401	3	3	2	2	2	3	20/09/2023	ECE	4
242123	EC3401	3	3	3	3	3	2	20/09/2023	ECE	4
242124	EC3401	3	3	3	3	2	3	20/09/2023	ECE	4
242125	EC3401	3	2	3	3	3	2	20/09/2023	ECE	4
242126	EC3401	2	3	2	3	2	3	20/09/2023	ECE	4
242127	EC3401	3	3	2	2	2	2	20/09/2023	ECE	4
242128	EC3401	2	2	3	2	3	2	20/09/2023	ECE	4
242129	EC3401	2	2	3	2	2	2	20/09/2023	ECE	4
242130	EC3401	2	2	3	3	2	3	20/09/2023	ECE	4
242131	EC3401	2	3	3	3	3	2	20/09/2023	ECE	4
242132	EC3401	3	2	2	2	3	3	20/09/2023	ECE	4
Attained Level		2.44	2.48	2.47	2.53	2.57	2.56			
%		81.33	82.67	82.33	84.33	85.67	85.33			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23EVEN** Semester : **4** Programme: **B.E/B.Tech (ECE)**
Subject Code : **EC3451** NBA Code : **C212** Title **LINEAR INTEGRATED CIRCUITS**
Faculty: Ms.J.Eindhumathy / Dr.M.Padmaa

Cos	CO Description	Attained Level	%
C212.1	Analyze the basic building blocks, AC and DC characteristics of linear integrated circuits	2.52	84.00
C212.2	Design linear and nonlinear applications of OP ¿ AMPS	2.6	86.67
C212.3	Design applications using analog multiplier and PLL	2.56	85.33
C212.4	Design ADC and DAC using OP ¿ AMPS	2.5	83.33
C212.5	Generate waveforms using OP ¿ AMP Circuits	2.47	82.33
C212.6	Analyze Special function ICs	2.58	86.00

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 126

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
242001	EC3451	2	3	3	3	3	2	20/09/2023	ECE	4
242002	EC3451	2	2	3	3	3	2	20/09/2023	ECE	4
242003	EC3451	3	3	3	3	2	3	20/09/2023	ECE	4
242004	EC3451	2	3	3	2	2	3	20/09/2023	ECE	4
242006	EC3451	3	2	2	2	3	3	20/09/2023	ECE	4
242007	EC3451	3	3	2	3	2	3	20/09/2023	ECE	4
242008	EC3451	3	3	2	3	2	2	20/09/2023	ECE	4
242009	EC3451	3	2	3	3	3	2	20/09/2023	ECE	4
242010	EC3451	3	3	2	2	2	3	20/09/2023	ECE	4
242011	EC3451	3	2	2	2	2	3	20/09/2023	ECE	4
242012	EC3451	2	3	3	2	2	2	20/09/2023	ECE	4
242013	EC3451	2	3	3	3	3	2	20/09/2023	ECE	4
242014	EC3451	2	3	3	3	2	2	20/09/2023	ECE	4
242015	EC3451	2	3	2	3	3	3	20/09/2023	ECE	4
242016	EC3451	3	3	2	2	3	3	20/09/2023	ECE	4
242017	EC3451	3	2	2	2	3	3	20/09/2023	ECE	4
242018	EC3451	3	3	3	2	3	3	20/09/2023	ECE	4
242019	EC3451	3	3	3	2	2	2	20/09/2023	ECE	4
242020	EC3451	2	3	3	2	2	2	20/09/2023	ECE	4
242021	EC3451	2	3	2	3	3	2	20/09/2023	ECE	4
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242023	EC3451	2	3	2	3	3	3	20/09/2023	ECE	4
242024	EC3451	2	3	2	3	2	3	20/09/2023	ECE	4
242025	EC3451	3	2	2	3	3	3	20/09/2023	ECE	4

242026	EC3451	3	3	2	3	2	3	20/09/2023	ECE	4
242027	EC3451	3	3	2	2	2	2	20/09/2023	ECE	4
242028	EC3451	2	3	3	3	3	3	20/09/2023	ECE	4
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242035	EC3451	3	3	3	3	3	3	20/09/2023	ECE	4
242036	EC3451	2	3	2	2	3	3	20/09/2023	ECE	4
242037	EC3451	3	3	3	3	3	2	20/09/2023	ECE	4
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242042	EC3451	2	2	3	2	2	3	20/09/2023	ECE	4
242043	EC3451	2	3	2	3	2	2	20/09/2023	ECE	4
242044	EC3451	3	3	2	3	3	3	20/09/2023	ECE	4
242045	EC3451	3	2	2	2	2	2	20/09/2023	ECE	4
242046	EC3451	2	3	2	2	2	3	20/09/2023	ECE	4
242047	EC3451	3	2	3	2	3	3	20/09/2023	ECE	4
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242050	EC3451	2	3	2	3	3	2	20/09/2023	ECE	4
242052	EC3451	3	3	3	3	2	2	20/09/2023	ECE	4
242053	EC3451	3	3	2	2	2	2	20/09/2023	ECE	4
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242056	EC3451	3	3	3	2	3	2	20/09/2023	ECE	4
242057	EC3451	3	2	2	3	2	2	20/09/2023	ECE	4
242058	EC3451	2	2	2	3	2	2	20/09/2023	ECE	4
242059	EC3451	3	2	3	2	3	2	20/09/2023	ECE	4
242062	EC3451	3	3	3	2	2	2	20/09/2023	ECE	4
242063	EC3451	3	3	3	3	2	2	20/09/2023	ECE	4
242064	EC3451	2	2	3	3	2	2	20/09/2023	ECE	4
242065	EC3451	2	3	3	2	2	2	20/09/2023	ECE	4
242066	EC3451	3	2	2	3	2	2	20/09/2023	ECE	4
242067	EC3451	3	2	3	3	2	3	20/09/2023	ECE	4
242068	EC3451	3	3	3	3	2	2	20/09/2023	ECE	4
242069	EC3451	2	2	3	3	3	2	20/09/2023	ECE	4
242070	EC3451	3	3	3	2	2	2	20/09/2023	ECE	4

242071	EC3451	3	3	3	2	2	3	20/09/2023	ECE	4
242072	EC3451	3	2	3	2	3	3	20/09/2023	ECE	4
242073	EC3451	2	3	3	2	3	3	20/09/2023	ECE	4
242074	EC3451	2	3	3	3	2	3	20/09/2023	ECE	4
242075	EC3451	2	3	3	2	3	3	20/09/2023	ECE	4
242076	EC3451	2	2	3	3	2	2	20/09/2023	ECE	4
242077	EC3451	3	2	2	2	2	3	20/09/2023	ECE	4
242078	EC3451	3	2	3	2	2	2	20/09/2023	ECE	4
242079	EC3451	2	3	2	3	3	3	20/09/2023	ECE	4
242080	EC3451	3	3	2	3	2	3	20/09/2023	ECE	4
242081	EC3451	3	2	3	2	3	3	20/09/2023	ECE	4
242082	EC3451	3	3	2	3	3	3	20/09/2023	ECE	4
242083	EC3451	3	2	3	3	3	2	20/09/2023	ECE	4
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242086	EC3451	2	3	3	2	3	3	20/09/2023	ECE	4
242087	EC3451	3	3	3	2	2	3	20/09/2023	ECE	4
242088	EC3451	3	3	2	2	2	3	20/09/2023	ECE	4
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242090	EC3451	3	2	3	2	2	2	20/09/2023	ECE	4
242091	EC3451	2	3	3	3	2	2	20/09/2023	ECE	4
242092	EC3451	2	2	3	3	2	3	20/09/2023	ECE	4
242093	EC3451	2	2	2	3	2	2	20/09/2023	ECE	4
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242095	EC3451	3	3	3	2	2	2	20/09/2023	ECE	4
242096	EC3451	3	3	3	3	3	2	20/09/2023	ECE	4
242097	EC3451	3	3	2	3	3	3	20/09/2023	ECE	4
242098	EC3451	3	2	3	2	2	3	20/09/2023	ECE	4
242099	EC3451	2	2	3	3	2	3	20/09/2023	ECE	4
242101	EC3451	3	3	3	2	3	3	20/09/2023	ECE	4
242102	EC3451	2	2	2	2	2	2	20/09/2023	ECE	4
242103	EC3451	2	2	2	2	2	2	20/09/2023	ECE	4
242104	EC3451	3	2	3	3	2	3	20/09/2023	ECE	4
242105	EC3451	3	3	2	3	3	3	20/09/2023	ECE	4
242106	EC3451	3	2	3	2	3	3	20/09/2023	ECE	4
242107	EC3451	2	2	2	2	2	3	20/09/2023	ECE	4
242108	EC3451	3	2	2	3	2	3	20/09/2023	ECE	4
242109	EC3451	3	3	3	3	3	3	20/09/2023	ECE	4
242110	EC3451	3	2	3	2	2	3	20/09/2023	ECE	4
242111	EC3451	3	2	3	3	3	2	20/09/2023	ECE	4
242112	EC3451	3	3	2	2	2	3	20/09/2023	ECE	4

242113	EC3451	2	2	2	2	3	2	20/09/2023	ECE	4
242114	EC3451	2	3	3	3	3	2	20/09/2023	ECE	4
242115	EC3451	2	3	3	2	3	2	20/09/2023	ECE	4
242116	EC3451	3	3	2	3	2	3	20/09/2023	ECE	4
242117	EC3451	2	2	3	3	3	3	20/09/2023	ECE	4
242118	EC3451	2	3	2	2	2	2	20/09/2023	ECE	4
242119	EC3451	2	2	2	2	2	3	20/09/2023	ECE	4
242120	EC3451	2	2	3	2	2	2	20/09/2023	ECE	4
242121	EC3451	2	2	3	3	3	3	20/09/2023	ECE	4
242122	EC3451	3	2	3	2	2	3	20/09/2023	ECE	4
242123	EC3451	2	3	3	3	2	3	20/09/2023	ECE	4
242124	EC3451	3	3	3	3	3	3	20/09/2023	ECE	4
242125	EC3451	3	3	3	2	3	3	20/09/2023	ECE	4
242126	EC3451	2	3	3	2	3	3	20/09/2023	ECE	4
242127	EC3451	3	2	2	2	3	3	20/09/2023	ECE	4
242128	EC3451	2	2	2	2	3	3	20/09/2023	ECE	4
242129	EC3451	2	2	2	3	3	3	20/09/2023	ECE	4
242130	EC3451	2	3	3	2	3	3	20/09/2023	ECE	4
242131	EC3451	2	3	3	3	2	3	20/09/2023	ECE	4
242132	EC3451	2	3	2	3	2	2	20/09/2023	ECE	4
Attained Level		2.52	2.6	2.56	2.5	2.47	2.58			
%		84.00	86.67	85.33	83.33	82.33	86.00			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23EVEN** Semester : **4** Programme: **B.E/B.Tech (ECE)**
Subject Code : **EC3452** NBA Code : **C210** Title **ELECTROMAGNETIC FIELDS**
Faculty: Dr.V.Mohan / Dr.P.Shanmugapriya

Cos	CO Description	Attained Level	%
C210.1	Display an understanding of fundamental electromagnetic laws and concepts	2.54	84.67
C210.2	Analyze field potentials due to static charges and explain how materials affect electric fields.	2.53	84.33
C210.3	Analyze field potentials due to static magnetic fields and explain how materials affect magnetic fields.	2.43	81.00
C210.4	Write Maxwell's equations in integral, differential and phasor forms and explain their physical meaning, also analyze the relation between the fields under time varying situations	2.44	81.33
C210.5	Explain electromagnetic wave propagation in lossy and in lossless media.	2.49	83.00
C210.6	Discuss the principles of propagation of uniform plane waves and also solve simple problems requiring estimation of electric and magnetic field quantities based on these concepts and laws.	2.59	86.33

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 126

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
242001	EC3452	2	3	3	3	3	2	20/09/2023	ECE	4
242002	EC3452	3	3	3	2	3	3	20/09/2023	ECE	4
242003	EC3452	2	2	2	3	3	3	20/09/2023	ECE	4
242004	EC3452	3	2	2	2	2	2	20/09/2023	ECE	4
242006	EC3452	2	3	2	3	2	3	20/09/2023	ECE	4
242007	EC3452	3	3	3	2	2	3	20/09/2023	ECE	4
242008	EC3452	3	2	2	2	3	2	20/09/2023	ECE	4
242009	EC3452	3	3	3	3	3	3	20/09/2023	ECE	4
242010	EC3452	2	2	3	3	3	2	20/09/2023	ECE	4
242011	EC3452	2	3	3	2	3	2	20/09/2023	ECE	4
242012	EC3452	3	3	2	2	2	2	20/09/2023	ECE	4
242013	EC3452	2	2	3	3	2	2	20/09/2023	ECE	4
242014	EC3452	2	2	3	2	2	2	20/09/2023	ECE	4
242015	EC3452	3	3	2	2	3	3	20/09/2023	ECE	4
242016	EC3452	3	3	2	2	2	3	20/09/2023	ECE	4
242017	EC3452	3	3	3	3	3	3	20/09/2023	ECE	4
242018	EC3452	2	3	3	2	3	3	20/09/2023	ECE	4
242019	EC3452	3	3	2	3	3	3	20/09/2023	ECE	4
242020	EC3452	2	2	2	3	2	2	20/09/2023	ECE	4
242021	EC3452	3	3	3	2	2	3	20/09/2023	ECE	4
242022	EC3452	3	2	3	2	2	3	20/09/2023	ECE	4

242023	EC3452	2	2	2	3	2	3	20/09/2023	ECE	4
242024	EC3452	3	3	2	2	2	3	20/09/2023	ECE	4
242025	EC3452	3	2	2	2	3	3	20/09/2023	ECE	4
242026	EC3452	2	3	2	2	2	2	20/09/2023	ECE	4
242027	EC3452	3	2	3	2	2	3	20/09/2023	ECE	4
242028	EC3452	3	2	3	3	3	2	20/09/2023	ECE	4
242029	EC3452	3	2	2	3	2	3	20/09/2023	ECE	4
242030	EC3452	3	3	3	3	3	2	20/09/2023	ECE	4
242032	EC3452	2	2	3	2	2	2	20/09/2023	ECE	4
242033	EC3452	3	3	3	2	2	3	20/09/2023	ECE	4
242034	EC3452	3	3	2	2	3	3	20/09/2023	ECE	4
242035	EC3452	3	2	2	2	2	2	20/09/2023	ECE	4
242036	EC3452	2	3	3	2	3	2	20/09/2023	ECE	4
242037	EC3452	2	3	2	3	3	3	20/09/2023	ECE	4
242038	EC3452	2	3	3	3	3	3	20/09/2023	ECE	4
242039	EC3452	2	2	3	2	3	2	20/09/2023	ECE	4
242040	EC3452	2	3	2	2	2	3	20/09/2023	ECE	4
242041	EC3452	3	3	3	2	2	2	20/09/2023	ECE	4
242042	EC3452	3	2	3	2	3	3	20/09/2023	ECE	4
242043	EC3452	3	2	2	3	3	3	20/09/2023	ECE	4
242044	EC3452	3	2	3	2	3	3	20/09/2023	ECE	4
242045	EC3452	2	3	3	3	2	2	20/09/2023	ECE	4
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242047	EC3452	2	3	3	2	3	3	20/09/2023	ECE	4
242048	EC3452	2	3	2	2	3	3	20/09/2023	ECE	4
242049	EC3452	3	2	3	3	3	3	20/09/2023	ECE	4
242050	EC3452	3	3	3	2	2	2	20/09/2023	ECE	4
242052	EC3452	2	3	2	2	2	2	20/09/2023	ECE	4
242053	EC3452	2	3	2	3	3	3	20/09/2023	ECE	4
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242057	EC3452	3	3	2	2	2	2	20/09/2023	ECE	4
242058	EC3452	3	3	3	2	2	3	20/09/2023	ECE	4
242059	EC3452	3	2	2	2	3	2	20/09/2023	ECE	4
242062	EC3452	2	3	3	3	3	3	20/09/2023	ECE	4
242063	EC3452	2	2	2	2	3	3	20/09/2023	ECE	4
242064	EC3452	2	3	2	3	2	2	20/09/2023	ECE	4
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242066	EC3452	2	2	2	2	2	2	20/09/2023	ECE	4
242067	EC3452	2	2	3	2	2	3	20/09/2023	ECE	4

242068	EC3452	3	2	3	3	2	2	20/09/2023	ECE	4
242069	EC3452	3	3	3	2	3	2	20/09/2023	ECE	4
242070	EC3452	3	3	2	2	3	2	20/09/2023	ECE	4
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242073	EC3452	3	3	3	3	3	3	20/09/2023	ECE	4
242074	EC3452	3	2	2	2	3	2	20/09/2023	ECE	4
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242077	EC3452	2	2	3	2	2	3	20/09/2023	ECE	4
242078	EC3452	2	3	3	3	2	2	20/09/2023	ECE	4
242079	EC3452	3	3	3	3	3	2	20/09/2023	ECE	4
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242106	EC3452	2	3	3	2	2	3	20/09/2023	ECE	4
242107	EC3452	2	3	2	2	2	3	20/09/2023	ECE	4
242108	EC3452	3	2	3	3	2	2	20/09/2023	ECE	4
242109	EC3452	2	2	2	3	2	3	20/09/2023	ECE	4

242110	EC3452	3	3	3	2	3	2	20/09/2023	ECE	4
242111	EC3452	3	2	2	3	3	3	20/09/2023	ECE	4
242112	EC3452	3	3	3	2	2	3	20/09/2023	ECE	4
242113	EC3452	3	2	2	2	2	3	20/09/2023	ECE	4
242114	EC3452	3	3	3	3	3	3	20/09/2023	ECE	4
242115	EC3452	2	2	3	2	3	3	20/09/2023	ECE	4
242116	EC3452	2	2	3	2	2	2	20/09/2023	ECE	4
242117	EC3452	3	2	2	2	2	3	20/09/2023	ECE	4
242118	EC3452	2	3	2	2	3	3	20/09/2023	ECE	4
242119	EC3452	2	2	2	3	2	3	20/09/2023	ECE	4
242120	EC3452	2	2	2	3	2	3	20/09/2023	ECE	4
242121	EC3452	3	3	3	3	3	3	20/09/2023	ECE	4
242122	EC3452	3	2	3	2	2	2	20/09/2023	ECE	4
242123	EC3452	2	3	2	2	2	2	20/09/2023	ECE	4
242124	EC3452	3	3	2	3	3	3	20/09/2023	ECE	4
242125	EC3452	3	2	2	2	3	3	20/09/2023	ECE	4
242126	EC3452	3	3	2	2	3	3	20/09/2023	ECE	4
242127	EC3452	2	2	3	3	2	2	20/09/2023	ECE	4
242128	EC3452	3	2	3	2	3	3	20/09/2023	ECE	4
242129	EC3452	2	2	2	3	3	2	20/09/2023	ECE	4
242130	EC3452	2	2	3	3	3	2	20/09/2023	ECE	4
242131	EC3452	3	2	3	3	2	2	20/09/2023	ECE	4
242132	EC3452	2	3	2	2	3	3	20/09/2023	ECE	4
Attained Level		2.54	2.53	2.43	2.44	2.49	2.59			
%		84.67	84.33	81.00	81.33	83.00	86.33			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23EVEN** Semester : **4** Programme: **B.E/B.Tech (ECE)**
Subject Code : **EC3461** NBA Code : **C217** Title **COMMUNICATION SYSTEMS LABORATORY**
Faculty: Dr.S.Rajeswari / Dr.S.A.Arunmozhi

Cos	CO Description	Attained Level	%
C217.1	Design AM, FM & Digital Modulators for specific applications.	2.44	81.33
C217.2	Compute the sampling frequency for digital modulation.	2.47	82.33
C217.3	Simulate & validate the various functional modules of Communication system	2.52	84.00
C217.4	Demonstrate their knowledge in base band signaling schemes through implementation of digital modulation schemes.	2.53	84.33
C217.5	Apply various channel coding schemes & demonstrate their capabilities towards the improvement of the noise performance of Communication system.	2.53	84.33
C217.6	Design various pulse modulation schemes	2.56	85.33

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 126

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
242001	EC3461	3	3	2	2	2	2	20/09/2023	ECE	4
242002	EC3461	2	2	2	2	2	2	20/09/2023	ECE	4
242003	EC3461	2	2	2	2	2	2	20/09/2023	ECE	4
242004	EC3461	3	2	2	2	3	3	20/09/2023	ECE	4
242006	EC3461	2	3	2	2	3	2	20/09/2023	ECE	4
242007	EC3461	2	3	2	2	3	3	20/09/2023	ECE	4
242008	EC3461	2	2	3	2	2	2	20/09/2023	ECE	4
242009	EC3461	3	3	3	3	3	2	20/09/2023	ECE	4
242010	EC3461	3	3	2	3	2	3	20/09/2023	ECE	4
242011	EC3461	2	3	2	3	3	3	20/09/2023	ECE	4
242012	EC3461	2	3	2	3	3	3	20/09/2023	ECE	4
242013	EC3461	3	2	3	3	2	3	20/09/2023	ECE	4
242014	EC3461	2	2	3	3	2	2	20/09/2023	ECE	4
242015	EC3461	3	3	3	3	3	2	20/09/2023	ECE	4
242016	EC3461	3	3	3	3	2	3	20/09/2023	ECE	4
242017	EC3461	2	2	2	2	3	3	20/09/2023	ECE	4
242018	EC3461	2	3	2	3	2	2	20/09/2023	ECE	4
242019	EC3461	2	3	2	2	3	3	20/09/2023	ECE	4
242020	EC3461	2	2	2	2	3	2	20/09/2023	ECE	4
242021	EC3461	3	2	2	2	2	2	20/09/2023	ECE	4
242022	EC3461	2	3	3	3	2	2	20/09/2023	ECE	4
242023	EC3461	2	3	2	3	2	2	20/09/2023	ECE	4
242024	EC3461	3	3	3	3	2	3	20/09/2023	ECE	4

242025	EC3461	2	2	2	3	3	3	20/09/2023	ECE	4
242026	EC3461	3	3	2	2	3	3	20/09/2023	ECE	4
242027	EC3461	2	2	3	3	3	2	20/09/2023	ECE	4
242028	EC3461	2	3	3	2	3	2	20/09/2023	ECE	4
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242030	EC3461	3	2	2	3	2	3	20/09/2023	ECE	4
242032	EC3461	2	3	2	2	2	3	20/09/2023	ECE	4
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242035	EC3461	2	3	2	2	3	2	20/09/2023	ECE	4
242036	EC3461	2	3	3	3	3	3	20/09/2023	ECE	4
242037	EC3461	2	3	3	2	3	3	20/09/2023	ECE	4
242038	EC3461	3	2	3	3	3	2	20/09/2023	ECE	4
242039	EC3461	2	2	2	3	3	3	20/09/2023	ECE	4
242040	EC3461	2	2	3	2	2	3	20/09/2023	ECE	4
242041	EC3461	2	3	3	3	3	3	20/09/2023	ECE	4
242042	EC3461	2	2	2	3	3	3	20/09/2023	ECE	4
242043	EC3461	2	2	2	3	2	3	20/09/2023	ECE	4
242044	EC3461	2	3	2	3	2	3	20/09/2023	ECE	4
242045	EC3461	3	2	3	2	2	2	20/09/2023	ECE	4
242046	EC3461	2	2	3	2	2	3	20/09/2023	ECE	4
242047	EC3461	3	3	2	3	3	3	20/09/2023	ECE	4
242048	EC3461	3	2	2	2	2	3	20/09/2023	ECE	4
242049	EC3461	2	3	2	3	3	3	20/09/2023	ECE	4
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242053	EC3461	2	2	3	3	3	3	20/09/2023	ECE	4
242054	EC3461	2	2	2	3	2	2	20/09/2023	ECE	4
242055	EC3461	2	3	3	2	2	3	20/09/2023	ECE	4
242056	EC3461	3	2	3	3	2	2	20/09/2023	ECE	4
242057	EC3461	3	2	2	3	3	3	20/09/2023	ECE	4
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242066	EC3461	2	3	3	2	3	3	20/09/2023	ECE	4
242067	EC3461	3	2	2	2	3	3	20/09/2023	ECE	4
242068	EC3461	2	3	3	2	3	3	20/09/2023	ECE	4
242069	EC3461	2	2	3	3	3	2	20/09/2023	ECE	4

242070	EC3461	2	2	2	3	2	3	20/09/2023	ECE	4
242071	EC3461	3	2	3	3	3	3	20/09/2023	ECE	4
242072	EC3461	2	2	2	3	3	2	20/09/2023	ECE	4
242073	EC3461	3	3	3	3	2	3	20/09/2023	ECE	4
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242075	EC3461	2	3	2	2	2	2	20/09/2023	ECE	4
242076	EC3461	3	3	2	2	2	3	20/09/2023	ECE	4
242077	EC3461	2	2	3	2	3	3	20/09/2023	ECE	4
242078	EC3461	2	3	3	2	2	2	20/09/2023	ECE	4
242079	EC3461	2	3	3	2	2	3	20/09/2023	ECE	4
242080	EC3461	3	3	3	2	3	2	20/09/2023	ECE	4
242081	EC3461	2	2	2	2	2	2	20/09/2023	ECE	4
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242086	EC3461	2	2	3	3	3	3	20/09/2023	ECE	4
242087	EC3461	3	2	2	3	3	2	20/09/2023	ECE	4
242088	EC3461	3	2	3	2	2	2	20/09/2023	ECE	4
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242090	EC3461	2	2	3	2	3	2	20/09/2023	ECE	4
242091	EC3461	3	3	2	3	2	2	20/09/2023	ECE	4
242092	EC3461	3	3	3	3	3	3	20/09/2023	ECE	4
242093	EC3461	3	2	3	2	2	3	20/09/2023	ECE	4
242094	EC3461	3	3	3	2	3	3	20/09/2023	ECE	4
242095	EC3461	3	3	2	2	3	3	20/09/2023	ECE	4
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242099	EC3461	2	2	2	3	2	2	20/09/2023	ECE	4
242101	EC3461	3	3	2	2	2	3	20/09/2023	ECE	4
242102	EC3461	2	2	2	3	3	2	20/09/2023	ECE	4
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242109	EC3461	3	2	3	2	3	3	20/09/2023	ECE	4
242110	EC3461	2	2	3	3	3	2	20/09/2023	ECE	4
242111	EC3461	3	3	3	2	2	3	20/09/2023	ECE	4

242112	EC3461	2	3	3	3	3	2	20/09/2023	ECE	4
242113	EC3461	3	2	2	2	3	3	20/09/2023	ECE	4
242114	EC3461	3	3	3	3	2	2	20/09/2023	ECE	4
242115	EC3461	3	3	2	3	3	2	20/09/2023	ECE	4
242116	EC3461	3	3	3	3	3	2	20/09/2023	ECE	4
242117	EC3461	3	2	2	3	2	2	20/09/2023	ECE	4
242118	EC3461	3	2	2	3	3	3	20/09/2023	ECE	4
242119	EC3461	3	2	2	2	3	3	20/09/2023	ECE	4
242120	EC3461	3	3	3	3	3	2	20/09/2023	ECE	4
242121	EC3461	2	2	2	2	2	3	20/09/2023	ECE	4
242122	EC3461	2	3	2	2	3	2	20/09/2023	ECE	4
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242131	EC3461	3	2	3	3	2	2	20/09/2023	ECE	4
242132	EC3461	3	3	3	3	2	2	20/09/2023	ECE	4
Attained Level		2.44	2.47	2.52	2.53	2.53	2.56			
%		81.33	82.33	84.00	84.33	84.33	85.33			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23EVEN** Semester : **4** Programme: **B.E/B.Tech (ECE)**
Subject Code : **EC3462** NBA Code : **C217** Title **LINEAR INTEGRATED CIRCUITS LABORATORY**
Faculty: Ms.J.Eindhumathy / Dr.M.Padmaa

Cos	CO Description	Attained Level	%
C217.1	Analyze various types of feedback amplifiers	2.47	82.33
C217.2	Design Oscillators, tuned amplifiers, wave shaping circuits and multivibrators	2.41	80.33
C217.3	Design and simulate feedback amplifiers, tuned amplifiers and Oscillators using SPICE tool	2.48	82.67
C217.4	Design and simulate wave shaping circuits, multivibrators and filters using SPICE tool	2.42	80.67
C217.5	Design amplifiers, Oscillators, D-A converters using operational amplifiers	2.46	82.00
C217.6	Design filters using op-amp and perform an experiment on frequency response	2.47	82.33

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 126

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
242001	EC3462	3	2	2	3	3	2	20/09/2023	ECE	4
242002	EC3462	2	2	3	3	2	3	20/09/2023	ECE	4
242003	EC3462	2	3	2	2	2	3	20/09/2023	ECE	4
242004	EC3462	2	3	2	3	3	2	20/09/2023	ECE	4
242006	EC3462	3	3	2	2	2	2	20/09/2023	ECE	4
242007	EC3462	2	2	2	2	2	3	20/09/2023	ECE	4
242008	EC3462	3	3	2	2	2	2	20/09/2023	ECE	4
242009	EC3462	2	2	2	3	2	3	20/09/2023	ECE	4
242010	EC3462	2	2	3	3	3	3	20/09/2023	ECE	4
242011	EC3462	2	2	2	2	2	2	20/09/2023	ECE	4
242012	EC3462	3	2	3	2	3	2	20/09/2023	ECE	4
242013	EC3462	3	3	3	2	2	3	20/09/2023	ECE	4
242014	EC3462	3	2	2	2	3	2	20/09/2023	ECE	4
242015	EC3462	2	3	3	2	3	2	20/09/2023	ECE	4
242016	EC3462	2	3	2	2	2	3	20/09/2023	ECE	4
242017	EC3462	2	2	2	2	2	2	20/09/2023	ECE	4
242018	EC3462	2	3	2	3	3	3	20/09/2023	ECE	4
242019	EC3462	2	3	2	2	3	3	20/09/2023	ECE	4
242020	EC3462	2	2	2	2	2	2	20/09/2023	ECE	4
242021	EC3462	3	2	2	3	2	3	20/09/2023	ECE	4
242022	EC3462	2	2	2	3	3	3	20/09/2023	ECE	4
242023	EC3462	3	2	3	2	2	2	20/09/2023	ECE	4
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242025	EC3462	3	3	2	3	3	2	20/09/2023	ECE	4
242026	EC3462	3	2	2	2	2	2	20/09/2023	ECE	4
242027	EC3462	2	3	2	3	2	3	20/09/2023	ECE	4
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242064	EC3462	2	3	3	2	2	2	20/09/2023	ECE	4
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242066	EC3462	3	2	3	3	2	3	20/09/2023	ECE	4
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242068	EC3462	2	3	3	2	3	2	20/09/2023	ECE	4
242069	EC3462	3	2	2	3	2	3	20/09/2023	ECE	4

242070	EC3462	3	3	2	2	2	2	20/09/2023	ECE	4
242071	EC3462	3	2	2	2	3	2	20/09/2023	ECE	4
242072	EC3462	3	3	2	2	3	2	20/09/2023	ECE	4
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242101	EC3462	2	2	2	3	2	2	20/09/2023	ECE	4
242102	EC3462	3	2	3	3	3	3	20/09/2023	ECE	4
242103	EC3462	3	2	2	2	2	2	20/09/2023	ECE	4
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242109	EC3462	2	3	3	2	3	3	20/09/2023	ECE	4
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242113	EC3462	2	3	2	3	2	3	20/09/2023	ECE	4
242114	EC3462	3	3	3	3	2	3	20/09/2023	ECE	4
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242116	EC3462	3	3	2	3	3	3	20/09/2023	ECE	4
242117	EC3462	3	3	3	3	2	2	20/09/2023	ECE	4
242118	EC3462	3	3	2	2	2	3	20/09/2023	ECE	4
242119	EC3462	3	2	3	2	2	3	20/09/2023	ECE	4
242120	EC3462	2	3	3	2	2	2	20/09/2023	ECE	4
242121	EC3462	3	3	3	2	3	3	20/09/2023	ECE	4
242122	EC3462	3	2	3	2	3	3	20/09/2023	ECE	4
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242128	EC3462	3	2	3	2	3	2	20/09/2023	ECE	4
242129	EC3462	3	2	3	2	3	2	20/09/2023	ECE	4
242130	EC3462	2	3	3	2	3	2	20/09/2023	ECE	4
242131	EC3462	2	3	3	2	2	2	20/09/2023	ECE	4
242132	EC3462	3	2	3	3	2	2	20/09/2023	ECE	4
Attained Level		2.47	2.41	2.48	2.42	2.46	2.47			
%		82.33	80.33	82.67	80.67	82.00	82.33			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23EVEN** Semester : **4** Programme: **B.E/B.Tech (ECE)**
Subject Code : **EC3491** NBA Code : **C214** Title **COMMUNICATION SYSTEMS**
Faculty: Dr.M.Baritha Begum / Dr.S.A.Arunmozhi

Cos	CO Description	Attained Level	%
C214.1	Gain knowledge in amplitude modulation techniques	2.45	81.67
C214.2	Understand the concepts of Random Process to the design of communication systems	2.45	81.67
C214.3	Gain knowledge in digital techniques	2.55	85.00
C214.4	Gain knowledge in sampling and quantization	2.54	84.67
C214.5	Gain knowledge in digital modulations	2.44	81.33
C214.6	Understand the importance of demodulation techniques	2.44	81.33

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 126

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
242001	EC3491	3	3	3	2	2	3	20/09/2023	ECE	4
242002	EC3491	3	3	3	3	2	3	20/09/2023	ECE	4
242003	EC3491	2	3	3	3	2	3	20/09/2023	ECE	4
242004	EC3491	2	3	3	2	2	2	20/09/2023	ECE	4
242006	EC3491	2	2	3	2	2	3	20/09/2023	ECE	4
242007	EC3491	3	3	3	3	2	3	20/09/2023	ECE	4
242008	EC3491	3	2	2	3	2	2	20/09/2023	ECE	4
242009	EC3491	2	2	3	3	2	2	20/09/2023	ECE	4
242010	EC3491	2	3	3	2	2	2	20/09/2023	ECE	4
242011	EC3491	3	2	2	3	3	2	20/09/2023	ECE	4
242012	EC3491	3	3	2	3	2	3	20/09/2023	ECE	4
242013	EC3491	2	2	2	3	3	2	20/09/2023	ECE	4
242014	EC3491	2	3	3	2	2	2	20/09/2023	ECE	4
242015	EC3491	3	3	2	2	2	2	20/09/2023	ECE	4
242016	EC3491	2	2	2	2	2	3	20/09/2023	ECE	4
242017	EC3491	2	3	3	3	2	2	20/09/2023	ECE	4
242018	EC3491	3	2	2	3	3	2	20/09/2023	ECE	4
242019	EC3491	3	2	2	2	2	2	20/09/2023	ECE	4
242020	EC3491	3	2	3	2	3	2	20/09/2023	ECE	4
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242028	EC3491	2	2	2	2	3	3	20/09/2023	ECE	4
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242065	EC3491	3	2	2	3	2	2	20/09/2023	ECE	4
242066	EC3491	2	2	3	2	2	2	20/09/2023	ECE	4
242067	EC3491	3	3	3	2	3	3	20/09/2023	ECE	4
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242069	EC3491	2	3	2	3	3	3	20/09/2023	ECE	4
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242073	EC3491	3	2	2	2	2	3	20/09/2023	ECE	4
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242108	EC3491	3	2	3	3	3	2	20/09/2023	ECE	4
242109	EC3491	2	2	2	2	3	2	20/09/2023	ECE	4
242110	EC3491	2	2	2	3	3	2	20/09/2023	ECE	4
242111	EC3491	3	2	3	3	3	3	20/09/2023	ECE	4
242112	EC3491	2	3	3	3	3	3	20/09/2023	ECE	4

242113	EC3491	3	2	3	3	3	2	20/09/2023	ECE	4
242114	EC3491	2	2	2	2	2	3	20/09/2023	ECE	4
242115	EC3491	2	3	2	3	2	2	20/09/2023	ECE	4
242116	EC3491	3	3	2	3	2	2	20/09/2023	ECE	4
242117	EC3491	3	3	3	2	3	3	20/09/2023	ECE	4
242118	EC3491	3	3	3	2	3	2	20/09/2023	ECE	4
242119	EC3491	3	3	3	2	3	3	20/09/2023	ECE	4
242120	EC3491	2	2	2	3	2	2	20/09/2023	ECE	4
242121	EC3491	2	3	3	2	3	2	20/09/2023	ECE	4
242122	EC3491	3	2	2	3	2	2	20/09/2023	ECE	4
242123	EC3491	2	3	2	3	2	3	20/09/2023	ECE	4
242124	EC3491	2	3	3	2	2	2	20/09/2023	ECE	4
242125	EC3491	2	3	2	3	3	3	20/09/2023	ECE	4
242126	EC3491	3	2	3	3	2	2	20/09/2023	ECE	4
242127	EC3491	2	3	3	2	3	2	20/09/2023	ECE	4
242128	EC3491	2	3	3	3	3	3	20/09/2023	ECE	4
242129	EC3491	3	2	3	3	3	2	20/09/2023	ECE	4
242130	EC3491	2	2	3	2	3	3	20/09/2023	ECE	4
242131	EC3491	3	3	3	3	2	3	20/09/2023	ECE	4
242132	EC3491	3	3	3	3	3	3	20/09/2023	ECE	4
Attained Level		2.45	2.45	2.55	2.54	2.44	2.44			
%		81.67	81.67	85.00	84.67	81.33	81.33			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23EVEN** Semester : **4** Programme: **B.E/B.Tech (ECE)**
Subject Code : **EC3492** NBA Code : **C213** Title **DIGITAL SIGNAL PROCESSING**
Faculty: Mr.G.Sivakannu / Dr.V.Mohan

Cos	CO Description	Attained Level	%
C213.1	Apply DFT for the analysis of Digital signals and Systems	2.52	84.00
C213.2	Design IIR and FIR filters	2.45	81.67
C213.3	Characterize the Effects of Finite Precision representation on digital Filters	2.44	81.33
C213.4	Design Multirate Filters.	2.41	80.33
C213.5	Apply Adaptive filters appropriately in communication systems.	2.51	83.67
C213.6	Study of different Digital signal Processor	2.47	82.33

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 126

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
242001	EC3492	3	2	3	2	2	3	20/09/2023	ECE	4
242002	EC3492	2	3	2	3	2	3	20/09/2023	ECE	4
242003	EC3492	2	2	3	2	2	3	20/09/2023	ECE	4
242004	EC3492	3	2	3	2	3	3	20/09/2023	ECE	4
242006	EC3492	2	2	2	2	2	3	20/09/2023	ECE	4
242007	EC3492	3	3	2	2	2	2	20/09/2023	ECE	4
242008	EC3492	3	2	3	3	2	2	20/09/2023	ECE	4
242009	EC3492	3	2	2	2	3	3	20/09/2023	ECE	4
242010	EC3492	3	3	3	3	3	3	20/09/2023	ECE	4
242011	EC3492	3	3	3	2	3	2	20/09/2023	ECE	4
242012	EC3492	3	2	3	2	2	2	20/09/2023	ECE	4
242013	EC3492	2	2	2	3	3	2	20/09/2023	ECE	4
242014	EC3492	2	3	3	3	2	3	20/09/2023	ECE	4
242015	EC3492	2	2	3	2	2	3	20/09/2023	ECE	4
242016	EC3492	2	3	3	3	2	3	20/09/2023	ECE	4
242017	EC3492	3	3	2	3	3	2	20/09/2023	ECE	4
242018	EC3492	2	2	2	3	3	3	20/09/2023	ECE	4
242019	EC3492	2	3	2	3	2	3	20/09/2023	ECE	4
242020	EC3492	2	2	2	3	2	3	20/09/2023	ECE	4
242021	EC3492	2	2	3	2	3	2	20/09/2023	ECE	4
242022	EC3492	3	3	3	3	3	3	20/09/2023	ECE	4
242023	EC3492	3	2	3	2	2	2	20/09/2023	ECE	4
242024	EC3492	3	2	2	2	3	2	20/09/2023	ECE	4
242025	EC3492	3	3	2	3	2	2	20/09/2023	ECE	4
242026	EC3492	2	2	3	2	2	3	20/09/2023	ECE	4
242027	EC3492	3	3	2	2	2	3	20/09/2023	ECE	4

242028	EC3492	3	3	2	2	3	3	20/09/2023	ECE	4
242029	EC3492	3	3	3	2	3	3	20/09/2023	ECE	4
242030	EC3492	2	2	3	2	2	2	20/09/2023	ECE	4
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242033	EC3492	3	2	2	2	2	3	20/09/2023	ECE	4
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242035	EC3492	2	2	2	3	3	2	20/09/2023	ECE	4
242036	EC3492	2	2	2	3	2	2	20/09/2023	ECE	4
242037	EC3492	2	2	2	2	3	2	20/09/2023	ECE	4
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242040	EC3492	2	2	2	2	3	2	20/09/2023	ECE	4
242041	EC3492	2	3	3	2	2	2	20/09/2023	ECE	4
242042	EC3492	2	3	2	2	2	2	20/09/2023	ECE	4
242043	EC3492	3	2	3	3	3	2	20/09/2023	ECE	4
242044	EC3492	3	3	3	3	3	2	20/09/2023	ECE	4
242045	EC3492	3	2	3	3	2	2	20/09/2023	ECE	4
242046	EC3492	3	3	2	3	3	3	20/09/2023	ECE	4
242047	EC3492	2	2	2	2	3	3	20/09/2023	ECE	4
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242065	EC3492	2	2	3	2	3	3	20/09/2023	ECE	4
242066	EC3492	2	3	2	3	3	3	20/09/2023	ECE	4
242067	EC3492	3	3	3	2	3	3	20/09/2023	ECE	4
242068	EC3492	3	2	2	2	2	3	20/09/2023	ECE	4
242069	EC3492	2	3	3	2	3	2	20/09/2023	ECE	4
242070	EC3492	2	2	3	3	2	3	20/09/2023	ECE	4
242071	EC3492	3	3	2	2	2	3	20/09/2023	ECE	4
242072	EC3492	2	3	2	3	3	2	20/09/2023	ECE	4

242073	EC3492	2	3	2	2	2	3	20/09/2023	ECE	4
242074	EC3492	2	2	3	2	3	3	20/09/2023	ECE	4
242075	EC3492	3	2	3	2	3	2	20/09/2023	ECE	4
242076	EC3492	3	3	3	3	2	3	20/09/2023	ECE	4
242077	EC3492	2	3	3	2	3	2	20/09/2023	ECE	4
242078	EC3492	3	3	2	2	2	2	20/09/2023	ECE	4
242079	EC3492	2	2	3	3	2	3	20/09/2023	ECE	4
242080	EC3492	3	3	2	2	3	3	20/09/2023	ECE	4
242081	EC3492	3	3	2	3	2	2	20/09/2023	ECE	4
242082	EC3492	2	3	2	2	2	3	20/09/2023	ECE	4
242083	EC3492	3	2	3	2	3	3	20/09/2023	ECE	4
242084	EC3492	3	3	3	2	2	2	20/09/2023	ECE	4
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242086	EC3492	3	2	2	3	2	2	20/09/2023	ECE	4
242087	EC3492	2	2	2	3	3	3	20/09/2023	ECE	4
242088	EC3492	2	3	2	3	3	2	20/09/2023	ECE	4
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242090	EC3492	2	3	2	2	3	2	20/09/2023	ECE	4
242091	EC3492	2	2	3	3	2	3	20/09/2023	ECE	4
242092	EC3492	2	2	2	2	3	2	20/09/2023	ECE	4
242093	EC3492	3	3	3	2	3	2	20/09/2023	ECE	4
242094	EC3492	2	3	3	3	2	2	20/09/2023	ECE	4
242095	EC3492	3	2	3	3	2	2	20/09/2023	ECE	4
242096	EC3492	3	3	2	2	3	3	20/09/2023	ECE	4
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242098	EC3492	2	2	2	3	2	2	20/09/2023	ECE	4
242099	EC3492	3	3	2	3	2	2	20/09/2023	ECE	4
242101	EC3492	3	2	2	3	3	2	20/09/2023	ECE	4
242102	EC3492	3	3	3	2	2	2	20/09/2023	ECE	4
242103	EC3492	3	3	2	2	3	3	20/09/2023	ECE	4
242104	EC3492	3	3	3	3	3	3	20/09/2023	ECE	4
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242106	EC3492	2	2	3	2	2	2	20/09/2023	ECE	4
242107	EC3492	3	3	2	2	2	2	20/09/2023	ECE	4
242108	EC3492	2	2	2	2	3	2	20/09/2023	ECE	4
242109	EC3492	3	3	3	2	3	3	20/09/2023	ECE	4
242110	EC3492	3	2	2	2	2	2	20/09/2023	ECE	4
242111	EC3492	3	3	2	3	3	2	20/09/2023	ECE	4
242112	EC3492	3	3	3	2	2	2	20/09/2023	ECE	4
242113	EC3492	3	2	2	2	3	2	20/09/2023	ECE	4
242114	EC3492	3	2	2	2	2	2	20/09/2023	ECE	4

242115	EC3492	2	3	2	2	2	2	20/09/2023	ECE	4
242116	EC3492	2	3	3	2	3	3	20/09/2023	ECE	4
242117	EC3492	3	3	2	3	3	3	20/09/2023	ECE	4
242118	EC3492	2	3	3	3	2	3	20/09/2023	ECE	4
242119	EC3492	2	2	3	2	2	2	20/09/2023	ECE	4
242120	EC3492	2	2	3	2	3	2	20/09/2023	ECE	4
242121	EC3492	2	3	3	3	3	2	20/09/2023	ECE	4
242122	EC3492	3	2	2	3	2	3	20/09/2023	ECE	4
242123	EC3492	2	2	2	2	2	2	20/09/2023	ECE	4
242124	EC3492	3	3	2	3	3	3	20/09/2023	ECE	4
242125	EC3492	2	2	3	3	3	3	20/09/2023	ECE	4
242126	EC3492	2	2	3	3	2	2	20/09/2023	ECE	4
242127	EC3492	2	3	3	2	3	2	20/09/2023	ECE	4
242128	EC3492	3	2	3	3	3	2	20/09/2023	ECE	4
242129	EC3492	2	3	2	3	3	3	20/09/2023	ECE	4
242130	EC3492	3	2	3	2	3	3	20/09/2023	ECE	4
242131	EC3492	3	2	2	2	3	2	20/09/2023	ECE	4
242132	EC3492	2	2	2	2	2	2	20/09/2023	ECE	4
Attained Level		2.52	2.45	2.44	2.41	2.51	2.47			
%		84.00	81.67	81.33	80.33	83.67	82.33			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23EVEN** Semester : **4** Programme: **B.E/B.Tech (ECE)**
Subject Code : **GE3451** NBA Code : **215** Title **ENVIRONMENTAL SCIENCES AND SUSTAINABILITY**
Faculty: Dr.G.Thulasi / Mr.A.Lakshmanan

Cos	CO Description	Attained Level	%
215.1	Infer the importance of environment and explain the concept of ecosystem.	2.53	84.33
215.2	Recall the various functions, different values, threats and conservation of biodiversity.	2.4	80.00
215.3	Explain the different types of pollution and propose the suitable methods to prevent the same to enhance the environment.	2.54	84.67
215.4	Discuss the different types of renewable resources, optimum usage and its importance.	2.53	84.33
215.5	Discuss the aspect of sustainability and the means of sustainability management to realize the SDG targets.	2.44	81.33
215.6	List the various environmental management systems for environmental protection and discuss the given solutions for energy to materials for sustainability.	2.41	80.33

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 126

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
242001	GE3451	2	3	2	2	3	2	20/09/2023	ECE	4
242002	GE3451	3	2	2	2	2	2	20/09/2023	ECE	4
242003	GE3451	3	3	2	3	3	3	20/09/2023	ECE	4
242004	GE3451	3	2	2	2	3	2	20/09/2023	ECE	4
242006	GE3451	3	3	3	3	2	2	20/09/2023	ECE	4
242007	GE3451	2	3	3	3	2	3	20/09/2023	ECE	4
242008	GE3451	2	3	3	2	2	2	20/09/2023	ECE	4
242009	GE3451	2	3	2	3	3	2	20/09/2023	ECE	4
242010	GE3451	3	2	3	2	2	2	20/09/2023	ECE	4
242011	GE3451	3	3	2	2	2	2	20/09/2023	ECE	4
242012	GE3451	3	2	3	2	2	3	20/09/2023	ECE	4
242013	GE3451	2	3	2	3	2	3	20/09/2023	ECE	4
242014	GE3451	3	2	3	2	2	3	20/09/2023	ECE	4
242015	GE3451	2	2	3	3	3	3	20/09/2023	ECE	4
242016	GE3451	3	2	3	2	2	3	20/09/2023	ECE	4
242017	GE3451	2	2	2	2	3	2	20/09/2023	ECE	4
242018	GE3451	3	2	3	2	2	2	20/09/2023	ECE	4
242019	GE3451	2	2	2	3	2	3	20/09/2023	ECE	4
242020	GE3451	2	2	2	2	2	2	20/09/2023	ECE	4
242021	GE3451	3	3	3	3	2	2	20/09/2023	ECE	4
242022	GE3451	2	2	2	3	2	3	20/09/2023	ECE	4

242023	GE3451	2	3	2	3	3	3	20/09/2023	ECE	4
242024	GE3451	3	3	3	3	2	2	20/09/2023	ECE	4
242025	GE3451	2	3	3	3	2	2	20/09/2023	ECE	4
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242035	GE3451	2	2	3	3	3	2	20/09/2023	ECE	4
242036	GE3451	3	2	2	3	2	2	20/09/2023	ECE	4
242037	GE3451	3	2	2	3	2	2	20/09/2023	ECE	4
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242040	GE3451	3	3	3	2	2	2	20/09/2023	ECE	4
242041	GE3451	3	2	2	3	2	2	20/09/2023	ECE	4
242042	GE3451	2	2	2	3	3	3	20/09/2023	ECE	4
242043	GE3451	2	2	2	3	3	3	20/09/2023	ECE	4
242044	GE3451	3	2	2	2	3	2	20/09/2023	ECE	4
242045	GE3451	2	2	3	3	3	2	20/09/2023	ECE	4
242046	GE3451	3	2	2	2	2	3	20/09/2023	ECE	4
242047	GE3451	3	3	3	3	2	2	20/09/2023	ECE	4
242048	GE3451	3	3	2	3	3	2	20/09/2023	ECE	4
242049	GE3451	3	2	2	2	2	3	20/09/2023	ECE	4
242050	GE3451	3	3	2	2	3	2	20/09/2023	ECE	4
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242053	GE3451	2	3	2	3	3	2	20/09/2023	ECE	4
242054	GE3451	2	2	2	3	2	2	20/09/2023	ECE	4
242055	GE3451	3	2	2	3	2	2	20/09/2023	ECE	4
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242059	GE3451	2	2	2	2	3	3	20/09/2023	ECE	4
242062	GE3451	3	2	2	3	2	3	20/09/2023	ECE	4
242063	GE3451	3	2	3	2	2	2	20/09/2023	ECE	4
242064	GE3451	3	3	3	2	2	3	20/09/2023	ECE	4
242065	GE3451	3	2	2	3	3	3	20/09/2023	ECE	4
242066	GE3451	2	2	3	3	3	2	20/09/2023	ECE	4
242067	GE3451	3	2	3	2	2	3	20/09/2023	ECE	4

242068	GE3451	3	3	2	3	2	2	20/09/2023	ECE	4
242069	GE3451	3	3	3	3	2	2	20/09/2023	ECE	4
242070	GE3451	3	2	3	3	3	2	20/09/2023	ECE	4
242071	GE3451	3	3	3	3	3	3	20/09/2023	ECE	4
242072	GE3451	2	2	2	3	2	3	20/09/2023	ECE	4
242073	GE3451	3	2	3	2	3	3	20/09/2023	ECE	4
242074	GE3451	2	2	3	3	2	2	20/09/2023	ECE	4
242075	GE3451	3	2	3	2	2	2	20/09/2023	ECE	4
242076	GE3451	2	3	3	2	3	2	20/09/2023	ECE	4
242077	GE3451	3	3	3	2	2	3	20/09/2023	ECE	4
242078	GE3451	3	3	3	2	3	2	20/09/2023	ECE	4
242079	GE3451	3	2	2	2	2	2	20/09/2023	ECE	4
242080	GE3451	2	2	2	2	3	2	20/09/2023	ECE	4
242081	GE3451	3	2	3	2	3	3	20/09/2023	ECE	4
242082	GE3451	3	2	3	3	3	2	20/09/2023	ECE	4
242083	GE3451	2	2	2	2	2	2	20/09/2023	ECE	4
242084	GE3451	2	2	2	2	3	3	20/09/2023	ECE	4
242085	GE3451	2	2	3	3	2	3	20/09/2023	ECE	4
242086	GE3451	2	2	3	3	3	2	20/09/2023	ECE	4
242087	GE3451	3	2	2	2	2	2	20/09/2023	ECE	4
242088	GE3451	2	2	2	3	3	2	20/09/2023	ECE	4
242089	GE3451	2	2	3	2	2	2	20/09/2023	ECE	4
242090	GE3451	2	2	3	2	3	2	20/09/2023	ECE	4
242091	GE3451	3	3	3	3	2	2	20/09/2023	ECE	4
242092	GE3451	2	3	2	2	3	2	20/09/2023	ECE	4
242093	GE3451	2	2	3	2	3	2	20/09/2023	ECE	4
242094	GE3451	2	3	2	3	2	3	20/09/2023	ECE	4
242095	GE3451	2	3	3	2	3	2	20/09/2023	ECE	4
242096	GE3451	2	2	2	3	2	2	20/09/2023	ECE	4
242097	GE3451	2	2	3	2	3	3	20/09/2023	ECE	4
242098	GE3451	3	3	2	2	3	3	20/09/2023	ECE	4
242099	GE3451	3	2	2	3	2	2	20/09/2023	ECE	4
242101	GE3451	2	3	3	3	2	2	20/09/2023	ECE	4
242102	GE3451	3	3	2	3	2	2	20/09/2023	ECE	4
242103	GE3451	3	3	3	2	3	2	20/09/2023	ECE	4
242104	GE3451	3	3	3	3	3	3	20/09/2023	ECE	4
242105	GE3451	3	3	3	2	2	2	20/09/2023	ECE	4
242106	GE3451	3	2	3	3	3	2	20/09/2023	ECE	4
242107	GE3451	3	3	2	2	2	3	20/09/2023	ECE	4
242108	GE3451	3	2	3	2	3	2	20/09/2023	ECE	4
242109	GE3451	2	2	3	3	2	3	20/09/2023	ECE	4

242110	GE3451	3	3	2	2	3	3	20/09/2023	ECE	4
242111	GE3451	2	2	2	3	3	3	20/09/2023	ECE	4
242112	GE3451	3	3	3	3	3	3	20/09/2023	ECE	4
242113	GE3451	2	2	3	2	3	3	20/09/2023	ECE	4
242114	GE3451	2	3	2	3	3	3	20/09/2023	ECE	4
242115	GE3451	2	3	2	3	2	3	20/09/2023	ECE	4
242116	GE3451	3	2	2	2	3	3	20/09/2023	ECE	4
242117	GE3451	3	2	3	2	3	2	20/09/2023	ECE	4
242118	GE3451	2	2	3	3	3	2	20/09/2023	ECE	4
242119	GE3451	3	3	2	2	3	3	20/09/2023	ECE	4
242120	GE3451	2	2	3	2	3	2	20/09/2023	ECE	4
242121	GE3451	2	3	3	3	2	3	20/09/2023	ECE	4
242122	GE3451	3	3	3	3	3	3	20/09/2023	ECE	4
242123	GE3451	2	2	2	3	2	3	20/09/2023	ECE	4
242124	GE3451	2	3	3	2	2	2	20/09/2023	ECE	4
242125	GE3451	2	2	3	3	2	3	20/09/2023	ECE	4
242126	GE3451	3	2	3	2	2	2	20/09/2023	ECE	4
242127	GE3451	2	2	3	2	2	3	20/09/2023	ECE	4
242128	GE3451	2	3	2	3	2	3	20/09/2023	ECE	4
242129	GE3451	2	3	2	3	2	3	20/09/2023	ECE	4
242130	GE3451	2	2	3	3	2	2	20/09/2023	ECE	4
242131	GE3451	2	3	3	3	3	2	20/09/2023	ECE	4
242132	GE3451	3	3	2	3	2	3	20/09/2023	ECE	4
Attained Level		2.53	2.4	2.54	2.53	2.44	2.41			
%		84.33	80.00	84.67	84.33	81.33	80.33			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23EVEN** Semester : **6** Programme: **B.E/B.Tech (ECE)**
Subject Code : **EC8095** NBA Code : **C311** Title **VLSI DESIGN**
Faculty: Dr.M.Santhi / Dr.C.Vennila

Cos	CO Description	Attained Level	%
C311.1	C311.1 Realize the concepts of digital building blocks using MOS transistor	2.6	86.67
C311.2	C311.2 Understand and analyze ideal ,non ideal IV & DC characteristics of MOS transistors. C311.3 Design combinational MOS c	2.54	84.67
C311.3	C311.3 Design combinational MOS circuits and power strategies.	2.49	83.00
C311.4	C311.4 Design and construct Sequential Circuits and Timing systems.	2.47	82.33
C311.5	C311.5 Design arithmetic building blocks and memory subsystems.	2.51	83.67
C311.6	C311.6 Apply and implement FPGA design flow and testing	2.63	87.67

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 108

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
232001	EC8095	3	3	3	3	2	3	20/09/2023	ECE	6
232002	EC8095	2	3	2	2	2	2	20/09/2023	ECE	6
232003	EC8095	3	2	2	2	2	3	20/09/2023	ECE	6
232004	EC8095	2	3	2	2	3	3	20/09/2023	ECE	6
232005	EC8095	3	3	3	3	2	3	20/09/2023	ECE	6
232006	EC8095	3	3	2	3	3	2	20/09/2023	ECE	6
232007	EC8095	3	3	2	3	2	2	20/09/2023	ECE	6
232008	EC8095	3	3	2	3	2	3	20/09/2023	ECE	6
232010	EC8095	2	3	2	2	2	3	20/09/2023	ECE	6
232011	EC8095	3	3	3	2	3	3	20/09/2023	ECE	6
232012	EC8095	2	3	3	3	2	2	20/09/2023	ECE	6
232013	EC8095	2	2	3	2	2	2	20/09/2023	ECE	6
232014	EC8095	3	3	3	3	2	2	20/09/2023	ECE	6
232015	EC8095	3	2	3	2	2	3	20/09/2023	ECE	6
232016	EC8095	2	3	3	3	2	3	20/09/2023	ECE	6
232017	EC8095	3	2	3	2	3	2	20/09/2023	ECE	6
232018	EC8095	2	2	2	2	2	3	20/09/2023	ECE	6
232019	EC8095	3	2	3	2	3	3	20/09/2023	ECE	6
232020	EC8095	3	3	3	2	3	3	20/09/2023	ECE	6
232021	EC8095	2	3	3	2	3	2	20/09/2023	ECE	6
232022	EC8095	3	2	3	3	2	3	20/09/2023	ECE	6
232023	EC8095	2	2	3	2	3	2	20/09/2023	ECE	6
232024	EC8095	3	3	2	2	2	3	20/09/2023	ECE	6
232025	EC8095	2	2	2	2	2	3	20/09/2023	ECE	6

232026	EC8095	3	2	2	2	3	2	20/09/2023	ECE	6
232027	EC8095	2	2	2	2	3	2	20/09/2023	ECE	6
232028	EC8095	3	2	2	3	2	3	20/09/2023	ECE	6
232029	EC8095	3	3	2	2	3	3	20/09/2023	ECE	6
232030	EC8095	3	2	2	2	3	3	20/09/2023	ECE	6
232031	EC8095	3	2	2	3	2	3	20/09/2023	ECE	6
232032	EC8095	2	3	2	2	2	3	20/09/2023	ECE	6
232033	EC8095	3	2	3	2	3	2	20/09/2023	ECE	6
232034	EC8095	3	3	3	3	3	3	20/09/2023	ECE	6
232036	EC8095	2	2	2	2	3	2	20/09/2023	ECE	6
232037	EC8095	2	2	2	3	3	3	20/09/2023	ECE	6
232038	EC8095	2	3	3	2	2	2	20/09/2023	ECE	6
232039	EC8095	3	3	3	2	3	2	20/09/2023	ECE	6
232040	EC8095	3	3	2	3	3	3	20/09/2023	ECE	6
232041	EC8095	3	2	3	3	3	3	20/09/2023	ECE	6
232042	EC8095	2	3	3	2	2	2	20/09/2023	ECE	6
232043	EC8095	3	3	2	3	3	3	20/09/2023	ECE	6
232044	EC8095	2	2	2	3	3	2	20/09/2023	ECE	6
232045	EC8095	2	2	3	2	3	3	20/09/2023	ECE	6
232046	EC8095	2	3	2	3	3	3	20/09/2023	ECE	6
232047	EC8095	3	2	2	2	3	2	20/09/2023	ECE	6
232048	EC8095	2	2	2	2	3	2	20/09/2023	ECE	6
232049	EC8095	2	2	2	2	3	3	20/09/2023	ECE	6
232050	EC8095	3	3	3	3	3	3	20/09/2023	ECE	6
232051	EC8095	2	2	3	2	2	3	20/09/2023	ECE	6
232052	EC8095	3	2	2	2	2	3	20/09/2023	ECE	6
232053	EC8095	2	3	3	3	3	3	20/09/2023	ECE	6
232054	EC8095	3	2	3	2	3	3	20/09/2023	ECE	6
232055	EC8095	3	3	3	2	3	2	20/09/2023	ECE	6
232056	EC8095	2	2	3	3	3	3	20/09/2023	ECE	6
232058	EC8095	3	3	2	2	2	2	20/09/2023	ECE	6
232059	EC8095	3	3	2	3	3	3	20/09/2023	ECE	6
232060	EC8095	2	2	3	3	3	3	20/09/2023	ECE	6
232061	EC8095	2	2	2	3	3	3	20/09/2023	ECE	6
232062	EC8095	2	3	2	3	2	3	20/09/2023	ECE	6
232063	EC8095	2	3	3	3	2	2	20/09/2023	ECE	6
232064	EC8095	3	3	3	2	3	3	20/09/2023	ECE	6
232065	EC8095	2	3	2	2	2	3	20/09/2023	ECE	6
232066	EC8095	3	2	3	3	2	3	20/09/2023	ECE	6
232067	EC8095	3	3	2	3	2	2	20/09/2023	ECE	6
232068	EC8095	3	3	2	3	2	2	20/09/2023	ECE	6

232070	EC8095	3	2	3	2	3	2	20/09/2023	ECE	6
232071	EC8095	2	3	2	2	2	3	20/09/2023	ECE	6
232072	EC8095	3	3	2	2	2	3	20/09/2023	ECE	6
232073	EC8095	2	3	2	3	2	2	20/09/2023	ECE	6
232074	EC8095	3	3	2	2	3	2	20/09/2023	ECE	6
232075	EC8095	3	2	3	3	3	3	20/09/2023	ECE	6
232076	EC8095	2	2	2	3	3	2	20/09/2023	ECE	6
232077	EC8095	3	3	3	2	2	3	20/09/2023	ECE	6
232078	EC8095	2	3	3	3	2	2	20/09/2023	ECE	6
232079	EC8095	3	2	2	2	2	2	20/09/2023	ECE	6
232080	EC8095	2	2	2	2	2	3	20/09/2023	ECE	6
232081	EC8095	3	3	3	3	3	2	20/09/2023	ECE	6
232082	EC8095	3	2	2	3	3	3	20/09/2023	ECE	6
232083	EC8095	2	3	3	3	2	3	20/09/2023	ECE	6
232084	EC8095	3	3	3	2	2	3	20/09/2023	ECE	6
232085	EC8095	3	2	3	3	3	3	20/09/2023	ECE	6
232086	EC8095	3	2	3	3	2	3	20/09/2023	ECE	6
232087	EC8095	3	3	3	2	2	3	20/09/2023	ECE	6
232088	EC8095	2	2	3	2	3	3	20/09/2023	ECE	6
232089	EC8095	2	2	2	3	3	3	20/09/2023	ECE	6
232090	EC8095	3	2	2	2	3	2	20/09/2023	ECE	6
232091	EC8095	3	2	3	3	2	3	20/09/2023	ECE	6
232092	EC8095	3	3	2	3	3	3	20/09/2023	ECE	6
232093	EC8095	3	2	3	2	3	2	20/09/2023	ECE	6
232094	EC8095	3	3	2	3	2	3	20/09/2023	ECE	6
232095	EC8095	3	2	3	3	2	3	20/09/2023	ECE	6
232096	EC8095	2	3	3	2	3	3	20/09/2023	ECE	6
232097	EC8095	3	2	2	2	3	3	20/09/2023	ECE	6
232098	EC8095	3	3	2	2	2	2	20/09/2023	ECE	6
232099	EC8095	3	3	2	3	2	2	20/09/2023	ECE	6
232100	EC8095	2	3	2	2	3	3	20/09/2023	ECE	6
232101	EC8095	3	3	3	2	2	3	20/09/2023	ECE	6
232102	EC8095	3	3	2	2	2	3	20/09/2023	ECE	6
232103	EC8095	3	3	3	3	3	3	20/09/2023	ECE	6
232104	EC8095	3	2	3	3	2	2	20/09/2023	ECE	6
232105	EC8095	3	2	2	2	3	3	20/09/2023	ECE	6
232106	EC8095	2	3	3	3	2	2	20/09/2023	ECE	6
232107	EC8095	2	2	2	3	2	3	20/09/2023	ECE	6
232108	EC8095	3	3	2	3	2	3	20/09/2023	ECE	6
232109	EC8095	3	2	3	2	2	3	20/09/2023	ECE	6
232110	EC8095	2	3	3	2	3	2	20/09/2023	ECE	6

232111	EC8095	3	3	3	3	3	2	20/09/2023	ECE	6
232112	EC8095	2	2	2	3	3	2	20/09/2023	ECE	6
Attained Level		2.6	2.54	2.49	2.47	2.51	2.63			
%		86.67	84.67	83.00	82.33	83.67	87.67			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23EVEN** Semester : **6** Programme: **B.E/B.Tech (ECE)**
Subject Code : **EC8651** NBA Code : **C314** Title **TRANSMISSION LINES AND RF SYSTEMS**
Faculty: Dr.M.Baritha Begum / Dr.P.Shanmugapriya

Cos	CO Description	Attained Level	%
C314.1	Explain the characteristics of transmission lines and its losses	2.47	82.33
C314.2	Write about the standing wave ratio and input impedance in high frequency transmission lines	2.53	84.33
C314.3	Analyze impedance matching by stubs using smith charts	2.59	86.33
C314.4	Analyze the characteristics of TE and TM waves	2.5	83.33
C314.5	Design a RF transceiver system for wireless communication	2.49	83.00
C314.6	Analyze the characteristics of RF system using Smith chart	2.56	85.33

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 108

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
232001	EC8651	3	2	2	2	2	3	20/09/2023	ECE	6
232002	EC8651	2	2	2	3	2	3	20/09/2023	ECE	6
232003	EC8651	2	3	3	3	3	3	20/09/2023	ECE	6
232004	EC8651	2	3	3	3	2	3	20/09/2023	ECE	6
232005	EC8651	3	3	3	3	2	2	20/09/2023	ECE	6
232006	EC8651	2	2	2	2	3	3	20/09/2023	ECE	6
232007	EC8651	3	2	3	2	2	3	20/09/2023	ECE	6
232008	EC8651	2	3	3	3	2	3	20/09/2023	ECE	6
232010	EC8651	2	2	2	3	3	3	20/09/2023	ECE	6
232011	EC8651	2	2	3	3	2	3	20/09/2023	ECE	6
232012	EC8651	2	2	2	2	3	3	20/09/2023	ECE	6
232013	EC8651	3	3	2	2	2	3	20/09/2023	ECE	6
232014	EC8651	2	2	3	2	2	2	20/09/2023	ECE	6
232015	EC8651	2	2	3	2	3	3	20/09/2023	ECE	6
232016	EC8651	3	2	3	3	2	3	20/09/2023	ECE	6
232017	EC8651	2	3	3	3	3	3	20/09/2023	ECE	6
232018	EC8651	3	3	3	3	2	2	20/09/2023	ECE	6
232019	EC8651	2	3	2	2	3	3	20/09/2023	ECE	6
232020	EC8651	3	2	3	2	3	3	20/09/2023	ECE	6
232021	EC8651	2	2	3	2	2	2	20/09/2023	ECE	6
232022	EC8651	3	3	3	3	2	3	20/09/2023	ECE	6
232023	EC8651	3	2	3	3	2	2	20/09/2023	ECE	6
232024	EC8651	3	3	3	2	2	2	20/09/2023	ECE	6
232025	EC8651	2	3	3	2	2	3	20/09/2023	ECE	6

232026	EC8651	3	3	2	2	3	3	20/09/2023	ECE	6
232027	EC8651	2	3	3	2	3	2	20/09/2023	ECE	6
232028	EC8651	2	2	2	2	3	2	20/09/2023	ECE	6
232029	EC8651	3	3	2	2	3	2	20/09/2023	ECE	6
232030	EC8651	2	3	2	2	2	2	20/09/2023	ECE	6
232031	EC8651	3	2	3	3	2	2	20/09/2023	ECE	6
232032	EC8651	3	3	3	3	3	3	20/09/2023	ECE	6
232033	EC8651	3	2	3	2	3	2	20/09/2023	ECE	6
232034	EC8651	2	2	3	3	3	3	20/09/2023	ECE	6
232036	EC8651	2	3	2	2	3	2	20/09/2023	ECE	6
232037	EC8651	3	3	2	2	3	2	20/09/2023	ECE	6
232038	EC8651	3	3	3	2	3	3	20/09/2023	ECE	6
232039	EC8651	3	2	3	2	3	2	20/09/2023	ECE	6
232040	EC8651	2	3	3	3	2	3	20/09/2023	ECE	6
232041	EC8651	2	2	2	3	3	2	20/09/2023	ECE	6
232042	EC8651	3	2	3	3	3	3	20/09/2023	ECE	6
232043	EC8651	3	2	2	3	2	2	20/09/2023	ECE	6
232044	EC8651	3	2	2	3	2	2	20/09/2023	ECE	6
232045	EC8651	3	2	3	2	3	2	20/09/2023	ECE	6
232046	EC8651	2	3	2	2	2	2	20/09/2023	ECE	6
232047	EC8651	2	2	2	2	3	3	20/09/2023	ECE	6
232048	EC8651	2	3	3	3	3	3	20/09/2023	ECE	6
232049	EC8651	2	3	2	3	2	2	20/09/2023	ECE	6
232050	EC8651	3	3	3	3	2	2	20/09/2023	ECE	6
232051	EC8651	2	3	2	3	2	3	20/09/2023	ECE	6
232052	EC8651	3	3	3	3	2	2	20/09/2023	ECE	6
232053	EC8651	2	2	3	3	2	3	20/09/2023	ECE	6
232054	EC8651	3	3	2	2	3	3	20/09/2023	ECE	6
232055	EC8651	3	2	2	2	3	2	20/09/2023	ECE	6
232056	EC8651	3	3	2	3	2	2	20/09/2023	ECE	6
232058	EC8651	2	3	3	3	3	3	20/09/2023	ECE	6
232059	EC8651	2	3	3	2	3	3	20/09/2023	ECE	6
232060	EC8651	3	2	3	3	2	3	20/09/2023	ECE	6
232061	EC8651	3	3	2	2	2	3	20/09/2023	ECE	6
232062	EC8651	3	2	2	3	2	2	20/09/2023	ECE	6
232063	EC8651	2	2	2	2	3	2	20/09/2023	ECE	6
232064	EC8651	2	3	3	3	3	3	20/09/2023	ECE	6
232065	EC8651	3	2	2	3	2	3	20/09/2023	ECE	6
232066	EC8651	2	3	3	3	3	3	20/09/2023	ECE	6
232067	EC8651	2	2	3	2	3	2	20/09/2023	ECE	6
232068	EC8651	3	2	3	2	3	3	20/09/2023	ECE	6

232070	EC8651	3	3	3	2	3	2	20/09/2023	ECE	6
232071	EC8651	3	2	2	3	3	2	20/09/2023	ECE	6
232072	EC8651	3	3	3	3	3	2	20/09/2023	ECE	6
232073	EC8651	3	2	2	2	2	3	20/09/2023	ECE	6
232074	EC8651	2	2	3	2	2	2	20/09/2023	ECE	6
232075	EC8651	2	3	2	3	3	3	20/09/2023	ECE	6
232076	EC8651	2	3	2	3	3	3	20/09/2023	ECE	6
232077	EC8651	2	3	3	3	2	2	20/09/2023	ECE	6
232078	EC8651	2	3	3	2	2	3	20/09/2023	ECE	6
232079	EC8651	2	2	3	2	2	3	20/09/2023	ECE	6
232080	EC8651	3	2	2	3	2	3	20/09/2023	ECE	6
232081	EC8651	3	3	3	3	3	2	20/09/2023	ECE	6
232082	EC8651	3	3	3	2	3	2	20/09/2023	ECE	6
232083	EC8651	3	3	3	2	2	3	20/09/2023	ECE	6
232084	EC8651	2	3	3	2	2	2	20/09/2023	ECE	6
232085	EC8651	2	2	2	2	2	3	20/09/2023	ECE	6
232086	EC8651	2	2	3	2	2	3	20/09/2023	ECE	6
232087	EC8651	3	2	2	2	2	2	20/09/2023	ECE	6
232088	EC8651	2	2	3	3	3	3	20/09/2023	ECE	6
232089	EC8651	2	2	3	3	3	2	20/09/2023	ECE	6
232090	EC8651	3	2	3	3	3	2	20/09/2023	ECE	6
232091	EC8651	2	2	3	2	2	2	20/09/2023	ECE	6
232092	EC8651	2	2	3	3	3	3	20/09/2023	ECE	6
232093	EC8651	3	3	3	3	3	3	20/09/2023	ECE	6
232094	EC8651	2	3	2	3	2	2	20/09/2023	ECE	6
232095	EC8651	2	3	2	2	2	2	20/09/2023	ECE	6
232096	EC8651	3	3	2	2	3	3	20/09/2023	ECE	6
232097	EC8651	3	2	3	3	3	2	20/09/2023	ECE	6
232098	EC8651	3	2	3	2	3	3	20/09/2023	ECE	6
232099	EC8651	2	3	3	2	2	3	20/09/2023	ECE	6
232100	EC8651	2	2	3	2	3	3	20/09/2023	ECE	6
232101	EC8651	2	3	2	2	2	3	20/09/2023	ECE	6
232102	EC8651	2	3	2	2	3	2	20/09/2023	ECE	6
232103	EC8651	3	3	3	2	2	3	20/09/2023	ECE	6
232104	EC8651	2	2	3	2	2	3	20/09/2023	ECE	6
232105	EC8651	3	2	2	3	3	2	20/09/2023	ECE	6
232106	EC8651	2	3	2	3	3	3	20/09/2023	ECE	6
232107	EC8651	2	3	2	3	2	3	20/09/2023	ECE	6
232108	EC8651	2	2	3	2	2	2	20/09/2023	ECE	6
232109	EC8651	3	3	2	3	2	3	20/09/2023	ECE	6
232110	EC8651	3	3	3	3	3	2	20/09/2023	ECE	6

232111	EC8651	2	3	3	3	2	2	20/09/2023	ECE	6
232112	EC8651	3	3	2	3	2	3	20/09/2023	ECE	6
Attained Level		2.47	2.53	2.59	2.5	2.49	2.56			
%		82.33	84.33	86.33	83.33	83.00	85.33			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23EVEN** Semester : **6** Programme: **B.E/B.Tech (ECE)**
Subject Code : **EC8652** NBA Code : **C312** Title **WIRELESS COMMUNICATION**
Faculty: Dr.N.Preethi Elizabeth / Ms.S.Kiruthiga

Cos	CO Description	Attained Level	%
C312.1	Understand the characteristics of various Wireless Channels.	2.5	83.33
C312.2	Understand the concept of cellular architecture and evaluate grade of service	2.47	82.33
C312.3	Understand and apply various digital signaling schemes on fading channels.	2.51	83.67
C312.4	Evaluate and analyze multi path mitigation techniques.	2.48	82.67
C312.5	Design and create systems with transmit and receive diversity based MIMO systems and analyze their performance.	2.51	83.67
C312.6	Understand the concept of fading and non-fading techniques.	2.59	86.33

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 108

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
232001	EC8652	2	3	3	2	2	2	20/09/2023	ECE	6
232002	EC8652	3	2	2	2	3	3	20/09/2023	ECE	6
232003	EC8652	3	2	2	3	2	2	20/09/2023	ECE	6
232004	EC8652	2	3	3	3	2	2	20/09/2023	ECE	6
232005	EC8652	3	3	2	3	3	2	20/09/2023	ECE	6
232006	EC8652	3	3	3	2	3	3	20/09/2023	ECE	6
232007	EC8652	2	2	2	2	2	2	20/09/2023	ECE	6
232008	EC8652	2	2	2	2	3	3	20/09/2023	ECE	6
232010	EC8652	3	2	3	2	3	3	20/09/2023	ECE	6
232011	EC8652	3	3	2	3	3	3	20/09/2023	ECE	6
232012	EC8652	2	3	3	3	2	3	20/09/2023	ECE	6
232013	EC8652	3	2	3	2	3	2	20/09/2023	ECE	6
232014	EC8652	3	3	3	3	2	3	20/09/2023	ECE	6
232015	EC8652	3	2	2	2	3	2	20/09/2023	ECE	6
232016	EC8652	3	3	2	2	2	3	20/09/2023	ECE	6
232017	EC8652	3	3	2	3	2	3	20/09/2023	ECE	6
232018	EC8652	3	3	2	3	3	2	20/09/2023	ECE	6
232019	EC8652	2	2	2	2	2	3	20/09/2023	ECE	6
232020	EC8652	2	3	2	3	3	3	20/09/2023	ECE	6
232021	EC8652	2	2	2	2	2	3	20/09/2023	ECE	6
232022	EC8652	2	2	3	3	2	3	20/09/2023	ECE	6
232023	EC8652	3	3	3	2	3	3	20/09/2023	ECE	6
232024	EC8652	2	2	3	2	2	2	20/09/2023	ECE	6
232025	EC8652	2	2	3	2	3	2	20/09/2023	ECE	6

232026	EC8652	2	3	3	3	2	2	20/09/2023	ECE	6
232027	EC8652	2	2	3	2	3	2	20/09/2023	ECE	6
232028	EC8652	3	2	3	2	3	2	20/09/2023	ECE	6
232029	EC8652	2	3	3	3	3	3	20/09/2023	ECE	6
232030	EC8652	3	2	3	2	2	3	20/09/2023	ECE	6
232031	EC8652	2	3	3	3	3	3	20/09/2023	ECE	6
232032	EC8652	2	2	2	2	3	3	20/09/2023	ECE	6
232033	EC8652	3	2	2	3	2	3	20/09/2023	ECE	6
232034	EC8652	3	2	3	2	3	3	20/09/2023	ECE	6
232036	EC8652	2	3	3	3	2	3	20/09/2023	ECE	6
232037	EC8652	2	2	3	2	3	3	20/09/2023	ECE	6
232038	EC8652	3	2	2	3	2	3	20/09/2023	ECE	6
232039	EC8652	2	3	2	3	3	2	20/09/2023	ECE	6
232040	EC8652	3	2	3	3	2	2	20/09/2023	ECE	6
232041	EC8652	2	2	2	3	3	3	20/09/2023	ECE	6
232042	EC8652	2	3	2	3	3	3	20/09/2023	ECE	6
232043	EC8652	3	2	3	2	3	3	20/09/2023	ECE	6
232044	EC8652	2	3	2	2	3	2	20/09/2023	ECE	6
232045	EC8652	3	3	2	3	3	2	20/09/2023	ECE	6
232046	EC8652	3	3	2	2	2	2	20/09/2023	ECE	6
232047	EC8652	2	2	3	2	3	3	20/09/2023	ECE	6
232048	EC8652	2	3	2	2	2	2	20/09/2023	ECE	6
232049	EC8652	3	2	2	2	3	2	20/09/2023	ECE	6
232050	EC8652	3	2	2	2	2	2	20/09/2023	ECE	6
232051	EC8652	2	2	2	3	2	3	20/09/2023	ECE	6
232052	EC8652	2	2	3	2	3	2	20/09/2023	ECE	6
232053	EC8652	3	3	3	3	2	3	20/09/2023	ECE	6
232054	EC8652	3	3	3	2	3	3	20/09/2023	ECE	6
232055	EC8652	3	2	2	3	2	2	20/09/2023	ECE	6
232056	EC8652	2	3	2	2	3	3	20/09/2023	ECE	6
232058	EC8652	3	3	3	3	3	3	20/09/2023	ECE	6
232059	EC8652	2	3	3	2	2	3	20/09/2023	ECE	6
232060	EC8652	3	2	2	2	2	3	20/09/2023	ECE	6
232061	EC8652	2	2	3	2	2	3	20/09/2023	ECE	6
232062	EC8652	2	2	2	2	2	3	20/09/2023	ECE	6
232063	EC8652	2	3	2	2	2	3	20/09/2023	ECE	6
232064	EC8652	2	3	3	3	2	3	20/09/2023	ECE	6
232065	EC8652	3	3	3	3	3	3	20/09/2023	ECE	6
232066	EC8652	3	3	2	3	3	2	20/09/2023	ECE	6
232067	EC8652	2	3	2	2	2	3	20/09/2023	ECE	6
232068	EC8652	2	2	2	2	2	3	20/09/2023	ECE	6

232070	EC8652	3	3	2	2	2	3	20/09/2023	ECE	6
232071	EC8652	3	2	3	2	3	2	20/09/2023	ECE	6
232072	EC8652	2	2	2	2	2	3	20/09/2023	ECE	6
232073	EC8652	3	3	2	3	2	3	20/09/2023	ECE	6
232074	EC8652	3	3	2	2	2	3	20/09/2023	ECE	6
232075	EC8652	3	2	3	3	3	3	20/09/2023	ECE	6
232076	EC8652	3	3	3	3	2	2	20/09/2023	ECE	6
232077	EC8652	2	3	3	2	2	3	20/09/2023	ECE	6
232078	EC8652	3	2	2	3	3	2	20/09/2023	ECE	6
232079	EC8652	3	3	2	2	3	2	20/09/2023	ECE	6
232080	EC8652	2	2	3	2	3	3	20/09/2023	ECE	6
232081	EC8652	2	2	3	3	2	3	20/09/2023	ECE	6
232082	EC8652	2	2	2	2	3	3	20/09/2023	ECE	6
232083	EC8652	2	3	3	2	2	2	20/09/2023	ECE	6
232084	EC8652	3	2	3	3	3	2	20/09/2023	ECE	6
232085	EC8652	2	3	3	2	2	2	20/09/2023	ECE	6
232086	EC8652	2	2	3	3	2	3	20/09/2023	ECE	6
232087	EC8652	2	2	2	3	2	3	20/09/2023	ECE	6
232088	EC8652	2	2	3	2	3	3	20/09/2023	ECE	6
232089	EC8652	2	2	2	2	2	3	20/09/2023	ECE	6
232090	EC8652	2	2	3	2	2	2	20/09/2023	ECE	6
232091	EC8652	3	3	2	2	3	2	20/09/2023	ECE	6
232092	EC8652	2	3	2	3	3	2	20/09/2023	ECE	6
232093	EC8652	2	2	2	3	2	2	20/09/2023	ECE	6
232094	EC8652	3	3	2	2	3	2	20/09/2023	ECE	6
232095	EC8652	3	2	3	3	3	3	20/09/2023	ECE	6
232096	EC8652	3	2	2	3	3	3	20/09/2023	ECE	6
232097	EC8652	2	2	3	3	3	3	20/09/2023	ECE	6
232098	EC8652	3	2	2	3	2	2	20/09/2023	ECE	6
232099	EC8652	3	3	3	3	3	2	20/09/2023	ECE	6
232100	EC8652	2	3	3	2	2	3	20/09/2023	ECE	6
232101	EC8652	3	2	2	2	2	3	20/09/2023	ECE	6
232102	EC8652	3	2	3	3	2	3	20/09/2023	ECE	6
232103	EC8652	3	3	3	2	3	3	20/09/2023	ECE	6
232104	EC8652	3	3	2	2	3	2	20/09/2023	ECE	6
232105	EC8652	3	2	2	3	3	2	20/09/2023	ECE	6
232106	EC8652	2	2	3	3	2	2	20/09/2023	ECE	6
232107	EC8652	2	3	3	3	3	2	20/09/2023	ECE	6
232108	EC8652	2	3	3	3	2	2	20/09/2023	ECE	6
232109	EC8652	2	2	3	3	3	3	20/09/2023	ECE	6
232110	EC8652	3	2	3	3	3	2	20/09/2023	ECE	6

232111	EC8652	3	3	2	3	2	3	20/09/2023	ECE	6
232112	EC8652	3	3	3	3	3	3	20/09/2023	ECE	6
Attained Level		2.5	2.47	2.51	2.48	2.51	2.59			
%		83.33	82.33	83.67	82.67	83.67	86.33			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23EVEN** Semester : **6** Programme: **B.E/B.Tech (ECE)**
Subject Code : **EC8661** NBA Code : **C317** Title **VLSI DESIGN LABORATORY**
Faculty: Ms.J.Eindhumathy / Dr.C.Vennila

Cos	CO Description	Attained Level	%
C317.1	Apply HDL code for basic as well as advanced digital integrated circuits.	2.48	82.67
C317.2	Synthesize Place and Route the digital IPs.	2.46	82.00
C317.3	Import the logic modules into FPGA Boards.	2.42	80.67
C317.4	Design different analog hardware circuits using front and back end tool	2.5	83.33
C317.5	Simulate to test the correctness of the circuit using suitable tool & Extract the layouts of Analog IC Blocks	2.56	85.33
C317.6	Developed hands on design experience with professional design (EDA) Platforms	2.5	83.33

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 108

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
232001	EC8661	2	2	3	2	3	3	20/09/2023	ECE	6
232002	EC8661	3	2	2	3	3	3	20/09/2023	ECE	6
232003	EC8661	2	2	2	3	3	3	20/09/2023	ECE	6
232004	EC8661	3	3	3	2	2	3	20/09/2023	ECE	6
232005	EC8661	2	3	3	3	2	3	20/09/2023	ECE	6
232006	EC8661	2	2	3	2	3	3	20/09/2023	ECE	6
232007	EC8661	2	2	2	2	3	3	20/09/2023	ECE	6
232008	EC8661	2	3	3	2	3	3	20/09/2023	ECE	6
232010	EC8661	2	3	3	3	3	2	20/09/2023	ECE	6
232011	EC8661	2	3	2	2	2	2	20/09/2023	ECE	6
232012	EC8661	2	2	2	3	3	2	20/09/2023	ECE	6
232013	EC8661	3	2	3	2	3	3	20/09/2023	ECE	6
232014	EC8661	2	2	2	3	2	2	20/09/2023	ECE	6
232015	EC8661	3	3	2	2	3	3	20/09/2023	ECE	6
232016	EC8661	2	3	2	3	3	3	20/09/2023	ECE	6
232017	EC8661	3	2	3	2	2	2	20/09/2023	ECE	6
232018	EC8661	3	2	2	3	2	3	20/09/2023	ECE	6
232019	EC8661	3	2	2	3	3	2	20/09/2023	ECE	6
232020	EC8661	2	2	3	3	3	2	20/09/2023	ECE	6
232021	EC8661	2	3	2	2	3	3	20/09/2023	ECE	6
232022	EC8661	2	2	2	2	2	2	20/09/2023	ECE	6
232023	EC8661	3	3	2	3	2	3	20/09/2023	ECE	6
232024	EC8661	3	2	3	3	2	3	20/09/2023	ECE	6

232025	EC8661	3	2	3	2	2	3	20/09/2023	ECE	6
232026	EC8661	2	3	2	2	3	3	20/09/2023	ECE	6
232027	EC8661	3	2	2	2	2	2	20/09/2023	ECE	6
232028	EC8661	3	3	2	2	3	3	20/09/2023	ECE	6
232029	EC8661	3	2	3	3	3	3	20/09/2023	ECE	6
232030	EC8661	2	2	2	2	3	2	20/09/2023	ECE	6
232031	EC8661	2	2	2	2	2	2	20/09/2023	ECE	6
232032	EC8661	2	2	3	3	2	2	20/09/2023	ECE	6
232033	EC8661	2	2	2	2	3	2	20/09/2023	ECE	6
232034	EC8661	3	3	3	2	2	3	20/09/2023	ECE	6
232036	EC8661	2	2	2	3	2	3	20/09/2023	ECE	6
232037	EC8661	2	3	2	3	3	2	20/09/2023	ECE	6
232038	EC8661	3	2	3	2	2	3	20/09/2023	ECE	6
232039	EC8661	2	2	2	3	3	2	20/09/2023	ECE	6
232040	EC8661	2	3	2	3	2	2	20/09/2023	ECE	6
232041	EC8661	2	2	2	2	3	2	20/09/2023	ECE	6
232042	EC8661	2	3	2	3	3	2	20/09/2023	ECE	6
232043	EC8661	3	3	3	3	2	3	20/09/2023	ECE	6
232044	EC8661	3	2	2	2	3	2	20/09/2023	ECE	6
232045	EC8661	3	2	3	3	3	3	20/09/2023	ECE	6
232046	EC8661	2	2	2	2	3	2	20/09/2023	ECE	6
232047	EC8661	2	2	3	2	2	3	20/09/2023	ECE	6
232048	EC8661	2	3	3	3	3	3	20/09/2023	ECE	6
232049	EC8661	2	3	2	3	3	3	20/09/2023	ECE	6
232050	EC8661	3	2	3	2	2	3	20/09/2023	ECE	6
232051	EC8661	2	3	3	2	3	2	20/09/2023	ECE	6
232052	EC8661	3	2	2	2	2	3	20/09/2023	ECE	6
232053	EC8661	3	3	3	3	3	3	20/09/2023	ECE	6
232054	EC8661	2	2	3	2	3	2	20/09/2023	ECE	6
232055	EC8661	3	3	3	3	3	2	20/09/2023	ECE	6
232056	EC8661	3	3	2	2	2	3	20/09/2023	ECE	6
232058	EC8661	2	2	2	2	3	2	20/09/2023	ECE	6
232059	EC8661	3	3	2	3	3	2	20/09/2023	ECE	6
232060	EC8661	2	3	2	2	2	3	20/09/2023	ECE	6
232061	EC8661	3	3	3	2	3	3	20/09/2023	ECE	6
232062	EC8661	2	3	3	2	3	3	20/09/2023	ECE	6
232063	EC8661	3	2	2	3	2	2	20/09/2023	ECE	6
232064	EC8661	3	3	2	3	3	2	20/09/2023	ECE	6
232065	EC8661	2	2	2	2	3	3	20/09/2023	ECE	6
232066	EC8661	3	3	2	2	2	2	20/09/2023	ECE	6
232067	EC8661	2	2	3	2	2	2	20/09/2023	ECE	6

232068	EC8661	2	3	2	2	2	2	20/09/2023	ECE	6
232070	EC8661	3	3	2	2	2	2	20/09/2023	ECE	6
232071	EC8661	2	3	2	2	3	3	20/09/2023	ECE	6
232072	EC8661	3	3	2	3	2	2	20/09/2023	ECE	6
232073	EC8661	3	3	2	3	3	3	20/09/2023	ECE	6
232074	EC8661	3	2	2	2	3	2	20/09/2023	ECE	6
232075	EC8661	3	3	3	3	2	2	20/09/2023	ECE	6
232076	EC8661	3	2	3	2	2	2	20/09/2023	ECE	6
232077	EC8661	3	2	3	3	3	3	20/09/2023	ECE	6
232078	EC8661	3	2	3	2	3	2	20/09/2023	ECE	6
232079	EC8661	2	3	3	2	2	2	20/09/2023	ECE	6
232080	EC8661	3	2	3	2	2	3	20/09/2023	ECE	6
232081	EC8661	3	3	2	2	2	2	20/09/2023	ECE	6
232082	EC8661	3	2	2	3	2	3	20/09/2023	ECE	6
232083	EC8661	2	3	2	3	3	2	20/09/2023	ECE	6
232084	EC8661	3	2	2	2	2	2	20/09/2023	ECE	6
232085	EC8661	3	2	2	2	2	2	20/09/2023	ECE	6
232086	EC8661	2	3	2	3	3	2	20/09/2023	ECE	6
232087	EC8661	2	2	2	3	2	2	20/09/2023	ECE	6
232088	EC8661	2	3	3	3	3	3	20/09/2023	ECE	6
232089	EC8661	3	3	3	3	3	3	20/09/2023	ECE	6
232090	EC8661	2	2	3	2	3	2	20/09/2023	ECE	6
232091	EC8661	3	3	2	3	2	2	20/09/2023	ECE	6
232092	EC8661	3	2	3	3	3	3	20/09/2023	ECE	6
232093	EC8661	3	3	2	3	3	3	20/09/2023	ECE	6
232094	EC8661	2	3	3	3	3	2	20/09/2023	ECE	6
232095	EC8661	2	3	2	3	3	3	20/09/2023	ECE	6
232096	EC8661	3	3	3	2	2	2	20/09/2023	ECE	6
232097	EC8661	2	3	3	2	2	3	20/09/2023	ECE	6
232098	EC8661	2	3	2	3	2	3	20/09/2023	ECE	6
232099	EC8661	3	2	3	3	3	3	20/09/2023	ECE	6
232100	EC8661	2	3	2	2	2	2	20/09/2023	ECE	6
232101	EC8661	3	2	2	3	3	2	20/09/2023	ECE	6
232102	EC8661	2	2	2	3	3	3	20/09/2023	ECE	6
232103	EC8661	2	2	2	2	3	2	20/09/2023	ECE	6
232104	EC8661	2	3	2	3	2	2	20/09/2023	ECE	6
232105	EC8661	3	2	3	3	2	3	20/09/2023	ECE	6
232106	EC8661	3	2	2	2	2	2	20/09/2023	ECE	6
232107	EC8661	3	2	3	3	3	3	20/09/2023	ECE	6
232108	EC8661	2	2	3	3	3	3	20/09/2023	ECE	6
232109	EC8661	2	2	3	2	2	3	20/09/2023	ECE	6

232110	EC8661	2	2	2	3	2	2	20/09/2023	ECE	6
232111	EC8661	3	3	2	3	3	3	20/09/2023	ECE	6
232112	EC8661	2	2	2	3	3	2	20/09/2023	ECE	6
Attained Level		2.48	2.46	2.42	2.5	2.56	2.5			
%		82.67	82.00	80.67	83.33	85.33	83.33			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23EVEN** Semester : **6** Programme: **B.E/B.Tech (ECE)**
Subject Code : **EC8681** NBA Code : **C316** Title **MICROPROCESSORS AND MICROCONTROLLERS**
Faculty: Ms.M.Anthuvan Lydia / Dr.K.Malaisamy

Cos	CO Description	Attained Level	%
C316.1	Able to describe the architecture and organization of 8086 microprocessor	2.48	82.67
C316.2	Able to write structured understandable programs in assembly language using 8086	2.49	83.00
C316.3	Understand techniques for interfacing I/O devices to the microprocessor including several specific standard I/O devices	2.57	85.67
C316.4	Student able to describe the architecture, interrupt structure, Timer, counter of 8051 microcontroller	2.51	83.67
C316.5	Student will be able to design of a microcontroller based minimal system for a particular application	2.5	83.33
C316.6	Design of Memory interfacing circuits	2.51	83.67

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 108

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
232001	EC8681	2	2	3	2	3	2	20/09/2023	ECE	6
232002	EC8681	2	2	2	3	3	2	20/09/2023	ECE	6
232003	EC8681	2	3	3	3	3	2	20/09/2023	ECE	6
232004	EC8681	3	2	3	2	2	3	20/09/2023	ECE	6
232005	EC8681	2	2	2	2	2	3	20/09/2023	ECE	6
232006	EC8681	2	3	3	2	3	3	20/09/2023	ECE	6
232007	EC8681	3	2	2	3	2	3	20/09/2023	ECE	6
232008	EC8681	2	2	2	3	2	3	20/09/2023	ECE	6
232010	EC8681	2	3	3	2	2	2	20/09/2023	ECE	6
232011	EC8681	3	2	2	2	2	3	20/09/2023	ECE	6
232012	EC8681	2	3	3	3	3	3	20/09/2023	ECE	6
232013	EC8681	3	2	3	3	2	3	20/09/2023	ECE	6
232014	EC8681	3	3	2	3	2	3	20/09/2023	ECE	6
232015	EC8681	3	2	2	3	2	3	20/09/2023	ECE	6
232016	EC8681	2	2	2	2	3	3	20/09/2023	ECE	6
232017	EC8681	3	2	3	3	2	2	20/09/2023	ECE	6
232018	EC8681	3	3	2	3	2	2	20/09/2023	ECE	6
232019	EC8681	2	3	3	2	2	3	20/09/2023	ECE	6
232020	EC8681	2	3	2	2	2	2	20/09/2023	ECE	6
232021	EC8681	2	2	2	2	3	2	20/09/2023	ECE	6
232022	EC8681	2	3	3	2	3	3	20/09/2023	ECE	6
232023	EC8681	3	3	3	3	3	2	20/09/2023	ECE	6

232024	EC8681	2	2	3	3	2	2	20/09/2023	ECE	6
232025	EC8681	3	2	3	3	2	2	20/09/2023	ECE	6
232026	EC8681	3	3	3	3	3	3	20/09/2023	ECE	6
232027	EC8681	3	2	2	2	2	2	20/09/2023	ECE	6
232028	EC8681	3	2	2	2	2	3	20/09/2023	ECE	6
232029	EC8681	2	3	3	3	3	2	20/09/2023	ECE	6
232030	EC8681	2	2	3	3	3	3	20/09/2023	ECE	6
232031	EC8681	3	2	3	2	3	2	20/09/2023	ECE	6
232032	EC8681	3	3	3	3	3	2	20/09/2023	ECE	6
232033	EC8681	3	3	2	2	2	3	20/09/2023	ECE	6
232034	EC8681	2	3	2	2	2	2	20/09/2023	ECE	6
232036	EC8681	3	2	2	3	2	3	20/09/2023	ECE	6
232037	EC8681	2	2	2	3	2	2	20/09/2023	ECE	6
232038	EC8681	2	3	3	3	3	2	20/09/2023	ECE	6
232039	EC8681	2	3	3	2	3	3	20/09/2023	ECE	6
232040	EC8681	3	2	3	3	3	2	20/09/2023	ECE	6
232041	EC8681	2	3	2	2	3	3	20/09/2023	ECE	6
232042	EC8681	2	3	2	3	3	3	20/09/2023	ECE	6
232043	EC8681	3	3	3	2	2	2	20/09/2023	ECE	6
232044	EC8681	3	3	2	3	3	3	20/09/2023	ECE	6
232045	EC8681	3	3	2	3	3	3	20/09/2023	ECE	6
232046	EC8681	3	2	2	2	2	2	20/09/2023	ECE	6
232047	EC8681	2	2	3	2	3	2	20/09/2023	ECE	6
232048	EC8681	3	3	3	2	2	3	20/09/2023	ECE	6
232049	EC8681	3	2	3	2	3	3	20/09/2023	ECE	6
232050	EC8681	2	2	3	2	3	2	20/09/2023	ECE	6
232051	EC8681	2	3	3	2	3	3	20/09/2023	ECE	6
232052	EC8681	3	3	2	2	3	2	20/09/2023	ECE	6
232053	EC8681	2	2	2	2	3	2	20/09/2023	ECE	6
232054	EC8681	3	3	2	3	2	3	20/09/2023	ECE	6
232055	EC8681	2	3	3	3	3	2	20/09/2023	ECE	6
232056	EC8681	3	3	2	3	3	2	20/09/2023	ECE	6
232058	EC8681	3	2	3	3	2	2	20/09/2023	ECE	6
232059	EC8681	2	2	3	2	2	3	20/09/2023	ECE	6
232060	EC8681	2	2	2	3	2	3	20/09/2023	ECE	6
232061	EC8681	2	2	3	2	2	3	20/09/2023	ECE	6
232062	EC8681	2	3	3	3	2	3	20/09/2023	ECE	6
232063	EC8681	2	2	2	3	3	2	20/09/2023	ECE	6
232064	EC8681	2	3	2	2	3	3	20/09/2023	ECE	6
232065	EC8681	3	2	3	3	3	2	20/09/2023	ECE	6
232066	EC8681	3	3	2	2	3	3	20/09/2023	ECE	6

232067	EC8681	2	2	3	2	3	3	20/09/2023	ECE	6
232068	EC8681	3	3	3	3	2	2	20/09/2023	ECE	6
232070	EC8681	2	3	3	2	3	3	20/09/2023	ECE	6
232071	EC8681	3	3	3	3	3	2	20/09/2023	ECE	6
232072	EC8681	3	2	3	2	2	2	20/09/2023	ECE	6
232073	EC8681	3	3	3	2	2	2	20/09/2023	ECE	6
232074	EC8681	3	2	3	3	2	2	20/09/2023	ECE	6
232075	EC8681	3	2	3	3	2	3	20/09/2023	ECE	6
232076	EC8681	2	2	2	3	3	2	20/09/2023	ECE	6
232077	EC8681	2	2	2	2	2	3	20/09/2023	ECE	6
232078	EC8681	2	2	3	3	3	2	20/09/2023	ECE	6
232079	EC8681	2	2	2	3	2	3	20/09/2023	ECE	6
232080	EC8681	2	2	3	2	2	3	20/09/2023	ECE	6
232081	EC8681	3	3	2	3	2	3	20/09/2023	ECE	6
232082	EC8681	3	3	3	3	3	2	20/09/2023	ECE	6
232083	EC8681	3	3	3	3	3	2	20/09/2023	ECE	6
232084	EC8681	2	3	3	2	2	3	20/09/2023	ECE	6
232085	EC8681	3	3	2	3	2	3	20/09/2023	ECE	6
232086	EC8681	3	2	3	2	2	2	20/09/2023	ECE	6
232087	EC8681	3	2	2	3	3	2	20/09/2023	ECE	6
232088	EC8681	2	2	3	2	2	2	20/09/2023	ECE	6
232089	EC8681	2	2	3	2	2	2	20/09/2023	ECE	6
232090	EC8681	2	3	2	3	2	2	20/09/2023	ECE	6
232091	EC8681	3	2	3	2	3	2	20/09/2023	ECE	6
232092	EC8681	2	3	2	2	2	3	20/09/2023	ECE	6
232093	EC8681	3	3	2	2	3	3	20/09/2023	ECE	6
232094	EC8681	3	3	3	3	3	3	20/09/2023	ECE	6
232095	EC8681	2	2	3	2	2	3	20/09/2023	ECE	6
232096	EC8681	2	3	3	3	3	2	20/09/2023	ECE	6
232097	EC8681	2	2	3	3	2	3	20/09/2023	ECE	6
232098	EC8681	2	2	2	3	2	3	20/09/2023	ECE	6
232099	EC8681	2	3	3	2	3	2	20/09/2023	ECE	6
232100	EC8681	3	2	3	3	2	3	20/09/2023	ECE	6
232101	EC8681	2	2	3	3	3	3	20/09/2023	ECE	6
232102	EC8681	2	2	3	2	2	3	20/09/2023	ECE	6
232103	EC8681	3	3	2	2	3	2	20/09/2023	ECE	6
232104	EC8681	3	3	3	2	3	2	20/09/2023	ECE	6
232105	EC8681	2	3	2	2	3	2	20/09/2023	ECE	6
232106	EC8681	2	3	3	3	3	3	20/09/2023	ECE	6
232107	EC8681	3	2	2	2	2	3	20/09/2023	ECE	6
232108	EC8681	2	3	2	3	2	3	20/09/2023	ECE	6

232109	EC8681	2	2	3	2	3	2	20/09/2023	ECE	6
232110	EC8681	3	3	3	3	2	2	20/09/2023	ECE	6
232111	EC8681	3	3	2	3	3	2	20/09/2023	ECE	6
232112	EC8681	3	2	2	2	3	3	20/09/2023	ECE	6
Attained Level		2.48	2.49	2.57	2.51	2.5	2.51			
%		82.67	83.00	85.67	83.67	83.33	83.67			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23EVEN** Semester : **6** Programme: **B.E/B.Tech (ECE)**
Subject Code : **EC8691** NBA Code : **C310** Title **MICROPROCESSORS AND MICROCONTROLLERS**
Faculty: Ms.M.Anthuvan Lydia / Dr.K.Malaisamy

Cos	CO Description	Attained Level	%
C310.1	Able to describe the architecture and organization of 8086 microprocessor	2.48	82.67
C310.2	Able to write structured understandable programs in assembly language using 8086.	2.57	85.67
C310.3	Understand techniques for interfacing I/O devices to the microprocessor including several specific standard I/O devices	2.49	83.00
C310.4	Student able to describe the architecture, interrupt structure, Timer, counter of 8051 microcontroller	2.47	82.33
C310.5	Student will be able to design of a microcontroller based minimal system for a particular application	2.52	84.00
C310.6	Design of Memory interfacing circuits	2.58	86.00

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 108

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
232001	EC8691	3	3	2	3	2	3	20/09/2023	ECE	6
232002	EC8691	2	3	2	3	2	2	20/09/2023	ECE	6
232003	EC8691	2	2	3	2	2	2	20/09/2023	ECE	6
232004	EC8691	2	2	3	3	2	3	20/09/2023	ECE	6
232005	EC8691	2	3	2	2	3	2	20/09/2023	ECE	6
232006	EC8691	3	2	3	3	2	2	20/09/2023	ECE	6
232007	EC8691	3	2	3	2	2	3	20/09/2023	ECE	6
232008	EC8691	2	3	3	2	3	3	20/09/2023	ECE	6
232010	EC8691	3	3	3	2	3	3	20/09/2023	ECE	6
232011	EC8691	2	2	3	2	3	3	20/09/2023	ECE	6
232012	EC8691	2	2	2	2	3	2	20/09/2023	ECE	6
232013	EC8691	2	3	2	2	2	2	20/09/2023	ECE	6
232014	EC8691	2	3	2	2	2	2	20/09/2023	ECE	6
232015	EC8691	2	3	2	2	2	3	20/09/2023	ECE	6
232016	EC8691	2	2	2	3	2	3	20/09/2023	ECE	6
232017	EC8691	3	3	3	3	2	3	20/09/2023	ECE	6
232018	EC8691	2	3	3	2	3	3	20/09/2023	ECE	6
232019	EC8691	2	3	2	2	3	3	20/09/2023	ECE	6
232020	EC8691	3	3	3	2	2	3	20/09/2023	ECE	6
232021	EC8691	2	2	2	3	3	3	20/09/2023	ECE	6
232022	EC8691	2	2	3	3	2	3	20/09/2023	ECE	6
232023	EC8691	2	3	2	2	2	3	20/09/2023	ECE	6

232024	EC8691	3	3	3	3	2	3	20/09/2023	ECE	6
232025	EC8691	3	3	3	2	3	2	20/09/2023	ECE	6
232026	EC8691	3	2	2	3	3	2	20/09/2023	ECE	6
232027	EC8691	2	3	3	2	2	3	20/09/2023	ECE	6
232028	EC8691	3	2	3	2	3	3	20/09/2023	ECE	6
232029	EC8691	3	3	2	3	3	3	20/09/2023	ECE	6
232030	EC8691	3	3	2	2	2	3	20/09/2023	ECE	6
232031	EC8691	3	3	2	3	3	3	20/09/2023	ECE	6
232032	EC8691	3	2	2	3	3	2	20/09/2023	ECE	6
232033	EC8691	2	2	3	2	3	2	20/09/2023	ECE	6
232034	EC8691	3	2	2	2	2	2	20/09/2023	ECE	6
232036	EC8691	3	2	2	2	3	3	20/09/2023	ECE	6
232037	EC8691	3	3	3	3	2	3	20/09/2023	ECE	6
232038	EC8691	2	2	2	3	3	2	20/09/2023	ECE	6
232039	EC8691	2	3	3	2	2	2	20/09/2023	ECE	6
232040	EC8691	3	3	2	2	2	2	20/09/2023	ECE	6
232041	EC8691	3	3	2	3	3	3	20/09/2023	ECE	6
232042	EC8691	2	3	2	3	3	3	20/09/2023	ECE	6
232043	EC8691	2	3	3	2	2	3	20/09/2023	ECE	6
232044	EC8691	2	2	2	2	2	2	20/09/2023	ECE	6
232045	EC8691	3	3	2	2	3	2	20/09/2023	ECE	6
232046	EC8691	3	3	3	3	3	3	20/09/2023	ECE	6
232047	EC8691	3	3	3	2	3	3	20/09/2023	ECE	6
232048	EC8691	2	3	3	3	2	2	20/09/2023	ECE	6
232049	EC8691	2	2	3	2	3	3	20/09/2023	ECE	6
232050	EC8691	2	3	3	2	3	2	20/09/2023	ECE	6
232051	EC8691	2	2	2	3	3	2	20/09/2023	ECE	6
232052	EC8691	3	3	2	3	3	3	20/09/2023	ECE	6
232053	EC8691	2	3	2	3	3	3	20/09/2023	ECE	6
232054	EC8691	2	2	2	3	2	2	20/09/2023	ECE	6
232055	EC8691	2	2	2	3	3	3	20/09/2023	ECE	6
232056	EC8691	2	2	3	2	3	2	20/09/2023	ECE	6
232058	EC8691	3	2	2	2	2	3	20/09/2023	ECE	6
232059	EC8691	3	3	3	3	3	2	20/09/2023	ECE	6
232060	EC8691	3	2	3	3	2	3	20/09/2023	ECE	6
232061	EC8691	3	2	2	2	3	3	20/09/2023	ECE	6
232062	EC8691	3	3	2	3	2	3	20/09/2023	ECE	6
232063	EC8691	3	2	2	2	3	3	20/09/2023	ECE	6
232064	EC8691	3	3	3	3	3	3	20/09/2023	ECE	6
232065	EC8691	3	2	2	2	2	3	20/09/2023	ECE	6
232066	EC8691	3	2	3	2	2	3	20/09/2023	ECE	6

232067	EC8691	2	3	3	3	3	3	20/09/2023	ECE	6
232068	EC8691	2	2	3	2	2	2	20/09/2023	ECE	6
232070	EC8691	2	3	3	3	2	2	20/09/2023	ECE	6
232071	EC8691	2	2	3	3	2	2	20/09/2023	ECE	6
232072	EC8691	3	3	3	3	3	3	20/09/2023	ECE	6
232073	EC8691	2	3	3	2	2	2	20/09/2023	ECE	6
232074	EC8691	2	2	2	3	2	2	20/09/2023	ECE	6
232075	EC8691	3	3	2	2	2	3	20/09/2023	ECE	6
232076	EC8691	2	3	3	2	3	3	20/09/2023	ECE	6
232077	EC8691	3	2	2	3	3	2	20/09/2023	ECE	6
232078	EC8691	3	3	2	3	2	2	20/09/2023	ECE	6
232079	EC8691	3	2	2	2	2	3	20/09/2023	ECE	6
232080	EC8691	2	2	3	3	3	3	20/09/2023	ECE	6
232081	EC8691	3	3	2	3	2	3	20/09/2023	ECE	6
232082	EC8691	2	2	2	2	2	2	20/09/2023	ECE	6
232083	EC8691	3	3	2	2	2	2	20/09/2023	ECE	6
232084	EC8691	2	3	2	2	2	3	20/09/2023	ECE	6
232085	EC8691	2	2	2	3	3	3	20/09/2023	ECE	6
232086	EC8691	2	2	3	3	2	3	20/09/2023	ECE	6
232087	EC8691	2	3	2	2	3	2	20/09/2023	ECE	6
232088	EC8691	2	3	2	2	3	3	20/09/2023	ECE	6
232089	EC8691	3	3	3	3	3	2	20/09/2023	ECE	6
232090	EC8691	2	3	2	3	2	3	20/09/2023	ECE	6
232091	EC8691	2	2	3	2	3	2	20/09/2023	ECE	6
232092	EC8691	2	2	3	2	3	3	20/09/2023	ECE	6
232093	EC8691	3	3	2	3	3	3	20/09/2023	ECE	6
232094	EC8691	2	2	2	3	3	3	20/09/2023	ECE	6
232095	EC8691	3	2	2	2	2	3	20/09/2023	ECE	6
232096	EC8691	3	3	2	3	3	2	20/09/2023	ECE	6
232097	EC8691	3	3	3	2	3	3	20/09/2023	ECE	6
232098	EC8691	3	3	3	2	3	2	20/09/2023	ECE	6
232099	EC8691	3	2	3	2	3	3	20/09/2023	ECE	6
232100	EC8691	2	2	3	3	2	2	20/09/2023	ECE	6
232101	EC8691	2	3	3	3	2	3	20/09/2023	ECE	6
232102	EC8691	2	3	2	3	3	2	20/09/2023	ECE	6
232103	EC8691	2	3	3	3	3	2	20/09/2023	ECE	6
232104	EC8691	3	3	3	2	3	3	20/09/2023	ECE	6
232105	EC8691	2	3	3	3	3	3	20/09/2023	ECE	6
232106	EC8691	3	3	2	2	2	2	20/09/2023	ECE	6
232107	EC8691	2	3	2	2	3	2	20/09/2023	ECE	6
232108	EC8691	3	2	2	3	2	3	20/09/2023	ECE	6

232109	EC8691	3	2	3	2	3	3	20/09/2023	ECE	6
232110	EC8691	3	2	3	2	2	2	20/09/2023	ECE	6
232111	EC8691	2	3	3	2	2	2	20/09/2023	ECE	6
232112	EC8691	3	3	3	3	2	2	20/09/2023	ECE	6
Attained Level		2.48	2.57	2.49	2.47	2.52	2.58			
%		82.67	85.67	83.00	82.33	84.00	86.00			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23EVEN** Semester : **6** Programme: **B.E/B.Tech (ECE)**
Subject Code : **GE8076(8)** NBA Code : **C409PE4** Title **PROFESSIONAL ETHICS IN ENGINEERING**
Faculty: Dr.S.Rajeswari / Dr.S.A.Arunmozhi

Cos	CO Description	Attained Level	%
C409PE4.1	Understand the human values and ethics in the human excellence and behavior in the organization	2.58	86.00
C409PE4.2	Understand the characteristics of morals and engineer's conduct of behavior and practice in the workplace	2.55	85.00
C409PE4.3	Realize engineering as an experimental process to understand the various ethical implications	2.45	81.67
C409PE4.4	Analyze the responsibility of engineers to ensure the safety, health and welfare of the public	2.47	82.33
C409PE4.5	Apply ethics in dealing with the global issues, computer ethics and weapons development	2.56	85.33
C409PE4.6	Realize moral guidelines of practicing human, employee, professional rights in organizations.	2.48	82.67

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 108

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
232001	GE8076(8)	3	2	3	2	2	2	20/09/2023	ECE	6
232002	GE8076(8)	2	3	2	3	3	3	20/09/2023	ECE	6
232003	GE8076(8)	2	3	3	2	3	2	20/09/2023	ECE	6
232004	GE8076(8)	2	3	2	2	3	2	20/09/2023	ECE	6
232005	GE8076(8)	2	3	2	3	2	3	20/09/2023	ECE	6
232006	GE8076(8)	2	3	2	2	3	2	20/09/2023	ECE	6
232007	GE8076(8)	3	2	3	2	3	2	20/09/2023	ECE	6
232008	GE8076(8)	2	2	2	3	3	2	20/09/2023	ECE	6
232010	GE8076(8)	3	3	3	2	2	2	20/09/2023	ECE	6
232011	GE8076(8)	2	3	2	3	3	2	20/09/2023	ECE	6
232012	GE8076(8)	3	2	3	3	3	2	20/09/2023	ECE	6
232013	GE8076(8)	3	2	3	2	3	2	20/09/2023	ECE	6
232014	GE8076(8)	2	2	3	3	2	2	20/09/2023	ECE	6
232015	GE8076(8)	2	2	2	3	3	3	20/09/2023	ECE	6
232016	GE8076(8)	3	2	2	2	2	2	20/09/2023	ECE	6
232017	GE8076(8)	3	3	2	2	3	2	20/09/2023	ECE	6
232018	GE8076(8)	3	2	3	3	2	2	20/09/2023	ECE	6
232019	GE8076(8)	3	3	2	2	3	2	20/09/2023	ECE	6
232020	GE8076(8)	3	3	2	3	3	3	20/09/2023	ECE	6
232021	GE8076(8)	2	3	2	2	3	3	20/09/2023	ECE	6
232022	GE8076(8)	3	3	2	2	3	2	20/09/2023	ECE	6

232023	GE8076(8)	3	2	2	2	3	3	20/09/2023	ECE	6
232024	GE8076(8)	2	2	2	2	2	2	20/09/2023	ECE	6
232025	GE8076(8)	2	2	2	3	2	2	20/09/2023	ECE	6
232026	GE8076(8)	3	3	2	2	2	2	20/09/2023	ECE	6
232027	GE8076(8)	2	2	2	2	3	3	20/09/2023	ECE	6
232028	GE8076(8)	3	3	2	2	2	3	20/09/2023	ECE	6
232029	GE8076(8)	2	3	2	3	3	2	20/09/2023	ECE	6
232030	GE8076(8)	2	2	2	2	3	3	20/09/2023	ECE	6
232031	GE8076(8)	2	3	2	3	2	3	20/09/2023	ECE	6
232032	GE8076(8)	3	2	2	2	2	3	20/09/2023	ECE	6
232033	GE8076(8)	3	3	2	2	2	3	20/09/2023	ECE	6
232034	GE8076(8)	3	3	2	2	2	3	20/09/2023	ECE	6
232036	GE8076(8)	2	2	2	2	2	2	20/09/2023	ECE	6
232037	GE8076(8)	3	2	3	3	3	2	20/09/2023	ECE	6
232038	GE8076(8)	3	2	3	2	2	3	20/09/2023	ECE	6
232039	GE8076(8)	2	2	3	2	2	3	20/09/2023	ECE	6
232040	GE8076(8)	3	2	2	2	2	2	20/09/2023	ECE	6
232041	GE8076(8)	2	3	3	2	2	3	20/09/2023	ECE	6
232042	GE8076(8)	2	2	3	2	3	2	20/09/2023	ECE	6
232043	GE8076(8)	3	3	2	2	3	2	20/09/2023	ECE	6
232044	GE8076(8)	2	2	2	3	3	3	20/09/2023	ECE	6
232045	GE8076(8)	2	2	2	2	3	3	20/09/2023	ECE	6
232046	GE8076(8)	3	2	2	3	3	3	20/09/2023	ECE	6
232047	GE8076(8)	3	2	3	3	3	3	20/09/2023	ECE	6
232048	GE8076(8)	3	2	2	3	2	2	20/09/2023	ECE	6
232049	GE8076(8)	2	2	2	2	3	2	20/09/2023	ECE	6
232050	GE8076(8)	2	3	3	3	3	3	20/09/2023	ECE	6
232051	GE8076(8)	3	3	2	3	3	3	20/09/2023	ECE	6
232052	GE8076(8)	2	3	2	3	3	3	20/09/2023	ECE	6
232053	GE8076(8)	2	2	3	2	2	2	20/09/2023	ECE	6
232054	GE8076(8)	3	3	3	3	2	3	20/09/2023	ECE	6
232055	GE8076(8)	3	3	2	2	3	3	20/09/2023	ECE	6
232056	GE8076(8)	3	3	3	3	2	3	20/09/2023	ECE	6
232058	GE8076(8)	2	3	3	2	2	2	20/09/2023	ECE	6
232059	GE8076(8)	2	3	2	2	3	2	20/09/2023	ECE	6
232060	GE8076(8)	3	3	2	3	3	3	20/09/2023	ECE	6
232061	GE8076(8)	3	3	2	3	2	3	20/09/2023	ECE	6
232062	GE8076(8)	3	3	2	2	2	2	20/09/2023	ECE	6
232063	GE8076(8)	3	2	2	3	2	2	20/09/2023	ECE	6
232064	GE8076(8)	3	3	2	2	3	2	20/09/2023	ECE	6
232065	GE8076(8)	3	3	2	2	3	2	20/09/2023	ECE	6

232066	GE8076(8)	3	3	3	2	2	2	20/09/2023	ECE	6
232067	GE8076(8)	3	2	3	2	3	3	20/09/2023	ECE	6
232068	GE8076(8)	3	3	2	3	3	3	20/09/2023	ECE	6
232070	GE8076(8)	3	3	2	2	3	2	20/09/2023	ECE	6
232071	GE8076(8)	2	3	2	3	2	3	20/09/2023	ECE	6
232072	GE8076(8)	3	2	3	3	3	3	20/09/2023	ECE	6
232073	GE8076(8)	3	2	2	2	3	3	20/09/2023	ECE	6
232074	GE8076(8)	2	2	3	2	3	2	20/09/2023	ECE	6
232075	GE8076(8)	2	2	2	3	3	3	20/09/2023	ECE	6
232076	GE8076(8)	3	3	2	2	2	3	20/09/2023	ECE	6
232077	GE8076(8)	2	2	2	3	2	3	20/09/2023	ECE	6
232078	GE8076(8)	3	2	2	3	3	2	20/09/2023	ECE	6
232079	GE8076(8)	3	3	3	2	3	3	20/09/2023	ECE	6
232080	GE8076(8)	3	2	2	3	3	3	20/09/2023	ECE	6
232081	GE8076(8)	3	2	3	2	3	2	20/09/2023	ECE	6
232082	GE8076(8)	3	3	3	3	3	3	20/09/2023	ECE	6
232083	GE8076(8)	2	3	2	3	2	2	20/09/2023	ECE	6
232084	GE8076(8)	3	3	2	3	3	2	20/09/2023	ECE	6
232085	GE8076(8)	2	2	3	3	3	3	20/09/2023	ECE	6
232086	GE8076(8)	3	3	3	3	3	2	20/09/2023	ECE	6
232087	GE8076(8)	3	2	3	3	2	2	20/09/2023	ECE	6
232088	GE8076(8)	2	3	3	2	3	3	20/09/2023	ECE	6
232089	GE8076(8)	2	3	3	3	3	2	20/09/2023	ECE	6
232090	GE8076(8)	2	2	3	3	3	2	20/09/2023	ECE	6
232091	GE8076(8)	3	2	3	3	2	2	20/09/2023	ECE	6
232092	GE8076(8)	3	2	3	2	2	2	20/09/2023	ECE	6
232093	GE8076(8)	3	2	3	3	2	2	20/09/2023	ECE	6
232094	GE8076(8)	2	3	3	3	2	2	20/09/2023	ECE	6
232095	GE8076(8)	2	3	3	3	2	2	20/09/2023	ECE	6
232096	GE8076(8)	3	3	2	2	2	2	20/09/2023	ECE	6
232097	GE8076(8)	3	2	2	2	3	3	20/09/2023	ECE	6
232098	GE8076(8)	3	3	3	2	3	3	20/09/2023	ECE	6
232099	GE8076(8)	3	3	3	2	2	3	20/09/2023	ECE	6
232100	GE8076(8)	3	3	2	2	2	3	20/09/2023	ECE	6
232101	GE8076(8)	3	3	3	3	3	3	20/09/2023	ECE	6
232102	GE8076(8)	3	2	3	3	2	3	20/09/2023	ECE	6
232103	GE8076(8)	2	2	3	3	3	3	20/09/2023	ECE	6
232104	GE8076(8)	2	3	3	3	2	2	20/09/2023	ECE	6
232105	GE8076(8)	2	2	3	2	3	2	20/09/2023	ECE	6
232106	GE8076(8)	3	2	3	3	2	2	20/09/2023	ECE	6
232107	GE8076(8)	2	3	2	3	3	3	20/09/2023	ECE	6

232108	GE8076(8)	3	3	3	2	2	2	20/09/2023	ECE	6
232109	GE8076(8)	2	3	3	3	2	2	20/09/2023	ECE	6
232110	GE8076(8)	3	3	3	2	3	3	20/09/2023	ECE	6
232111	GE8076(8)	3	3	2	2	2	3	20/09/2023	ECE	6
232112	GE8076(8)	2	3	3	2	2	3	20/09/2023	ECE	6
Attained Level		2.58	2.55	2.45	2.47	2.56	2.48			
%		86.00	85.00	81.67	82.33	85.33	82.67			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23EVEN** Semester : **6** Programme: **B.E/B.Tech (ECE)**
Subject Code : **MG8591** NBA Code : **C404** Title **PRINCIPLES OF MANAGEMENT**
Faculty: Mr.K.Arun Prasad / Mr.S.Saravanan

Cos	CO Description	Attained Level	%
C404.1	Demonstrate critical thinking when presented with managerial problems and express their views and opinions on managerial issues in an articulate way	2.51	83.67
C404.2	Understand the major internal features of a business system and the environment in which it operates.	2.45	81.67
C404.3	Identify and explain the importance of the management process and identify some of the key skills required for the contemporary management practice	2.6	86.67
C404.4	Understand the importance of delegation	2.44	81.33
C404.5	To implement planning, Organising, directing and controlling activities in project/career	2.44	81.33
C404.6	Understand the role budget and finance in a project	2.44	81.33

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 108

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
232001	MG8591	3	3	3	3	3	3	20/09/2023	ECE	6
232002	MG8591	3	2	3	2	2	3	20/09/2023	ECE	6
232003	MG8591	3	3	2	2	3	3	20/09/2023	ECE	6
232004	MG8591	2	3	3	2	2	2	20/09/2023	ECE	6
232005	MG8591	3	2	3	2	2	3	20/09/2023	ECE	6
232006	MG8591	3	2	3	2	3	3	20/09/2023	ECE	6
232007	MG8591	2	2	3	2	3	2	20/09/2023	ECE	6
232008	MG8591	3	2	3	2	3	2	20/09/2023	ECE	6
232010	MG8591	2	3	3	3	2	3	20/09/2023	ECE	6
232011	MG8591	2	2	3	3	2	2	20/09/2023	ECE	6
232012	MG8591	2	3	3	2	3	2	20/09/2023	ECE	6
232013	MG8591	2	3	3	3	3	2	20/09/2023	ECE	6
232014	MG8591	3	2	2	3	2	3	20/09/2023	ECE	6
232015	MG8591	3	2	2	2	2	3	20/09/2023	ECE	6
232016	MG8591	2	2	3	3	3	2	20/09/2023	ECE	6
232017	MG8591	2	2	3	2	2	3	20/09/2023	ECE	6
232018	MG8591	3	2	2	3	3	2	20/09/2023	ECE	6
232019	MG8591	3	2	2	3	2	3	20/09/2023	ECE	6
232020	MG8591	3	2	3	2	3	2	20/09/2023	ECE	6
232021	MG8591	3	3	3	2	2	3	20/09/2023	ECE	6
232022	MG8591	3	2	2	3	3	2	20/09/2023	ECE	6
232023	MG8591	2	2	3	3	2	2	20/09/2023	ECE	6

232024	MG8591	2	2	3	2	2	2	20/09/2023	ECE	6
232025	MG8591	2	3	2	2	3	3	20/09/2023	ECE	6
232026	MG8591	3	2	3	2	3	3	20/09/2023	ECE	6
232027	MG8591	2	3	3	3	2	2	20/09/2023	ECE	6
232028	MG8591	3	2	3	3	2	3	20/09/2023	ECE	6
232029	MG8591	2	3	3	3	3	3	20/09/2023	ECE	6
232030	MG8591	2	2	3	3	3	3	20/09/2023	ECE	6
232031	MG8591	2	3	3	2	3	2	20/09/2023	ECE	6
232032	MG8591	3	2	2	3	2	2	20/09/2023	ECE	6
232033	MG8591	3	2	3	3	3	3	20/09/2023	ECE	6
232034	MG8591	2	2	3	2	2	2	20/09/2023	ECE	6
232036	MG8591	2	3	2	2	2	2	20/09/2023	ECE	6
232037	MG8591	3	2	3	2	3	3	20/09/2023	ECE	6
232038	MG8591	2	3	2	2	2	3	20/09/2023	ECE	6
232039	MG8591	3	3	3	3	2	2	20/09/2023	ECE	6
232040	MG8591	3	3	3	2	3	2	20/09/2023	ECE	6
232041	MG8591	3	2	2	2	3	2	20/09/2023	ECE	6
232042	MG8591	2	3	3	3	2	2	20/09/2023	ECE	6
232043	MG8591	2	3	3	3	3	2	20/09/2023	ECE	6
232044	MG8591	2	3	2	2	3	3	20/09/2023	ECE	6
232045	MG8591	2	3	2	3	2	2	20/09/2023	ECE	6
232046	MG8591	2	2	3	2	2	2	20/09/2023	ECE	6
232047	MG8591	3	2	2	3	2	2	20/09/2023	ECE	6
232048	MG8591	3	3	2	2	2	2	20/09/2023	ECE	6
232049	MG8591	2	3	2	3	2	3	20/09/2023	ECE	6
232050	MG8591	3	2	2	3	2	2	20/09/2023	ECE	6
232051	MG8591	2	2	2	2	2	2	20/09/2023	ECE	6
232052	MG8591	2	3	3	2	3	2	20/09/2023	ECE	6
232053	MG8591	2	3	3	2	3	3	20/09/2023	ECE	6
232054	MG8591	3	3	3	2	3	3	20/09/2023	ECE	6
232055	MG8591	3	2	3	2	3	2	20/09/2023	ECE	6
232056	MG8591	3	3	2	2	3	2	20/09/2023	ECE	6
232058	MG8591	2	2	2	2	2	2	20/09/2023	ECE	6
232059	MG8591	3	2	3	2	3	2	20/09/2023	ECE	6
232060	MG8591	3	2	2	2	2	2	20/09/2023	ECE	6
232061	MG8591	2	3	2	2	3	3	20/09/2023	ECE	6
232062	MG8591	3	3	2	2	2	2	20/09/2023	ECE	6
232063	MG8591	3	3	2	2	3	2	20/09/2023	ECE	6
232064	MG8591	3	3	3	2	3	2	20/09/2023	ECE	6
232065	MG8591	2	2	2	3	2	2	20/09/2023	ECE	6
232066	MG8591	3	3	2	2	2	2	20/09/2023	ECE	6

232067	MG8591	3	2	3	3	2	3	20/09/2023	ECE	6
232068	MG8591	2	2	2	2	2	2	20/09/2023	ECE	6
232070	MG8591	3	2	2	3	2	2	20/09/2023	ECE	6
232071	MG8591	3	2	3	3	2	2	20/09/2023	ECE	6
232072	MG8591	3	2	3	3	2	3	20/09/2023	ECE	6
232073	MG8591	3	2	2	2	3	3	20/09/2023	ECE	6
232074	MG8591	3	3	3	3	2	2	20/09/2023	ECE	6
232075	MG8591	3	3	3	2	2	3	20/09/2023	ECE	6
232076	MG8591	2	2	2	2	2	3	20/09/2023	ECE	6
232077	MG8591	3	2	3	3	2	3	20/09/2023	ECE	6
232078	MG8591	3	2	2	2	2	2	20/09/2023	ECE	6
232079	MG8591	2	3	2	3	3	3	20/09/2023	ECE	6
232080	MG8591	2	2	2	2	2	3	20/09/2023	ECE	6
232081	MG8591	2	2	3	3	3	3	20/09/2023	ECE	6
232082	MG8591	3	2	3	3	3	3	20/09/2023	ECE	6
232083	MG8591	2	3	2	2	2	3	20/09/2023	ECE	6
232084	MG8591	2	3	3	3	2	2	20/09/2023	ECE	6
232085	MG8591	3	3	3	3	3	2	20/09/2023	ECE	6
232086	MG8591	2	3	3	2	2	2	20/09/2023	ECE	6
232087	MG8591	2	2	3	2	2	2	20/09/2023	ECE	6
232088	MG8591	2	2	2	2	2	3	20/09/2023	ECE	6
232089	MG8591	3	2	2	3	2	2	20/09/2023	ECE	6
232090	MG8591	3	3	3	2	2	3	20/09/2023	ECE	6
232091	MG8591	3	3	3	2	3	2	20/09/2023	ECE	6
232092	MG8591	2	2	3	3	2	2	20/09/2023	ECE	6
232093	MG8591	2	2	2	3	3	3	20/09/2023	ECE	6
232094	MG8591	3	3	2	3	2	3	20/09/2023	ECE	6
232095	MG8591	3	3	3	3	2	3	20/09/2023	ECE	6
232096	MG8591	3	3	3	2	3	3	20/09/2023	ECE	6
232097	MG8591	2	2	3	2	3	2	20/09/2023	ECE	6
232098	MG8591	2	3	3	2	3	3	20/09/2023	ECE	6
232099	MG8591	2	3	3	2	2	3	20/09/2023	ECE	6
232100	MG8591	2	2	3	2	2	2	20/09/2023	ECE	6
232101	MG8591	2	3	2	3	2	3	20/09/2023	ECE	6
232102	MG8591	2	3	2	3	3	3	20/09/2023	ECE	6
232103	MG8591	2	2	3	3	3	2	20/09/2023	ECE	6
232104	MG8591	3	3	2	2	3	2	20/09/2023	ECE	6
232105	MG8591	3	2	3	3	3	3	20/09/2023	ECE	6
232106	MG8591	3	3	3	3	3	3	20/09/2023	ECE	6
232107	MG8591	2	2	2	3	2	3	20/09/2023	ECE	6
232108	MG8591	2	2	3	2	2	2	20/09/2023	ECE	6

232109	MG8591	2	2	3	3	2	2	20/09/2023	ECE	6
232110	MG8591	3	2	2	3	3	2	20/09/2023	ECE	6
232111	MG8591	2	2	3	2	2	2	20/09/2023	ECE	6
232112	MG8591	3	3	3	2	2	2	20/09/2023	ECE	6
Attained Level		2.51	2.45	2.6	2.44	2.44	2.44			
%		83.67	81.67	86.67	81.33	81.33	81.33			

SARANATHAN COLLEGE OF ENGINEERING, TRICHY-12

Academic Planner for Even Semester(2022-23) - II, III & IV UG

FEB'22	DAY	DETAILS	working days	MAR'22	DAY	DETAILS	working days	APR'22	DAY	DETAILS	working days	MAY'22	DAY	DETAILS	working days
01	WED	Classes commence for IV & VI semester T&P Training for III Year	1	01	WED		21	01	SAT	Holiday		01	MON	May Day Holiday	
02	THU	T&P Training for III Year	2	02	THU	Sports Day	22	02	SUN	Holiday		02	TUE		62
03	FRI	Founder's day T&P Training for III Year	3	03	FRI	College Day	23	03	MON		44	03	WED		63
04	SAT	T&P Training for III Year Holiday		04	SAT	Graduation Day Holiday		04	TUE		45	04	THU	IA test-3	64
05	SUN	Holiday		05	SUN	Holiday		05	WED		46	05	FRI	IA test-3	65
06	MON		4	06	MON		24	06	THU		47	06	SAT	IA test-3	66
07	TUE		5	07	TUE		25	07	FRI	Good Friday Holiday		07	SUN	Holiday	
08	WED		6	08	WED	Womania 2023 Women's Day	26	08	SAT	Holiday		08	MON	IA test-3	67
09	THU		7	09	THU	IA test-1	27	09	SUN	Holiday		09	TUE	IA test-3	68
10	FRI		8	10	FRI	IA test-1	28	10	MON	IA test-2	48	10	WED	IA test-3	69
11	SAT	Holiday		11	SAT	IA test-1	29	11	TUE	IA test-2	49	11	THU		70
12	SUN	Holiday		12	SUN	Holiday		12	WED	IA test-2	50	12	FRI	Syllabus completion	71
13	MON		9	13	MON	IA test-1	30	13	THU	IA test-2	51	13	SAT	Holiday	
14	TUE		10	14	TUE	IA test-1	31	14	FRI	Tamil New Year Day Holiday		14	SUN	Holiday	
15	WED		11	15	WED	IA test-1	32	15	SAT	Holiday		15	MON	Commencement of University Practical exams	
16	THU		12	16	THU		33	16	SUN	Holiday		16	TUE		
17	FRI		13	17	FRI		34	17	MON	IA test-2	52	17	WED		
18	SAT	Holiday		18	SAT	Holiday		18	TUE	IA test-2	53	18	THU		
19	SUN	Holiday		19	SUN	Holiday		19	WED		54	19	FRI		
20	MON	Classes commence for VIII semester	14	20	MON	Students Feedback-I	35	20	THU		55	20	SAT		
21	TUE		15	21	TUE		36	21	FRI		56	21	SUN		
22	WED		16	22	WED	Telugu New Year Day Holiday		22	SAT	Ramzan Holiday		22	MON		
23	THU		17	23	THU		37	23	SUN	Holiday		23	TUE		
24	FRI		18	24	FRI		38	24	MON	Students Feedback-II	57	24	WED		
25	SAT	Holiday		25	SAT	Holiday		25	TUE		58	25	THU		
26	SUN	Holiday		26	SUN	Holiday		26	WED		59	26	FRI	Commencement of University Theory exams	
27	MON		19	27	MON		39	27	THU	Founder's Memorial day	60	27	SAT		
28	TUE		20	28	TUE		40	28	FRI		61	28	SUN		
				29	WED		41	29	SAT	Holiday		29	MON		
				30	THU		42	30	SUN	Holiday		30	TUE		
				31	FRI		43					31	WED		
		No. of Working days	20				23				18				10
														Total No.of working days for the semester :	71

Prepared by

Ms. N. Bhavani, Asso.Prof/IT dept

Dr. R. Senthamil Selvi,Asso. Prof/ CSE Dept

Principal

SARANATHAN COLLEGE OF ENGINEERING, TRICHY-12

Academic Planner for 2022 - 23 Odd Semester - III and IV YEAR UG

AUG'22	DAY	DETAILS	Day order	working days	SEP'22	DAY	DETAILS	Day order	working days	OCT'22	DAY	DETAILS	Day order	working days	NOV'22	DAY	DETAILS	Day order	working days	DEC'22	DAY	DETAILS	Day order	working days
01	MON				01	THU		IV	11	01	SAT	Holiday			01	TUE		II	55	01	THU		IV	77
02	TUE				02	FRI		V	12	02	SUN	Gandhi Jayanthi Holiday			02	WED		III	56	02	FRI	Nan Mudhalvan scheme ends	V	78
03	WED				03	SAT		III	13	03	MON	Holiday			03	THU		IV	57	03	SAT	Holiday		
04	THU				04	SUN	Holiday			04	TUE	Ayudha Pooja Holiday			04	FRI		V	58	04	SUN	Holiday		
05	FRI				05	MON	Teacher's Day	I	14	05	WED	Vijayadhasami Holiday			05	SAT	Holiday			05	MON			
06	SAT	Holiday			06	TUE		II	15	06	THU		IV	36	06	SUN	Holiday			06	TUE			
07	SUN	Holiday			07	WED		III	16	07	FRI		V	37	07	MON		I	59	07	WED	Flag Day		
08	MON				08	THU		IV	17	08	SAT		III	38	08	TUE		II	60	08	THU	Univ.Theory Exam commences		
09	TUE				09	FRI		V	18	09	SUN	Milad-un-Nabi Holiday			09	WED		III	61	09	FRI			
10	WED				10	SAT	Holiday			10	MON	IA Test 2	I	39	10	THU	IA Test 3	IV	62	10	SAT	Holiday		
11	THU	Avani Avittam			11	SUN	Holiday			11	TUE	IA Test 2	II	40	11	FRI	National Education Day IA Test 3	V	63	11	SUN	Holiday		
12	FRI	International Youth Day			12	MON	IA Test 1	I	19	12	WED	IA Test 2	III	41	12	SAT	Holiday			12	MON			
13	SAT				13	TUE	IA Test 1	II	20	13	THU	IA Test 2	IV	42	13	SUN	Holiday			13	TUE			
14	SUN	Holiday			14	WED	IA Test 1	III	21	14	FRI	IA Test 2	V	43	14	MON	Children's Day IA Test 3	I	64	14	WED			
15	MON	Independence Day Holiday			15	THU	Engineer's Day IA Test 1	IV	22	15	SAT	IA Test 2	I	44	15	TUE	IA Test 3	II	65	15	THU			
16	TUE				16	FRI	IA Test 1	V	23	16	SUN	Holiday			16	WED	IA Test 3	III	66	16	FRI			
17	WED	Classes commence for V & VII semester	III	1	17	SAT	IA Test 1	I	24	17	MON		I	45	17	THU	IA Test 3	IV	67	17	SAT	Holiday		
18	THU		IV	2	18	SUN	Holiday			18	TUE		II	46	18	FRI	Syllabus Completion	V	68	18	SUN	Holiday		
19	FRI	Krishna Jayanthi Holiday			19	MON		I	25	19	WED		III	47	19	SAT	Holiday			19	MON			
20	SAT	Holiday			20	TUE		II	26	20	THU		IV	48	20	SUN	Holiday			20	TUE			
21	SUN	Holiday			21	WED		III	27	21	FRI		V	49	21	MON	Nan Mudhalvan scheme starts	I	69	21	WED			
22	MON		I	3	22	THU	Student Feedback-1	IV	28	22	SAT	Holiday			22	TUE		II	70	22	THU	National Mathematics Day		
23	TUE		II	4	23	FRI		V	29	23	SUN	Holiday			23	WED		III	71	23	FRI			
24	WED		III	5	24	SAT	NSS Day	II	30	24	MON	Deepavali Holiday			24	THU		IV	72	24	SAT	Holiday		
25	THU		IV	6	25	SUN	Holiday			25	TUE	Holiday			25	FRI		V	73	25	SUN	Christmas Holiday		
26	FRI		V	7	26	MON		I	31	26	WED		III	50	26	SAT	Holiday			26	MON			
27	SAT		V	8	27	TUE		II	32	27	THU		IV	51	27	SUN	Holiday			27	TUE			
28	SUN	Holiday			28	WED		III	33	28	FRI	Student Feedback-2	V	52	28	MON		I	74	28	WED			
29	MON		I	9	29	THU		IV	34	29	SAT		II	53	29	TUE		II	75	29	THU			
30	TUE		II	10	30	FRI		V	35	30	SUN	Holiday			30	WED		III	76	30	FRI			
31	WED	Vinayagar Chaturthi Holiday								31	MON	National Unity Day	I	54						31	SAT	Holiday		
No. of Working days			10	10				25	35				19	54				22	76				2	78

Total No. of working days for the semester : 78

Prepared by: Ms.N.Bhavani & Dr.R.Senthamil selvi

PRINCIPAL

SARANATHAN COLLEGE OF ENGINEERING, TRICHY-12

Academic Planner for 2022 - 23 Odd Semester - II YEAR UG

AUG'22	DAY	DETAILS	Day order	working days	SEP'22	DAY	DETAILS	Day order		OCT'22	DAY	DETAILS	Day order	working days	NOV'22	DAY	DETAILS	Day order	working days	DEC'22	DAY	DETAILS	Day order	working days
01	MON				01	THU		IV	9	01	SAT	Holiday			01	TUE		II	53	01	THU		IV	75
02	TUE				02	FRI		V	10	02	SUN	Gandhi Jayanthi Holiday			02	WED		III	54	02	FRI		V	76
03	WED				03	SAT		III	11	03	MON	Holiday			03	THU		IV	55	03	SAT	Holiday		
04	THU				04	SUN	Holiday			04	TUE	Ayudha Pooja Holiday			04	FRI		V	56	04	SUN	Holiday		
05	FRI				05	MON	Teacher's Day	I	12	05	WED	Vijayadhasami Holiday			05	SAT	Holiday			05	MON		I	77
06	SAT	Holiday			06	TUE		II	13	06	THU		IV	34	06	SUN	Holiday			06	TUE		II	78
07	SUN	Holiday			07	WED		III	14	07	FRI		V	35	07	MON		I	57	07	WED	Flag Day	III	79
08	MON				08	THU		IV	15	08	SAT		III	36	08	TUE		II	58	08	THU		IV	80
09	TUE				09	FRI		V	16	09	SUN	Milad-un-Nabi Holiday			09	WED		III	59	09	FRI	Syllabus Completion	V	81
10	WED				10	SAT	Holiday			10	MON		I	37	10	THU		IV	60	10	SAT	Holiday		
11	THU	Avani Avittam			11	SUN	Holiday			11	TUE		II	38	11	FRI	Professional Development - Nan Mudhalvan scheme ends	V	61	11	SUN	Holiday		
12	FRI	International Youth Day			12	MON		I	17	12	WED		III	39	12	SAT	Holiday			12	MON	Model Exam	I	82
13	SAT				13	TUE		II	18	13	THU		IV	40	13	SUN	Holiday			13	TUE		II	83
14	SUN	Holiday			14	WED		III	19	14	FRI		V	41	14	MON	Children's Day	I	62	14	WED	Model Exam	III	84
15	MON	Independence Day Holidau			15	THU	Engineer's Day	IV	20	15	SAT	IA Test 2	I	42	15	TUE		II	63	15	THU		IV	85
16	TUE				16	FRI		V	21	16	SUN	Holiday			16	WED		III	64	16	FRI	Model Exam	V	86
17	WED				17	SAT		I	22	17	MON	IA Test 2	I	43	17	THU		IV	65	17	SAT	Holiday		
18	THU				18	SUN	Holiday			18	TUE	IA Test 2	II	44	18	FRI		V	66	18	SUN	Holiday		
19	FRI	Krishna Jayanthi Holiday			19	MON	IA Test 1	I	23	19	WED	IA Test 2	III	45	19	SAT	Holiday			19	MON	Model Exam	I	87
20	SAT	Holiday			20	TUE	IA Test 1	II	24	20	THU	IA Test 2	IV	46	20	SUN	Holiday			20	TUE		II	88
21	SUN	Holiday			21	WED	IA Test 1	III	25	21	FRI	IA Test 2	V	47	21	MON		I	67	21	WED	Model Exam	III	89
22	MON	Classes commence for III semester	I	1	22	THU	IA Test 1	IV	26	22	SAT	Holiday			22	TUE		II	68	22	THU	National Mathematics Day	IV	90
23	TUE		II	2	23	FRI	IA Test 1	V	27	23	SUN	Holiday			23	WED		III	69	23	FRI	Model Exam	V	91
24	WED		III	3	24	SAT	NSS Day IA Test 1	II	28	24	MON	Deepavali Holiday			24	THU		IV	70	24	SAT	Holiday		
25	THU		IV	4	25	SUN	Holiday			25	TUE	Holiday			25	FRI		V	71	25	SUN	Christmas Holiday		
26	FRI		V	5	26	MON		I	29	26	WED		III	48	26	SAT	Holiday			26	MON			
27	SAT		V	6	27	TUE		II	30	27	THU		IV	49	27	SUN	Holiday			27	TUE			
28	SUN	Holiday			28	WED		III	31	28	FRI	Student Feedback-2	V	50	28	MON		I	72	28	WED			
29	MON		I	7	29	THU	Student Feedback-1	IV	32	29	SAT		II	51	29	TUE		II	73	29	THU	Univ.Theory Exam commences		
30	TUE		II	8	30	FRI		V	33	30	SUN	Holiday			30	WED		III	74	30	FRI			
31	WED	Vinayagar Chaturthi Holiday								31	MON	Professional Development - Nan Mudhalvan scheme starts	I	52						31	SAT			
No. of Working days			8	8				25	33				19	52				22	74				17	91

Total No. of working days for the semester : 91

Prepared by: Ms.N.Bhavani & Dr.R.Senthamil selvi

PRINCIPAL

SARANATHAN COLLEGE OF ENGINEERING, TRICHY-12

Department of EEE - Academic Planner for Even Semester(2022-23) - II, III & IV UG

FEB'22	DAY	DETAILS	working days	MAR'22	DAY	DETAILS	working days	APR'22	DAY	DETAILS	working days	MAY'22	DAY	DETAILS	working days
01	WED	Classes commence for IV & VI semester T&P Training for III Year	1	01	WED	IA test-1 QP Submission	21	01	SAT	Holiday		01	MON	May Day Holiday	
02	THU	T&P Training for III Year	2	02	THU	Sports Day	22	02	SUN	Holiday		02	TUE	MMM-III for II, III & IV Year	62
03	FRI	Founder's day T&P Training for III Year	3	03	FRI	College Day	23	03	MON	*Switch gear Training for III Yr IA test-2 QP Submission	44	03	WED		63
04	SAT	T&P Training for III Year Holiday		04	SAT	Graduation Day Holiday		04	TUE	MMM-II for II, III & IV Year	45	04	THU	IA test-3	64
05	SUN	Holiday		05	SUN	Holiday		05	WED	CCM-II for II, III & IV Year	46	05	FRI	IA test-3	65
06	MON		4	06	MON	MMM-I for II, III & IV Year	24	06	THU		47	06	SAT	IA test-3	66
07	TUE		5	07	TUE	CCM-I for II, III & IV Year	25	07	FRI	Good Friday Holiday		07	SUN	Holiday	
08	WED		6	08	WED	Womania 2023 Women's Day	26	08	SAT	Holiday		08	MON	IA test-3	67
09	THU		7	09	THU	IA test-1	27	09	SUN	Holiday		09	TUE	IA test-3	68
10	FRI		8	10	FRI	IA test-1	28	10	MON	IA test-2	48	10	WED	IA test-3	69
11	SAT	Holiday		11	SAT	IA test-1	29	11	TUE	IA test-2	49	11	THU		70
12	SUN	Holiday		12	SUN	Holiday		12	WED	IA test-2	50	12	FRI	Syllabus completion	71
13	MON		9	13	MON	IA test-1	30	13	THU	IA test-2	51	13	SAT	Holiday	
14	TUE		10	14	TUE	IA test-1	31	14	FRI	Tamil New Year Day Holiday		14	SUN	Holiday	
15	WED		11	15	WED	IA test-1	32	15	SAT	Holiday		15	MON	Commencement of University Practical exams	
16	THU		12	16	THU		33	16	SUN	Holiday		16	TUE		
17	FRI		13	17	FRI		34	17	MON	IA test-2	52	17	WED		
18	SAT	Holiday		18	SAT	Holiday		18	TUE	IA test-2	53	18	THU		
19	SUN	Holiday		19	SUN	Holiday		19	WED		54	19	FRI	Course File R-4 / Log Book Submission	
20	MON	Classes commence for VIII semester	14	20	MON	*Switch gear Training for III Yr IA Test -I Analysis Students Feedback-I	35	20	THU		55	20	SAT		
21	TUE		15	21	TUE	Course File R-2 / Log Book Submission	36	21	FRI	IA Test -II Analysis	56	21	SUN		
22	WED		16	22	WED	Telugu New Year Day Holiday		22	SAT	Ramzan Holiday		22	MON		
23	THU		17	23	THU		37	23	SUN	Holiday		23	TUE		
24	FRI		18	24	FRI		38	24	MON	Students Feedback-II	57	24	WED		
25	SAT	Holiday		25	SAT	Holiday		25	TUE	Course File R-3 / Log Book Submission	58	25	THU		
26	SUN	Holiday		26	SUN	Holiday		26	WED	CCM-III for II, III & IV Year	59	26	FRI	Commencement of University Theory exams	
27	MON		19	27	MON	*Switch gear Training for III Yr	39	27	THU	Founder's Memorial day * National Conference	60	27	SAT		
28	TUE		20	28	TUE	*One day Workshop	40	28	FRI	IA test-3 QP Submission	61	28	SUN		
				29	WED		41	29	SAT	Holiday		29	MON		
				30	THU		42	30	SUN	Holiday		30	TUE		
				31	FRI		43					31	WED		
		No. of Working days	20				23				18				10

Total No.of working days for the semester : 71

Summer workshops: II year Studeum one day Workshop; III Yr-Switchgear Training

Every Month 1st Monday staff meeting with HOD, MMM(Mentor Mentee Meeting), CCM (Class committee meeting) ,IATest(Interual assessment Test) ,QP(Question paper), *Tentative dates

HOD/EEE

SARANATHAN COLLEGE OF ENGINEERING
Venkateswara Nagar, Panjappur, Tiruchirappalli - 620012
Department of Electrical & Electronics Engineering
WORKLOAD -ALLOCATION FOR ACADEMIC YEAR 2022-23 (EVEN SEM)

Date: 30.12.2022

S.NO.	FACULTY NAME	SUBJECT CODE & TITLE	YEAR / SEM/SEC/ BRANCH	THEORY/ LAB/ PROJECT	HOURS	TOTAL HOURS
1	Dr.C.Krishnakumar Prof & Head	GE8076–Professional Ethics in Engineering	III/VII/EEE	THEORY	4	4
2	Dr.S.Vijayalakshmi Assoc.Prof.	EE3404-Microprocessor and Microcontroller	II/IV/EEE	THEORY	5	18
		BE3251-Basic Electrical and Electronics Engineering	I/II/CSE-B	THEORY	4	
		EE8611 – Mini Project	III/VI/EEE	LAB	6	
		GE3271-Engineering Practices Laboratory	I/II/CSE-B	LAB	3	
3	Dr.M.V.Suganyadevi Assoc.Prof.	EE8602 – Protection & Switchgear	III/VI/EEE	THEORY	5	18
		BE3251 – Basic Electrical and Electronics Engineering	I/II/CS&BS	THEORY	4	
		EE8661 – Power Electronics and Drives Laboratory	III/VI/EEE	LAB	6	
		GE3271-Engineering Practices Laboratory	I/II/CS&BS	LAB	3	
4	Dr.K.Rajkumar Asst.Prof.	EE3405- Electrical Machines – II	II/IV/EEE	THEORY	5	18
		OME4321-Energy Conservation and Management in Domestic Sector	II/III/ME-PED	THEORY	4	
		EE3411-Elecctrical machine Laboratory– II	II/IV/EEE	LAB	6	
		GE3271-Engineering Practices Laboratory	I/II/AI&ML	LAB	3	
5	Mr.B.Paranthagan Assoc.Prof.	EE3403 – Measurement & Instrumentation	II/IV/EEE	THEORY	5	18
		BE3251 – Basic Electrical and Electronics Engineering	I/II/CSE-A	THEORY	4	
		EE3411-Elecctrical Machines Laboratory – II	II/IV/EEE	LAB	6	
		GE3271-Engineering Practices Laboratory	I/II/CSE-A	LAB	3	
6	Mr.R.Balasubramanian Assoc.Prof.	IC3452-Electrical Machines and Drives	II/IV/ICE	THEORY	3	19
		Professional Elective-III	I/II/ME-PED	THEORY	4	
		EE3271 – Electric circuits Laboratory	I/II/EEE	LAB	6	
		IC3452-Electrical Machines and Drives	II/IV/ICE	LAB	3	
		BE3272-Basic Electrical,Electronics and Instrumentation Engineering Laboratory	I/II/Civil	LAB	3	
7	Dr.M.Marimuthu Asst.Prof.	EE3251– Electric Circuit Analysis	I/II/EEE	THEORY	5	19
		EE8691-Embedded systems	II/VI/EEE	THEORY	5	
		EE3271 – Electric circuits Laboratory	I/II/EEE	LAB	6	
		GE3271-Engineering Practices Laboratory	I/II/Civil & ICE	LAB	3	
8	Mrs.C.Pearline kamalini Asst.Prof.	EE8005 – Special Electrical Machines	III/VI/EEE	THEORY	5	18
		BE3251 – Basic Electrical and Electronics Engineering	I/II/AI&DS-B	THEORY	4	
		EE8661-Power Electronics and Drives Laboratory	III/VI/EEE	LAB	6	
		GE3271-Engineering Practices Laboratory	I/II/AI&DS-B	LAB	3	
9	Mr.S.Ramprasath Asst.Prof.	EE8601 – Solid state Drives	III/VI/EEE	THEORY	5	18
		BE3254– Basic Electrical and Instrumentation Enginering	I/II/ECE-A	THEORY	4	
		EE8661-Power Electronics and Drives Laboratory	III/VI/EEE	LAB	6	
		GE3271-Engineering Practices Laboratory	I/II/ECE-A	LAB	3	

S.NO.	FACULTY NAME	SUBJECT CODE & TITLE	YEAR / SEM/SEC/ BRANCH	THEORY/ LAB/ PROJECT	HOURS	TOTAL HOURS
10	Dr.P.Ram Prakash Asst.Prof.	BE3251 – Basic Electrical and Electronics Engineering	I/II/IT	THEORY	4	17
		BE3251 – Basic Electrical and Electronics Engineering	I/II/AI&ML	THEORY	4	
		BE3272-Basic Electrical,Electronics and Instrumentation Engineering Laboratory	I/II/Civil	LAB	3	
		PX4212-Design Laboratory for Power Electronics Systems	I/II/ME-PED	LAB	3	
		GE3271-Engineering Practices Laboratory	I/II/IT	LAB	3	
11	Mr.P.Rameshbabu Asst.Ptof.	EE8002-Design of Electrical Apparatus	III/VI/EEE	THEORY	5	18
		PX4201-Analysis of Electrical Drives	I/II/ME-PED	THEORY	4	
		EE3411-Electrical Machine Laboratory - II	II/IV/EEE	LAB	6	
		PX4211-Power Electronics and Drives Laboratory	I/II/ME-PED	LAB	3	
12	Mr.R.Sridhar Asst.Prof.	BE3251– Basic Electrical and Electronics Engineering	I/II/AI&DS-A	THEORY	4	17
		PX4202 -Special Electrical Machines	I/II/ME-PED	THEORY	4	
		GE3271-Engineering Practices Laboratory	I/II/AI&DS-A	LAB	3	
		BE3271– Basic Electrical and Electronics Engineering Laboratory	I/II/Mech	LAB	6	
13	Mr.R.Satheesh Asst.Prof.	EE8401-Transmission & Distribution	II/IV/EEE	THEORY	6	19
		Professional Elective –II	I/II/ME-PED	THEORY	4	
		EE3271-Electric circuits Laboratory	I/II/EEE	LAB	6	
		GE3271-Engineering Practices Laboratory	I/II/Mech	LAB	3	
14	Dr.R.Vijay Asst.Prof.	BE3252-Basic Electrical, Electronics and Instrumentation Engineering	I/II/Civil	THEORY	4	19
		BE3254– Basic Electrical and Instrumentation Enginering	I/II/ECE-B	THEORY	4	
		BE3271– Basic Electrical and Electronics Engineering Laboratoryoratory	I/II/Mech	LAB	6	
		GE3271-Engineering Practices Laboratory	I/II/ECE-B	LAB	3	
		Training and Placement	III/VI/EEE		2	
15	Mr.S.Vigneshwaran Asst.Prof.	BE3251-Basic Electrical and Electronics Engineering	I/II/Mech	THEORY	4	17
		PX4251- Electric Vehicles and Power Management	I/II/ME-PED	THEORY	4	
		GE3271-Engineering Practices Laboratory	I/II/EEE	LAB	3	
		BE3271– Basic Electrical and Electronics Engineering Laboratory	I/II/Mech	LAB	6	

HOD-EEE

PRINCIPAL

SARANATHAN COLLEGE OF ENGINEERING

Venkateswara Nagar, Panjappur, Tiruchirappalli - 620012

Department of Electrical & Electronics Engineering

WORKLOAD -ALLOCATION FOR ACADEMIC YEAR 2022-23 (ODD SEM)

Date: 12.08.2022

S.NO.	NAME	SUBJECT	SUBJECT CODE	YEAR / SEM/SEC/ BRANCH	THEORY/ LAB/ PROJECT	HOURS	TOTAL HOURS
1	Dr.C.Krishnakumar Prof & Head	Renewable Energy Systems	EE8703	IV/VII/A/EEE	THEORY	5	5
2	Dr.S.Vijayalakshmi Assoc.Prof.	Digital Logic Circuits	DLC	II/III/EEE	THEORY	6	18
		High Voltage Direct Current Transmission	EE8017	IV/VIII/A/EEE	THEORY	4	
		Electron Devices & Circuits Laboratory	EDC LAB	II/III/EEE	LAB	6	
		Project Phase-I	PX4311	II/III/PED	PROJECT	2	
3	Dr.M.V.Suganyadevi Assoc.Prof.	Power System Analysis	EE8501	III/V/EEE	THEORY	5	19
		Power System Operation and Control	EE8702	IV/VII/A/EEE	THEORY	5	
		Power System Simulation Laboratory	EE8711	IV/VII/A/EEE	LAB	6	
		Control and Instrumentation Laboratory	EE8511	II/III/EEE	LAB	3	
4	Mr.B.Paranthagan Assoc.Prof.	Electromagnetic Theory	EMT	II/III/EEE	THEORY	6	16
		High Voltage Direct Current Transmission	EE8017	IV/VIII/B/EEE	THEORY	4	
		Power System Simulation Laboratory	EE8711	IV/VIII/B/EEE	LAB	6	
5	Mr.R.Balasubramanian Assoc.Prof.	Electrical Machines & Drives	EMD	II/III/ICE	THEORY	4	16
		Analysis of Power Converters	PX4151	I/I/PED	THEORY	4	
		Electrical Machines & Drives	EMD	II/III/ICE	LAB	2	
		Electrical Machines Laboratory - I	EM-1 LAB	II/III/EEE	LAB	6	
6	Dr.K.Rajkumar Associate.Prof.	Power System Transients	EE8010	IV/VII/B/EEE	THEORY	5	18
		Research Methodology and IPRS	RM4151	I/II/PED	THEORY	4	
		Electrical Machines Laboratory - I	EM-1 LAB	II/III/EEE	LAB	6	
		Renewable Energy Systems Laboratory	EE8712	IV/VII/B/EEE	LAB	3	
7	Dr.M.Marimuthu Asst. Prof.	Microprocessors and Microcontrollers	EE8551	III/V/A/EEE	THEORY	5	18
		Fiber Optics and Laser Instrumentation	EI8075	IV/VII/A/EEE	THEORY	5	
		Control and Instrumentation Laboratory	EE8511	III/V/EEE	LAB	6	
		Project Work Phase I	PX4311	II/III/PED	LAB	2	
8	Dr.P.Ramprakash Asst.Prof.	Digital Signal Processing	EE8591	III/V/EEE	THEORY	6	17
		Fiber Optics and Laser Instrumentation	EI8075	IV/VII/A/EEE	THEORY	5	
		Renewable Energy Systems Laboratory	EE8712	IV/VII/A/EEE	LAB	6	
9	Mrs.C.Pearline kamalini Asst.Prof.	Electron Devices and Circuits	EDC	II/III/EEE	THEORY	5	18
		Distributed Generation and Micro Grid	PS4071	II/III/PED	THEORY	4	
		Electron Devices & Circuits Laboratory	EE8712	II/III/EEE	LAB	6	
		Renewable Energy Systems Laboratory	EE8712	IV/VII/A/EEE	LAB	3	

10	Mr.S.Ramprasath Asst.Prof.	Renewable Energy Systems	EE8703	IV/VII/A/EEE	THEORY	5	19
		Power Electronics	EE8552	III/V/EEE	THEORY	5	
		Analog and Digital Controllers for PE Converters Laboratory	PX5152	I/I/PED	LAB	3	
		Renewable Energy Systems Laboratory	EE8712	IV/VII/A/EEE	LAB	6	
11	Mr.P.Rameshbabu Asst.Prof.	Electrical Machines - I	EM-1	II/III/EEE	THEORY	5	18
		Analysis of Electrical Machines	PX4101	I/I/PED	THEORY	4	
		Electrical Machines Laboratory - I	EM-1 LAB	II/III/EEE	LAB	6	
		Power Converters Laboratory	PX4161	I/I/PED	LAB	3	
12	Mr.R.Sridhar Asst.Prof.	Power System Transients	EE8010	IV/VII/A/EEE	THEORY	5	19
		Wind Energy Conversion Systems	PX5071	II/III/PED	THEORY	4	
		Control and Instrumentation Laboratory	EE8361	II/III/EEE	LAB	6	
		Electrical Machines & Drives	EMD LAB	II/III/ICE	LAB	1	
		Renewable Energy Systems Laboratory	EE8712	IV/VII/B/EEE	LAB	3	
13	Mr.R.Satheesh Asst.Prof.	Power System Operation and Control	EE8702	IV/VII/B/EEE	THEORY	5	17
		Power System Simulation Laboratory	EE8711	IV/VII/A/EEE	LAB	6	
		Power System Simulation Laboratory	EE8711	IV/VII/B/EEE	LAB	6	
14	Dr.R.Vijay Asst.Prof.	High Voltage Engineering	EE8701	IV/VII/A/EEE	THEORY	5	18
		Power Semiconductor Devices	PX5101	I/I/PED	THEORY	4	
		Training and Placement	T&P	III/V/EEE		2	
		Renewable Energy Systems Laboratory	EE8712	IV/VII/A/EEE	LAB	6	
		Electrical Machines & Drives	EMD LAB	II/III/ICE	LAB	1	
15	Mrs.N.Gayathri Asst.Prof.	Basics of Biomedical Instrumentation	OMD551	III/V/EEE	THEORY	4	17
		Open Elective 1		II/III/PED	THEORY	4	
		Electron Devices & Circuits Laboratory	EDC LAB	II/III/EEE	LAB	3	
		Renewable Energy Systems Laboratory	EE8712	IV/VII/B/EEE	LAB	6	
16	Mr.S.Vigneshwaran Asst.Prof.	High Voltage Engineering	EE8701	IV/VII/A/EEE	THEORY	5	18
		Modelling and Design of SMPS	PX4102	I/I/PED	THEORY	4	
		Control and Instrumentation Laboratory	EE8361	II/III/EEE	LAB	3	
		Electron Devices & Circuits Laboratory	ECD LAB	II/III/EEE	LAB	3	
		Renewable Energy Systems Laboratory	EE8712	IV/VII/A/EEE	LAB	3	
TOTAL PERIODS							**271**

HOD-EEE

PRINCIPAL

2022-23 (ODD SEM)

EE8591 - DSP

IIIrd Yr - V SEM - EEE

SARANATHAN COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi, NBA Accredited, Affiliated to Anna University, Chennai)

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

REVIEW OF COURSE FILE

S.No.	Details Date:	Review 1	2	3	4	5
1.	Vision, Mission, PEOs, POs, PSOs, Blooms taxonomy [1]	✓				
2.	Timetable/Workload of the staff – Distribution of teaching load – Roles and Responsibilities [1]	✓				
3.	Syllabus signed by staff & HoD [1]	✓				
4.	Lecture Schedule signed by staff & HoD [1]	✓				
5.	Course Committee meeting circular and minutes [1]	✓				
6.	Identification of Curricular gap and Content Beyond the syllabus [1]	✓				
7.	Previous AU Question papers (at least 5) [1]	✓				
8.	Unit wise Q&A and Objective type questions-20 questions in each unit with answers [1]	✓				
9.	Unit wise course material [1]	✓				
10.	Assignment question paper with sample answer sheets (at least 3) and mark entry [234]	✓	✓	✓	✓	
11.	Tutorial question paper with key (minimum 3 Tutorials per unit, 15 Tutorials per course) and mark entry [234]				✓	
12.	IA test Q Paper with Key, sample answer papers (at least 3) and mark entry [234]	✓	✓	✓	✓	
13.	IA Test- Performance analysis-CAP-evidence-root cause analysis. [234]					
14.	Makeup Test –Q paper-Attendance-marks - sample answer papers [234]	✓	✓	✓	✓	
15.	Remedial Test–Q paper-Attendance-marks - sample answer papers [234]	✓	✓	✓	✓	
16.	AU Web portal entry sheet [234]				✓	
17.	Very poor performance in first two tests-action taken - communication to parents-evidence. [23]				–	
18.	Absence for two tests-action taken-communication to parents-evidence. [23]				–	
19.	Indiscipline of student reported, if any [234]				–	
20.	Special class/coaching class/remedial class/attendance-CAP [234]		✓			
21.	Conduct of Seminar, Quizzes - proof [234]				–	
22.	Content beyond the syllabus – proof [234]				✓	
23.	Course end survey [4]					✓
24.	Internal Assessment sheet [4]					✓
25.	AU question paper with students feedback [5]					–
26.	Discrepancy of the question paper and correspondence, if any [5]					
27.	AU result analysis-Details of arrear students. [5]					
28.	AU grade sheet [5]					
29.	CO – PO & PSO attainment sheet [5]					
	Signature of Course handling faculty	2/1	6/1	3/1	5/1	
	Signature of HoD					

31/1

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2022-23 (EVEN SEM)

II Yr - IV SEM - EEE.

EE3401 - M & I

SARANATHAN COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi, NBA Accredited, Affiliated to Anna University, Chennai)

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

REVIEW OF COURSE FILE

S.No.	Details	Review				
		1	2	3	4	5
	Date:	09.02.23	03.04.23			
1.	Vision, Mission, PEOs, POs, PSOs, Blooms taxonomy [1]	✓				
2.	Timetable/Workload of the staff – Distribution of teaching load – Roles and Responsibilities[1]	✓				
3.	Syllabus signed by staff & HoD[1]	✓				
4.	Lecture Schedule signed by staff & HoD[1]	✓				
5.	Course Committee meeting circular and minutes[1]	✓				
6.	Identification of Curricular gap and Content Beyond the syllabus[1]	✓				
7.	Previous AU Question papers (at least 5)[1]	✓				
8.	Unit wise Q&A and Objective type questions-20 questions in each unit with answers[1]	✓				
9.	Unit wise course material [1]	✓				
10.	Assignment question paper with sample answer sheets (at least 3) and mark entry [234]		✓			
11.	Tutorial question paper with key (minimum 3 Tutorials per unit, 15 Tutorials per course) and mark entry [234]		✓			
12.	IA test Q Paper with Key, sample answer papers (at least 3) and mark entry[234]		✓	✓	✓	
13.	IA Test- Performance analysis-CAP-evidence-root cause analysis. [234]		✓	✓	✓	
14.	Makeup Test –Q paper-Attendance-marks - sample answer papers[234]		✓	✓	–	
15.	Remedial Test–Q paper-Attendance-marks - sample answer papers[234]		–	–		
16.	AU Web portal entry sheet[234]		✓			
17.	Very poor performance in first two tests-action taken - communication to parents-evidence.[23]					
18.	Absence for two tests-action taken-communication to parents-evidence. [23]					
19.	Indiscipline of student reported, if any [234]					
20.	Special class/coaching class/remedial class/attendance-CAP [234]				✓	
21.	Conduct of Seminar, Quizzes - proof[234]					
22.	Content beyond the syllabus – proof [234]					✓
23.	Course end survey [4]					
24.	Internal Assessment sheet [4]					
25.	AU question paper with students feedback [5]					✓
26.	Discrepancy of the question paper and correspondence, if any [5]					–
27.	AU result analysis-Details of arrear students. [5]					
28.	AU grade sheet [5]					
29.	CO – PO & PSO attainment sheet [5]					
	Signature of Course handling faculty					
	Signature of HoD					

9/2 10/4 27/6

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LESSON PLAN

Sl. No	Date	Period Number	Topics to be Covered	Book No (Page No)
UNIT I: TRANSMISSION LINE PARAMETERS				**Target Periods 9**
1	02.02.23	4	Structure of electric power system, Different operating voltages of generation, transmission and distribution	T1 (14), T3 (5)
2	02.02.23	6	Resistance, inductance of single conductor	T1 (121), R1 (13)
3	07.02.23	5,6	Flux linkage in group of conductors, inductance of single phase line	T3 (151), T4 (205)
4	08.02.23	1,7	Inductance of three phase line – symmetrical and unsymmetrical configurations with transposition of conductors	T1 (109), T3 (159), T4 (209)
5	09.02.23	3	Concepts of GMR and GMD, inductance of double circuit lines	T3 (155), T4 (212)
6	10.02.23	1	GMR of bundled conductors	T3 (166),
7	10.02.23	5	Capacitance of single phase line, 3 phase symmetrically spaced line	T3 (174), T4 (222)
8	16.02.23	1	Capacitance of unsymmetrical configuration, double circuit lines	T3 (177), T4 (223)
9	16.02.23	5	Skin and proximity effects - interference with neighboring communication circuits	T1 (122), T3 (167)
10	17.02.23	4	Typical configurations, conductor types and electrical parameters of EHV lines, corona discharges	T1 (852), T4 (162)
11	09.02.23	4	Analytical problems	
12	20.02.23	3	Analytical problems	
				Total Planned periods -12
Assignment-I			*Date of Submission:*	
UNIT II			**MODELLING AND PERFORMANCE OF TRANSMISSION LINES**	**Target Periods : 9**
14	20.02.23	7	Classification of transmission lines, short line – equivalent circuit with phasor diagrams	T3 (196), T1 (178)
15	21.02.23	1	Short line – performance derivations	T3 (196), T1 (178)
16	22.02.23	1	Medium line – T model equivalent circuit, phasor diagrams and performance derivations	T3 (205), T1 (186)
17	22.02.23	7	Medium line – pi model equivalent circuit, phasor diagrams and performance derivations	T3 (203), T1 (187)
18	23.02.23	5	Long transmission lines	T3 (210), T1 (188)
19	24.02.23	2	ABCD constants	T1 (191), R1 (68)
20	27.02.23	3	Real and Reactive power flow in lines,	T1 (207), T3 (228)
21	02.03.23	1	Power circle diagrams	T1 (217)
22	06.03.23	3	Surge impedance loading, Corona	T1 (223), R1 (196)
23	01.03.23 02.03.23	6 4	Analytical problems	
24	06.03.23	7, 8	Analytical problems	
IA Test –I:				Total Planned periods -12
Assignment II			*Date of Submission:*	
UNIT III			**MECHANICAL DESIGN OF LINES**	**Target Periods : 9**
25	09.03.23	4	Design of transmission lines – Electrical and mechanical factors	T3 (245)
26	13.03.23	3	Sag and Tension when supports are at equal height	T1 (841), T3(246), T4 (187)
27	13.03.23	7	Sag and Tension when supports are at different heights	T1 (844), T3(249), T4 (188)
28	20.03.23	7	Sag and Tension with different weather conditions	T1 (845), T3(253), T4 (189)

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LESSON PLAN

Sl. No	Date	Period Number	Topics to be Covered	Book No (Page No)
29	21.03.23	5	Tower spotting, types of towers	T1 (845), T3(255)
30	23.03.23	1	Types of insulators	T3 (235), T1(829), T4 (165)
31	23.03.23	5	Potential distribution in string of insulators	T4 (168), T1(830)
32	27.03.23	3	Methods of improving string efficiency	T4 (170), T1(832)
33	28.03.23	7	Testing of insulators	T1 (836)
34	14.03.23 16.03.23	8 4	Analytical problems	
35	27.03.23 29.03.23	6, 8 1	Analytical problems	
IA Test –II:			Total Planned periods -11	
UNIT IV			**UNDER GROUND CABLES**	**Target Periods :9**
36	01.04.23	1	Types of cables	T1 (810), T4(265)
37	03.04.23	8	Construction of single core and 3 core cables	T1 (810), T4(265)
38	05.04.23	1	Insulation Resistance	T3 (235), T1(829)
39	06.04.23	3	Potential Gradient of single core cable	T1 (836)
40	10.04.23	6	Capacitance of single core cable	T4 (165)
41	10.04.23	8	Capacitance of 3 core cables	T1 (813), T3(280), T4 (275)
42	12.04.23	3	Grading of cables	T1 (814), T3(283), T4 (280)
43	17.04.23	8		
44	25.04.23	5	Power factor and heating of cables	T1 (822)
45	27.04.23	4	DC cables	T1 (826)
46	24.04.23	8	Analytical problems	
47	26.04.23	1	Analytical problems	
			Total Planned periods -12	
Assignment III			*Date of Submission:*	
UNIT V: DISTRIBUTION SYSTEMS				**Target Periods: 9**
48	02.05.23	5	Distribution Systems – General Aspects	R1 (465), T4(131)
49	03.05.23	1	Kelvin's Law	T4 (189)
50	04.05.23	4	AC and DC distributions	T3 (378), T4 (361)
51	08.05.23	8		
52	09.05.23	5		
53	10.05.23	6	Techniques of Voltage Control and Power factor improvement	T3 (362), T4 (316)
54	11.05.23	4	Distribution Loss	
55	16.05.23	5	Types of Substations -Methods of Grounding	T3 (395), T4 (586)
56	18.05.23	5	Trends in Transmission and Distribution: EHVAC, HVDC and FACTS (Qualitative treatment only).	T3 (299), T1 (864)
57	10.05.23	1	Analytical problems	
58	19.05.23	1	Analytical problems	

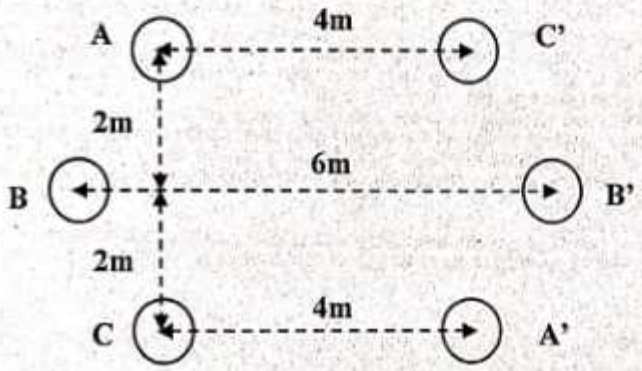
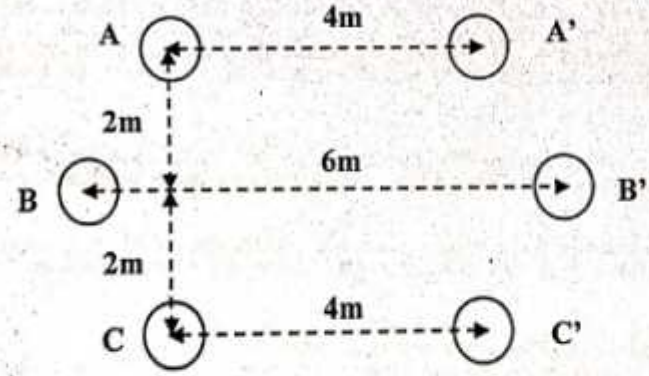
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SARANATHAN COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Assignment – 01			Date of Issue:	16.02.2023	Marks	40
Course code	EE3401	Course Title	TRANSMISSION AND DISTRIBUTION			
Year	II	Semester	IV	Date of Submission:	20.02.2023	

Q.No	Questions	CO
1	A three phase double circuit line has vertical configuration as shown in figure. Radius of each conductor is 3 cm. Find the inductance per phase per kilometre of the line length.  **Ans: 0.4817 mH/km**	C212.1
2	A three phase double circuit line has vertical configuration as shown in figure. Radius of each conductor is 3 cm. Find the inductance per phase per kilometre of the line length.  **Ans: 0.4934 mH/km**	
3	What do you infer from the results of **1** and **2**?	

Faculty Incharge: R.Satheesh, AP-EEE

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Transmission And Distribution

Assignment-I

11/5/23

Description	Mark allotted	Mark awarded
Solution	25	25
Presentation	10	10
Submission	5	5
Total	40	40

Name : R. Amirtish

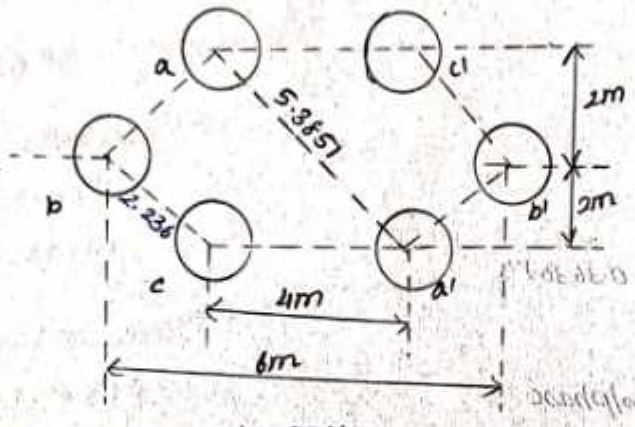
Batch no: 243006

year : II-year

Submission
Date: 20:02:23

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1). A 3ϕ double circuit line has vertical configuration as shown in fig. Radius of each conductor 2cm. find the inductance per phase per km of the line length. (not symmetrical spacing)



$L = 0.2 \ln\left(\frac{GMD}{GMR}\right)$ $\quad r' = 0.7788 \times r$

$= 0.7788 \times 3 \times 10^{-2}$

$= 0.0233\,m$

Distances:

$D_{ab} = D_{bc} = D_{a'b'} = D_{b'c'} = 2.2360\,m$

$D_{ac} = D_{ca} = D_{a'c'} = D_{c'a'} = 4\,m$

$D_{bb'} = 6\,m$; $D_{c'a} = D_{aa'} = D_{ca'} = 4\,m$

$D_{aa'} = D_{cc'} = 5.6568\,m$

$D_{ab'} = D_{bc'} = D_{ba'} = D_{cb'} = 5.3851\,m$

$D_{b'c} = D_{a'b} = 5.3851\,m$

$GMD = (D_{AB} D_{BC} D_{CA})^{1/3}$

$D_{AB} = (D_{ab} \times D_{ab'} \times D_{a'b} \times D_{a'b'})^{1/4}$

$= (2.2360 \times 5.3851 \times 5.3851 \times 2.2360)^{1/4}$

$= 3.4700\,m$

$D_{BC} = (D_{bc} \times D_{bc'} \times D_{b'c} \times D_{b'c'})^{1/4}$

$= (2.2360 \times 5.3851 \times 5.3851 \times 2.2360)^{1/4}$

$= 3.4700\,m$

$D_{CA} = (D_{ca} \times D_{ca'} \times D_{c'a} \times D_{c'a'})^{1/4}$

$= (4 \times 4 \times 4 \times 4)^{1/4}$

$= 4\,m.$

$GMD = (3.47 \times 3.47 \times 4)^{1/3}$

$= 3.6288$

$GMR = (GMR_A \times GMR_B \times GMR_C)^{1/3}$

$GMR_A = (D_{aa} \times D_{aa'})^{1/2}$

$= (r' \times 5.6568)^{1/2}$

$= (0.0233 \times 5.6568)^{1/2}$

$= 0.3630$

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$GMR_B = (D_{bb'} \times D_{bb})^{1/2}$

$= (r' \times r)^{1/2}$

$= 0.3730$

$GMR_C = (D_{cc} \times D_{cc'})^{1/2}$

$= (r' \times 5.6588)^{1/2}$

$= (0.0233 \times 5.658)^{1/2}$

$= 0.3630$

$GMR = (0.3630 \times 0.3738 \times 0.3630)^{1/3}$

$= 0.3665$

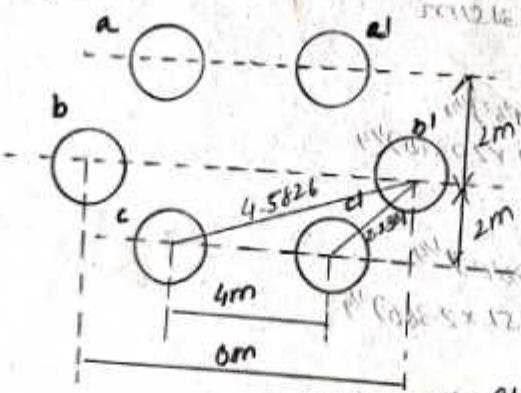
$L = 0.2 \ln\left(\frac{GMD}{GMR}\right)$ mH/km/phase

$= 0.2 \ln\left(\frac{3.6383}{0.3665}\right)$

$= 0.4590$ mH/km/phase.

---

2). A 3ϕ double circuit line has vertical configuration as shown in fig radius of each conductor is 3cm. find the inductance per phase per km of the lines?



$D_{ab} = D_{a'b'} = D_{bc} = D_{b'c'} = 2.2361$m ; $D_{ab'} = D_{a'b} = D_{bc'} = D_{b'c} = 5.3851$m

$D_{b'c} = 4.5826$m

$L = 0.2 \ln\left(\frac{GMD}{GMR}\right)$

$GMD = (D_{AB} \times D_{BC} \times D_{CA})^{1/3}$

$D_{AB} = (D_{ab}\ D_{ab'}\ D_{a'b}\ D_{a'b'}) = (2.2361 \times 5.385 \times 5.385 \times 2.2361)^{1/4}$

$= 3.4760$m

$D_{BC} = (D_{bc} \times D_{bc'} \times D_{b'c} \times D_{b'c'}) = (2.2361 \times 4 \times 5.385 \times 4 \times 2.2361)^{1/4}$

$= 3.4760$m.

$D_{CA} = (D_{ca}\ D_{c'a}\ D_{ca'}\ D_{c'a'}) = (4 \times 5.656 \times 5.656 \times 4)^{1/4}$

$= 4.7561$m

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GMD = 3.8624m

r' = 0.7788 r

= 0.0234m

GMR = (GMRB × GMRA × GMRC)^1/3

GMRA = (Daa Daa')^1/2

= (r' × 4)^1/2

= 0.3059 m

GMRB = (Dbb Dbb')^1/2

= (r' × 6)^1/2

= 0.374m

GMRC = (Dcc Dcc')^1/2

= (r' × 4)^1/2

= 0.3059m

GMR = 0.3273 m

$L = 0.2 \ln\left(\frac{3.8624}{0.3273}\right)$

= 0.4936 mH/km/phase.

Inference:-

* The value of inductance is less for 3φ double circuit line if one set RYB is changed

* the one set of changed RYB has greater Inductance value.

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TRANSMISSION AND DISTRIBUTION

ASSIGNMENT-1

DESCRIPTION	MARKS ALLOTTED	MARKS OBTAINED
SOLUTION	25	25
NEATNESS	10	10
SUBMISSION	05	5
TOTAL	40	40

SUBMITTED BY

NAME: SUDHAN SANKAR.S

BATCH NO: 243053

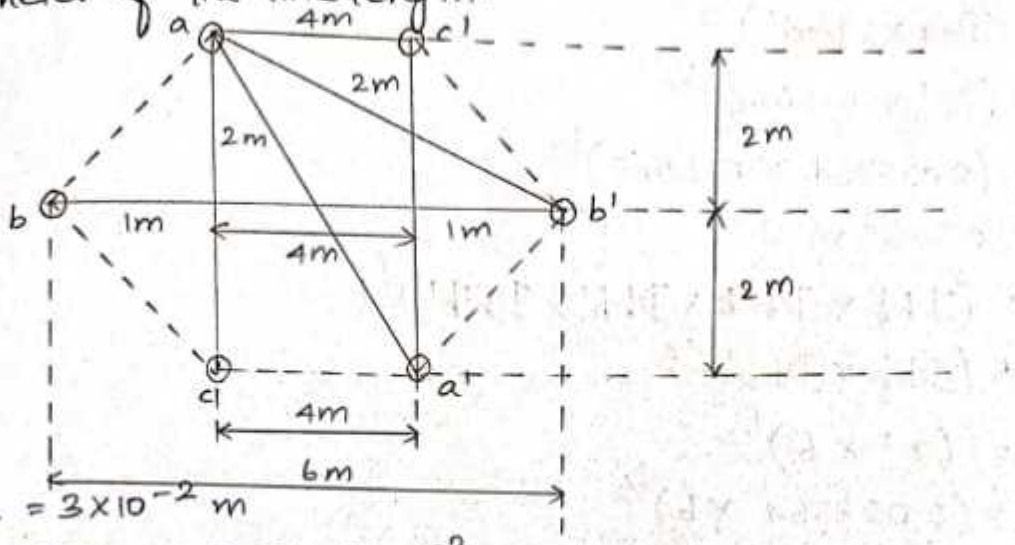
BRANCH: EEE

YEAR: II

SUBMISSION DATE: 21.02.2023

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1. A 3ϕ double circuit line has vertical configuration as shown in figure radius of each conductor is 3cm find the inductance per phase per kilometer of the line length.



$r = 3cm = 3\times10^{-2}\ m$

$r' = 0.7788\,r = 0.7788\times3\times10^{-2}$

$r' = 0.023364\ m$

$D_{ab} = D_{bc} = D_{a'b'} = D_{b'c'} = \sqrt{2^2+1^2} = 2.2360\ m$

$D_{ac'} = D_{a'c} = D_{ac} = D_{a'c'} = 4m$

$D_{bb'} = 6m$

$D_{aa'} = D_{cc'} = \sqrt{4^2+4^2} = 5.6568\ m$

$D_{ab'} = D_{a'b} = D_{c'b} = D_{b'c} = \sqrt{2^2+5^2} = 5.3851\ m$

$$L = 0.2 \times \ln\left(\frac{GMD}{GMR}\right)$$

$GMD = (D_{AB}\times D_{BC}\times D_{AC})^{1/3}$

$D_{AB} = (D_{ab}\times D_{a'b}\times D_{ab'}\times D_{a'b'})^{1/4} = (2.2360\times5.3851\times5.3851\times2.2360)$

$= 3.4700\ m$

$D_{BC} = (D_{bc}\times D_{bc'}\times D_{b'c}\times D_{b'c'})^{1/4}$

$= (2.2360\times5.3851\times5.3851\times2.2360)$

$= 3.4700\ m$

$D_{AC} = (D_{ac}\times D_{ac'}\times D_{a'c}\times D_{a'c'})^{1/4}$

$= (4\times4\times4\times4)^{1/4}$

$= 4\ m$

$GMD = (3.47\times3.47\times4)^{1/3}$

$= 3.6383\ m$

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$$GMR = (GMR_A \times GMR_B \times GMR_C)^{1/3}$$

$$GMR_A = (Daa \times Daa' \times Da'a \times Da'a')^{1/4}$$

$$= (Daa \times Daa')^{1/2}$$

$$= (r' \times 5.6568)^{1/2}$$

$$= (0.023364 \times 5.6568)^{1/2}$$

$$= 0.3635\ m$$

$$GMR_B = (Dbb \times Db'b \times Dbb' \times Db'b')^{1/4}$$

$$= (Dbb \times Dbb')^{1/2}$$

$$= (r' \times 6)^{1/2}$$

$$= (0.023364 \times 6)^{1/2}$$

$$= 0.3744\ m$$

$$GMR_C = (Dcc \times Dcc' \times Dc'c \times Dc'c')^{1/4}$$

$$= (Dcc \times Dcc')^{1/2}$$

$$= (r' \times 5.6568)^{1/2}$$

$$= (0.023364 \times 5.6568)^{1/2}$$

$$= 0.3635\ m$$

$$GMR = (0.3635 \times 0.3744 \times 0.3635)^{1/3}$$

$$= 0.36709\ m$$

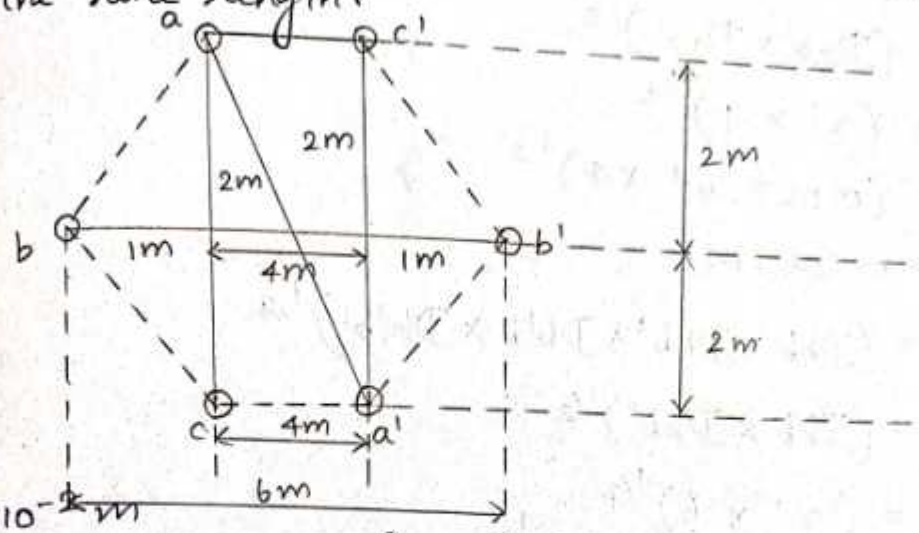
$$L = 0.2 \times \ln\left(\frac{GMD}{GMR}\right)$$

$$= 0.2 \times \ln\left(\frac{3.6383}{0.36709}\right)$$

$$L = 0.4587\ mH/Km/phase$$

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A 3φ double circuit line has vertical configuration as shown in figure radius of each conductor is 3cm find the inductance per phase kilometer of the line length.



$r = 3cm = 3 \times 10^{-2} m$

$r' = 0.7788\, r = 0.7788 \times 3 \times 10^{-2}$

$r' = 0.023364\, m$

$D_{ab} = D_{a'b'} = D_{bc} = D_{b'c'} = \sqrt{2^2+1^2} = 2.23606\, m$

$D_{ab'} = D_{a'b} = D_{bc'} = D_{b'c} = \sqrt{2^2+5^2} = 5.3851\, m$

$D_{aa'} = D_{cc'} = D_{ac} = D_{a'c'} = 4m$

$D_{ac'} = D_{a'c} = \sqrt{4^2+4^2} = 5.6568\, m$

$D_{bb'} = 6m$

$GMD = (D_{AB} \times D_{BC} \times D_{AC})^{1/3}$

$D_{AB} = (D_{ab} \times D_{a'b} \times D_{ab'} \times D_{a'b'})^{1/4}$

$= (2.2360 \times 5.3851 \times 5.3851 \times 2.2360)^{1/4}$

$= 3.4700\, m$

$D_{BC} = (D_{bc} \times D_{b'c} \times D_{bc'} \times D_{b'c'})^{1/4}$

$= (2.2360 \times 5.3851 \times 5.3851 \times 2.2360)^{1/4}$

$= 3.4700\, m$

$D_{AC} = (D_{ac} \times D_{a'c} \times D_{ac'} \times D_{a'c'})^{1/4}$

$= (4 \times 5.6568 \times 5.6568 \times 4)^{1/4}$

$= 4.7568\, m$

$GMD = (3.47 \times 3.47 \times 4.7568)^{1/3}$

$= 3.8547\, m$

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$GMR = (GMR_A \times GMR_B \times GMR_C)$

$GMR_A = (Daa \times Daa' \times Da'a \times Da'a')^{1/4}$

$= (Daa \times Daa')^{1/2}$

$= (r' \times 4)^{1/2}$

$= (0.023364 \times 4)^{1/2}$

$= 0.3057\ m$

$GMR_B = (Dbb \times Dbb' \times Db'b \times Db'b')^{1/4}$

$= (Dbb \times Dbb')^{1/2}$

$= (r' \times 6)^{1/2}$

$= (0.023364 \times 6)^{1/2}$

$= 0.3744\ m$

$GMR_C = (Dcc \times Dcc' \times Dc'c \times Dc'c')^{1/4}$

$= (Dcc \times Dcc')^{1/2}$

$= (r' \times 4)^{1/2}$

$= (0.023364 \times 4)^{1/2}$

$= 0.3057\ m$

$GMR = (0.3057 \times 0.3744 \times 0.3057)$

$= 0.3270\ m$

$L = 0.2 \times \ln\left(\frac{GMD}{GMR}\right)$

$= 0.2 \times \ln\left(\frac{3.8547}{0.3270}\right)$

$= 0.4934\ mH/km/phase$

INFERENCE:

The inductance value of the 3ϕ double circuit line is slightly higher when the same phase conductors are placed nearer to eachother.

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22-23EVEN

Staff Code: satheesh-eee,Assignments/Tutorial/Seminar-1 [Date of Exam -]

Branch: EEE Semester: 4 Subject Code: EE3401 - Sec A ,ShortTitle: T&D

1. For All Assignments,Please Enter Marks Secured for 40.
2. Do not Prefix 0 for Single Digit Marks Eg: if the mark to be entered is 8,put the entry as 8.
3. Mark entry in this screen is Applicable only for UG-Assignments Tests.

S.no	Batchno	Register Number	Name	C1 out of [40]
1	243001	813821105001	ABINESH. P	40
2	243002	813821105002	ADNAN SHEIK IBRAHIM	40
3	243003	813821105003	AJAY. A	40
4	243004	813821105004	AKASH RAJ. A	40
5	243005	813821105005	ALAGU SRINIVASAR. S	40
6	243006	813821105006	AMIRTESH. R	40
7	243007	813821105007	AMIRTHA LAKSHMI. P	40
8	243008	813821105008	ANBARASAN. E	40
9	243009	813821105009	ARIHARAN. S	40
10	243010	813821105010	ATHIDHYAN. N	40
11	243012	813821105012	BARATH YOGESH. R K	40
12	243014	813821105014	DARTHI MARY. S	40
13	243015	813821105015	DEVA ALFRED. S	40
14	243016	813821105016	DHASVANTH. S	40
15	243017	813821105017	DIVYA. R	40
16	243018	813821105018	ELAVARASAN. S	40
17	243019	813821105019	FAIYAZ AHAMED. M	40
18	243020	813821105020	GOKUL. M	40
19	243021	813821105024	HARI KARTHIK. K	40
20	243022	813821105021	HARIHARAN. B	40
21	243023	813821105022	HARIHARAN. M	40
22	243024	813821105023	HARIHARASUDHAN. R	40
23	243025	813821105025	HARISH. H P	40
24	243026	813821105026	IQJAS FATHIMA. I	40
25	243027	813821105027	JAISON. R	40
26	243028	813821105028	KEAVIN. L	40
27	243029	813821105029	LOKESH KANNAN. N	40
28	243030	813821105030	MAFAZ AHAMED. M	40
29	243031	813821105031	MAHESHWARAN. P L	40
30	243032	813821105032	MARZOOK AHAMED. M	40

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31	243033	813821105033	MOHAMED FAIZAL. R	40
32	243034	813821105034	MOHAMED MAZIN. A	40
33	243035	813821105035	MOHAMMED ARSHAD. M	40
34	243036	813821105036	MOHAMMED YUSUF. A	40
35	243037	813821105037	NISHA CATHERINE. V	40
36	243038	813821105038	NITHISH KUMAR. J	40
37	243039	813821105039	NITHISHKUMAR. P	40
38	243040	813821105040	PADMASHARAN. G S	40
39	243041	813821105041	POOJA. Y	40
40	243042	813821105043	PRAVEEN KUMAR. V	40
41	243043	813821105042	PRAVEEN. S	40
42	243044	813821105044	ROJAR GIMSON. A	40
43	243046	813821105045	SHANTHINI. S	40
44	243047	813821105046	SHARULATHA. N	40
45	243048	813821105047	SHEAK ABDULLAH. K	40
46	243049	813821105048	SIVANESAN. B	40
47	243051	813821105049	SRIMATHI. R	40
48	243052	813821105050	SUBALAKSHMI. G	40
49	243053	813821105051	SUDHAN SANKAR. S	40
50	243054	813821105052	SUDHES MARAN. S	40
51	243055	813821105053	SURENDHIRAN. R	40
52	243056	813821105054	TAMILARASAN. P	40
53	243057	813821105055	VINODHINI. R	40
54	243058	813821105056	YAZAR MOHIDEEN. S	40
55	243059	813821105057	YUVHARAAJ. S	40
56	243060	813821105058	ZUBAIR AHAMED. A	40
57	243061	813821105302	KIRSHAN MELWIN. J	40
58	243062	813821105301	JOSHUVA VASANTHAN. K	40

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SARANATHAN COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Assignment – 02			Date of Issue:	25.04.2023	Marks	40
Course code	EE3401	Course Title	TRANSMISSION AND DISTRIBUTION			
Year	II	Semester	IV	Date of Submission:	27.04.2023	

Q.No	Questions	CO
1	A single core lead sheathed cable is graded by using 3 dielectrics of relative permittivity 5, 4 and 3. The conductor diameter is 2cm and overall diameter is 8cm. a) If the 3 dielectrics are worked at same maximum stress of 40 kv/cm, find the safe working voltage of the cable. b) What will be the safe working voltage for an ungraded cable assuming the same conductor diameter, overall diameter and maximum dielectric stress? **Ans: a) 57.81 kV** **b) 39.21 kV**	C212.5

Faculty Incharge: R.Satheesh, AP-EEE

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TRANSMISSION AND DISTRIBUTION

Assignment

11/5/22

40/40

27/04/23

Name : P. Abinash

Bat. No : 243001

Branch : EEE

Sem/year : IV/II

Date : 27.04.23

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Problem:

1) A single core lead sheath cable is graded by using three dielectrics of relative permittivities 5, 4, 3. The conductor diameter is 2cm and overall diameter is 8cm.

a) If the three dielectrics are worked at same maximum stress of 40kV/cm. Find the safe working voltage of the cable.

b) what will be the safe working voltage for an underground cable. Assuming the same conductor diameter, overall diameter and maximum dielectric stress.

Given:

$\varepsilon_{r1} = 5$ $\quad d = 2cm, r = 1cm$

$\varepsilon_{r2} = 4$ $\quad D = 8cm, R = 4cm$

$\varepsilon_{r3} = 3$ $\quad E_{max} = 40kV/cm$

Soln:

a) $E_{max} = 40kV/cm$

$$V = E_{max}\left[r \ln\left(\frac{r_1}{r}\right) + r_1 \ln\left(\frac{r_2}{r_1}\right) + r_2 \ln\left(\frac{R}{r_2}\right)\right]$$

~~$V = 40\times10^3\left[1 \cdot$~~

$$\varepsilon_{r1} r = \varepsilon_{r2} r_1 \Rightarrow r_1 = \frac{\varepsilon_{r1} r}{\varepsilon_{r2}} = \frac{5(1)}{4}$$

$$r_1 = 1.25cm$$

$$\varepsilon_{r2} r_1 = \varepsilon_{r3} r_2 \Rightarrow r_2 = \frac{\varepsilon_{r2} r_1}{\varepsilon_{r3}} = \frac{1.25(4)}{3}$$

$$r_2 = 1.67cm$$

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$$V = 40\times10^{3}\left[(1)\ln\left(\frac{1.25}{1}\right) + (1.25)\ln\left(\frac{1.67}{1.25}\right) + (1.67)\ln\left(\frac{4}{1.67}\right)\right]$$

$$V_{peak} = 81.76\,kV$$

$$V_{rms} = \frac{V_{peak}}{\sqrt{2}} = 57.81\,kV$$

b) $$V = E_{max} \times r\ln\left(\frac{R}{r}\right)$$

$$= 40\times10^{3} \times 1 \times \ln\left(\frac{4}{1}\right)$$

$$V_{peak} = 55.45\,kV$$

$$V_{rms} = \frac{V_{peak}}{\sqrt{2}} = 39.21\,kV$$

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SARANATHAN COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

(Accredited by NBA)

ASSIGNMENT

9/10.

NAME : NIVIN VUOSS. R

BATCH NO : 2330449

COURSE CODE : EE 8591

COURSE TITLE : DSP

YEAR/SEM/SEC : III/V/A

CONTENT (6)	SUBMISSION (2)	PRESENTATION (2)	TOTAL (10)	STAFF SIGNATURE
5	2	2	9	

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PAGE No.

DIGITAL SIGNAL PROCESSING

ASSIGNMENT-1

BATCH NO: 233049

NAME: NIVIN VIDOSS.R

PROPERTIES OF Z-TRANSFORM

$x_1(n) \xleftrightarrow{z} X_1(z)$ and

$x_2(n) \xleftrightarrow{z} X_2(z)$ then

$x(n) = a_1 x_1(n) + a_2 x_2(n)$

$Y(z) = a_1 X_1(z) + a_2 X_2(z)$

TIME SHIFTING

$x(n) \xleftrightarrow{z} X(z)$

$x(n-k) \xleftrightarrow{z} z^{-k} X(z)$

The ROC of $z^{-k} Y(z)$ is the same as that of $X(z)$ except for $z=0$ if $k>0$ and $z=\infty$ if $k<0$. This immediately follows the definition of z-transform.

TIME REVERSAL :-

$x(n) \xleftrightarrow{z} X(z)$. ROC, $r_1 < |z| < r_2$

then

$x(-n) \longleftrightarrow X(z^{-1})$ ROC: $\frac{1}{r_2} < |z| < \frac{1}{r_1}$

PROPERTIES OF DFT

$x_1(n) \longleftrightarrow X_1(k)$

$x_2(n) \xleftrightarrow[N]{DFT} X_2(k)$

Then for any real valued or complex valued constants a_1 & a_2 $a_1 x_1(n) + a_2 x_2(n)$

PERIODICITY :-

If $x(n)$ and $X(k)$ are an N-point DFT pair, then

$x(n+N) = x(n)$ for all n

$X(k+N) = X(k)$ for all k

The periodicity property in the sequence $x(n)$ for a given DFT

The N point DFT of a finite duration sequence $x(n)$ of length $L \leq N$ is equivalent to the N-point DFT of a periodic sequence $x_p(n)$, of period N, which is obtained by

PAGE NO.

Proof

$$Z\{x(-n)\} = \sum_{n=-\infty}^{\infty} x(-n) z^{-n}$$

$$\sum_{l=-\infty}^{\infty} x(l) (z^{-1})^{-l} = X(z^{-1})$$

where the change of variables $l = -n$ is made. the ROC of $Y(z^{-1})$ is $r_1 < |z^{-1}| < r_2$

periodically extending

$$x(n) \; ; \; x_p(n) = \sum_{l=-\infty}^{\infty} x(n - lN)$$

4). DIFFERENTIATION IN THE Z-DOMAIN

If $x(n) \longleftrightarrow X(z)$

then $n x(n) \longrightarrow -z \frac{dX(z)}{dz}$

Proof :-

By differentiating

$$\frac{dX(z)}{dz} = \sum_{n=-\infty}^{\infty} x(n)(-n) z^{-n-1}$$

$$\Rightarrow -z^{-1} \sum_{n=-\infty}^{\infty} [n x(n)] z^{-n}$$

$$= -z^{-1} Z\{x(n)\}$$

SYMMETRY PROPERTIES OF THE DFT

Let us assume that the N-point sequence $x(n)$ and its DFT are both complex valued, then

$$x(n) = x_R(n) + j x_I(n)$$

$$0 \le n \le N-1$$

$$X(k) = X_R(k) + j X_I(k)$$

$$0 \le k \le N-1$$

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5). CONVOLUTION OF TWO SEQUENCE

$x_1(n) \longleftrightarrow X_1(z)$

$x_2(n) \longleftrightarrow X_2(z)$

$x(n) = x_1(n) * x_2(n)$

$X(z) = X_1(z)\, X_2(z)$

The ROC of $X(z)$ is, at least the intersection of that for $X_1(z)$ and $X_2(z)$

6. MULTIPLICATION OF TWO SEQUENCE

If $x_1(n) \longrightarrow X_1(z)$

$x_2(n) \longrightarrow X_2(z)$ then

$x(n) = x_1(n)\, x_2(n) \longleftrightarrow$

$$X(z) = \frac{1}{2\pi j} \oint_c X_1(v)\, X_2\left(\frac{z}{v}\right) v^{-1}\, dv$$

$$X(z) = \frac{1}{2\pi} \oint_c Y_1(v) \left[\sum_{n=-\infty}^{\infty} x_2(n) \left(\frac{z}{v}\right)^{-n} \right]$$

$$= \frac{1}{2\pi} \oint_c Y_1(v)\, X_2\left(\frac{z}{v}\right) v^{-1}\, dv$$

REAL VALUED SEQUENCE

If the sequence $x(n)$ is real, it follows directly

$x(N-k) = X^*(k) = X(-k)$

consequently $|X(N-k)|$

$= |X(k)|$ and $\angle X(N-k)$

$= -\angle X(k)$

REAL AND EVEN SEQUENCE

If $x(n)$ is real and even $x(n) = x(N-n)$

$0 \le n \le N-1$ the yields $x_1(k) = 0$, hence the DFT reduces to

$$X(k) = \sum_{n=0}^{N-1} x(n) \cos \frac{2\pi kn}{N}$$

which is real value and even.. since $x_1(k) = 0$ then DFT reduces to

$$x(n) = \frac{1}{N} \sum_{k=0}^{N-1} X(k) \cos \frac{2\pi kn}{N}$$

$0 \le n \le N-1$

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1) INITIAL VALUE THEOREM

If $x(n)$ is causal, the $x(n)$

$$= \lim_{z \to \infty} X(z)$$

proof since $x(n)$ is causal

$$X(z) = \sum_{n=0}^{\infty} x(n) z^{-n} = x(0) + x(1) z^{-1} + x(2) z^{-2} +$$

as $z \to \infty$, $z^{-n} \to 0$ since $n > 0$

PURELY IMAGINARY SEQUENCE

$$x(n) = j x_1(n)$$

$$X_n(k) = \sum_{n=0}^{N-1} x_1(n) \sin \frac{2\pi kn}{N}$$

$$X_1(k) = \sum_{n=0}^{N-1} x_1(n) \cos \frac{2\pi kn}{N}$$

$x_n(k)$ is odd and

$x_1(k)$ is even

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SARANATHAN COLLEGE OF ENGINEERING

DEPSRTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

EE8591 – DIGITAL SIGNAL PROCESSING

TUTORIAL

Test whether the following systems are linear, causal, time-invariant and memory-less

(i) $y(n) = |x(n)|$

(ii) $y(n) = x(2n)$

(iii) $y(n) = x(n) + \frac{1}{x(n-1)}$

(iv) $y(n) = x(-n)$

(v) $y(n) = \sum_{k=-\infty}^{N+1} x(k)$

SIGNATURE OF FACULTY

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SARANATHAN COLLEGE OF ENGINEERING

DEPSRTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

EE8591 – DIGITAL SIGNAL PROCESSING

TUTORIAL

1. Find the DFT sequence of $x(n) = \{1,1,0,0\}$

2. Determine the convolution sum of two sequences $x(n) = \{3,2,1,2\}$ and $h(n) = \{1,2,1, 2\}$.

3. Calculate the percentage saving in calculations in a 256 point radix-2 FFT, when compared to direct DFT.

4. Obtain the inverse Z-transform of $X(Z) = Z^2 / Z^2+1.5Z+0.5$ for ROC

$|z| > 1$ (ii) $|z| < 0.5$ (iii) $0.5 < |z| < 1$ using any two methods.

5. Determine the discrete time Fourier transform of $x(n) = a^{|n|}$, $|a| < 1$

6. Determine the 8 point DFT of the signal $x(n) = \{1,1,1,1,1,1,0,0\}$ and sketch its magnitude and phase.

7. Find the 8 point DFT of the sequence of $x(n) = \{1/2, 1/2, 1/2, 1/2, 0,0,0,0\}$ using decimation in time radix-2 FFT algorithm

SIGNATURE OF THE FACULTY

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SARANATHAN COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai–25
NBA, NAAC A+ Accredited)

Venkateshwara Nagar, Panjappur, Tiruchirappalli -12

Department of Electrical and Electronics Engineering

Year / Sem : IV / VII **Academic Year : 20222-2023- ODD SEM**

Sub Code - Sub Title : EE8711 - Power Sytsem Simulation Laboratory

List Of Experiments:

Cycle:I

1. Computation of Transmission Line Parameters
2. Formation of Bus Admittance and Impedance Matrices and Solution of Networks
3. Power Flow Analysis using Gauss-Seidel Method.
4. Power Flow Analysis using Newton Raphson Method
5. Symmetric and unsymmetrical fault analysis

Cycle:II

6. Transient stability analysis of SMIB System
7. Economic Dispatch in Power Systems
8. Load – Frequency Dynamics of Single- Area and Two-Area Power Systems
9. State estimation: Weighted least square estimation
10. Electromagnetic Transients in Power Systems : Transmission Line Energization

Staff Incharge **HOD/EEE**

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPALLI - 620 012.

Date: 25-05-2023

Ref : SCE/Syllabus/ Theory/2022-23-Even sem

STATEMENT FOR SYLLABUS COMPLETION

I have handled the subject Electrical Machines - II , code EE 3405 for II year, IV semester, department of EEE B.E/B.Tech/MBA during the academic year 2022 – 23, Even semester.

In this regard, I confirm , that I have taught all the topics mentioned in the syllabus, and took lectures for 77 periods, revised syllabus for 4 periods and discussed the Anna University Examination question papers of the last 6 years.

Signature :

Name : Dr. K. RAJKUMAR

Designation : Associate Professor

Department : EEE

Date : 25/05/2023.

Signature of HoD :

Principal :

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SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPALLI - 620 012.

Date: 25-5-23

Ref : SCE/Syllabus/ Theory/2022-23-Even sem

STATEMENT FOR SYLLABUS COMPLETION

I have handled the subject Protection & Switchgear , code EE8602 for IV year, VI semester, department of EEE B.E/B.Tech/MBA during the academic year 2022 – 23, Even semester.

In this regard, I confirm , that I have taught all the topics mentioned in the syllabus, and took lectures for 60 periods, revised syllabus for 3 periods and discussed the Anna University Examination question papers of the last 5 years.

Signature :

Name : Dr. M.V. SUGANYADEVI

Designation : ASP

Department : EEE

Date : 25-5-23

Signature of HoD :

Principal :

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SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPALLI - 620 012.

Date: 01.12.2022

Ref : SCE/Syllabus/ Theory/2022-23-Odd Sem

STATEMENT FOR SYLLABUS COMPLETION

I have handled the subject Microprocessor and microcontroller, code EE8551 For III Year, V Semester, department of **Electrical and Electronics Engineering** B.E, during the academic year 2022 – 23, Odd semester.

In this regard, I confirm, that I have taught all the topics mentioned in the syllabus, and took lectures for 52 periods, revised syllabus for 4 Periods and discussed the Anna University Examination question papers of the last 5 years.

Signature : H. Marimuthu

Name : Dr. M. MARIMUTHU.

Designation : AP.

Department : EEE

Date : 1/12/22.

Signature of HoD :

Principal :

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SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPALLI - 620 012.

Date: 01.12.2022

Ref : SCE/Syllabus/ Theory/2022-23-Odd Sem

STATEMENT FOR SYLLABUS COMPLETION

I have handled the subject Bio Medical Instrumentation, code OMD551 For IV Year, V Semester, department of **Electrical and Electronics Engineering** B.E, during the academic year 2022 – 23, Odd semester.

In this regard, I confirm, that I have taught all the topics mentioned in the syllabus, and took lectures for 46 periods, revised syllabus for 02 Periods and discussed the Anna University Examination question papers of the last 5 years.

Signature : N. Gayathri

Name : N. GAYATHRI

Designation : AP

Department : EEE

Date : 1-12-22

Signature of HoD :

Principal :

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SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPALLI - 620 012.

Date: 01.12.2022

Ref : SCE/Syllabus/ Theory/2022-23-Odd Sem

STATEMENT FOR SYLLABUS COMPLETION

I have handled the subject Power System Analysis , code EE8501 For III Year, V Semester, department of **Electrical and Electronics Engineering** B.E, during the academic year 2022 – 23, Odd semester.

In this regard, I confirm, that I have taught all the topics mentioned in the syllabus, and took lectures for 50 periods, revised syllabus for 7 Periods and discussed the Anna University Examination question papers of the last 5 years.

Signature :

Name : Dr. N. V. SUGANYADEVI

Designation : ASP

Department : EEE

Date : 1-12-22

Signature of HoD :

Principal :

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SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPALLI - 620 012.

Date: 01.12.2022

Ref : SCE/Syllabus/ Theory/2022-23-Odd Sem

STATEMENT FOR SYLLABUS COMPLETION

I have handled the subject High Voltage Engineering, code EE8701 For IV - A' Year, 7th Semester, department of **Electrical and Electronics Engineering** B.E, during the academic year 2022 – 23, Odd semester.

In this regard, I confirm, that I have taught all the topics mentioned in the syllabus, and took lectures for 61 periods, revised syllabus for 7 Periods and discussed the Anna University Examination question papers of the last 5 years.

Signature : 01/12/22

Name : DR. R. VIJAY

Designation : ASSISTANT PROFESSOR

Department : EEE

Date : 01/12/2022

Signature of HoD :

Principal :

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SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPALLI - 620 012.

Date: 01.12.2022

Ref : SCE/Syllabus/ Theory/2022-23-Odd Sem

STATEMENT FOR SYLLABUS COMPLETION

I have handled the subject Power system operation and Control, code EE8702 For IV Year, VII 'B' Semester, department of **Electrical and Electronics Engineering** B.E, during the academic year 2022 – 23, Odd semester.

In this regard, I confirm, that I have taught all the topics mentioned in the syllabus, and took lectures for 53 periods, revised syllabus for 2 Periods and discussed the Anna University Examination question papers of the last 2 years.

Signature :

Name : R.SATHEESH

Designation : AP

Department : EEE

Date : 01.12.2022

Signature of HoD :

Principal :

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SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPALLI - 620 012.

Date: 01/12/2022

Ref : SCE/Syllabus/Laboratory/2022-23-Odd Sem

STATEMENT FOR LABORATORY EXPERIMENT COMPLETION

I hereby affirm that all the experiments listed in the next page, have been actually performed by the students as part of the prescribed course work by Anna University (mention details). In cases where the experiments could not be conducted, the same has been listed separately with reasons.

I confirm that the experiments were done by me in the beginning of this semester, and the readings were recorded.

I confirm that the students submitted the laboratory record of the experiments performed by them and that I have also corrected them every week and awarded appropriate marks. I also confirm that the completed laboratory record was submitted by each student.

Signature	:	Signature	:
Name	: B. PARANTHAGAN	Name	: R.SATHEESH
Designation	: Assoc. Prof.	Designation	: AP
Department	: EEE		

Signature of HoD :

Principal :

Note: List of the students who have not got bonafide, if any, to be enclosed.

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EE8711 **POWER SYSTEM SIMULATION LABORATORY** L T P C
0 0 3 2

OBJECTIVES:

To provide better understanding of power system analysis through digital simulation

LIST OF EXPERIMENTS:

1. Computation of Parameters
2. Formation of Bus Admittance and Impedance Matrices
3. Load Flow Analysis - I : Solution of load flow and related problems using Gauss-Seidel Method
4. Load Flow Analysis - II: Solution of load flow and related problems using Newton Raphson.
5. Fault analysis
6. Transient Stability Analysis: Single-Machine Infinite Bus System
7. Load – Frequency Dynamics of Single- Area
8. Load – Frequency Dynamics of Two-Area Power Systems
9. Economic Dispatch in Power Systems.

TOTAL : 45 PERIODS

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SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPALLI - 620 012.

Date: 01/12/2022

Ref : SCE/Syllabus/Laboratory/2022-23-Odd Sem

STATEMENT FOR LABORATORY EXPERIMENT COMPLETION

I hereby affirm that all the experiments listed in the next page, have been actually performed by the students as part of the prescribed course work by Anna University (mention details). In cases where the experiments could not be conducted, the same has been listed separately with reasons.

I confirm that the experiments were done by me in the beginning of this semester, and the readings were recorded.

I confirm that the students submitted the laboratory record of the experiments performed by them and that I have also corrected them every week and awarded appropriate marks. I also confirm that the completed laboratory record was submitted by each student.

Signature	: 1/12	Signature	: 01/12/22
Name	: P. RAM PRAKASH	Name	: R. VIJAY
Designation	: AP	Designation	: ASSISTANT PROFESSOR
Department	: EEE		

Signature of HoD :

Principal :

Note: List of the students who have not got bonafide, if any, to be enclosed.

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EE8712 - RENEWABLE ENERGY SYSTEMS LABORATORY

OBJECTIVES:

1. To train the students in Renewable Energy Sources and technologies.
2. To provide adequate inputs on a variety of issues in harnessing Renewable Energy.
3. To recognize current and possible future role of Renewable energy sources.

LISTOFEXPERIMENTS

1. Simulation study on Solar PV Energy System.
2. Experimenton"VI-CharacteristicsandEfficiencyof1kWpSolar PV System".
3. Experiment on "Shadowing effect & diode based solution in1kWp Solar PV system".
4. Experiment on Performance assessment of Grid connected and Standalone 1kWp Solar Power System.
5. Simulation study on Wind Energy Generator.
6. Experiment on Performance assessment of micro Wind Energy Generator.
7. Simulation study on Hybrid(Solar-Wind)Power System.
8. Experiment on Performance Assessment of Hybrid (Solar-Wind) Power System.
9. Simulation study on Hydel Power.
10. Experiment on Performance Assessment of100WFuel.

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SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPALLI - 620 012.

Date: 25/05/2023

Ref : SCE/Syllabus/Laboratory/2022-23-Even sem

STATEMENT FOR LABORATORY EXPERIMENT COMPLETION

I hereby affirm that all the experiments listed in the next page, have been actually performed by the students as part of the prescribed course work by Anna University (mention details). In cases where the experiments could not be conducted, the same has been listed separately with reasons.

I confirm that the experiments were done by me in the beginning of this semester, and the readings were recorded.

I confirm that the students submitted the laboratory record of the experiments performed by them, and that I have also corrected them every week and awarded appropriate marks. I also confirm that the completed laboratory record was submitted by each student.

Signature : 1) 2)

Name : 1) Mr. S. Ramprasath 2) C. Pearline Kamalini

Designation : 1) AP 2) AP

Department : EEE

Signature 3) :

Name : 3) Dr. M.V. Sugary

Designation : ASP EEE

Signature of HoD : 25/5/23

Principal :

Note: List of the students who have not got bonafide, if any, to be enclosed.

1) 233037 - Hansoor Ahamed -S

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EE8661-Power Electronics and Drives Laboratory

List of Experiments:

1. Gate Pulse Generation using R, RC and UJT.
2. Characteristics of SCR and TRIAC
3. Characteristics of MOSFET and IGBT
4. AC to DC half controlled converter
5. AC to DC fully controlled Converter
6. Step down and step up MOSFET based choppers
7. IGBT based single phase PWM inverter
8. IGBT based three phase PWM inverter
9. AC Voltage controller
10. Switched mode power converter.
11. Simulation of PE circuits (10 and 30 semi converters, 10 and 30 full converters, DC-DC converters, AC voltage controllers).
12. Characteristics of GTO and IGCT.
13. Characteristics of PMBLDC motor

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SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPALLI - 620 012.

Date: 25-05-2023

Ref : SCE/Syllabus/Laboratory/2022-23-Even sem

STATEMENT FOR LABORATORY EXPERIMENT COMPLETION

I hereby affirm that all the experiments listed in the next page, have been actually performed by the students as part of the prescribed course work by Anna University (mention details). In cases where the experiments could not be conducted, the same has been listed separately with reasons.

I confirm that the experiments were done by me in the beginning of this semester, and the readings were recorded.

I confirm that the students submitted the laboratory record of the experiments performed by them, and that I have also corrected them every week and awarded appropriate marks. I also confirm that the completed laboratory record was submitted by each student.

Signature : Signature :

Name : Dr. K. RAJKUMAR Name : P. RAMESH BABU

Designation : Associate Professor Designation : Assistant Professor

Department : EEE

Signature of HoD : 25/5/23

Principal :

Note: List of the students who have not got bonafide, if any, to be enclosed.

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EE3411 ELECTRICAL MACHINES LABORATORY - II L T P C 0 0 3 1.5

COURSE OBJECTIVES:

- To expose the students to the operation of synchronous machines and induction motors and give them experimental skill.

LIST OF EXPERIMENTS

1. Regulation of three phase alternator by EMF and MMF methods.
2. Regulation of three phase alternator by ZPF and ASA methods.
3. Regulation of three phase salient pole alternator by slip test.
4. Measurements of negative sequence and zero sequence impedance of alternators.
5. V and Inverted V curves of Three Phase Synchronous Motor.
6. Load test on three-phase induction motor.
7. No load and blocked rotor tests on three-phase induction motor (Determination of equivalent circuit parameters).
8. Separation of No-load losses of three-phase induction motor.
9. Load test on single-phase induction motor.
10. No load and blocked rotor test on single-phase induction motor.
11. Study of Induction Motor Starters

TOTAL: 45 PERIODS

COURSE OUTCOMES:

At the end of the course, the student should have the:

CO1: Ability to understand and analyze EMF and MMF methods

CO2: Ability to analyze the characteristics of V and Inverted V curves

CO3: Acquire hands on experience of conducting various tests on alternators and obtaining their performance indices using standard analytical as well as graphical methods. to understand the importance of Synchronous machines

CO4: Acquire hands on experience of conducting various tests on induction motors and obtaining their performance indices using standard analytical as well as graphical methods. to understand the importance of single and three phase Induction motors

CO5: Ability to acquire knowledge on separation of losses

MAPPING OF COs WITH POs AND PSOs

COs	POs												PSOs		
	PO1	PO2	PO3	PO4	PO5	P06	P07	PO8	PO9	PO10	PO11	PO12	PS01	PS02	PS03
CO1	3	3	1	1	-	-	-	1.5	1	-	-	3	3	3	2
CO2	3	3	1	1	-	-	-	1.5	1	-	-	3	3	3	2
CO3	3	3	1	1	-	-	-	1.5	1	-	-	3	3	3	1
CO4	3	3	1	1	-	-	-	1.5	1	-	-	3	3	3	1
CO5	3	3	1	1	-	-	-	1.5	1	-	-	2	3	3	2
Avg	3	3	1	1	-	-	-	1.5	1	-	-	2.8	3	3	1.6

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Saranathan College of Engineering

QAC - Audit Report

Academic Year : 2022-2023

Year/ Sem/Sec: II / III / A

Sem: ODD/ ~~EVEN~~

Dept: EEE

Subject Code	Name of faculty		Test I					Test II					Test III				
			No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %
EE3303	Dr. S. Vijayalakshmi	IA Test	58	58	–	14	73	58	58	0	5	91	58	57	01	28	50
		Make up Test	14	14	–	02		5	5	0	0	100	–	–	–	–	–
		Remarks	–					–					Lack of preparation				
MA3303	Dr. Arunkumar	IA Test	59	57	02	37	34	58	58	0	21	64	58	17	0	41	29
		Make up Test	39	38	1	11	69	21	21	0	5	76	–	–	–	–	–
		Remarks	Lack of Practice					–					Lack of Preparation				
EE3302	Mr. Ramesh Babu.	IA Test	59	58	01	12	65.79 (78)	58	58	0	8	86	58	57	1	31	45
		Make up Test	13	9	4	4	38	8	8	0	3	63	–	–	–	–	–
		Remarks	–					–					Part B was not written well by students				
Signature of QAC members with name			1. 2. S. Harish					S. Harish 8/11/22 2. S. Harish					S. Harish 27/12/2022 S.HARIPRASATH				
Signature of HOD																	
QAC In-Charge			S.A.					S.A.					S.A.				
IQAC Co-ordinator																	
Principal																	

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Saranathan College of Engineering

QAC - Audit Report

Academic Year : 2022-2023

Sem: ODD/ EVEN

Dept: EEE

Year/ Sem/Sec			Test I					Test II					Test III				
Subject Code	Name of faculty		No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %
CS3353	Ms. Sheelavathi	IA Test	59	59	0	17	71	58	58	0	21	64	58	58	0	24	59
		Make up Test	17	15	2	4	65	21	21	0	5	76	–	–	–	–	–
		Remarks	–					–					Lack of practice in solving Part B Questions				
EC3801	Ms. Pearlise Kamalini	IA Test	58	57	01	22	60.3	58	58	0	3	95	58	58	0	34	41
		Make up Test	23	22	01	01	95.6	3	3	0	2	33	–	–	–	–	–
		Remarks	Explanation part is not enough (Part-B)					–					Explanation part is not enough (Part-B)				
EE3301	Paranthaman B.	IA Test	59	57	02	30	46	58	58	0	17	71	58	58	0	49	16
		Make up Test	32	27	05	1	81	17	16	1	0	94	–	–	–	–	–
		Remarks	could not solve problems					–					They studied only selected topics				
Signature of QAC members with name			1. 2. S. Hariprasath					S. Hariprasath					S. Hariprasath				
Signature of HOD																	
QAC In-Charge			S.A.					S.A.					S.A.				
IQAC Co-ordinator																	
Principal																	

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Saranathan College of Engineering
QAC - Audit Report
Academic Year : 2022-2023

Sem: ODD/ EVEN

Dept: EEE

Year/ Sem/Sec	III / V / A																			
			Test I					Test II					Test III							
Subject Code	Name of faculty		No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %			
ONDS51 BM	Ms. Gayathri	IA Test	71	69	2	1	96	71	69	2	8	86	71	68	3	16	73			
		Make up Test	3	02	01	1	67	10	9	1	2	70								
		Remarks	—					—					—							
CS8392 OOPS	Ms. Gayathri	IA Test	71	71	0	10	86	71	68	3	9	83	71	69	2	19	70			
		Make up Test	10	9	1	0	90	12	12	0	0	100								
		Remarks	—					—					—							
EE8551 MPMC	Dr. Harisuthan	IA Test	71	69	2	10	83	71	71	0	8	89	71	57	14	31	55			
		Make up Test	12	11	1	11	92	8	7	1	2	63								
		Remarks	—					—					Diagrams are not drawn Correctly & fully.							
Signature of QAC members with name			1. M.V. Sivagnanam 2. S. Harisuthan 22/10/22					1. S. Harisuthan 21/11/22 2. Mahalingam S. Harisuthan					1. S. Harisuthan 21/12/22 S. Harisuthan					Mahalingam		
Signature of HOD			S.A.A					S.A.A					S.A.A							
QAC In-Charge																				
IQAC Co-ordinator																				
Principal																				

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Saranathan College of Engineering
QAC - Audit Report
Academic Year : 2022-2023

Year/ Sem/Sec	III / V / A													Sem: ODD/ EVEN				
														Dept				
			Test I					Test II						Test III				
Subject Code	Name of faculty		No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %		No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %
EE8501 PSA	Dr. N.V. Suryanarayanan	IA Test	71	70	01	32	54	71	71	0	25	65		71	70	1	19	70
		Make up Test	33	32	1	5	82	25	24	1	17	28						
		Remarks	* Part B & Part C Problem Lifting Solve Completely					-						-				
EE8591 DSP	Dr. Ramprakash	IA Test	71	68	3	32	51	71	70	1	27	61		71	71	0	47	34
		Make up Test	35	34	1	9	71	28	26	2	4	79						
		Remarks	* careless mistakes in problem.					-						careless mistake in Part B.				
EE8552 PE	Mr. Ramprasath	IA Test	71	68	0	29	93	71	69	2	8	86		71	63	8	13	70
		Make up Test	29	26	3	10	55	10	10	0	2	80						
		Remarks	-					-						-				
Signature of QAC members with name			1. 2. S. Hariprasath 22/10/22					1. S. Hariprasath 8/11/22						1. S. Hariprasath 2/12/22				
Signature of HOD																		
QAC In-Charge			S.A.A					S.A.A						S.A.A				
IQAC Co-ordinator																		
Principal																		

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Saranathan College of Engineering
QAC - Audit Report
Academic Year : 2022-2023

Year/ Sem/Sec	IV / VII / A															Sem: ODD/ EVEN				
					Test I					Test II						Dept	EEE			
Subject Code	Name of faculty		No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	Test III							
													No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %			
EE8010 (PST)	R. Sridhar	IA Test	45	45	0	3	93	45	44	1	3	91	45	42	3	1	91			
		Make up Test	3	3	0	0	100	4	4	0	2	50								
		Remarks			–					–					–					
EE8702 (PSOC)	Dr. N.V. Suganya devi	IA Test	45	45	0	3	93	45	44	1	1	96	45	44	1.	10	76			
		Make up Test	3	3	0	2	33	2	2	0	0	100								
		Remarks			–					–					–					
EE8701 (HVE)	Dr. R. Vijay	IA Test	45	45	0	7	84	45	45	0	0	100	45	45	0	2	96			
		Make up Test	7	7	0	0	100	-	-	-	-	-								
		Remarks			–					–					–					
Signature of QAC members with name			1. N.V. Suganyadevi 2. S. Hariprasath					1. S. Hariprasath 2.					1. S. Hariprasath 2.							
Signature of HOD																				
QAC In-Charge																				
IQAC Co-ordinator																				
Principal																				

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Saranathan College of Engineering
QAC - Audit Report
Academic Year : 2022-2023

Year/ Sem/Sec: IV / VII / A

Sem: ODD/ EVEN

Dept: EEE

Subject Code	Name of faculty		Test I					Test II					Test III				
			No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %
EE8703 (RES)	Dr. C. Krishna Kumar	IA Test	45	45	0	2	96	45	45	0	0	100	45	37	8	0	82
		Make up Test	2	2	0	0	100	-	-	-	-	-					
		Remarks	-					-					-				
E18075 (FOLI)	Dr. Ramprabash	IA Test	45	44	1	4	89	45	44	1	3	91	45	43	2	0	96
		Make up Test	5	5	0	0	100	4	2	2	1	25					
		Remarks	-					-					-				
OCS752	MS. ISwarya	IA Test	45	44	1	8	78	45	44	1	14	67	45	42	3	6	80
		Make up Test	10	10	-	2	80	15	14	1	2	80					
		Remarks	-					-					-				
Signature of QAC members with name			1. Hodgson 2. S. Hariprasath 22/10/22					1. S. Hariprasath 2. Hodgson S. Hariprasath 8/11/22					1. S. Hariprasath 2/12/22 S. Hariprasath				
Signature of HOD																	
QAC In-Charge			S.A.					S.A.					S.A.				
IQAC Co-ordinator																	
Principal																	

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Saranathan College of Engineering
QAC - Audit Report
Academic Year : 2022-2023

Year/ Sem/Sec: IV VII / B

Sem: ODD/ EVEN

Dept: EEE

Subject Code	Name of faculty		Test I					Test II					Test III				
			No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %
EE8703 (EES)	Mr. Ramprabath	IA Test	48	46	2	3	90	47	44	3	0	94	47	40	7	3	79
		Make up Test	4	3	1	1	50	3	1	2	0	33					
		Remarks	NIL					-					-				
EE8075 Fai	Dr. Nari muthu	IA Test	48	46	2	2	92	47	46	1	1	96	47	45	2	5	85
		Make up Test	3	2	1	0	67	2	1	1	0	50					
		Remarks	NIL					-					-				
OCS752	MS. Ramya	IA Test	46	45	1	16	64	47	44	3	12	68	47	45	2	9	77
		Make up Test	17	17	-	1	94	15	12	3	2	67					
		Remarks	NIL					-					-				

Signature of QAC members with name	1. 2. S. Hariprasath 22/12	1. S. Hariprasath 2. S. Hariprasath 8/12/22	1. S. Hariprasath 2/12 2. S. Hariprasath
Signature of HOD			
QAC In-Charge	S.A.A	S.A.A	S.A.A
IQAC Co-ordinator			
Principal			

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Saranathan College of Engineering

QAC - Audit Report

Academic Year : 2022-2023

Year/ Sem/Sec	IV / VII / 'B'													Sem: ODD/ EVEN				
					Test I					Test II					Dept	EEE		
Subject Code	Name of faculty														Test III			
			No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %
EE8010 (PST)	Dr. Raj Kumar	IA Test	48	45	3	15	63	47	46	1	4	89	47	45	2	8	79
		Make up Test	17	16	1	4	71	5	3	2	2	20					
		Remarks	NIL					—					—				
EE8702 PSOC	R. Sathees	IA Test	48	46	2	18	58	47	45	2	14	66	47	44	3	17	57
		Make up Test	19	18	1	0	95	16	14	2	7	44					
		Remarks	* Due to careless mistakes while Solving problems.					—					Part B & Part C Problems didn't Solve fully				
EE8701 HVE	Mr. Vigneshwaran	IA Test	47	46	1	9	79	47	47	0	3	94	47	46	1	9	79
		Make up Test	10	10	0	1	90	3	3	0	1	67					
		Remarks	NIL					—					—				
Signature of QAC members with name			1. Hariprasath 2. S. Hariprasath					1. S. Hariprasath 2. S. Hariprasath					1. S. Hariprasath 2. S. Hariprasath				
Signature of HOD																		
QAC In-Charge			S.A.A					S.A.A					S.A.A				
IQAC Co-ordinator																		
Principal																		

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SARANATHAN COLLEGE OF ENGINEERING
TIRUCHIRAPPALLI – 12
QAC – QUALITY ASSESSMENT CELL
ACADEMIC YEAR: 2022-2023 ODD SEMESTER

NAME OF THE DEPARTMENT EEE			DETAILS OF EXAMINATION IA TEST : 02 Makeup Test : 02			
Sl.No	Subject Code	List of Batch Nos Verified		Subject Log book Verified [Y/N]	Assignments Verified [Y/N]	Remarks
YEAR/SEM/SEC : II/III						
		IA Test	Makeup Test			
1	CS3353	41, 53, 47	17, 09, 55	Y	Y	–
2	EC3301	15, 57, 02	31, 37, 30	Y	Y	–
3	EE3301	243016, 23, 25	04, 8, 38	Y	Y	
4	EE3303	243009, 25, 43	17, 30, 55	Y	Y	–
5	EE3302	41, 27, 06	08, 32, 30	Y	Y	–
6	MA3303	243023, 24, 61	243001, 06, 37	Y	Y	–

VERIFIED BY

1 M.V. Suryaprakash

2 S. Harish 8/11/2022

SIGNATURE WITH DATE OF THE QAC MEMBERS

1.

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SARANATHAN COLLEGE OF ENGINEERING
TIRUCHIRAPPALLI – 12
QAC – QUALITY ASSESSMENT CELL
ACADEMIC YEAR: 2022-2023 ODD SEMESTER

NAME OF THE DEPARTMENT	EEE	DETAILS OF EXAMINATION	IA TEST : 02	Makeup Test : 02

Sl.No	Subject Code	List of Batch Nos Verified	Subject Log book Verified [Y/N]	Assignments Verified [Y/N]	Remarks
YEAR/SEM/SEC : III/V					
		IA Test	Makeup Test		
1	CS8392	50, 72, 42	09, 12, 10	Y	Y	—
2	EEP501	01, 11, 07	14, 32, 33	Y	Y	—
3	EE8551	13, 28, 33	69, 32	Y	Y	
4	EE 852	75, 25, 05	31, 32, 45	Y	—	—
5	EEP591	02, 08, 14	03, 4, 9	Y	✓	
6	OMD551	11, 26, 45	09, 17, 45	Y	Y	—

VERIFIED BY

1 M.V. Suganyadevi.

2 S. Hamith 8/11/2022

SIGNATURE WITH DATE OF THE QAC MEMBERS

1.

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SARANATHAN COLLEGE OF ENGINEERING
TIRUCHIRAPPALLI – 12
QAC – QUALITY ASSESSMENT CELL
ACADEMIC YEAR: 2022-2023 ODD SEMESTER

NAME OF THE DEPARTMENT	EEE	DETAILS OF EXAMINATION	IA TEST :	02	Makeup Test : 02

Sl.No	Subject Code	List of Batch Nos Verified			Subject Log book Verified [Y/N]	Assignments Verified [Y/N]	Remarks
YEAR/SEM/SEC : IV/VII/A Sec							
		IA Test	Makeup Test				
1	EE8010	223024, 31, 35, 01	19, 46, 94		Y	—	—
2	EE8701	24, 31, 35	—		Y	—	—
3	EE8702	45, 8, 16, 30	17, 223035		Y	—	—
4	EE8703	25, 14, 06	—		Y	—	—
5	EE8075	01, 21, 31	17, 23		Y	✓	
6	OCS752	08, 04, 06	13, 04, 37		Y	Y	—

VERIFIED BY

1 M.V. Suganyadevi

2 S. Harrish 8/11/2022

SIGNATURE WITH DATE OF THE QAC MEMBERS

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SARANATHAN COLLEGE OF ENGINEERING
TIRUCHIRAPPALLI – 12
QAC – QUALITY ASSESSMENT CELL
ACADEMIC YEAR: 2022-2023 ODD SEMESTER

NAME OF THE DEPARTMENT EEE			DETAILS OF EXAMINATION IA TEST : 3 Makeup Test : ---			
Sl.No	Subject Code	List of Batch Nos Verified	Subject Log book Verified [Y/N]	Assignments Verified [Y/N]	Remarks	
YEAR/SEM/SEC : II / 3 / A						
		IA Test	Makeup Test			
1	CS3353	243001, 07, 41	–	Y	–	–
2	EC3301	243030, 37, 47	–	Y	–	–
3	EE3301	243001, 07, 12	–	Y	–	–
4	EE3302	243001, 02, 07	–	Y	–	–
5	EE3303	243025, 26, 27	–	Y	–	–
6	MA3303	243007, 15, 25	–	Y	–	–

VERIFIED BY

1 S. Hariprasath 27/12/2022 (S. HARIPRASATH/ECE)

2

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SARANATHAN COLLEGE OF ENGINEERING
TIRUCHIRAPPALLI – 12
QAC – QUALITY ASSESSMENT CELL
ACADEMIC YEAR: 2022-2023 ODD SEMESTER

NAME OF THE DEPARTMENT			DETAILS OF EXAMINATION IA TEST : III		Makeup Test :
Sl.No	Subject Code	List of Batch Nos Verified	Subject Log book Verified [Y/N]	Assignments Verified [Y/N]	Remarks
YEAR/SEM/SEC : IV / VII / A					
		IA Test	Makeup Test		
1	EE8010	223001, 14, 37	–	Y	✓	–
2	EE8701	223002, 11, 24	–	Y	✓	–
3	EE8702	223015, 32, 41	–	Y	✓	–
4	EE8703	223002, 49, 37	–	Y	✓	–
5	EE8075	223001, 29, 41	–	Y	✓	–
6	OCS752	223030, 19, 07	–	Y	✓	–

VERIFIED BY

1 [signature]

2 S. Hamith

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SARANATHAN COLLEGE OF ENGINEERING
TIRUCHIRAPPALLI – 12
QAC – QUALITY ASSESSMENT CELL
ACADEMIC YEAR: 2022-2023 ODD SEMESTER

NAME OF THE DEPARTMENT			DETAILS OF EXAMINATION IA TEST : III Makeup Test :			
Sl.No	Subject Code	List of Batch Nos Verified	Subject Log book Verified [Y/N]	Assignments Verified [Y/N]	Remarks	
YEAR/SEM/SEC : VI / VII / B						
		IA Test	Makeup Test			
1	EE8010	223091, 80, 57	–	Y	✓	–
2	EE8701	223019, 51, 66	–	Y	✓	–
3	EE8702	223052, 53, 67	–	Y	✓	–
4	EE8703	78, 61, 49	–	Y	✓	–
5	EI8075	223067, 77, 83	–	Y	✓	–
6	OCS752	223082, 85, 91	–	Y	✓	–

VERIFIED BY

1 Lavanya

2 S. Harini

SIGNATURE WITH DATE OF THE QAC MEMBERS

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SARANATHAN COLLEGE OF ENGINEERING
TIRUCHIRAPPALLI – 12
QAC – QUALITY ASSESSMENT CELL
ACADEMIC YEAR: 2022-2023 ODD SEMESTER

NAME OF THE DEPARTMENT		DETAILS OF EXAMINATION IA TEST : I / II Makeup Test :			
Sl.No	Subject Code	List of Batch Nos Verified	Subject Log book Verified [Y/N]	Assignments Verified [Y/N]	Remarks
YEAR/SEM/SEC : III / V / A					
		IA Test	Makeup Test		
1	OMD551	233001, 28, 58	-	Y	-
2	CS 8392	233002, 54, 72	-	Y	-
3	EE855-1	233044, 49, 55	-	Y	-
4	EE8501	233036, 44, 26	-	Y	-
5	EE859	233001, 41, 34	-	Y	-
6	EE852	233047, 72, 26	-	Y	-

VERIFIED BY

1 M. Dinesh

2 S. Hamith

SIGNATURE WITH DATE OF THE QAC MEMBERS

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Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23ODD** Semester : **3** Programme: **B.E/B.Tech (EEE)**
Subject Code : **EE3301** NBA Code : **C201** Title **ELECTROMAGNETIC FIELDS**
Faculty: Mr.B.Paranthagan

Cos	CO Description	Attained Level	%
C201.1	apply knowledge of mathematical prerequisites and explain the theorems related to vector fields	3.0	100.00
C201.2	explain the concepts of electric fields, electric potential, energy density and applications of electrostatics	3.0	100.00
C201.3	explain the concepts of magnetic fields , energy density and applications of magnetostatics	2.59	86.33
C201.4	explain the concepts of capacitance and inductance	2.47	82.33
C201.5	derive Maxwel's equation by applying Faraday's And Ampere's laws	2.52	84.00
C201.6	derive the electromagnetic wave equations and explain the concept of wave propagation using pyonting's vactor	3.0	100.00

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 58

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
243001	EE3301	3	3	2	3	2	3	24/02/2023	EEE	3
243002	EE3301	3	3	3	2	2	3	24/02/2023	EEE	3
243003	EE3301	3	3	3	3	3	3	24/02/2023	EEE	3
243004	EE3301	3	3	3	2	3	3	24/02/2023	EEE	3
243005	EE3301	3	3	3	3	3	3	24/02/2023	EEE	3
243006	EE3301	3	3	3	2	2	3	24/02/2023	EEE	3
243007	EE3301	3	3	3	3	3	3	24/02/2023	EEE	3
243008	EE3301	3	3	3	3	3	3	24/02/2023	EEE	3
243009	EE3301	3	3	3	3	2	3	24/02/2023	EEE	3
243010	EE3301	3	3	3	2	3	3	24/02/2023	EEE	3
243012	EE3301	3	3	2	3	2	3	24/02/2023	EEE	3
243014	EE3301	3	3	2	3	3	3	24/02/2023	EEE	3
243015	EE3301	3	3	2	3	3	3	24/02/2023	EEE	3
243016	EE3301	3	3	3	2	2	3	24/02/2023	EEE	3
243017	EE3301	3	3	2	2	2	3	24/02/2023	EEE	3
243018	EE3301	3	3	3	2	2	3	24/02/2023	EEE	3
243019	EE3301	3	3	2	2	3	3	24/02/2023	EEE	3
243020	EE3301	3	3	3	3	2	3	24/02/2023	EEE	3
243021	EE3301	3	3	2	2	2	3	24/02/2023	EEE	3
243022	EE3301	3	3	2	3	2	3	24/02/2023	EEE	3

243023	EE3301	3	3	3	2	2	3	24/02/2023	EEE	3
243024	EE3301	3	3	3	2	3	3	24/02/2023	EEE	3
243025	EE3301	3	3	2	2	2	3	24/02/2023	EEE	3
243026	EE3301	3	3	2	2	3	3	24/02/2023	EEE	3
243027	EE3301	3	3	2	2	3	3	24/02/2023	EEE	3
243028	EE3301	3	3	2	2	2	3	24/02/2023	EEE	3
243029	EE3301	3	3	3	2	2	3	24/02/2023	EEE	3
243030	EE3301	3	3	3	2	2	3	24/02/2023	EEE	3
243031	EE3301	3	3	2	3	3	3	24/02/2023	EEE	3
243032	EE3301	3	3	3	2	3	3	24/02/2023	EEE	3
243033	EE3301	3	3	3	3	2	3	24/02/2023	EEE	3
243034	EE3301	3	3	3	2	3	3	24/02/2023	EEE	3
243035	EE3301	3	3	3	3	3	3	24/02/2023	EEE	3
243036	EE3301	3	3	2	2	3	3	24/02/2023	EEE	3
243037	EE3301	3	3	2	2	2	3	24/02/2023	EEE	3
243038	EE3301	3	3	3	3	3	3	24/02/2023	EEE	3
243039	EE3301	3	3	3	3	3	3	24/02/2023	EEE	3
243040	EE3301	3	3	3	3	3	3	24/02/2023	EEE	3
243041	EE3301	3	3	3	3	2	3	24/02/2023	EEE	3
243042	EE3301	3	3	2	2	3	3	24/02/2023	EEE	3
243043	EE3301	3	3	3	3	3	3	24/02/2023	EEE	3
243044	EE3301	3	3	2	3	2	3	24/02/2023	EEE	3
243046	EE3301	3	3	2	2	2	3	24/02/2023	EEE	3
243047	EE3301	3	3	2	2	2	3	24/02/2023	EEE	3
243048	EE3301	3	3	3	2	3	3	24/02/2023	EEE	3
243049	EE3301	3	3	3	2	2	3	24/02/2023	EEE	3
243051	EE3301	3	3	2	2	3	3	24/02/2023	EEE	3
243052	EE3301	3	3	2	3	2	3	24/02/2023	EEE	3
243053	EE3301	3	3	3	2	3	3	24/02/2023	EEE	3
243054	EE3301	3	3	2	2	3	3	24/02/2023	EEE	3
243055	EE3301	3	3	3	3	3	3	24/02/2023	EEE	3
243056	EE3301	3	3	3	3	2	3	24/02/2023	EEE	3
243057	EE3301	3	3	2	3	3	3	24/02/2023	EEE	3
243058	EE3301	3	3	3	3	2	3	24/02/2023	EEE	3
243059	EE3301	3	3	3	3	3	3	24/02/2023	EEE	3
243060	EE3301	3	3	3	2	2	3	24/02/2023	EEE	3
243061	EE3301	3	3	2	2	2	3	24/02/2023	EEE	3
243062	EE3301	3	3	3	3	3	3	24/02/2023	EEE	3
Attained Level		3.0	3.0	2.59	2.47	2.52	3.0			
%		100.00	100.00	86.33	82.33	84.00	100.00			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23EVEN** Semester : **4** Programme: **B.E/B.Tech (EEE)**
Subject Code : **EE3403** NBA Code : **C212** Title **MEASUREMENTS AND INSTRUMENTATION**
Faculty: Mr.B.Paranthagan

Cos	CO Description	Attained Level	%
C212.1	Define units and standards, their conversions and describe the characteristics, error analysis and basic functional elements of measurement systems	2.48	82.67
C212.2	Describe the working of various electrical and electronic meters	2.53	84.33
C212.3	Select the suitable instrument for measuring different magnetic parameters	2.57	85.67
C212.4	Design a suitable Bridge circuit to determine the values of various resistor, inductor and capacitor	2.52	84.00
C212.5	Explain the construction and working principle of various types of storage and display devices and compare them	2.53	84.33
C212.6	Describe resistive, inductive and capacitive transducers which are used for measuring various parameters like displacement, temperature and explain the function of different blocks involved in data ac	2.48	82.67

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 58

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
243001	EE3403	3	3	2	2	3	2	20/09/2023	EEE	4
243002	EE3403	3	3	3	3	3	2	20/09/2023	EEE	4
243003	EE3403	2	3	3	2	2	3	20/09/2023	EEE	4
243004	EE3403	2	3	2	3	3	2	20/09/2023	EEE	4
243005	EE3403	2	2	3	3	3	3	20/09/2023	EEE	4
243006	EE3403	2	2	3	3	3	2	20/09/2023	EEE	4
243007	EE3403	3	3	2	3	3	3	20/09/2023	EEE	4
243008	EE3403	2	3	2	2	2	2	20/09/2023	EEE	4
243009	EE3403	3	2	3	3	2	2	20/09/2023	EEE	4
243010	EE3403	3	3	3	3	3	2	20/09/2023	EEE	4
243012	EE3403	3	3	3	2	3	2	20/09/2023	EEE	4
243014	EE3403	3	3	2	2	3	3	20/09/2023	EEE	4
243015	EE3403	2	3	2	2	2	2	20/09/2023	EEE	4
243016	EE3403	2	3	3	3	2	3	20/09/2023	EEE	4
243017	EE3403	2	3	3	2	3	3	20/09/2023	EEE	4
243018	EE3403	3	2	3	2	2	2	20/09/2023	EEE	4
243019	EE3403	2	3	3	3	2	2	20/09/2023	EEE	4
243020	EE3403	3	2	2	3	3	3	20/09/2023	EEE	4
243021	EE3403	2	3	2	3	2	2	20/09/2023	EEE	4
243022	EE3403	2	2	3	2	2	2	20/09/2023	EEE	4

243023	EE3403	2	2	2	3	2	3	20/09/2023	EEE	4
243024	EE3403	2	2	2	2	3	3	20/09/2023	EEE	4
243025	EE3403	3	3	3	2	2	2	20/09/2023	EEE	4
243026	EE3403	2	2	2	3	2	2	20/09/2023	EEE	4
243027	EE3403	2	2	2	3	2	2	20/09/2023	EEE	4
243028	EE3403	3	3	3	2	2	2	20/09/2023	EEE	4
243029	EE3403	2	3	2	3	3	3	20/09/2023	EEE	4
243030	EE3403	3	2	3	3	3	3	20/09/2023	EEE	4
243031	EE3403	3	2	3	2	2	2	20/09/2023	EEE	4
243032	EE3403	2	2	2	3	2	2	20/09/2023	EEE	4
243033	EE3403	2	2	3	2	2	3	20/09/2023	EEE	4
243034	EE3403	2	3	3	3	2	2	20/09/2023	EEE	4
243035	EE3403	3	2	2	2	3	2	20/09/2023	EEE	4
243036	EE3403	2	3	2	2	2	3	20/09/2023	EEE	4
243037	EE3403	3	2	3	2	2	2	20/09/2023	EEE	4
243038	EE3403	2	2	3	3	3	2	20/09/2023	EEE	4
243039	EE3403	3	2	3	2	3	2	20/09/2023	EEE	4
243040	EE3403	2	2	3	2	3	3	20/09/2023	EEE	4
243041	EE3403	2	2	3	3	3	2	20/09/2023	EEE	4
243042	EE3403	3	3	3	3	3	3	20/09/2023	EEE	4
243043	EE3403	3	3	2	2	2	3	20/09/2023	EEE	4
243044	EE3403	3	2	2	2	3	3	20/09/2023	EEE	4
243046	EE3403	2	2	2	3	2	3	20/09/2023	EEE	4
243047	EE3403	3	3	3	2	3	2	20/09/2023	EEE	4
243048	EE3403	2	3	3	3	2	3	20/09/2023	EEE	4
243049	EE3403	2	2	2	2	3	3	20/09/2023	EEE	4
243051	EE3403	3	3	3	2	2	3	20/09/2023	EEE	4
243052	EE3403	2	3	3	3	2	2	20/09/2023	EEE	4
243053	EE3403	2	2	3	3	3	3	20/09/2023	EEE	4
243054	EE3403	3	3	3	2	2	2	20/09/2023	EEE	4
243055	EE3403	3	3	2	3	2	3	20/09/2023	EEE	4
243056	EE3403	3	3	3	3	3	3	20/09/2023	EEE	4
243057	EE3403	3	3	2	2	3	2	20/09/2023	EEE	4
243058	EE3403	3	2	3	3	3	3	20/09/2023	EEE	4
243059	EE3403	3	2	2	2	3	2	20/09/2023	EEE	4
243060	EE3403	2	3	2	3	3	3	20/09/2023	EEE	4
243061	EE3403	3	3	3	3	3	3	20/09/2023	EEE	4
243062	EE3403	2	2	2	2	3	3	20/09/2023	EEE	4
Attained Level		2.48	2.53	2.57	2.52	2.53	2.48			
%		82.67	84.33	85.67	84.00	84.33	82.67			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23ODD** Semester : **5** Programme: **B.E/B.Tech (EEE)**
Subject Code : **EE8591** NBA Code : **C304** Title **DIGITAL SIGNAL PROCESSING**
Faculty: Dr.P.Ram Prakash

Cos	CO Description	Attained Level	%
C304.1	Understand the importance of Fourier transform, digital filters and DS Processors.	3.0	100.00
C304.2	Acquire knowledge on Signals and systems & their mathematical representation.	3.0	100.00
C304.3	Understand and analyze the discrete time systems.	2.51	83.67
C304.4	Analyze the transformation techniques & their computation.	2.51	83.67
C304.5	Understand the types of filters and their design for digital implementation.	2.41	80.33
C304.6	Acquire knowledge on programmability digital signal processor & quantization effects.	3.0	100.00

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 71

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
233001	EE8591	3	3	3	2	3	3	24/02/2023	EEE	5
233002	EE8591	3	3	3	3	3	3	24/02/2023	EEE	5
233003	EE8591	3	3	3	3	3	3	24/02/2023	EEE	5
233004	EE8591	3	3	2	2	2	3	24/02/2023	EEE	5
233005	EE8591	3	3	3	3	3	3	24/02/2023	EEE	5
233006	EE8591	3	3	3	3	2	3	24/02/2023	EEE	5
233007	EE8591	3	3	3	2	3	3	24/02/2023	EEE	5
233008	EE8591	3	3	2	3	2	3	24/02/2023	EEE	5
233009	EE8591	3	3	3	2	3	3	24/02/2023	EEE	5
233010	EE8591	3	3	2	2	3	3	24/02/2023	EEE	5
233011	EE8591	3	3	2	3	3	3	24/02/2023	EEE	5
233012	EE8591	3	3	3	2	2	3	24/02/2023	EEE	5
233013	EE8591	3	3	3	2	3	3	24/02/2023	EEE	5
233014	EE8591	3	3	3	2	3	3	24/02/2023	EEE	5
233015	EE8591	3	3	2	3	2	3	24/02/2023	EEE	5
233016	EE8591	3	3	3	3	2	3	24/02/2023	EEE	5
233017	EE8591	3	3	3	3	2	3	24/02/2023	EEE	5
233018	EE8591	3	3	2	3	3	3	24/02/2023	EEE	5
233019	EE8591	3	3	2	2	3	3	24/02/2023	EEE	5
233020	EE8591	3	3	2	3	2	3	24/02/2023	EEE	5

233021	EE8591	3	3	3	3	2	3	24/02/2023	EEE	5
233022	EE8591	3	3	2	3	2	3	24/02/2023	EEE	5
233023	EE8591	3	3	2	2	2	3	24/02/2023	EEE	5
233024	EE8591	3	3	3	3	2	3	24/02/2023	EEE	5
233025	EE8591	3	3	3	2	2	3	24/02/2023	EEE	5
233026	EE8591	3	3	2	2	2	3	24/02/2023	EEE	5
233027	EE8591	3	3	2	2	3	3	24/02/2023	EEE	5
233028	EE8591	3	3	2	3	2	3	24/02/2023	EEE	5
233029	EE8591	3	3	2	2	2	3	24/02/2023	EEE	5
233030	EE8591	3	3	2	3	3	3	24/02/2023	EEE	5
233031	EE8591	3	3	3	3	2	3	24/02/2023	EEE	5
233032	EE8591	3	3	2	2	3	3	24/02/2023	EEE	5
233033	EE8591	3	3	2	3	2	3	24/02/2023	EEE	5
233034	EE8591	3	3	3	3	2	3	24/02/2023	EEE	5
233035	EE8591	3	3	3	3	3	3	24/02/2023	EEE	5
233036	EE8591	3	3	2	2	3	3	24/02/2023	EEE	5
233037	EE8591	3	3	3	3	2	3	24/02/2023	EEE	5
233038	EE8591	3	3	3	2	2	3	24/02/2023	EEE	5
233040	EE8591	3	3	2	3	2	3	24/02/2023	EEE	5
233041	EE8591	3	3	2	3	2	3	24/02/2023	EEE	5
233042	EE8591	3	3	2	3	3	3	24/02/2023	EEE	5
233043	EE8591	3	3	2	3	2	3	24/02/2023	EEE	5
233044	EE8591	3	3	2	2	2	3	24/02/2023	EEE	5
233045	EE8591	3	3	3	2	3	3	24/02/2023	EEE	5
233046	EE8591	3	3	2	2	3	3	24/02/2023	EEE	5
233047	EE8591	3	3	2	3	2	3	24/02/2023	EEE	5
233048	EE8591	3	3	3	2	2	3	24/02/2023	EEE	5
233049	EE8591	3	3	3	3	2	3	24/02/2023	EEE	5
233050	EE8591	3	3	3	3	2	3	24/02/2023	EEE	5
233051	EE8591	3	3	3	2	2	3	24/02/2023	EEE	5
233052	EE8591	3	3	2	3	3	3	24/02/2023	EEE	5
233053	EE8591	3	3	3	3	2	3	24/02/2023	EEE	5
233054	EE8591	3	3	3	2	3	3	24/02/2023	EEE	5
233055	EE8591	3	3	2	3	2	3	24/02/2023	EEE	5
233056	EE8591	3	3	2	2	2	3	24/02/2023	EEE	5
233058	EE8591	3	3	2	3	3	3	24/02/2023	EEE	5
233059	EE8591	3	3	2	2	2	3	24/02/2023	EEE	5
233060	EE8591	3	3	3	2	2	3	24/02/2023	EEE	5
233061	EE8591	3	3	3	2	2	3	24/02/2023	EEE	5
233062	EE8591	3	3	3	2	3	3	24/02/2023	EEE	5
233064	EE8591	3	3	2	3	3	3	24/02/2023	EEE	5

233065	EE8591	3	3	2	2	3	3	24/02/2023	EEE	5
233066	EE8591	3	3	2	2	2	3	24/02/2023	EEE	5
233068	EE8591	3	3	3	2	2	3	24/02/2023	EEE	5
233069	EE8591	3	3	3	2	3	3	24/02/2023	EEE	5
233070	EE8591	3	3	3	2	2	3	24/02/2023	EEE	5
233071	EE8591	3	3	3	3	3	3	24/02/2023	EEE	5
233072	EE8591	3	3	2	2	2	3	24/02/2023	EEE	5
233073	EE8591	3	3	3	3	2	3	24/02/2023	EEE	5
233074	EE8591	3	3	3	3	2	3	24/02/2023	EEE	5
233075	EE8591	3	3	2	2	3	3	24/02/2023	EEE	5
Attained Level		3.0	3.0	2.51	2.51	2.41	3.0			
%		100.00	100.00	83.67	83.67	80.33	100.00			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23ODD** Semester : 7 Programme: **B.E/B.Tech (EEE)**
Subject Code : **EE8702** NBA Code : **C402** Title **POWER SYSTEM OPERATION AND CONTROL**
Faculty: Dr.M.V.Suganyadevi / Mr.R.Satheesh

Cos	CO Description	Attained Level	%
C402.1	Analyze the various load characteristics with load curve and load duration curve	3.0	100.00
C402.2	Describe modeling of power-frequency dynamics and design power-frequency controller	3.0	100.00
C402.3	Explain the modeling of reactive power-voltage interaction and the control actions	2.54	84.67
C402.4	Solve economic dispatch problems and unit commitments problems in power systems	2.54	84.67
C402.5	Explain the need of computer controls to energy management	2.49	83.00
C402.6	Illustrate about SCADA and its application for real time operation and control of power systems	3.0	100.00

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 92

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
223001	EE8702	3	3	2	3	2	3	24/02/2023	EEE	7
223002	EE8702	3	3	3	2	2	3	24/02/2023	EEE	7
223004	EE8702	3	3	2	3	3	3	24/02/2023	EEE	7
223006	EE8702	3	3	3	2	3	3	24/02/2023	EEE	7
223007	EE8702	3	3	3	2	3	3	24/02/2023	EEE	7
223008	EE8702	3	3	2	2	3	3	24/02/2023	EEE	7
223009	EE8702	3	3	3	3	3	3	24/02/2023	EEE	7
223010	EE8702	3	3	2	2	2	3	24/02/2023	EEE	7
223011	EE8702	3	3	2	2	2	3	24/02/2023	EEE	7
223012	EE8702	3	3	3	2	2	3	24/02/2023	EEE	7
223013	EE8702	3	3	2	2	3	3	24/02/2023	EEE	7
223014	EE8702	3	3	3	3	2	3	24/02/2023	EEE	7
223015	EE8702	3	3	2	2	2	3	24/02/2023	EEE	7
223016	EE8702	3	3	2	2	3	3	24/02/2023	EEE	7
223017	EE8702	3	3	2	2	3	3	24/02/2023	EEE	7
223018	EE8702	3	3	3	2	3	3	24/02/2023	EEE	7
223019	EE8702	3	3	3	2	2	3	24/02/2023	EEE	7
223020	EE8702	3	3	2	2	2	3	24/02/2023	EEE	7
223021	EE8702	3	3	3	2	3	3	24/02/2023	EEE	7
223022	EE8702	3	3	3	3	2	3	24/02/2023	EEE	7

223023	EE8702	3	3	3	3	2	3	24/02/2023	EEE	7
223024	EE8702	3	3	3	2	2	3	24/02/2023	EEE	7
223025	EE8702	3	3	2	3	3	3	24/02/2023	EEE	7
223026	EE8702	3	3	3	3	2	3	24/02/2023	EEE	7
223027	EE8702	3	3	2	3	3	3	24/02/2023	EEE	7
223028	EE8702	3	3	3	3	3	3	24/02/2023	EEE	7
223029	EE8702	3	3	2	3	2	3	24/02/2023	EEE	7
223030	EE8702	3	3	2	3	3	3	24/02/2023	EEE	7
223031	EE8702	3	3	3	3	2	3	24/02/2023	EEE	7
223032	EE8702	3	3	3	3	3	3	24/02/2023	EEE	7
223033	EE8702	3	3	3	2	3	3	24/02/2023	EEE	7
223034	EE8702	3	3	3	3	3	3	24/02/2023	EEE	7
223035	EE8702	3	3	3	3	3	3	24/02/2023	EEE	7
223036	EE8702	3	3	2	2	2	3	24/02/2023	EEE	7
223037	EE8702	3	3	3	3	3	3	24/02/2023	EEE	7
223038	EE8702	3	3	3	3	2	3	24/02/2023	EEE	7
223040	EE8702	3	3	3	2	2	3	24/02/2023	EEE	7
223041	EE8702	3	3	2	2	2	3	24/02/2023	EEE	7
223042	EE8702	3	3	2	2	3	3	24/02/2023	EEE	7
223043	EE8702	3	3	3	2	2	3	24/02/2023	EEE	7
223045	EE8702	3	3	2	2	2	3	24/02/2023	EEE	7
223046	EE8702	3	3	3	2	3	3	24/02/2023	EEE	7
223047	EE8702	3	3	3	3	2	3	24/02/2023	EEE	7
223048	EE8702	3	3	3	2	2	3	24/02/2023	EEE	7
223049	EE8702	3	3	2	3	2	3	24/02/2023	EEE	7
223050	EE8702	3	3	2	2	3	3	24/02/2023	EEE	7
223051	EE8702	3	3	3	2	3	3	24/02/2023	EEE	7
223052	EE8702	3	3	3	3	2	3	24/02/2023	EEE	7
223053	EE8702	3	3	2	3	3	3	24/02/2023	EEE	7
223054	EE8702	3	3	3	3	2	3	24/02/2023	EEE	7
223055	EE8702	3	3	3	2	3	3	24/02/2023	EEE	7
223056	EE8702	3	3	2	2	3	3	24/02/2023	EEE	7
223057	EE8702	3	3	3	3	2	3	24/02/2023	EEE	7
223059	EE8702	3	3	3	3	2	3	24/02/2023	EEE	7
223060	EE8702	3	3	3	2	3	3	24/02/2023	EEE	7
223061	EE8702	3	3	3	2	2	3	24/02/2023	EEE	7
223063	EE8702	3	3	3	3	3	3	24/02/2023	EEE	7
223064	EE8702	3	3	2	2	2	3	24/02/2023	EEE	7
223065	EE8702	3	3	3	3	2	3	24/02/2023	EEE	7
223066	EE8702	3	3	2	3	2	3	24/02/2023	EEE	7
223067	EE8702	3	3	2	3	2	3	24/02/2023	EEE	7

223068	EE8702	3	3	3	2	2	3	24/02/2023	EEE	7
223069	EE8702	3	3	3	3	3	3	24/02/2023	EEE	7
223070	EE8702	3	3	3	3	2	3	24/02/2023	EEE	7
223071	EE8702	3	3	2	3	3	3	24/02/2023	EEE	7
223072	EE8702	3	3	3	3	3	3	24/02/2023	EEE	7
223073	EE8702	3	3	2	3	3	3	24/02/2023	EEE	7
223074	EE8702	3	3	2	3	2	3	24/02/2023	EEE	7
223075	EE8702	3	3	3	2	2	3	24/02/2023	EEE	7
223076	EE8702	3	3	2	3	3	3	24/02/2023	EEE	7
223077	EE8702	3	3	2	2	2	3	24/02/2023	EEE	7
223078	EE8702	3	3	3	2	2	3	24/02/2023	EEE	7
223079	EE8702	3	3	2	2	3	3	24/02/2023	EEE	7
223080	EE8702	3	3	2	3	2	3	24/02/2023	EEE	7
223081	EE8702	3	3	2	3	2	3	24/02/2023	EEE	7
223082	EE8702	3	3	3	3	3	3	24/02/2023	EEE	7
223083	EE8702	3	3	3	2	3	3	24/02/2023	EEE	7
223084	EE8702	3	3	2	3	3	3	24/02/2023	EEE	7
223085	EE8702	3	3	3	3	2	3	24/02/2023	EEE	7
223086	EE8702	3	3	2	3	2	3	24/02/2023	EEE	7
223087	EE8702	3	3	2	3	3	3	24/02/2023	EEE	7
223088	EE8702	3	3	3	3	3	3	24/02/2023	EEE	7
223089	EE8702	3	3	2	3	3	3	24/02/2023	EEE	7
223090	EE8702	3	3	2	2	2	3	24/02/2023	EEE	7
223091	EE8702	3	3	3	3	3	3	24/02/2023	EEE	7
223092	EE8702	3	3	3	3	3	3	24/02/2023	EEE	7
223093	EE8702	3	3	2	2	2	3	24/02/2023	EEE	7
223094	EE8702	3	3	2	3	3	3	24/02/2023	EEE	7
223095	EE8702	3	3	3	2	3	3	24/02/2023	EEE	7
223096	EE8702	3	3	3	3	3	3	24/02/2023	EEE	7
223097	EE8702	3	3	2	2	2	3	24/02/2023	EEE	7
223098	EE8702	3	3	2	3	2	3	24/02/2023	EEE	7
Attained Level		3.0	3.0	2.54	2.54	2.49	3.0			
%		100.00	100.00	84.67	84.67	83.00	100.00			

Saranathan College of Engineering
Tiruchirappalli-12

FeedBack Report : EEE Month&Year: may2023 Academic Year :2022-23EVEN

S.no	staffcode	branch /Sem	No. partici pated	Subject Code /Title	(1) Does the faculty come Prepared for the Classes ?	(2) Subject Knowledge and Clarity of the Faculty	(3) Impartiality and Fairness to Students ?	(4) Interaction with Students by the faculty	(5) Valuable/Extra Information given during the Lectures by the faculty	(6) Enthusiasm for Subject ?	(7) Showing Concern and Care for Students?	(8) Punctuality in Evaluation of Exam Papers/ Assignments ?	(9) Whether Syllabus for IA Tests/ University Examination Completed steadily?	(10) Ability to Speak Loudly and Clearly	Total Out of
	Weigtage				**15.0**	**15.0**	**8.0**	**12.0**	**12.0**	**12.0**	**4.0**	**6.0**	**8.0**	**8.0**	**100**
1	sridhar-eee	AID-A/2	59	BE3251/Basic Electrical And Electronics Engineering	12.41	12.00	6.05	8.87	8.91	9.27	2.97	4.82	6.29	5.88	77.47
2	pearline-eee	AID-B/2	54	BE3251/Basic Electrical And Electronics Engineering	11.50	11.22	6.01	8.76	8.71	9.33	3.07	4.67	6.22	6.28	75.77
3	rameshbabu-eee	CIVIL-A/2	11	BE3252/Basic Electrical Electronics And Instrumentation Engineering	14.45	14.18	7.13	10.91	11.56	10.91	3.71	5.56	7.56	7.71	93.69
4	suganyadevi-eee	CSBS-A/2	50	BE3251/Basic Electrical And Electronics Engineering	12.84	12.66	6.82	10.27	10.18	10.13	3.36	5.02	6.75	6.75	84.77
5	ramprakash-eee	CSE(AIML)-A/2	56	BE3251/Basic Electrical And Electronics Engineering	13.93	13.93	7.29	10.80	10.97	10.93	3.59	5.49	7.29	7.46	91.66
6	paranthagan-eee	CSE-A/2	56	BE3251/Basic Electrical And Electronics Engineering	11.52	11.20	6.14	8.70	8.96	8.57	2.99	4.39	5.69	5.91	74.06
7	vijayalakshmi-eee	CSE-B/2	63	BE3251/Basic Electrical And Electronics Engineering	13.05	12.71	6.81	10.25	9.83	10.06	3.38	5.16	7.01	6.96	85.21
8	marimuthu-eee	EEE-A/2	47	EE3251/Electrical Circuit Analysis	12.51	12.32	6.71	10.01	9.80	10.11	3.34	4.98	6.74	6.74	83.26
9	vijayalakshmi-eee	EEE-A/2	47	GE3252/Tamils And Technology	11.74	11.74	6.26	9.34	9.34	9.45	3.11	4.72	6.23	6.30	78.26

10	paranthagan-eee	EEE-A/4	49	EE3403/Measurements And Instrumentation	12.37	12.43	6.56	9.60	9.84	9.80	3.22	4.90	6.43	6.40	81.55
11	vijayalakshmi-eee	EEE-A/4	49	EE3404/Microprocessor And Microcontroller	9.37	9.18	4.83	6.91	7.00	7.49	2.38	3.70	4.90	5.00	60.76
12	rajkumar-eee	EEE-A/4	49	EE3405/Electrical Machines - Ii Pcc 3 0 0 3 3	10.59	10.22	5.22	8.08	7.84	8.08	2.56	4.04	5.49	5.52	67.65
13	rameshbabu-eee	EEE-A/6	61	EE8002/Design Of Electrical Apparatus	12.20	12.15	6.48	9.76	9.60	9.64	3.23	4.92	6.40	6.48	80.84
14	pearline-eee	EEE-A/6	63	EE8005/Special Electrical Machines	11.71	11.95	6.04	9.22	9.14	9.37	3.19	4.90	6.43	6.32	78.28
15	ramprasath-eee	EEE-A/6	63	EE8601/Solid State Drives	13.00	12.95	6.83	10.17	10.21	10.13	3.34	5.14	6.88	6.91	85.57
16	suganyadevi-eee	EEE-A/6	63	EE8602/Protection And Switchgear	12.90	12.81	6.65	10.13	10.32	10.02	3.37	5.09	6.83	6.78	84.91
17	marimuthu-eee	EEE-A/6	67	EE8691/Embedded Systems	10.79	10.70	5.64	8.63	8.42	8.56	3.12	4.75	6.11	6.45	73.16
18	krishnakumar-eee	EEE-A/6	63	GE8076[8]/Professional Ethics In Engineering	12.10	11.81	6.20	9.83	9.90	9.49	3.07	4.78	6.30	6.65	80.13
19	vijay-eee	EEE-A/6	64	TP/Training And Placement	10.17	10.17	5.45	8.18	8.02	7.99	2.66	3.96	5.20	5.68	67.47
20	balasubramanian-eee	ICE-A/4	17	IC3452/Electrical Machines And Drives	14.12	14.12	7.53	11.29	11.29	11.15	3.67	5.58	7.53	7.44	93.72
21	ramprakash-eee	IT-A/2	56	BE3251/Basic Electrical And Electronics Engineering	13.39	13.12	7.03	10.50	10.29	10.41	3.47	5.27	7.09	6.97	87.55

SARANATHAN COLLEGE OF ENGINEERING

DEPARTMENT OF EEE

ACTION TAKEN REPORT ON FEED BACK REPORT : EEE MONTH & YEAR: MAY2023 ACADEMIC YEAR :2022-23EVEN

S.no	staffcode	branch /Sem	No. participated	Subject Code /Title	(1) Does the faculty come Prepared for the Classes ?	(2) Subject Knowledge and Clarity of the Faculty	(3) Impartiality and Fairness to Students ?	(4) Interaction with Students by the faculty	(5) Valuable/ Extra Information given during the Lectures by the faculty	(6) Enthusiasm for Subject ?	(7) Counselling and being Friendly	(8) Punctuality in Evaluation of Exam Papers/ Assignments ?	(9) Ability to Ensure Steady Pace Coverage of Syllabus	(10) Ability to Speak Loudly and Clearly	Total Out of
Weigtage -->					15	15	8	12	12	12	4	6	8	8	100
1.	vijayalakshmi-eee	EEE-A/4	49	EE3404/Microprocessor And	9.37	9.18	4.83	6.91	7	7.49	2.38	3.7	4.9	5	60.76
2.	rajkumar-eee	EEE-A/4	49	EE3405/Electrical Machines - I	10.59	10.22	5.22	8.08	7.84	8.08	2.56	4.04	5.49	5.52	67.65
3.	marimuthu-eee	EEE-A/6	67	EE8691/Embedded Systems	10.79	10.7	5.64	8.63	8.42	8.56	3.12	4.75	6.11	6.45	73.16
4.	paranthagan-eee	CSE-A/2	56	BE3251/Basic Electrical And Electronics Engineering	11.52	11.2	6.14	8.7	8.96	8.57	2.99	4.39	5.69	5.91	74.06

The above staffs were called for a meeting with HOD at his cabin. They were communicated about their feedback score and were advised to take some measures to improve their performance. They were insisted to do students counselling in a friendly way and were asked to give the real time applications about their subject so as to make the students to be more interactive with utmost interest in the class. Also added that, they should be a little bit louder while teaching and to be well prepared for the class. Head of Department insisted all faculty to treat all students equally and to interact with all students frequently so as to create enthusiasm in the subject. He instructed all to complete the syllabus in a steady pace. The staff members were also accepted the suggestions given by HOD and assured to do the same.

HOD/EEE

PRINCIPAL

Saranathan College of Engineering
Tiruchirappalli-12

FeedBack Report : EEE Month&Year: MARCH2023 Academic Year :2022-23EVEN

S.no	staffcode	branch /Sem	No. partici pated	Subject Code /Title	(1) Does the faculty come Prepared for the Classes ?	(2) Subject Knowledge and Clarity of the Faculty	(3) Impartiality and Fairness to Students ?	(4) Interaction with Students by the faculty	(5) Valuable/Extra Information given during the Lectures by the faculty	(6) Enthusiasm for Subject ?	(7) Showing Concern and Care for Students?	(8) Punctuality in Evaluation of Exam Papers/ Assignments ?	(9) Whether Syllabus for IA Tests/ University Examination Completed steadily?	(10) Ability to Speak Loudly and Clearly	Total Out of
	Weigtage				**15.0**	**15.0**	**8.0**	**12.0**	**12.0**	**12.0**	**4.0**	**6.0**	**8.0**	**8.0**	**100**
1	sridhar-eee	AID-A/2	55	BE3251/Basic Electrical And Electronics Engineering	12.44	12.11	6.05	8.77	8.73	8.99	2.91	4.91	6.57	6.05	77.53
2	pearline-eee	AID-B/2	58	BE3251/Basic Electrical And Electronics Engineering	11.33	10.91	6.01	8.57	8.23	8.48	2.95	4.57	6.15	5.82	73.03
3	rameshbabu-eee	CIVIL-A/2	18	BE3252/Basic Electrical Electronics And Instrumentation Engineering	12.50	12.50	6.67	9.87	9.87	9.47	3.33	5.07	6.58	6.67	82.51
4	suganyadevi-eee	CSBS-A/2	52	BE3251/Basic Electrical And Electronics Engineering	13.73	13.62	7.26	10.66	10.98	10.62	3.62	5.33	7.23	7.38	90.43
5	ramprakash-eee	CSE(AIML)-A/2	69	BE3251/Basic Electrical And Electronics Engineering	13.83	13.48	7.00	10.47	10.78	10.57	3.46	5.63	7.05	7.19	89.46
6	paranthagan-eee	CSE-A/2	60	BE3251/Basic Electrical And Electronics Engineering	12.00	12.15	6.40	8.88	9.24	9.44	3.15	4.74	5.92	6.08	78.00
7	vijayalakshmi-eee	CSE-B/2	58	BE3251/Basic Electrical And Electronics Engineering	12.57	12.26	6.68	9.64	9.23	9.77	3.38	5.15	6.76	6.48	81.91
8	ramprasath-eee	ECE-A/2	61	BE3254/Electrical And Instrumentation Engineering	11.46	10.97	6.01	8.03	8.38	8.89	2.78	4.54	6.03	5.98	73.07

9	vijay-eee	ECE-B/2	58	BE3254/Electrical And Instrumentation Engineering	12.78	12.72	6.70	10.06	10.06	10.06	3.35	5.15	6.81	6.92	84.61
10	marimuthu-eee	EEE-A/2	55	EE3251/Electrical Circuit Analysis	13.75	13.96	6.92	11.00	10.43	10.95	3.53	5.45	7.27	7.10	90.37
11	vijayalakshmi-eee	EEE-A/2	54	GE3252/Tamils And Technology	11.61	11.50	6.93	10.53	9.42	9.69	3.44	4.82	6.25	6.49	80.69
12	paranthagan-eee	EEE-A/4	55	EE3403/Measurements And Instrumentation	11.78	11.84	6.34	9.47	9.60	9.29	3.19	4.76	6.25	6.34	78.86
13	vijayalakshmi-eee	EEE-A/4	54	EE3404/Microprocessor And Microcontroller	9.39	9.39	4.71	7.29	7.07	7.38	2.40	3.76	5.13	5.16	61.66
14	rajkumar-eee	EEE-A/4	54	EE3405/Electrical Machines - Ii Pcc 3 0 0 3 3	11.00	10.67	5.72	8.00	8.13	8.27	2.83	4.07	5.72	5.84	70.24
15	rameshbabu-eee	EEE-A/6	65	EE8002/Design Of Electrical Apparatus	12.18	12.55	6.55	9.93	9.86	9.90	3.29	4.95	6.50	6.65	82.35
16	pearline-eee	EEE-A/6	65	EE8005/Special Electrical Machines	11.54	11.49	6.15	9.16	8.86	9.12	3.02	4.67	6.28	6.15	76.44
17	ramprasath-eee	EEE-A/6	68	EE8601/Solid State Drives	12.84	13.10	6.80	10.24	9.95	10.24	3.31	5.12	6.75	6.85	85.19
18	suganyadevi-eee	EEE-A/6	65	EE8602/Protection And Switchgear	13.06	13.02	6.82	10.52	10.30	10.38	3.43	5.21	6.97	7.11	86.82
19	marimuthu-eee	EEE-A/6	67	EE8691/Embedded Systems	11.91	11.60	6.42	9.64	9.35	9.42	3.19	4.84	6.35	6.45	79.16
20	krishnakumar-eee	EEE-A/6	65	GE8076[8]/Professional Ethics In Engineering	12.00	12.00	6.25	9.82	9.90	9.60	3.15	4.80	6.30	6.65	80.47
21	vijay-eee	EEE-A/6	65	TP/Training And Placement	10.62	10.66	5.78	8.60	8.57	8.60	2.81	4.36	5.64	5.88	71.52
22	balasubramanian-eee	ICE-A/4	18	IC3452/Electrical Machines And Drives	13.67	13.67	7.29	10.93	10.80	10.93	3.69	5.47	7.29	7.38	91.11
23	ramprakash-eee	IT-A/2	57	BE3251/Basic Electrical And Electronics Engineering	14.37	14.21	7.38	11.07	10.23	11.07	3.59	5.58	7.52	7.55	92.59
24	vigneshwaran-eee	MECH-A/2	44	BE3251/Basic Electrical And Electronics Engineering	12.27	11.93	6.44	9.22	9.49	9.60	3.24	4.85	6.51	6.47	80.02

SARANATHAN COLLEGE OF ENGINEERING

DEPARTMENT OF EEE

ACTION TAKEN REPORT ON FEED BACK REPORT : EEE MONTH & YEAR: MARCH 2023 ACADEMIC YEAR :2022-23EVEN

S.no	staffcode	branch /Sem	No. participated	Subject Code /Title	(1) Does the faculty come Prepared for the Classes ?	(2) Subject Knowledge and Clarity of the Faculty	(3) Impartiality and Fairness to Students ?	(4) Interaction with Students by the faculty	(5) Valuable/ Extra Information given during the Lectures by the faculty	(6) Enthusiasm for Subject ?	(7) Counselling and being Friendly	(8) Punctuality in Evaluation of Exam Papers/ Assignments ?	(9) Ability to Ensure Steady Pace Coverage of Syllabus	(10) Ability to Speak Loudly and Clearly	Total Out of
Weigtage -->					15	15	8	12	12	12	4	6	8	8	100
1.	vijayalakshmi-eee	EEE-A/4	54	EE3404/Microprocessor And Microcontroller	9.39	9.39	4.71	7.29	7.07	7.38	2.4	3.76	5.13	5.16	61.66
2.	rajkumar-eee	EEE-A/4	54	EE3405/Electrical Machines - II	11	10.67	5.72	8	8.13	8.27	2.83	4.07	5.72	5.84	70.24
3.	pearline-eee	AID-B/2	58	BE3251/Basic Electrical And Electronics Engineering	11.33	10.91	6.01	8.57	8.23	8.48	2.95	4.57	6.15	5.82	73.03
4.	ramprasath-eee	ECE-A/2	61	BE3254/Electrical And Instrumentation Engineering	11.46	10.97	6.01	8.03	8.38	8.89	2.78	4.54	6.03	5.98	73.07

The above staffs were called for a meeting with HOD at his cabin. They were communicated about their feedback score and were advised to take some measures to improve their performance. They were insisted to do students counselling in a friendly way and were asked to give the real time applications about their subject so as to make the students to be more interactive with utmost interest in the class. Also added that, they should be a little bit louder while teaching. The staffs also accepted the suggestions given by HOD and assured to do the same.

HOD/EEE

PRINCIPAL

Saranathan College of Engineering
Tiruchirappalli-12

FeedBack Report : EEE Month&Year: SEP2022 Academic Year :2022-23ODD

S.no	staffcode	branch /Sem	No. partici pated	Subject Code /Title	(1) Does the faculty come Prepared for the Classes ?	(2) Subject Knowledge and Clarity of the Faculty	(3) Impartiality and Fairness to Students ?	(4) Interaction with Students by the faculty	(5) Valuable/Extra Information given during the Lectures by the faculty	(6) Enthusiasm for Subject ?	(7) Showing Concern and Care for Students?	(8) Punctuality in Evaluation of Exam Papers/ Assignments ?	(9) Whether Syllabus for IA Tests/ University Examination Completed steadily?	(10) Ability to Speak Loudly and Clearly	Total Out of
	Weigtage				**15.0**	**15.0**	**8.0**	**12.0**	**12.0**	**12.0**	**4.0**	**6.0**	**8.0**	**8.0**	**100**
1	pearline-eee	EEE-A/3	59	EC3301/Electron Devices And Circuits	11.29	11.14	6.02	8.87	8.30	8.66	2.86	4.39	5.99	6.10	73.62
2	paranthagan-eee	EEE-A/3	58	EE3301/Electromagnetic Fields	11.22	10.81	5.60	7.99	8.23	8.52	2.74	4.22	5.66	5.63	70.63
3	vijayalakshmi-eee	EEE-A/3	59	EE3302/Digital Logic Circuits	12.36	11.85	6.13	9.36	9.03	9.23	2.96	4.66	6.40	6.05	78.01
4	rameshbabu-eee	EEE-A/3	59	EE3303/Electrical Machines - I	13.53	13.73	7.21	10.98	10.98	10.82	3.63	5.43	7.27	7.27	90.85
5	suganyadevi-eee	EEE-A/5	50	EE8501/Power System Analysis	12.42	12.42	6.62	9.98	10.03	10.08	3.28	5.14	6.66	6.66	83.29
6	manimuthu-eee	EEE-A/5	50	EE8551/Microprocessors And Microcontrollers	12.18	12.36	6.59	9.94	9.65	9.79	3.33	5.11	6.72	6.69	82.36
7	ramprasath-eee	EEE-A/5	50	EE8552/Power Electronics	12.84	12.60	6.40	9.60	9.55	9.74	3.25	4.99	6.75	6.62	82.35
8	ramprakash-eee	EEE-A/5	50	EE8591/Digital Signal Processing	12.36	12.54	6.50	9.70	9.65	9.89	3.31	5.02	6.82	6.75	82.52
9	gayathri-eee	EEE-A/5	50	OMD551/Basics Of Biomedical Instrumentation	12.72	12.66	6.78	10.22	10.46	10.27	3.41	5.26	7.04	7.20	86.03
10	sridhar-eee	EEE-A/7	45	EE8010/Power Systems Transients	13.87	13.87	7.32	10.93	10.77	11.09	3.68	5.57	7.32	7.11	91.55
11	vijayalakshmi-eee	EEE-A/7	45	EE8017(8)/High Voltage Direct Current	12.47	12.67	6.72	10.13	10.03	10.13	3.41	5.17	6.83	6.83	84.39

				Transmission											
12	vijay-eee	EEE-A/7	45	EE8701/High Voltage Engineering	14.27	14.13	7.57	11.31	11.15	11.31	3.79	5.60	7.54	7.57	94.23
13	suganyadevi-eee	EEE-A/7	45	EE8702/Power System Operation And Control	13.60	13.60	6.97	10.51	10.77	10.67	3.57	5.33	7.32	7.29	89.64
14	krishnakumar-eee	EEE-A/7	45	EE8703/Renewable Energy Systems	13.00	12.87	6.79	10.51	10.56	10.45	3.47	5.23	6.97	6.97	86.81
15	ramprakash-eee	EEE-A/7	45	EI8075/Fibre Optics And Laser Instruments	13.93	13.87	7.40	11.41	11.09	11.20	3.75	5.63	7.54	7.54	93.36
16	rajkumar-eee	EEE-B/7	43	EE8010/Power Systems Transients	13.05	12.84	6.51	9.66	9.88	9.99	3.29	5.05	6.85	6.62	83.73
17	paranthagan-eee	EEE-B/7	43	EE8017(8)/High Voltage Direct Current Transmission	13.19	13.60	6.88	9.77	10.33	10.49	3.29	5.39	7.14	6.77	86.86
18	vigneshwaran-eee	EEE-B/7	43	EE8701/High Voltage Engineering	11.44	11.09	6.03	8.37	8.87	8.82	2.88	4.63	6.18	5.73	74.05
19	ramprasath-eee	EEE-B/7	43	EE8703/Renewable Energy Systems	14.02	14.02	7.29	11.22	11.22	11.11	3.72	5.47	7.52	7.52	93.11
20	marimuthu-eee	EEE-B/7	43	EI8075/Fibre Optics And Laser Instruments	12.56	12.63	6.88	10.21	9.99	10.10	3.57	5.22	7.07	6.85	85.08
21	balasubramanian-eee	ICE-A/3	17	EI3353/Transducers Engineering	13.06	13.59	7.53	11.15	11.29	10.73	3.67	5.58	7.15	7.53	91.28

SARANATHAN COLLEGE OF ENGINEERING

DEPARTMENT OF EEE

ACTION TAKEN REPORT FEEDBACK REPORT : EEE MONTH & YEAR: SEP 2022 ACADEMIC YEAR :2022-23ODD

S.no	staffcode	branch /Sem	No. participated	Subject Code /Title	(1) Does the faculty come Prepared for the Classes ?	(2) Subject Knowledge and Clarity of the Faculty	(3) Impartiality and Fairness to Students ?	(4) Interaction with Students by the faculty	(5) Valuable/ Extra Information given during the Lectures by the faculty	(6) Enthusiasm for Subject ?	(7) Counselling and being Friendly	(8) Punctuality in Evaluation of Exam Papers/ Assignments ?	(9) Ability to Ensure Steady Pace Coverage of Syllabus	(10) Ability to Speak Loudly and Clearly	Total Out of
Weigtage -->					15	15	8	12	12	12	4	6	8	8	100
1.	paranthagan-eee	EEE-A/3	58	EE3301/Electromagnetic Fields	11.22	10.81	5.6	7.99	8.23	8.52	2.74	4.22	5.66	5.63	70.63
2.	pearline-eee	EEE-A/3	59	EC3301/Electron Devices And Circuits	11.29	11.14	6.02	8.87	8.3	8.66	2.86	4.39	5.99	6.1	73.62
3.	vigneshwaran-eee	EEE-B/7	43	EE8701/High Voltage Engineering	11.44	11.09	6.03	8.37	8.87	8.82	2.88	4.63	6.18	5.73	74.05

The above staffs were called for a meeting with HOD at his cabin. They were communicated about their feedback score and were advised to to improve their performance. They were insisted to do students counselling in a friendly way and were asked to be well prepared for the classes and to be very clarity in providing the teaching. They were also asked to give the real time applications about their subject so as to make the students to be more interactive and with utmost interest in the class. Also added that, they should cover the syllabus with steady pace and should be a little bit louder while teaching. The above staffs also accepted the suggestions given by HOD and assured to do the same.

HOD/EEE **PRINCIPAL**

SARANATHAN COLLEGE OF ENGINEERING, TRICHY-12

Academic Planner for 2022 - 23 Odd Semester - I YEAR UG (Sections A, B, C, D & E)

OCT'22	DAY	DETAILS	working days	NOV'22	DAY	DETAILS	working days	DEC'22	DAY	DETAILS	working days	JAN'23	DAY	DETAILS	working days	FEB'23	DAY	DETAILS	working days	MAR'23	DAY	DETAILS	working days
01	SAT	Holiday		01	TUE		2	01	THU	IA Test 1	24	01	SUN	New Year Holiday		01	WED	IA Test 2	66	01	WED		86
02	SUN	Gandhi Jayanthi Holiday		02	WED		3	02	FRI	IA Test 1	25	02	MON		46	02	THU	IA Test 2	67	02	THU		87
03	MON	Holiday		03	THU		4	03	SAT	Holiday		03	TUE		47	03	FRI	IA Test 2 Founder's Day	68	03	FRI	Syllabus Completion	88
04	TUE	Ayudha Pooja Holiday		04	FRI		5	04	SUN	Holiday		04	WED		48	04	SAT	Holiday		04	SAT	Holiday	
05	WED	Vijayadhasami Holiday		05	SAT	Holiday		05	MON		26	05	THU		49	05	SUN	Holiday		05	SUN	Holiday	
06	THU	Induction Program		06	SUN	Holiday		06	TUE		27	06	FRI	Saranathan Jayanthi	50	06	MON		69	06	MON	Revision	89
07	FRI	Induction Program		07	MON		6	07	WED	Flag Day	28	07	SAT	Holiday		07	TUE		70	07	TUE	Revision	90
08	SAT			08	TUE		7	08	THU		29	08	SUN	Holiday		08	WED		71	08	WED	Revision Women's Day	91
09	SUN	Milad-un-Nabi Holiday		09	WED		8	09	FRI		30	09	MON		51	09	THU		72	09	THU	Revision	92
10	MON	Induction Program		10	THU		9	10	SAT	Holiday		10	TUE		52	10	FRI		73	10	FRI	Revision	93
11	TUE	Induction Program		11	FRI		10	11	SUN	Holiday		11	WED		53	11	SAT	Holiday		11	SAT	Holiday	
12	WED	Induction Program		12	SAT	Holiday		12	MON		31	12	THU		54	12	SUN	Holiday		12	SUN	Holiday	
13	THU	Bridge Course		13	SUN	Holiday		13	TUE		32	13	FRI		55	13	MON		74	13	MON	Model Exam	94
14	FRI	Bridge Course		14	MON	Children's Day	11	14	WED		33	14	SAT	Bogi - Holiday		14	TUE		75	14	TUE		95
15	SAT	Holiday		15	TUE		12	15	THU		34	15	SUN	Pongal - Holiday		15	WED		76	15	WED	Model Exam	96
16	SUN	Holiday		16	WED		13	16	FRI		35	16	MON	Thiruvalluvar Day - Holiday		16	THU		77	16	THU		97
17	MON	Bridge Course		17	THU		14	17	SAT	Holiday		17	TUE	Uzhavar Thirunal-Holiday		17	FRI		78	17	FRI	Model Exam	98
18	TUE	Bridge Course		18	FRI		15	18	SUN	Holiday		18	WED		56	18	SAT	Holiday		18	SAT	Holiday	
19	WED	Bridge Course		19	SAT	Holiday		19	MON		36	19	THU		57	19	SUN	Holiday		19	SUN	Holiday	
20	THU	Bridge Course		20	SUN	Holiday		20	TUE		37	20	FRI		58	20	MON		79	20	MON	Model Exam	99
21	FRI	Holiday		21	MON		16	21	WED		38	21	SAT	Holiday		21	TUE		80	21	TUE		100
22	SAT	Holiday		22	TUE		17	22	THU	National Mathematics Day	39	22	SUN	Holiday		22	WED		81	22	WED	Telugu New Year - Holiday	
23	SUN	Holiday		23	WED		18	23	FRI		40	23	MON		59	23	THU		82	23	THU	Model Exam	101
24	MON	Deepavali Holiday		24	THU		19	24	SAT	Holiday		24	TUE		60	24	FRI		83	24	FRI		
25	TUE	Holiday		25	FRI		20	25	SUN	Christmas Holiday		25	WED		61	25	SAT	Holiday		25	SAT	Univ. Practical Exam commences	
26	WED	Holiday		26	SAT	Holiday		26	MON		41	26	THU	Republic Day - Holiday		26	SUN	Holiday		26	SUN	Holiday	
27	THU	Special TT		27	SUN	Holiday		27	TUE		42	27	FRI		62	27	MON		84	27	MON		
28	FRI	Special TT		28	MON	IA Test 1	21	28	WED		43	28	SAT	(Thursday Order)	63	28	TUE	National Science Day	85	28	TUE		
29	SAT	Special TT		29	TUE	IA Test 1	22	29	THU		44	29	SUN	Holiday						29	WED		
30	SUN			30	WED	IA Test 1	23	30	FRI		45	30	MON	IA Test 2	64					30	THU		
31	MON	Regular Classes	1					31	SAT	Holiday		31	TUE	IA Test 2	65					31	FRI		
			1				23				45				65				85				101

Total No. of working days for the semester : 101

Prepared by: Ms.N.Bhavani & Dr.R.Senthamil selvi

PRINCIPAL

SARANATHAN COLLEGE OF ENGINEERING, TRICHY-12

Academic Planner for 2022 - 23 Odd Semester - I YEAR UG (Sections F, G, H, I, J, K & L)

NOV'22	DAY	DETAILS	working days	DEC'22	DAY	DETAILS	working days	JAN'23	DAY	DETAILS	working days	FEB'23	DAY	DETAILS	working days	MAR'23	DAY	DETAILS	working days
01	TUE			01	THU		7	01	SUN	New Year Holiday		01	WED	IA Test 2	49	01	WED		69
02	WED			02	FRI		8	02	MON		29	02	THU	IA Test 2	50	02	THU		70
03	THU			03	SAT	Holiday		03	TUE		30	03	FRI	IA Test 2 Founder's Day	51	03	FRI	Syllabus Completion	71
04	FRI			04	SUN	Holiday		04	WED		31	04	SAT	Holiday		04	SAT	Holiday	
05	SAT	Holiday		05	MON		9	05	THU		32	05	SUN	Holiday		05	SUN	Holiday	
06	SUN	Holiday		06	TUE		10	06	FRI	Saranathan Jayanthi	33	06	MON		52	06	MON	Revision	72
07	MON			07	WED	Flag Day	11	07	SAT	Holiday		07	TUE		53	07	TUE	Revision	73
08	TUE			08	THU		12	08	SUN	Holiday		08	WED		54	08	WED	Revision Women's Day	74
09	WED			09	FRI		13	09	MON		34	09	THU		55	09	THU	Revision	75
10	THU			10	SAT	Holiday		10	TUE		35	10	FRI		56	10	FRI	Revision	76
11	FRI			11	SUN	Holiday		11	WED		36	11	SAT	Holiday		11	SAT	Holiday	
12	SAT	Holiday		12	MON		14	12	THU		37	12	SUN	Holiday		12	SUN	Holiday	
13	SUN	Holiday		13	TUE		15	13	FRI		38	13	MON		57	13	MON	Model Exam	77
14	MON	Induction Program Children's Day		14	WED		16	14	SAT	Bogi - Holiday		14	TUE		58	14	TUE		78
15	TUE	Induction Program		15	THU		17	15	SUN	Pongal - Holiday		15	WED		59	15	WED	Model Exam	79
16	WED	Induction Program		16	FRI		18	16	MON	Thiruvalluvar Day - Holiday		16	THU		60	16	THU		80
17	THU	Induction Program		17	SAT	Holiday		17	TUE	Uzhavar Thirunal- Holiday		17	FRI		61	17	FRI	Model Exam	81
18	FRI	Bridge Course		18	SUN	Holiday		18	WED		39	18	SAT	Holiday		18	SAT		
19	SAT	Holiday		19	MON		19	19	THU		40	19	SUN	Holiday		19	SUN	Holiday	
20	SUN	Holiday		20	TUE		20	20	FRI		41	20	MON		62	20	MON	Model Exam	82
21	MON	Bridge Course		21	WED		21	21	SAT	Holiday		21	TUE		63	21	TUE		83
22	TUE	Bridge Course		22	THU	National Mathematics Day	22	22	SUN	Holiday		22	WED		64	22	WED	Telugu New Year - Holiday	
23	WED	Regular class commences	1	23	FRI		23	23	MON		42	23	THU		65	23	THU	Model Exam	84
24	THU		2	24	SAT	Holiday		24	TUE		43	24	FRI		66	24	FRI		
25	FRI		3	25	SUN	Christmas Holiday		25	WED		44	25	SAT	Holiday		25	SAT	Univ. Practical Exam commences	
26	SAT	Holiday		26	MON	IA Test 1	24	26	THU	Republic Day - Holiday		26	SUN	Holiday		26	SUN	Holiday	
27	SUN	Holiday		27	TUE	IA Test 1	25	27	FRI		45	27	MON		67	27	MON		
28	MON		4	28	WED	IA Test 1	26	28	SAT	(Thursday Order)	46	28	TUE	National Science Day	68	28	TUE		
29	TUE		5	29	THU	IA Test 1	27	29	SUN	Holiday						29	WED		
30	WED		6	30	FRI	IA Test 1	28	30	MON	IA Test 2	47					30	THU		
				31	SAT	Holiday		31	TUE	IA Test 2	48					31	FRI		
No. of Working days			6				28				48				68				84

Total No. of working days for the semester : 84

Prepared by: Ms.N.Bhavani & Dr.R.Senthamil selvi

PRINCIPAL

SARANATHAN COLLEGE OF ENGINEERING, TRICHY-12

Academic Planner for 2022 - 23 Odd Semester - III and IV YEAR UG

AUG'22	DAY	DETAILS	Day order	working days	SEP'22	DAY	DETAILS	Day order	working days	OCT'22	DAY	DETAILS	Day order	working days	NOV'22	DAY	DETAILS	Day order	working days	DEC'22	DAY	DETAILS	Day order	working days
01	MON				01	THU		IV	11	01	SAT	Holiday			01	TUE		II	55	01	THU		IV	77
02	TUE				02	FRI		V	12	02	SUN	Gandhi Jayanthi Holiday			02	WED		III	56	02	FRI	Nan Mudhalvan scheme ends	V	78
03	WED				03	SAT		III	13	03	MON	Holiday			03	THU		IV	57	03	SAT	Holiday		
04	THU				04	SUN	Holiday			04	TUE	Ayudha Pooja Holiday			04	FRI		V	58	04	SUN	Holiday		
05	FRI				05	MON	Teacher's Day	I	14	05	WED	Vijayadhasami Holiday			05	SAT	Holiday			05	MON			
06	SAT	Holiday			06	TUE		II	15	06	THU		IV	36	06	SUN	Holiday			06	TUE			
07	SUN	Holiday			07	WED		III	16	07	FRI		V	37	07	MON		I	59	07	WED	Flag Day		
08	MON				08	THU		IV	17	08	SAT		III	38	08	TUE		II	60	08	THU	Univ.Theory Exam commences		
09	TUE				09	FRI		V	18	09	SUN	Milad-un-Nabi Holiday			09	WED		III	61	09	FRI			
10	WED				10	SAT	Holiday			10	MON	IA Test 2	I	39	10	THU	IA Test 3	IV	62	10	SAT	Holiday		
11	THU	Avani Avittam			11	SUN	Holiday			11	TUE	IA Test 2	II	40	11	FRI	National Education Day IA Test 3	V	63	11	SUN	Holiday		
12	FRI	International Youth Day			12	MON	IA Test 1	I	19	12	WED	IA Test 2	III	41	12	SAT	Holiday			12	MON			
13	SAT				13	TUE	IA Test 1	II	20	13	THU	IA Test 2	IV	42	13	SUN	Holiday			13	TUE			
14	SUN	Holiday			14	WED	IA Test 1	III	21	14	FRI	IA Test 2	V	43	14	MON	Children's Day IA Test 3	I	64	14	WED			
15	MON	Independence Day Holiday			15	THU	Engineer's Day IA Test 1	IV	22	15	SAT	IA Test 2	I	44	15	TUE	IA Test 3	II	65	15	THU			
16	TUE				16	FRI	IA Test 1	V	23	16	SUN	Holiday			16	WED	IA Test 3	III	66	16	FRI			
17	WED	Classes commence for V & VII semester	III	1	17	SAT	IA Test 1	I	24	17	MON		I	45	17	THU	IA Test 3	IV	67	17	SAT	Holiday		
18	THU		IV	2	18	SUN	Holiday			18	TUE		II	46	18	FRI	Syllabus Completion	V	68	18	SUN	Holiday		
19	FRI	Krishna Jayanthi Holiday			19	MON		I	25	19	WED		III	47	19	SAT	Holiday			19	MON			
20	SAT	Holiday			20	TUE		II	26	20	THU		IV	48	20	SUN	Holiday			20	TUE			
21	SUN	Holiday			21	WED		III	27	21	FRI		V	49	21	MON	Nan Mudhalvan scheme starts	I	69	21	WED			
22	MON		I	3	22	THU	Student Feedback-1	IV	28	22	SAT	Holiday			22	TUE		II	70	22	THU	National Mathematics Day		
23	TUE		II	4	23	FRI		V	29	23	SUN	Holiday			23	WED		III	71	23	FRI			
24	WED		III	5	24	SAT	NSS Day	II	30	24	MON	Deepavali Holiday			24	THU		IV	72	24	SAT	Holiday		
25	THU		IV	6	25	SUN	Holiday			25	TUE	Holiday			25	FRI		V	73	25	SUN	Christmas Holiday		
26	FRI		V	7	26	MON		I	31	26	WED		III	50	26	SAT	Holiday			26	MON			
27	SAT		V	8	27	TUE		II	32	27	THU		IV	51	27	SUN	Holiday			27	TUE			
28	SUN	Holiday			28	WED		III	33	28	FRI	Student Feedback-2	V	52	28	MON		I	74	28	WED			
29	MON		I	9	29	THU		IV	34	29	SAT		II	53	29	TUE		II	75	29	THU			
30	TUE		II	10	30	FRI		V	35	30	SUN	Holiday			30	WED		III	76	30	FRI			
31	WED	Vinayagar Chaturthi Holiday								31	MON	National Unity Day	I	54						31	SAT	Holiday		
No. of Working days			10	10				25	35				19	54				22	76				2	78

Total No. of working days for the semester : 78

Prepared by: Ms.N.Bhavani & Dr.R.Senthamil selvi

PRINCIPAL

SARANATHAN COLLEGE OF ENGINEERING, TRICHY-12

Academic Planner for 2022 - 23 Odd Semester - II YEAR UG

AUG'22	DAY	DETAILS	Day order	working days	SEP'22	DAY	DETAILS	Day order		OCT'22	DAY	DETAILS	Day order	working days	NOV'22	DAY	DETAILS	Day order	working days	DEC'22	DAY	DETAILS	Day order	working days
01	MON				01	THU		IV	9	01	SAT	Holiday			01	TUE		II	53	01	THU		IV	75
02	TUE				02	FRI		V	10	02	SUN	Gandhi Jayanthi Holiday			02	WED		III	54	02	FRI		V	76
03	WED				03	SAT		III	11	03	MON	Holiday			03	THU		IV	55	03	SAT	Holiday		
04	THU				04	SUN	Holiday			04	TUE	Ayudha Pooja Holiday			04	FRI		V	56	04	SUN	Holiday		
05	FRI				05	MON	Teacher's Day	I	12	05	WED	Vijayadhasami Holiday			05	SAT	Holiday			05	MON		I	77
06	SAT	Holiday			06	TUE		II	13	06	THU		IV	34	06	SUN	Holiday			06	TUE		II	78
07	SUN	Holiday			07	WED		III	14	07	FRI		V	35	07	MON		I	57	07	WED	Flag Day	III	79
08	MON				08	THU		IV	15	08	SAT		III	36	08	TUE		II	58	08	THU		IV	80
09	TUE				09	FRI		V	16	09	SUN	Milad-un-Nabi Holiday			09	WED		III	59	09	FRI	Syllabus Completion	V	81
10	WED				10	SAT	Holiday			10	MON		I	37	10	THU		IV	60	10	SAT	Holiday		
11	THU	Avani Avittam			11	SUN	Holiday			11	TUE		II	38	11	FRI	Professional Development - Nan Mudhalvan scheme ends	V	61	11	SUN	Holiday		
12	FRI	International Youth Day			12	MON		I	17	12	WED		III	39	12	SAT	Holiday			12	MON	Model Exam	I	82
13	SAT				13	TUE		II	18	13	THU		IV	40	13	SUN	Holiday			13	TUE		II	83
14	SUN	Holiday			14	WED		III	19	14	FRI		V	41	14	MON	Children's Day	I	62	14	WED	Model Exam	III	84
15	MON	Independence Day Holidau			15	THU	Engineer's Day	IV	20	15	SAT	IA Test 2	I	42	15	TUE		II	63	15	THU		IV	85
16	TUE				16	FRI		V	21	16	SUN	Holiday			16	WED		III	64	16	FRI	Model Exam	V	86
17	WED				17	SAT		I	22	17	MON	IA Test 2	I	43	17	THU		IV	65	17	SAT	Holiday		
18	THU				18	SUN	Holiday			18	TUE	IA Test 2	II	44	18	FRI		V	66	18	SUN	Holiday		
19	FRI	Krishna Jayanthi Holiday			19	MON	IA Test 1	I	23	19	WED	IA Test 2	III	45	19	SAT	Holiday			19	MON	Model Exam	I	87
20	SAT	Holiday			20	TUE	IA Test 1	II	24	20	THU	IA Test 2	IV	46	20	SUN	Holiday			20	TUE		II	88
21	SUN	Holiday			21	WED	IA Test 1	III	25	21	FRI	IA Test 2	V	47	21	MON		I	67	21	WED	Model Exam	III	89
22	MON	Classes commence for III semester	I	1	22	THU	IA Test 1	IV	26	22	SAT	Holiday			22	TUE		II	68	22	THU	National Mathematics Day	IV	90
23	TUE		II	2	23	FRI	IA Test 1	V	27	23	SUN	Holiday			23	WED		III	69	23	FRI	Model Exam	V	91
24	WED		III	3	24	SAT	NSS Day IA Test 1	II	28	24	MON	Deepavali Holiday			24	THU		IV	70	24	SAT	Holiday		
25	THU		IV	4	25	SUN	Holiday			25	TUE	Holiday			25	FRI		V	71	25	SUN	Christmas Holiday		
26	FRI		V	5	26	MON		I	29	26	WED		III	48	26	SAT	Holiday			26	MON			
27	SAT		V	6	27	TUE		II	30	27	THU		IV	49	27	SUN	Holiday			27	TUE			
28	SUN	Holiday			28	WED		III	31	28	FRI	Student Feedback-2	V	50	28	MON		I	72	28	WED			
29	MON		I	7	29	THU	Student Feedback-1	IV	32	29	SAT		II	51	29	TUE		II	73	29	THU	Univ.Theory Exam commences		
30	TUE		II	8	30	FRI		V	33	30	SUN	Holiday			30	WED		III	74	30	FRI			
31	WED	Vinayagar Chaturthi Holiday								31	MON	Professional Development - Nan Mudhalvan scheme starts	I	52						31	SAT			
No. of Working days			8	8				25	33				19	52				22	74				17	91

Total No. of working days for the semester : 91

Prepared by: Ms.N.Bhavani & Dr.R.Senthamil selvi

PRINCIPAL

SARANATHAN COLLEGE OF ENGINEERING, TRICHY-12

Academic Planner for Even Semester(2022-23) - II, III & IV UG

FEB'22	DAY	DETAILS	working days	MAR'22	DAY	DETAILS	working days	APR'22	DAY	DETAILS	working days	MAY'22	DAY	DETAILS	working days
01	WED	Classes commence for IV & VI semester T&P Training for III Year	1	01	WED		21	01	SAT	Holiday		01	MON	May Day Holiday	
02	THU	T&P Training for III Year	2	02	THU	Sports Day	22	02	SUN	Holiday		02	TUE		62
03	FRI	Founder's day T&P Training for III Year	3	03	FRI	College Day	23	03	MON		44	03	WED		63
04	SAT	T&P Training for III Year Holiday		04	SAT	Graduation Day Holiday		04	TUE		45	04	THU		64
05	SUN	Holiday		05	SUN	Holiday		05	WED		46	05	FRI	Naan Mudhalvan	65
06	MON		4	06	MON		24	06	THU		47	06	SAT	Holiday	
07	TUE		5	07	TUE		25	07	FRI	Good Friday Holiday		07	SUN	Holiday	
08	WED		6	08	WED	Womania 2023 Women's Day	26	08	SAT	Holiday		08	MON		66
09	THU		7	09	THU	IA test-1	27	09	SUN	Holiday		09	TUE		67
10	FRI		8	10	FRI	IA test-1	28	10	MON	IA test-2	48	10	WED		68
11	SAT	Holiday		11	SAT	IA test-1	29	11	TUE	IA test-2	49	11	THU		69
12	SUN	Holiday		12	SUN	Holiday		12	WED	IA test-2	50	12	FRI	Naan Mudhalvan	70
13	MON		9	13	MON	IA test-1	30	13	THU	IA test-2	51	13	SAT	Holiday	
14	TUE		10	14	TUE	IA test-1	31	14	FRI	Tamil New Year Day Holiday		14	SUN	Holiday	
15	WED		11	15	WED	IA test-1	32	15	SAT	Holiday		15	MON	IA test-3	71
16	THU		12	16	THU		33	16	SUN	Holiday		16	TUE	IA test-3	72
17	FRI		13	17	FRI		34	17	MON	IA test-2	52	17	WED	IA test-3	73
18	SAT	Holiday		18	SAT	Holiday		18	TUE	IA test-2	53	18	THU	IA test-3	74
19	SUN	Holiday		19	SUN	Holiday		19	WED		54	19	FRI		75
20	MON	Classes commence for VIII semester	14	20	MON	Students Feedback-I	35	20	THU		55	20	SAT	Holiday	
21	TUE		15	21	TUE		36	21	FRI	Naan Mudhalvan	56	21	SUN	Holiday	
22	WED		16	22	WED	Telugu New Year Day Holiday		22	SAT	Holiday		22	MON	IA test-3	76
23	THU		17	23	THU		37	23	SUN	Holiday		23	TUE	IA test-3	77
24	FRI		18	24	FRI	Naan Mudhalvan	38	24	MON	Students Feedback-II	57	24	WED	Syllabus completion	78
25	SAT	Holiday		25	SAT	Holiday		25	TUE		58	25	THU		
26	SUN	Holiday		26	SUN	Holiday		26	WED		59	26	FRI	Commencement of University Practical exams	
27	MON		19	27	MON		39	27	THU	Founder's Memorial day	60	27	SAT		
28	TUE	National Science Day	20	28	TUE		40	28	FRI	Naan Mudhalvan	61	28	SUN		
				29	WED		41	29	SAT	Holiday		29	MON		
				30	THU		42	30	SUN	Holiday		30	TUE		
				31	FRI	Naan Mudhalvan	43					31	WED		
No. of Working days			20				23				15				17
														Total No.of working days for the semester :	78

Prepared by

Ms. N. Bhuvani, Asso Prof IT dept

Dr. R. Senthamil Selvi,Asso Prof CSE Dept

Principal

Scanned with CamScanner

SARANATHAN COLLEGE OF ENGINEERING, TRICHY-12

Academic Planner for Even Semester(2022-23) - I Year - G

MAY'23	DAY	DETAILS	working days	JUN'23	DAY	DETAILS	working days	JULY'23	DAY	DETAILS	working days	AUG'23	DAY	DETAILS	working days
01	MON	May Day Holiday		01	THU		18	01	SAT		41	01	TUE	Model exam	65
02	TUE			02	FRI		19	02	SUN	Holiday		02	WED	Model exam	66
03	WED			03	SAT	Holiday		03	MON	IA test-2	42	03	THU	Model exam	67
04	THU			04	SUN	Holiday		04	TUE	IA test-2	43	04	FRI	Model exam	68
05	FRI			05	MON	IA test-1	20	05	WED	IA test-2	44	05	SAT	Model exam	69
06	SAT	Holiday		06	TUE	IA test-1	21	06	THU	IA test-2	45	06	SUN	Holiday	
07	SUN	Holiday		07	WED	IA test-1	22	07	FRI	IA test-2	46	07	MON	Syllabus Completion	70
08	MON			08	THU	IA test-1	23	08	SAT	Holiday		08	TUE		
09	TUE			09	FRI	IA test-1	24	09	SUN	Holiday		09	WED	Commencement of University Practical exams	
10	WED	Classes commence for II semester	1	10	SAT	IA test-1	25	10	MON	IA test-2	47	10	THU		
11	THU		2	11	SUN	Holiday		11	TUE		48	11	FRI		
12	FRI		3	12	MON		26	12	WED		49	12	SAT	Holiday	
13	SAT	Holiday		13	TUE		27	13	THU		50	13	SUN	Holiday	
14	SUN	Holiday		14	WED		28	14	FRI	Students Feedback-II	51	14	MON		
15	MON		4	15	THU		29	15	SAT		52	15	TUE	Independence Day Holiday	
16	TUE		5	16	FRI	Students Feedback-I	30	16	SUN	Holiday		16	WED		
17	WED		6	17	SAT	Holiday		17	MON		53	17	THU		
18	THU		7	18	SUN	Holiday		18	TUE		54	18	FRI		
19	FRI		8	19	MON		31	19	WED		55	19	SAT	Holiday	
20	SAT	Holiday		20	TUE		32	20	THU		56	20	SUN	Holiday	
21	SUN	Holiday		21	WED		33	21	FRI		57	21	MON	Commencement of University Theory exams	
22	MON		9	22	THU		34	22	SAT		58	22	TUE		
23	TUE		10	23	FRI		35	23	SUN	Holiday		23	WED		
24	WED		11	24	SAT		36	24	MON		59	24	THU		
25	THU		12	25	SUN	Holiday		25	TUE		60	25	FRI		
26	FRI		13	26	MON		37	26	WED		61	26	SAT		
27	SAT		14	27	TUE		38	27	THU		62	27	SUN		
28	SUN	Holiday		28	WED		39	28	FRI		63	28	MON		
29	MON		15	29	THU	Bakrid Holiday		29	SAT	Muharram Holiday		29	TUE		
30	TUE		16	30	FRI		40	30	SUN	Holiday		30	WED		
31	WED		17					31	MON	Model exam	64	31	THU		
			17				23				24				

Total No.of working days for the semester : 70

Prepared by

Ms. N. Bhavani, Asso.Prof/IT dept

Dr. R. Senthamil Selvi,Asso. Prof/ CSE Dept

Principal 8/05/2023

SARANATHAN COLLEGE OF ENGINEERING, TRICHY-12

Academic Planner for ODD semester(2021-22) - II,III & IV YEAR UG

AUG'22	DAY	DETAILS	Day order	working days	SEP'22	DAY	DETAILS	DAY order	working days	OCT'22	DAY	DETAILS	DAY order	working days	NOV'22	DAY	DETAILS	DAY order	working days	DEC'22	DAY	DETAILS	DAY order	working days
01	MON				01	THU	Quiz competition	IV	11	01	SAT	**Holiday**			01	TUE	NBA updations	II	55	01	THU	*Univ. Theory Exams starts (III, IV yr)	IV	79
02	TUE				02	FRI	E- Yantra workshop 1 - MBS	V	12	02	SUN	**Gandhi Jeyanthi**			02	WED	Paper Presentation for IIIyr	III	56	02	FRI	Syllabus Completion (IIyr)	V	80
03	WED				03	SAT	Dept' Academic Planner submission Mentor MenteeMeeting-2	II	13	03	MON	**Holiday**			03	THU	Staff meeting with HOD	IV	57	**03**	**SAT**	**Holiday**		
04	THU				04	SUN	**Holiday**			04	TUE	**Ayudha Pooja**			04	FRI	Mentor MenteeMeeting- 3	V	58	**04**	**SUN**	**Holiday**		
05	FRI				05	MON	**Teacher's Day**	I	14	05	WED	**Vijaya Dhasami**			05	SAT	**Holiday**		59	05	MON	NBA updationsRevision	I	81
06	SAT	**Holiday**			06	TUE	CCM-1 for III yr –MBS□Materials check□□	II	15	06	THU	Staff meeting with HOD IA1 Question paper submission NBA updations	III	36	06	SUN	**Holiday**			06	TUE	Revision Staff Data sheet (FDP, Certification details) KG	II	82
07	SUN	**Holiday**			07	WED	CCM-1 for IV yr -PAMaterials check	III	16	07	FRI	CCM-2 for III yr -MBSMaterials check Monthly Report Submission-MBS	IV	37	07	MON	IA3 Question paper submission(III,IVyr)	I	60	07	WED	Flag DayRevision NBA meeting- PA	III	83
08	MON	Library Book request intimation to faculty			08	THU	IA1 Question paper submission(III,IVyr)	IV	**17**	08	SAT	CCM-2 for IV yr -PAMaterials check	V	38	08	TUE	CCM-3 for III & IV yr –MBS,PA□Materials check□	II	61	08	THU	Revision Monthly Report Submission-MBS	IV	84
09	TUE				09	FRI	Monthly Report Submission-MBS Guest Lecture-1 MBS, KR	V	18	09	SUN	**Milldi-Un Nabi Holiday**			09	WED	Monthly Report Submission-MBS	III	62	09	FRI	Files verification		
10	WED				10	SAT	**Holiday**			10	MON	IA Test 2 Starts(III,IVyr)	I	39	10	THU	IA3 test starts(III,IV yr)	IV	63	10	SAT	*Univ. Practical Exams Starts(II yr)		
11	THU	Avani Avittam			11	SUN	**Holiday**			11	TUE	IA Test 2	II	40	11	FRI	IA3 testNational Education Day	V	64	**11**	**SUN**	**Holiday**		
12	FRI	Library Book request submission to Main Library			12	MON	Guest Lecture-1 MBS, KR	I	19	12	WED	IA Test 2 Guest Lecture-3 MBS, KR	III	41	12	SAT	IA3 test NBA updations			12	MON	Collection of projectpublication details (staff, students)-KG		
13	SAT	**Holiday**			13	TUE	IA test-1 University Results Analysis	II	20	13	THU	IA2 Question paper submission(IIyr)	IV	42	13	SUN	**Holiday**			13	TUE	E- Magazine		
14	SUN	**Holiday**			14	WED	IA test-1 IA1 Question paper submission(IIyr)T&P Updations	III	21	14	FRI	IA Test 2CCM-2 for II yr-SPPT&P Updations	V	43	14	MON	Childrens Day IA3 testGuest Lecture-5MBS, KR	I	65	14	WED	Patent filing		
15	MON	**Holiday**			15	THU	Engineer's DayIA test-1□	IV	22	15	SAT	IA Test 2 Ends IA Test 2 starts (II yr)	I	44	15	TUE	A3 test IA3 Question paper submission(IIyr)T&P Updations	II	66	15	THU	Alumini Meet		
16	TUE	Time Table submission-MBS,			16	FRI	CCM-1 for II yr -SPPMaterials check IA test-1	V	23	16	SUN	**Holiday**			16	WED	IA3 ends Lab exams Question paper submission (IIyr)	III	67	16	FRI	NAC/NBA meeting		
17	WED	V,VII SEM classes commence		1	17	SAT	IA test-1 EndsNBA updations	III	24	17	MON	IA Test 2 NBA updations	I	45	17	THU	Stock verification for PRACTICALS -SPP Dspace Training-MS11	IV	68		**SAT**	**Holiday**		
18	THU	Lab and dept Library Stock verification-SPP College Fees reminder, Finance review of Dept'	IV	2	18	SUN	**Holiday**			18	TUE	IA Test 2	II	46	18	FRI	Staff Meeting - IA test 3 Result analysis (III,IV yr) Topper list declaration Syllabus Completion (III,IV yr)	V	69	**18**	**SUN**	**Holiday**		
19	FRI	**Holiday**			19	MON	IA test-1 Starts (II sem)NI - LabVIEW Training starts- PA, KR	I	25	19	WED	IA Test 2	III	47	19	SAT	IA test-3 Starts (II sem)	II	70	19	MON	Annual Report		
20	SAT	**Holiday**			20	TUE	IA test-1 STUDENTFEEDBACK-1 QAC auditing1	II	26	20	THU	IA Test 2	IV	48	20	SUN	Holiday			20	TUE	NBA updations		
21	SUN	**Holiday**			21	WED	IA test-1 Staff Meeting - IA -1 Result analysisTopper list declaration	III	27	21	FRI	IA Test 2 ENDSProject Demo for III yr	V	49	21	MON	*Univ. Practical ExamsStarts (III,IVyr)IA3 test	I	71	21	WED	*Univ. Theory Exams starts(IIyr)		
22	MON	III SEM classes commence Log book, Course plan and Lab Manuals Notes submission	V	3	22	THU	IA test-1 Students Feedback -1 (III,IVyr)	IV	28	22	SAT	Holiday			22	TUE	IA3 test	II	72	22	THU	National Mathematics DAY		
23	TUE	Discipline committee meeting with students- MSV	I	4	23	FRI	IA test-1 E-magazine - RS	V	29	23	SUN	Holiday			23	WED	IA3 test	III	73	23	FRI			
24	WED	Mentor MenteeMeeting-1 II year-SPP Proposal of action plan for e-YANTRA activities	II	5	24	SAT	IA test-1 EndsNI - LabVIEW Training EndsNSS Day	IV	30	24	MON	**Deepavali**			24	THU	IA3 test NAC/NBA meeting	IV	74	**24**	**SAT**	**Holiday**		
25	THU	Mentor MenteeMeeting-1 III year- MBS	III	6	25	**SUN**	**Holiday**			25	TUE	Holiday			25	FRI	IA3 test EndsNBA updations	V	75	**25**	**SUN**	**Chrismas Holiday**		
26	FRI	Mentor MenteeMeeting-1 IV year- PA NBA meeting- PA	IV	7	26	MON	**Guest Lecture-2 MBS, KR**	I	31	26	WED	Staff Meeting - IA test 2 Result analysisTopper list declaration	III	50	26	SAT	**Holiday**			26	MON			
27	SAT	NPTEL course registration details Student Project proposal submission	V	8	27	TUE	Staff Meeting - IA test 1 Result analysisTopper list declaration	II	32	27	THU	Mentor ENTRY-2QAC auditing-2-SPPGuest Lecture-4 MBS, KR	IV	51	27	SUN	**Holiday**			27	TUE			
28	SUN	Holiday			28	WED	Parents Meeting-1□PLC workshop–PA, RS□	III	33	28	FRI	Students Feedback-2(III,IVyr)	V	52	28	MON	Lab exams Question paper submission (IIyr) Guest Lecture-6M	I	76	28	WED	Website updation- RS		
29	MON	E- Yantra lab Demonstration T&P Updations	I	9	29	THU	Students Feedback-1(IIyr)	IV	34	29	SAT	NPTEL Exam registration details Industrial Visit for III year Website and T&P updation- RS	II	53	29	TUE	Staff Meeting- IA test 3 Result analysis (IIyr) Topper list declaration T&P Updations	II	77	29	THU	Commencement of University Theory exams		
30	TUE	NPTEL training- discussion with HOD Website Updation-RS NBA updations	II	10	30	FRI	QAC auditing1-SPPNAC/NBA meeting and updationsT&P Updations	V	**35**	30	SUN	**Holiday**			30	WED	Mentor ENTRY-3 QAC auditing3-SPP Stock verification for PRACTICALS –SPP(IIyr) Website updation- RS	III	78	30	FRI	NBA updations T&P Updations		
31	Wed	Holiday								31	MON	National Unit DayNAC/NBA meetingNBA updations	I	54						**31**	**SAT**	**Holiday**		

MAR 23	DAY	DETAILS	working days	APR'23	DAY	DETAILS	working days	APR'23	DAY	DETAILS	working days	MAY'23	DAY	DETAILS	working days
01	WED	Time table submission - MBS	1	01	SAT	Log book verification	01	01	SAT	[illegible]		01	MON	[illegible]	
02	THU	[illegible]	1	02	SUN	[illegible]	02	02	SUN	[illegible]		02	TUE	Guest Lecture 5 - MBS, IA1 Question Paper Submission	01
03	FRI	[illegible]	1	03	MON	IA1 Question Paper Submission	01	03	MON	PCB fabrication - KG	01	03	WED	Mentor Mentee Meeting 3	01
04	SAT	[illegible]		04	TUE	[illegible]		04	TUE	IA1 Question Paper Submission, Monthly Report - MBS	01	04	THU	[illegible] Log book verification	01
05	SUN	Holiday		05	WED	[illegible]		05	WED	Class Committee Meeting 2 - All CCs	01	05	FRI	[illegible]	01
06	MON	eMagazine - KG	1	06	THU	Intellisuite Training - MSV	01	06	THU	Project Demonstration	01	06	SAT	[illegible]	01
07	TUE	Lab and department library stock verification - KG	1	07	FRI	Mentor Mentee Meeting 2, Monthly report - MBS	01	07	FRI	[illegible]		07	SUN	[illegible]	
08	WED	Monthly Report - MBS	1	08	SAT	[illegible]	01	08	SAT	[illegible]		08	MON	[illegible] Monthly Report - MBS	01
09	THU	Log book verification, Lab manual verification	1	09	SUN	[illegible]	01	09	SUN	[illegible]		09	TUE	[illegible]	01
10	FRI	lesson plan, course committee meeting	1	10	MON	[illegible]	01	10	MON	[illegible]	01	10	WED	[illegible] Log book verification	01
11	SAT	[illegible]		11	TUE	[illegible]	01	11	TUE	[illegible]	01	11	THU	Report Submission, Class Committee Meeting 3 - All CCs	01
12	SUN	[illegible]		12	WED	[illegible]		12	WED	[illegible]	01	12	FRI	[illegible] QAC auditing - AGK, IA3 Topper List Declaration - AGK	01
13	MON	NI TRAINING - TENTATIVE - KG	1	13	THU	[illegible]	01	13	THU	[illegible]	01	13	SAT	[illegible]	
14	TUE	Department Finance Review - RS, NI TRAINING	01	14	FRI	[illegible]	01	14	FRI	[illegible]		14	SUN	[illegible]	
15	WED	NI TRAINING - TENTATIVE - KG	01	15	SAT	[illegible]	01	15	SAT	[illegible]		15	MON	[illegible]	
16	THU	NI TRAINING - TENTATIVE - KG	01	16	SUN	Project Review II - MSV	01	16	SUN	[illegible]		16	TUE	[illegible]	
17	FRI	NI TRAINING - TENTATIVE - KG	01	17	MON	Guest Lecture 2	01	17	MON	[illegible]	01	17	WED	[illegible]	
18	SAT	[illegible]		18	TUE	[illegible]		18	TUE	[illegible]	01	18	THU		
19	SUN	[illegible]		19	WED	[illegible]		19	WED	Guest Lecture 4 - MBS	01	19	FRI		
20	MON	[illegible]	01	20	THU	[illegible] PLC trainier - RS	01	20	THU	Mentor Mentee Meeting 1	01	20	SAT		
21	TUE		01	21	FRI	IA1 topper list declaration - AGK	01	21	FRI	Parents Meeting - All CCs	01	21	SUN		
22	WED	Material Verification - All CCs	01	22	SAT	[illegible]		22	SAT	[illegible]		22	MON		
23	THU	Project Review 1 - MSV	01	23	SUN	Special Guest Lecture - Silver Jubilee Series - MSV	01	23	SUN	[illegible]		23	TUE	Department Finance Review - RS	
24	FRI	Guest Lecture 1 - MBS	01	24	MON	DSPACE training - MSV	01	24	MON	[illegible]	01	24	WED	Course file submission	
25	SAT	[illegible]		25	TUE	[illegible]		25	TUE	Log book verification, IA2 Topper list declaration - AGK	01	25	THU	Admission related workshop	
26	SUN	[illegible]		26	WED	[illegible]		26	WED	Website Updation - KG, QAC auditing - AGK	01	26	FRI	[illegible]	
27	MON	Class Committee Meeting 1 - CCs	01	27	THU	Log book verification, QAC auditing - AGK	01	27	THU	[illegible]	01	27	SAT		
28	TUE	Website Updation - KG, NBA, NAAC updation - AGK, T&P updations - RS	01	28	FRI	Website Updation - KG	01	28	FRI	eMagazine - KG, NBA, NAAC updation - AGK, T&P updations - RS	01	28	SUN		
				29	SAT	PCB fabrication - KG	01	29	SAT	[illegible]		29	MON	T&P updations - RS	
				30	SUN	Project Review III - MSV	01	30	SUN	[illegible]		30	TUE	Lab and department library stock verification - KG	
				31	MON	Guest Lecture 3 - NBA, NBA, NAAC updation - AGK, T&P updations - RS	01					31	WED	Website Updation - KG, NBA, NAAC updation - AGK	

WORK LOAD FILE

SARANATHAN COLLEGE OF ENGINEERING

Venkateswara Nagar, Panjappur, Tiruchirappalli - 620012

Department of Instrumentation and Control Engineering

WORKLOAD -ALLOCATION FOR THE ACADEMIC YEAR 2022-2023(ODD)

S.NO.	NAME	SUBJECT	SUBJECT CODE	YEAR / SEM	THEORY/LAB	CREDIT	HOURS	TOTAL HOURS
1	Dr. S. M. Girirajkumar	Process Control	EI8553	III/V	THEORY	4	6	6
2	Dr. M. Shanmugavalli	Digital Principles and Design	EI3352	II/III	THEORY	3	6	16
		Industrial Data Networks	EI8751	IV/VII	THEORY	3	5	
		Industrial Instrumentation-II	EI8552	III/V	THEORY	3	5	
3	Dr. M .Banu Sundareswari	Analog Electronics	EI3351	II/III	THEORY	3	5	19
		Instrumentation in Petrochemical Industries	EI8091	IV/VII	THEORY	3	5	
		Semiconductor Devices & Circuits Laboratory	EI3361	II/III	LAB	1.5	3	
		Instrumentation System Design Lab	EI8762	IV/VII	LAB	2	6	
4	Dr. P.Aravind	Analytical Instruments	EI8551	III/V	THEORY	3	5	18
		Fibre Optics and Laser Instruments	EI8075	IV/VII	THEORY	3	5	
		Industrial Automation Laboratory	EI8761	IV/VII	LAB	2	6	
		Training and placement		III/V	THEORY		2	
5	Mr.R.Seetharaman	Linear Integrated Circuits and Applications	EI3354	II/III	THEORY	3	5	10
		Electronic Instrumentation	EI8692	IV/VII	THEORY	3	5	
6	Dr.K.Gaayathry	Air Pollution and Control Engineering	OCE551	III/V	THEORY	3	5	18
		Professional Ethics in Engineering	GE8076	IV/VII	THEORY	3	4	
		Industrial Instrumentation Laboratory	EI8561	III/V	LAB	2	3	
		Industrial Automation Laboratory	EI8761	IV/VII	LAB	2	6	
6	Mr.S.Prassanna Perumal	Semiconductor Devices & Circuits Laboratory	EI3361	II/III	LAB	1.5	3	12
		Industrial Instrumentation Laboratory	EI8561	III/V	LAB	2	3	
		Instrumentation System Design Lab	EI8762	IV/VII	LAB	2	6	
							TOTAL	99

02/08/22

Timetable Coordinator

HoD/ICE

PRINCIPAL

WORK LOAD FILE

SARANATHAN COLLEGE OF ENGINEERING

Venkateswara Nagar, Panjappur, Tiruchirappalli - 620012

Department of Instrumentation and Control Engineering

WORKLOAD -ALLOCATION FOR THE ACADEMIC YEAR 2022-2023(EVEN)

S.NO.	NAME	SUBJECT	SUBJECT CODE	YEAR / SEM	THEORY/LAB	Credit	HOURS	TOTAL HOURS
1	Dr. S. M. Girirajkumar	Principles of Management	MG8591	III/VI	THEORY	3	4	4
2	Dr. M. Shanmugavalli	Fundamentals of Nano Science	GE8073	VI/VIII	THEORY	3	4	13
		Industrial Instrumentation	EI3451	II/IV	THEORY	3	5	
		Mems and Nano science	EE8072	III/VI	THEORY	3	4	
		Project Work	IC8811	IV/VIII	LAB	10	0	
		Modern Electronic Instrumentation	IC3401	II/IV	THEORY	4	6	
3	Dr. M.Banu Sundareswari	Advanced Control System	IC8651	III/VI	THEORY	3	5	17
		Process Control Laboratory	EI8661	III/VI	LAB	2	3	
		Sensors and Signal Conditioning Circuits Laboratory	EI3462	II/IV	LAB	2	3	
4	Dr. K. Gaayathry	Electric Circuit Analysis	EE3251	I/II	THEORY	4	5	18
		Instrumentation for Thermal Engineering	TE4201	I/II	THEORY	3	5	
		Training and Placement		III/VI	THEORY		2	
		Electric Circuits Laboratory	EE3271	I/II	LAB	2	3	
		Digital and Linear integrated Circuits Laboratory	EI3461	II/IV	LAB	2	3	
5	Dr.A.Gopikrishnan	Automatic Control Systems	IC3451	II/IV	THEORY	3	5	16
		Thermal Power Plant Instrumentation	EI8092	III/VI	THEORY	3	4	
		Tamils and Technology	GE3252	I/II	THEORY	1	1	
		Sensors and Signal Conditioning Circuits Laboratory	EI3462	II/IV	LAB	2	3	
		Process Control Laboratory	EI8661	III/VI	LAB	2	3	
6	Mr.R.Seetharaman	Logic and Distributed Control System	EI8651	III/VI	THEORY	3	4	10
		Digital and Linear integrated Circuits Laboratory	EI3461	II/IV	LAB	1.5	3	
		Electric Circuits Laboratory	EE3271	I/II	LAB	2	3	
							TOTAL	78

A. Ram 31/01/23
Timetable Coordinator

HOD/ICE

PRINCIPAL

SARANATHAN COLLEGE OF ENGINEERING
(Approved by AICTE, New Delhi, NBA Accredited, Affiliated to Anna University, Chennai)
DEPARTMENT OF INSTRUMENTATION AND CONTROL ENGINEERING

REVIEW OF COURSE FILE

SUBJECT CODE : EI8751

SUBJECT NAME : Industrial Data Network

S.No.	Details
1.	Vision, Mission, PEOs, POs, PSOs, Blooms taxonomy *
2.	Timetable/Workload of the staff – Distribution of teaching load – Roles and Responsibilities*
3.	Syllabus signed by staff & HoD*
4.	Lecture Schedule signed by staff & HoD*
5.	Course Committee meeting circular and minutes*
6.	Identification of Curricular gap and Content Beyond the syllabus*
7.	Previous AU Question papers (at least 5)*
8.	Unit wise Q&A and Objective type questions-20 questions in each unit with answers*
9.	Unit wise course material *
10.	Assignment question paper with sample answer sheets (at least 3) and mark entry
11.	Tutorial question paper with key (minimum 3 Tutorials per unit, 15 Tutorials per course) and mark entry
12.	IA test Q Paper with Key, sample answer papers (at least 3) and mark entry
13.	Makeup Test –Q paper-Attendance-marks - sample answer papers
14.	Remedial Test–Q paper-Attendance-marks - sample answer papers
15.	Content beyond the syllabus – proof
16.	Course end survey
17.	AU question paper with students feedback
18.	AU result analysis
Signature of Course handling faculty with name	M Shanmugavalli (Dr. M. SHANMUGAVALLI)
Signature of HoD	

SARANATHAN COLLEGE OF ENGINEERING
(Approved by AICTE, New Delhi, NBA Accredited, Affiliated to Anna University, Chennai)
DEPARTMENT OF INSTRUMENTATION AND CONTROL ENGINEERING

REVIEW OF COURSE FILE

SUBJECT CODE : EE 3251

SUBJECT NAME : ELECTRIC CIRCUIT ANALYSIS

S.No.	Details
1.	Vision, Mission, PEOs, POs, PSOs, Blooms taxonomy *
2.	Timetable/Workload of the staff – Distribution of teaching load – Roles and Responsibilities*
3.	Syllabus signed by staff & HoD*
4.	Lecture Schedule signed by staff & HoD*
5.	Course Committee meeting circular and minutes*
6.	Identification of Curricular gap and Content Beyond the syllabus*
7.	Previous AU Question papers (at least 5)*
8.	Unit wise Q&A and Objective type questions-20 questions in each unit with answers*
9.	Unit wise course material *
10.	Assignment question paper with sample answer sheets (at least 3) and mark entry
11.	Tutorial question paper with key (minimum 3 Tutorials per unit, 15 Tutorials per course) and mark entry
12.	IA test Q Paper with Key, sample answer papers (at least 3) and mark entry
13.	Makeup Test –Q paper-Attendance-marks - sample answer papers
14.	Remedial Test–Q paper-Attendance-marks - sample answer papers
15.	Content beyond the syllabus – proof
16.	Course end survey
17.	AU question paper with students feedback
18.	AU result analysis
Signature of Course handling faculty with name Dr. K. Gayathry	
Signature of HoD	

LESSON PLAN

LESSON PLAN - EVEN SEM (2022-2023)						
TITLE OF THE SUBJECT:	EI8092	THERMAL POWER PLANT INSTRUMENTATION				
SEMESTER :	VI	BRANCH:	ICE		REGULATION:	R-2017 AUC
NAME OF STAFF:	Dr.A.GOPIKRISHNAN	ASSISTANT PROFESSOR	ICE			

COURSE OBJECTIVES:

1. To make the students familiarize about various power generation methods
2. To identify various parameters in thermal power plant
3. To impart knowledge about the different types of controls and control loops.
4. To familiarize the student with the methods of monitoring different parameters like speed, vibration of turbines and their control

UNIT NO.	TOPICS	TEACHING METHOD	NO. OF PERIODS	CUMULATIVE PERIODS
I	**POWER GENERATION METHODS**			9
	Brief survey of methods of power generation	BB/PPT	1	1
	hydro, thermal, nuclear,	BB/PPT	2	3
	solar and wind power	BB/PPT	2	5
	importance of instrumentation in power generation	BB/PPT	2	7
	thermal power plants: building blocks, details of boiler processes	BB/PPT	2	9
	P&I diagram of boiler	BB/PPT	1	10
	cogeneration.	BB/PPT	2	12
II	**MEASUREMENTS IN POWER PLANTS**			9
	Electrical measurements: current, voltage, power,	BB/PPT	1	13
	Electrical measurements: frequency, power factor	BB/PPT	2	15
	non electrical parameters: flow of feed water, fuel,	BB/PPT	1	16
	non electrical parameters: air, steam pressure	BB/PPT	1	17
	non electrical parameters: steam temperature	BB/PPT	1	18
	smoke density measurement	BB/PPT	2	20
	Flue gas oxygen analyzer	BB/PPT	1	21
	pollution monitoring instruments.	BB/PPT	2	23
	Revision	BB/PPT	2	25
III	**FURNACE CONTROL**			9
	Coal handling: Pulverizers	BB/PPT	2	27
	Furnace Draught: natural draught	BB/PPT	1	28
	forced draught, induced draught,	BB/PPT	2	30
	power requirements for draught systems	BB/PPT	1	31
	Combustion control: Fuel/Air ratio	BB/PPT	1	32
	combustion efficiency, excess air, parallel	BB/PPT	1	33
	cross limited combustion control	BB/PPT	1	34
	soot-blowing operation	BB/PPT	1	35
IV	**BOILER CONTROL**			9
	Boiler metal temperature measurement	BB/PPT	2	37
	pressure measuring devices	BB/PPT	2	39
	Boiler feed water processing and control	BB/PPT	2	41
	drum level measurement methods	BB/PPT	1	42

LESSON PLAN

UNIT NO.	TOPICS	TEACHING METHOD	NO. OF PERIODS	CUMULATIVE PERIODS
IV	**BOILER CONTROL (Contd.)**			9
	steam temperature control: main steam temperature control	BB/PPT	1	43
	steam temperature control: reheat steam temperature control	BB/PPT	2	45
	superheater control, deaerator control	BB/PPT	1	46
	distributed control system in power plants	BB/PPT	1	47
	interlocks in boiler operation.	BB/PPT	2	49
	Revision	BB/PPT	2	51
V	**TURBINE CONTROL**			9
	Speed measurement,	BB/PPT	1	52
	rotor and casing movement- vibration	BB/PPT	1	53
	shell temperature monitoring and control	BB/PPT	1	54
	steam pressure control	BB/PPT	1	55
	lubricant oil temperature	BB/PPT	1	56
	cooling system.	BB/PPT	1	57
	Revision	BB/PPT	2	59

BB - Black Board, PPT- Power point presentation

TEXT BOOKS:

1. Sam G. Dukelow, The control of Boilers, instrument Society of America, 1991.
2. Modern Power Station Practice, Vol.6, Instrumentation, Controls and Testing, Pergamon Press, Oxford, 1971.

REFERENCES:

1. Krishnaswamy KM, Bala P, Bala MP, "Power Plant Instrumentation," Prentice Hall, 2013
2. Elonka.S.M.and Kohal A.L., Standard Boiler Operations, McGraw-Hill, New Delhi, 1994.
3. Jain R.K., Mechanical and industrial Measurements, Khanna Publishers, New Delhi, 2008

COURSE OUTCOMES:

1. Describe an overview on power generation through various methods.
2. Identify various measurements and controls used in power plant.
3. Understand basic furnace control techniques
4. Know basic boiler control techniques
5. Discriminate advanced boiler control techniques.
6. Summarize the turbine control techniques.

SIGNATURE OF STAFF

SIGNATURE OF HEAD OF THE DEPARTMENT

LESSON PLAN

LESSON PLAN - EVEN SEM (2022-2023)						
TITLE OF THE SUBJECT:	IC3451	AUTOMATIC CONTROL SYSTEMS				
SEMESTER :	IV	BRANCH:	ICE		REGULATION:	R-2021 AUC
NAME OF STAFF:	Dr.A.GOPIKRISHNAN	ASSISTANT PROFESSOR	ICE			

COURSE OBJECTIVES:

1. To introduce the control system components and transfer function model with their graphical representation.
2. To understand the analysis of system in time domain along with steady state error
3. To introduce frequency response analysis of systems
4. To accord basic knowledge in design of compensators.
5. To introduce the state space model

UNIT NO.	TOPICS	TEACHING METHOD	NO. OF PERIODS	CUMULATIVE PERIODS
I	SYSTEMS COMPONENTS AND THEIR REPRESENTATION			11+1
	Control System: Terminology and Basic Structure	BB	1	1
	Feed forward and Feedback control theory	BB	2	3
	Electrical Transfer Function Models	BB	2	5
	Mechanical Transfer Function Models	BB	2	7
	Block diagram Models	BB	2	9
	Signal flow graphs models	BB	1	10
	DC and AC servo Systems-Synchro.	BB/PPT	2	12
II	TIME RESPONSE ANALYSIS			11+1
	Transient response-steady state response	BB	1	13
	Measure of performance of the standard first order system	BB	2	15
	Measure of performance of the standard second order system	BB	1	16
	Time domain specifications	BB	1	17
	Effect on an additional zero and an additional pole	BB	1	18
	Steady state error	BB	2	20
	Type number	BB	1	21
	PID control-Effect of PD, PI, PID control systems.	BB	2	23
	Revision	BB/PPT	2	25
III	FREQUENCY RESPONSE AND SYSTEM ANALYSIS			11+1
	Closed loop frequency Response	BB	2	27
	Performance specification in frequency domain	BB	1	28
	Bode Plot	BB	2	30
	Polar Plot-	BB	1	31
	Design of compensators using Bode plots	BB	1	32
	Cascade lead compensation	BB	1	33
	Cascade lag compensation	BB	1	34
	Cascade lag-lead compensation	BB/PPT	1	35
IV	CONCEPT OF STABILITY ANALYSIS			11+1
	Concept of Stability-Bounded	BB	2	37
	Input Bounded	BB	2	39
	Output Bounded	BB	2	41
	Routh Hurwitz stability Criterion	BB	1	42

LESSON PLAN

UNIT NO.	TOPICS	TEACHING METHOD	NO. OF PERIODS	CUMULATIVE PERIODS
IV	**CONCEPT OF STABILITY ANALYSIS (Contd.)**			11+1
	Relative Stability	BB	1	43
	Root locus concept	BB	2	45
	Guidelines for sketching root locus	BB	1	46
	Nyquist stability criterion	BB	1	47
	Revision	BB	2	49
	Revision	BB	2	51
V	**CONTROL SYSTEM ANALYSIS USING STATE VARIABLE METHOD**			11+1
	State variable Representation	BB	1	52
	Conversion of state variable models to transfer Functions	BB	1	53
	Conversion of transfer functions to state variable Models	BB	1	54
	Solution of state Equations	PPT	1	55
	Concepts of Controllability and Observability	BB	1	56
	Equivalence between transfer function and state variable	BB	1	57
	Revision	BB	1	58

BB - Black Board, PPT- Power point presentation

TEXT BOOKS:

1. Nagarath, I.J. and Gopal, M., "Control Systems Engineering", New Age International Publishers, 2017.
2. Benjamin C. Kuo, "Automatic Control Systems", Wiley, 2014.

REFERENCES:

1. Katsuhiko Ogata, "Modern Control Engineering", Pearson, 2015.
2. Richard C.Dorf and Bishop, R.H., "Modern Control Systems", Pearson Education,2009.
3. John J.D., Azzo Constantine, H. and Houpis Sttuart, N Sheldon, "Linear Control System Analysis and Design with MATLAB", CRC Taylor& Francis Reprint 2009
4. Rames C. Panda and T. Thyagarajan, "An Introduction to Process Modelling Identification and Control of Engineers", Narosa Publishing House, 2017.
5. M.Gopal, "Control System: Principle and design", McGraw Hill Education, 2012.
6. NPTEL Video Lecture Notes on "Control Engineering "by Prof. S. D. Agashe, IIT Bombay.

COURSE OUTCOMES:

1. To represent and develop systems in different forms using the knowledge gained (L5)
2. To analyses the system in time and frequency domain (L4)
3. To discuss the effect of PID controller in closed loop systems (L2)
4. To construct compensator for the linear systems in frequency domain (L5)
5. To analyses the stability of physical systems (L4)
6. To acquire and analyses knowledge in State variable model for MIMO systems (L4)

A Gopikrishna 6/12/2023
SIGNATURE OF STAFF

06/12/23.
SIGNATURE OF HEAD OF THE DEPARTMENT

LESSON PLAN- EVEN SEM (2022-2023)						
TITLE OF THE SUBJECT:	IC8651	ADVANCED CONTROL SYSTEM				
SEMESTER:	VI	BRANCH :	ICE		REGULATION:	R-2017 AUC
NAME OF STAFF:	Dr. M. Banu Sundareswari	ASSISTANT PROFESSOR			ICE Department	

COURSE OBJECTIVES:

C309.1 construct the model of linear and non-linear systems using state variable analysis

C309.2 Design and compute the state feedback control and state observer

C309.3 Examine sample data analysis

C309.4 Analyze the stability of the systems using different techniques

C309.5 Construct phase trajectories for non- linear systems using the phase plane analysis and describing function analysis

C309.6 Discuss the design of optimal controller with kalman filter

UNIT NO	TOPICS	TEACHING METHOD	NO. OF PERIODS	CUMULATIVE PERIODS
I	**STATE VARIABLE ANALYSIS**			
	Introduction to state variables	BB	1	01
	concepts of state variables and state model-State model	BB	2	03
	Diagonalization	BB	2	05
	solution of state equations	BB	2	07
	Concepts of controllability	BB	2	09
	Concepts of observability	BB	2	11
II	**STATE VARIABLE DESIGN**			
	Introduction to state model	BB	1	12
	Effect of state feedback	BB	2	14
	Pole placement design: Necessary and sufficient condition for arbitrary pole placement	BB	1	15
	State regulator design of state observers	BB	2	17
	Design of servo systems	BB	1	18
	State feedback with integral control	BB	1	19
	Sample problem solving	BB	1	20
	Sample problem solving	BB	1	21
III	**SAMPLED DATA ANALYSIS**			
	Introduction spectrum analysis of sampling process signal	BB	1	22
	Z-transform function	BB	3	25
	Inverse Z transform function	BB	3	28
	Response of Linear discrete system	BB	2	30
	Z-transform analysis of sampled data control systems	BB	2	32
	Response between sampling instants	BB	1	33
	Z and S domain relationship Stability analysis and compensation techniques	BB BB	1 1	35

IV	NON-LINEAR SYSTEMS			
	Introduction to physical non-linearity's	BB	2	37
	The phase plane method: concepts, singular points	BB	2	39
	stability of non-linear systems	BB	2	41
	Construction of phase trajectories system analysis by phase planemethod	BB	2	43
	The describing function method	BB	2	45
	Stability analysis by describing function method	BB	2	47
	Jump resonance	BB	1	48
V	OPTIMAL CONTROL			
	Introduction: Classical control and optimization	BB	2	50
	Formulation of optimal control problem	BB	2	52
	Typical optimal control performance measures	BB	2	54
	Optimal state regulator design: Lyapunov equation	BB	2	56
	Matrix Riccati equation	BB	2	58
	LQR steady state optimal control and applications	BB	2	60

BB –Black board teaching,

TEXT BOOKS:

1. M.Gopal, "Digital Control and State Variable Methods", 4th edition, Mc Graw Hill India, 2012.
2. K. Ogata, 'Modern Control Engineering', 5th Edition, Pearson, 2012.
3. K. P. Mohandas, "Modern Control Engineering", Sanguine Technical Publishers, 2006

REFERENCES:

M.Gopal, Modern Control System Theory, 3rd edition, New Age International Publishers, 2014.
William S Levine, "Control System Fundamentals," The Control Handbook, CRC Press, Tayler an Francies Group,2011.
Ashish Tewari, 'Modern Control Design with Matlab and Simulink', John Wiley, New Delhi, 2002.
T. Glad and L. Ljung,, "Control Theory –Multivariable and Non-Linear Methods", Taylor & Francis, 2002.
D.S.Naidu, "Optimal Control Systems" First Indian Reprint, CRC Press, 2009.

COURSE OUTCOMES:

1. Able to design state feedback controller and state observer.
2. Able to understand and analyse linear and nonlinear systems using phase plane method
3. Able to understand and analyse nonlinear systems using describing function method
4. Able to understand and design optimal controller
5. Able to understand optimal estimator including Kalman Filter
6. Ability to apply advanced control strategies to practical engineering problems

SIGNATURE OF STAFF **SIGNATURE OF HEAD OF THE DEPARTMENT**

LESSON PLAN
EVEN SEM (2022 - 23)

E OF THESUBJECT: EE8072 Micro Electro Mechanical Systems

STER : VI BRANCH: ICE REGULATION: R-2017 AUC

E OF STAFF: M. Shanmugavalli PROFESSOR /ICE

SE OBJECTIVES:

To provide wide knowledge of semiconductors and solid mechanics to fabricate MEMS devices
To educate on the rudiments of Micro fabrication techniques
To educate on applications of MEMS
To provide wide information dealing with nano material and its necessity
To analyze methods involving preparation of nano scale devices

	Topics	Teaching Method	No. of Periods	Cumulative Periods
	UNIT I –OVERVIEW OF MEMS AND MICROSYSTEMS – 9			
	Introduction to MEMS and Microsystems	BB	1	1
	Need for Miniaturization,	PPT	1	2
	MEMS and Microsystem products: Micro gears - Micro turbines – Micromotors - Micro optical devices	PPT	1	3
	Microsystems and Microelectronics	BB	1	4
	Application of Microsystems in Automotive Industries: Safety - Engine and power trains - Comfort and convenience	BB	1	5
	Micro actuation: Actuation using thermal forces	PPT	2	7
	actuation using shape memory alloys	BB	1	8
	Actuation using piezoelectric effect	PPT	1	9
	Actuation using Electrostatic forces.	PPT	1	10
	UNIT-II MICROSYSTEM FABRICATION PROCESS – 9			
	Photolithography, Ion Implantation, Diffusion	BB	1	11
	Oxidation: Thermal oxidation - Oxidation by color	BB	1	12
	Chemical Vapour Deposition	PPT	1	13
	Physical Vapour Deposition: Sputtering	BB	1	14
	Etching: Chemical- Plasma	BB	1	15
	Micromachining	BB	1	16
	Bulk Micromachining	BB	1	17
	Surface Micromachining	BB	1	18
	UNIT-III POLYMER AND OPTICAL MEMS – 9			
	Polymers in MEMS	BB	1	19
	Polyimide, SU-8	BB	1	20
	Liquid Crystal Polymer	PPT	1	21
	PDMS – PMMA	BB	1	22
	Parylene – Fluorocarbon	BB	1	23
	Optical MEMS	BB	1	24
	Lenses and Mirrors	BB	1	25
	Actuators for Active Optical MEMS	BB	1	26
	Simulation using FEA CAD tool	PPT	1	27

UNIT IV INTRODUCTION TO NANOSCALE ENGINEERING – 9			
General Principle of Nano Fabrication	PPT	1	28
Nano products	BB	1	29
Applications of Nano products	BB	1	30
Quantum physics	BB	1	31
Fluid flow in sub micrometers and nanoscales: Rarefied Gas – Knudsen and match numbers	BB	1	32
Modeling of micro and nanoscale gas flow	BB	1	33
Heat Conduction at Nanoscale	PPT	1	34
Challenges in Nanoscale Engineering	PPT	1	35
New materials for NEMS	PPT	1	36
UNIT V PATTERNING AND PREPARATION METHODS – 9			
Bottom up Synthesis – Top down Approach	BB	1	37
Precipitation, Mechanical Milling, Colloidal route	BB	2	39
Self assembly	BB	2	41
Vapour phase deposition, Evaporation	BB	2	43
Molecular Beam Epitaxy, Atomic Layer Epitaxy, MOMBE	BB	2	45
Patterning	BB	2	47
Introduction to optical/UV electron beam and X-ray Lithography systems and processes.	PPT	1	48
Clean rooms: specifications and design, air and water purity, requirements for particular processes.	PPT	2	50

COURSE OUTCOMES (COs)

1. Ability to understand the operation of micro devices, micro systems and their applications.
2. Ability to design the micro devices, micro systems using the MEMS fabrication process.
3. Ability to understand the operation of nano devices, nano systems and their applications.
4. Ability to design nano devices, nano systems using the preparation methods.

TEXT BOOKS:

1. Tai Ran Hsu "MEMS and Microsystems Design: Manufacture and Nano Scale Engineering", John Wiely& Sons, INC., 2nd Edition, 2008.
2. A.S. Edelstein and R.C. Cammearata, eds., Nanomaterials: Synthesis, Properties and Applications, (Institute of Physics Publishing, Bristol and Philadelphia, 1996).

REFERENCES:

1. Chang Liu, 'Foundations of MEMS', Pearson Education Inc., 2012.
2. Mohamed Gad-el-Hak, editor, "The MEMS Handbook", CRC press Baco Raton, 2001.
3. NadimMaluf, "An Introduction to Micro Electro Mechanical System Design", Artech House, 2000.
4. G Timp (Editor), Nanotechnology, AIP press/Springer, 1999.
5. N John Dinardo, Nanoscale charecterisation of surfaces & Interfaces, Second edition, Weinheim Cambridge, Wiley-VCH, 2000.

SIGNATURE OF STAFF

SIGNATURE OF HEAD OF THE DEPARTMENT

LESSON PLAN

LESSON PLAN
EVEN SEM (2022-23)

TITLE OF THE SUBJECT: EI8692 ELECTRONIC INSTRUMENTATION

SEMESTER: VII **BRANCH:** ICE **REGULATION:** R-2017 AUC

NAME OF STAFF: Mr.R.SEETHARAMAN **ASSISTANT PROFESSOR** ICE

COURSE OBJECTIVES:

1. To introduce different types of electronic voltmeters and their applications
2. To provide knowledge on various types of cathode ray oscilloscopes, their applications and different types of signal analyzers
3. To introduce different types of waveform generators and analyzers and their applications
4. To educate on virtual instrumentation, its applications, programming and DAQ cards and modules
5. To give exposure to telemetry, modulation techniques and multiplexing

UNIT NO	TOPICS	TEACHING METHOD	NO. OF PERIODS	CUMULATIVE PERIODS
	ELECTRONIC INSTRUMENTS			
I	Electronic Voltmeter and and types	BB	2	02
	Differential Amplifier, Source follower	BB	2	04
	Truerms reading voltmeter	BB	1	05
	Electronic multimeter and ohmmeter	BB	1	06
	Current measurement	BB	2	08
	Power measurement	BB	2	10
	Microprocessor based DMM	BB	2	12
	CATHODE RAY OSCILLOSCOPE & SIGNAL ANALYZERS			
II	General purpose cathode ray oscilloscope	PPT/BB	1	13
	Dual trace, dual beam and sampling oscilloscopes	PPT/BB	3	16
	Analog and digital storage oscilloscope	PPT/BB	2	18
	frequency selective and heterodyne wave analyser	PPT	2	20
	Harmonic distortion analyser	PPT	1	21
	Spectrum analyser	BB/PPT	1	22

LESSON PLAN

	WAVEFORM GENERATORS			
III	Wien's bridge and phase shift oscillators	PPT/BB	2	24
	Hartley and crystal oscillators	PPT/BB	1	25
	Square wave and pulse Generators	PPT/BB	1	26
	Triangular wave-shape generator	PPT/BB	1	27
	Signal and function generators	BB	2	29
	Q meter	PPT	1	30
	Electronic Counters	PPT	2	32
	VIRTUAL INSTRUMENTATION			
IV	VI - Definition, flexibility	PPT	1	33
	Block Diagram of VI	PPT	1	34
	architecture of virtual instruments	PPT	1	35
	Virtual instruments versus traditional instruments	PPT	1	36
	Software in virtual instrumentation	PPT	1	37
	VI programming techniques	PPT	1	38
	DAQ cards for VI applications	PPT	2	40
	DAQ modules with serial communication	PPT	1	41
	TELEMETRY			
V	General telemetry system	BB	1	42
	Voltage, current and position telemetry systems	PPT	3	45
	Radio frequency telemetry	PPT	1	46
	Frequency modulation	BB	1	47
	Pulse-amplitude modulation	BB	1	48
	Pulse-code modulation telemetry	PPT	2	50
	Frequency and time multiplexing	PPT	2	52

BB –Black board *teaching, PPT- Power* point presentation

COURSE OUTCOMES:

1. Ability to understand and analyze Instrumentation systems and their applications to various industries

TEXT BOOKS:

1. A.D. Helfrick and W.D. Cooper, Modern Electronic Instrumentation and Measurement Techniques, Prentice Hall India Private Ltd., New Delhi, 2010
2. David A Bell, "Electronic Instrumentation and Measurements", Ox for University Press, 2013
3. Jerome J., Virtual Instrumentation using Lab VIEW, Prentice Hall India Private Ltd., New Delhi,2010.

REFERENCES:

1. H.S. Kalsi, Electronic Instrumentation, Tata McGraw-Hill, New Delhi, 2010.
2. J.J. Carr, Elements of Electronic Instrumentation and Measurement, Pearson Education India, New Delhi, 2011
3. M.M.S. Anand, Electronics Instruments and Instrumentation Technology, Prentice Hall India, New Delhi, 2009.
4. Sanjay Gupta, Virtual Instrumentation using Lab view, Tata McGraw-Hill Education, 2010

SIGNATURE OF STAFF

SIGNATURE OF HEAD OF THE DEPARTMENT

LESSON PLAN

ODD SEM (2022-2023)

TITLE OF THE SUBJECT:	EI8075	Fibre Optics and Laser Instruments

SEMESTER :	VII	BRANCH:	ICE		REGULATION:	R-2017 AUC

NAME OF STAFF:	P.ARAVIND	ASSISTANT PROFESSOR	ICE

COURSE OBJECTIVES:

1. To expose the students to the basic concepts of optical fibres and their properties.
2. To provide adequate knowledge about the Industrial applications of optical fibres.
3. To expose the students to the Laser fundamentals.
4. To provide adequate knowledge about Industrial application of lasers.
5. To provide adequate knowledge about holography and Medical applications of Lasers.

UNIT NO	TOPICS	TEACHING METHOD	NO. OF PERIODS	CUMULATIVE PERIODS
	OPTICAL FIBRES AND THEIR PROPERTIES			
I	Construction of optical fiber cable: Guiding mechanism in	BB	1	01
	optical fiber communication, – Principles of light propagation through a fibre	BB	1	02
	Total internal reflection, Acceptance angle (θa), Numerical aperture and Skew mode,	BB	1	03
	Different types of fibres and their properties	BB	3	04
	fibre characteristics: Mechanical characteristics and Transmission characteristics	BB	2	06
	Absorption losses – Scattering losses	BB	1	09
	Dispersion – Connectors and splicers	BB	2	11
	Fibre termination	BB/VL	2	13
	Optical sources: Light Emitting Diode (LED)	BB	2	15
	Optical detectors: PIN Diode	BB	2	17
	Revision	BB/PPT	1	18
	INDUSTRIAL APPLICATION OF OPTICAL FIBRES			
II	Fibre optic sensors: Types of fiber optics sensor	BB	1	19
	Fibre optic instrumentation system	BB	1	20
	End reflection method and Near field scanning techniques	BB	1	21
	Different types of modulators	BB	2	23
	Measurement of pressure, temperature, current, voltage, liquid level and strain.	BB	2	25
	Revision	BB/VL	2	27
	LASER FUNDAMENTALS			
III	Fundamental characteristics of lasers	BB	1	28
	Properties of laser	BB	1	29
	Laser modes	BB	1	30
	Types of lasers: Gas lasers	BB/VL	1	31
	solid lasers	BB	1	32
	liquid lasers and semiconductor lasers	BB	1	33
	Revision	BB/PPT	2	35
	INDUSTRIAL APPLICATION OF LASERS			
IV	Laser for measurement of distance, length, velocity,	BB	1	36
	Laser for measurement of Atmospheric Effect	BB	1	37
	Types of LIDAR:	BB	2	39

LESSON PLAN

	Material processing: Laser instrumentation for material processing	BB	1	40
	Process Of Laser Trimming, types of trim	BB/VL	2	42
	Material Removal and vaporization Process	BB	2	44
	Revision	BB/PPT	1	45
	HOLOGRAM AND MEDICAL APPLICATIONS			
V	Holography: Basic Principle, Holography vs. photography	BB	1	48
	Hologram, Reconstructing and viewing the holographic, Holography for non-destructive testing	BB	1	52
	Holographic components	BB	1	55
	Medical applications of lasers	BB	1	58
	Types of Interactions and Selecting an Interaction Mechanism	BB	2	60
	Laser instruments for surgery applications	BB	1	62
	removal of tumors of vocal cards, brain surgery, plastic surgery, gynaecology and oncology.	BB/VL	2	64
	Revision	BB/PPT	2	65

BB, PPT- Power point presentation, VL-Video Lecture

TEXT BOOKS:

1. J.M. Senior, 'Optical Fibre Communication – Principles and Practice', Prentice Hall of India,1985.
2. J. Wilson and J.F.B. Hawkes, 'Introduction to Opto Electronics', Prentice Hall of India, 2001.
3. Eric Udd, William B., and Spillman, Jr., "Fiber Optic Sensors: An Introduction for Engineers andScientists ", John Wiley & Sons, 2011.

REFERENCES:

1. G. Keiser, 'Optical Fibre Communication', McGraw Hill, 1995.
2. M. Arumugam, 'Optical Fibre Communication and Sensors', Anuradha Agencies, 2002.
3. John F. Ready, "Industrial Applications of Lasers", Academic Press, Digitized in 2008.
4. Monte Ross, 'Laser Applications', McGraw Hill, 1968.
5. John and Harry, "Industrial lasers and their application", McGraw-Hill, 2002.
6. Keiser, G., "Optical Fiber Communication", McGraw-Hill, 3rd Edition, 2000.

http://nptel.ac.in/courses/117101002/

COURSE OUTCOMES:

1. Understand the principle, transmission, dispersion and attenuation characteristics of optical fibers
2. Acquire knowledge on the concepts of waves and optical devices and their applications in fibre optics
3. Apply the gained knowledge on optical fibers for its use as communication medium.
4. Gained knowledge optical fibre as a sensor which have important applications in production, manufacturing industrial and biomedical applications.
5. Understand laser theory and laser generation system.
6. Students will gain ability to apply laser theory for the selection of lasers for a specific Industrial and medical application.

SIGNATURE OF STAFF

SIGNATURE OF HEAD OF THE DEPARTMENT

Saranathan College of Engineering

Tiruchirapalli

Assignment		Date/ Session	03-09-22/AN	Marks	20
Course code	EI3354	Course Title	LINEAR INTEGRATED CIRCUITS AND APPLICATIONS		
Batch No.		Duration	45 mins	Academic Year	2022-2023
Year	II	Semester/ Section	III/A	Department	ICE

Part – A

(Answer all the questions 5 x 2 = 10 marks)

Q. No.	Questions
1	Define Monolithic Fabrication Process?
2	Mention any two different between LIC & DIC's
3	Explain briefly the process of epitaxial growth?
4	Mention the compounds that are used for n-type & p-type impurities?
5	Name the compound that is used for removing Aluminium coating after materialization

Staff in-charge: R. Seetharaman-AP/ICE

SARANATHAN COLLEGE OF ENGINEERING

VENKATESHWARA NAGAR, PANJAPUR, TIRUCHIRAPPALLI- 620012
(AFFILIATED TO ANNA UNIVERSITY, CHENNAI)

DEPARTMENT OF INSTRUMENTATION AND CONTROL ENGINEERING

ASSIGNMENT

NAME : N. Anjali

BATCH NO. : 245001

COURSE CODE : IC3451

COURSE TITLE : Automatic control Theory

YEAR /SEMESTER : III / V

CONTENT (6)	SUBMISSION OF ASSIGNMENT (2)	PRESENTATION (2)	TOTAL (10)
6	2	2	10

A. A 18/3/23

STAFF SIGNATURE

SARANATHAN COLLEGE OF ENGINEERING

VENKATESHWARA NAGAR, PANJAPUR, TIRUCHIRAPPALLI- 620012
(AFFILIATED TO ANNA UNIVERSITY, CHENNAI)

DEPARTMENT OF INSTRUMENTATION AND CONTROL ENGINEERING

TUTORIAL

NAME : N.R.kaavya

BATCH NO. : 245005

COURSE CODE : IC3451

COURSE TITLE : Automatic control Theory

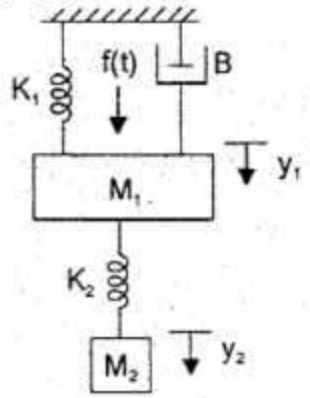
YEAR /SEMESTER : III/V

SUBMISSION OF TUTORIAL TASK (5)	PROBLEM SOLVING METHODOLOGY (5)	TOTAL (10)
5	5	10

A. R
20/4/23
STAFF SIGNATURE

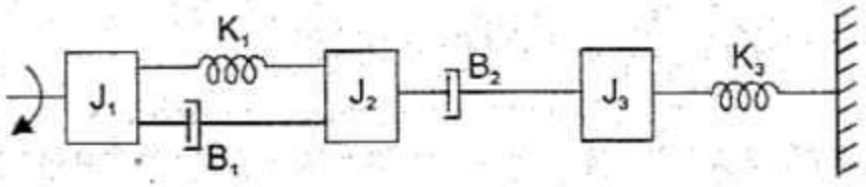
	SARANATHAN COLLEGE OF ENGINEERING TRICHY – 620012				
ACADEMIC YEAR: 2022-2023		TUTORIAL – 1		Date of Submission: 12.02.2023	
TITLE OF THE SUBJECT:		IC3451	AUTOMATIC CONTROL SYSTEMS		
SEMESTER :	IV	BRANCH:	ICE	REGULATION:	R-2021 AUC

1. Determine the transfer function $Y_2(s)/F(s)$ of the system shown in Figure.



	SARANATHAN COLLEGE OF ENGINEERING TRICHY – 620012				
ACADEMIC YEAR: 2022-2023		TUTORIAL – 2		Date of Submission: 27.02.2023	
TITLE OF THE SUBJECT:		IC3451	AUTOMATIC CONTROL SYSTEMS		
SEMESTER :	IV	BRANCH:	ICE	REGULATION:	R-2021 AUC

1. Write the differential equations governing the mechanical rotational system shown in figure. Draw the torque-voltage and torque-current analogous circuits and verify by writing mesh and node equations.



	SARANATHAN COLLEGE OF ENGINEERING TRICHY – 620012				
ACADEMIC YEAR: 2022-2023		ASSIGNMENT – 1		Date of Submission: 13.03.2023	
TITLE OF THE SUBJECT:		IC3451	AUTOMATIC CONTROL SYSTEMS		
SEMESTER :	IV	BRANCH:	ICE	REGULATION:	R-2021 AUC

1. A unity feedback control system has a open loop transfer function is $G(s) = 10/s(s+2)$. Determine time domain specifications.

COURSE LOG

Branch :

Subject :

Date	Day Order	Period	Particulars of Portions Covered	Remarks
26/8/22	V	6,7,8	Introduction.	
27/8/22	V	6,7,8	Characteristics of Semiconductor Diode	
9/9/22	V	6,7,8	Characteristics of zener diode and Zener as Series Voltage Regulator	
16/9/22	V	6,7,8	Single phase half wave and Full wave rectifiers with Capacitive filters	
23/9/22	V	6,7,8	Characteristics of BJT under Common Emitter and Common Base Configuration	
30/09/2022	V	6,7,8	Design & testing of common Emitter amplifier.	
07/10/2022	V	6,7,8	Design & testing of common source amplifier.	
14/10/2022	V	6,7,8	Differential amplifier using FET.	
28/10/2022	V	6,7,8	Design & testing of RC Phase Shift oscillators.	
18/11/2022	V	6,7,8	Design & testing of LC Phase Shift oscillators.	
25/11/2022	V	6,7,8	Design & testing of feedback amplifiers (series)	
02/11/2022	V	6,7,8	simulation of rectifier circuits using matlab.	

ATTENDANCE PARTICULARS

SERIAL Batch NUMBER		Date	26/8	27/8	9/9	16/09	23/09	30/9	07/10	14/10	28/10	18/11	25/11	02/11
		Day Order	V	V	V	V	V	V	II	II	V	V	V	V
		Period	6,7,8	6,7,8	6,7,8	6,7,8	6,7,8	6,7,8	6,7,8	6,7,8	6,7,8	6,7,8	6,7,8	6,7,8
		Batch No.	1	1	1	1	1	1	1	1	1	1	1	1
1	245001	Anjali N.	/	/	/	/	/	/	/	/	/	/	/	/
2	245002	Deepthi	/	/	/	/	/	/	/	/	/	/	/	/
3	245004	Jeevananth	/	/	/	/	/	/	/	/	/	/	/	/
4	245005	kaavya	/	/	/	/	/	A	/	/	/	/	/	/
5	245006	karthick	/	/	/	/	A	/	A	/	/	/	A	A
6	245007	Kesavan	A	/	/	/	/	A	A	/	/	/	A	/
7	245008	Kowshik	/	/	/	A	/	/	A	/	/	/	/	/
8	245009	Lawrance	/	/	/	/	/	/	/	/	/	/	/	/
9	245010	Mathangini	/	/	/	/	/	/	/	/	/	/	/	/
10	245011	Md. Sharaf	/	/	/	/	/	/	/	/	/	/	/	A
11.	245012	Md. Abdullah	/	/	/	/	/	/	/	/	/	/	/	/
12.	245013	Murshath basha	/	/	/	/	/	/	/	/	/	/	/	/
13.	245014	Prasanna	/	/	/	/	/	/	/	/	/	/	/	/
14	245015	Praveena	/		A	A	/	/	/	/	/	/	/	/
15.	245016	Sachin	/	/	/	/	/	/	/	/	/	/	/	/
16.	245017	Thirumalai	/	/	/	/	/	/	/	/	/	/	/	/
17.	245018	Shujath	/	/	/	/	/	/	/	/	/	/	/	/
18.	245019	Farkhan	/	/	/	/	/	/	/	/	/	/	/	/
19.	245020	Logesh A				/	/	/	A	/	/	/	/	/

COURSE LOG

Branch: ICE

Subject: EE3271 – Electric circuits laboratory.

Date	Day Order	Period	Particulars of Portions Covered	Remarks
15/5/23	I	6,7,8	Intro- Lab	–
22/5/23	I	6,7,8	KVL, KCL.	–
29/5/23	I	6,7,8	Thevenin Theorem	–
29/5/23	I	6,7,8	Norton's Theorem	–
5/6/23	I	6,7,8	Superposition Theorem	–
12/6/23	I	6,7,8	" & MP Theorem	–
19/6/23	I	6,7,8	Simulation of KVL, KCL	–
26/6/23	I	6,7,8	Simulation of Thv Norton, Superposition	–
3/7/23	I	6,7,8	Simulation of RL, RC Series, Resonance	–
10/7/23	I	6,7,8	RC, RL. Circuits, MP theorem.	–
17/7/23	I	6,7,8	RLC Circuits, MP Theorem (mesh).	–
24/7/23	I	6,7,8	RLC, circuits,	–
31/7/23	I	6,7,8	Series & Parallel Resonance circuits	–
7/8/23	I	6,7,8	Model Lab Exam –	–

ATTENDANCE PARTICULARS

SERIAL NUMBER	Date	15/5	22/5	27/5	29/5	5/6	12/6	19/6	26/6	3/7	10/7	17/7	24/7	31/7	7/8
	Day Order	I	I	I	I	I	I	I	I	I	I	I	I	I	I
	Period	6,7,8	6,7,8	6,7,8	6,7,8	6,7,8	6,7,8	6,7,8	6,7,8	6,7,8	6,7,8	6,7,8	6,7,8	6,7,8	6,7,8
	Batch No.														
1	255001	/	/	/	/	a	/	/	/	/	/	a	/	a	/
2	2	/	/	/	/	/	a	/	/	/	a	/	/	/	/
3	3	/	/	/	/	/	/	/	/	/	/	/	/	/	/
4	4	/	/	/	/	/	/	/	/	/	/	/	/	/	/
5	5	/	/	a	/	/	/	/	/	/	/	/	/	/	/
6	6	/	/	/	/	/	/	/	/	/	/	/	/	/	/
7	7	/	/	/	/	/	/	/	/	/	/	/	/	/	/
8	8	/	/	/	/	/	/	/	/	/	/	/	/	/	/
9	9	/	/	/	/	/	/	a	/	/	/	/	/	/	a
10	10	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11	11	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12	12	/	/	/	/	/	/	/	/	/	/	/	/	/	/
13	13	/	/	/	/	/	/	/	/	/	/	/	/	/	/
14	14	/	/	/	a	/	/	/	/	/	/	/	/	/	/
15	15	/	/	/	/	/	/	/	/	/	/	/	/	/	/
16	16	/	/	/	/	/	/	/	/	/	/	/	/	/	/
17	17	a	/	/	/	/	/	/	/	/	/	/	/	/	/
18	18	/	/	/	/	/	/	/	/	/	/	/	/	/	/
19	19	/	/	/	/	/	/	/	/	/	/	/	/	/	a
20	20	/	/	/	/	a	/	/	/	/	/	/	/	/	/
21	21	/	/	/	/	/	/	/	a	a	a	/	a	a	/
22	22	/	/	/	/	/	/	/	/	/	/	/	/	/	/
23	23	/	/	/	/	a	/	a	/	/	/	/	/	/	/
24	24	/	/	/	a	/	/	/	/	/	a	/	/	/	/
25	25	/	/	/	/	/	/	/	/	/	/	/	/	/	/

Date : 30/5/23

Ref : SCE/Syllabus/ Theory/2022-23 – Even Sem/

STATEMENT FOR SYLLABUS COMPLETION

I have handled the subject MEMS and Nano Science, code EE8072 for III Year, VI Semester, department of ICE B.E/~~B.Tech~~/~~MBA~~ during the academic year 2022 – 23, Even semester.

In this regard, I confirm, that I have taught all the topics mentioned in the syllabus, and took lectures for 45 Periods, revised syllabus for 5 Periods and discussed the Anna University Examination question papers of the last 3 years.

Signature : M Shanmugavalli

Name : M SHANMUGAVALLI

Designation : Professor

Department : ICE

Date : 30/5/'23

Signature of HoD :

Principal :

SARANATHAN COLLEGE OF ENGINEERING

Venkateshwara Nagar, Panjappur, Tiruchirapalli - 620 012, Tamil Nadu, India.

Date : 30/5/23

Ref : SCE/Syllabus/ Theory/2022-23 – Even Sem/

STATEMENT FOR SYLLABUS COMPLETION

I have handled the subject Advanced Control System, code IC8651 for III Year, VI Semester, department of ICE B.E/~~B.Tech/MBA~~ during the academic year 2022 – 23, Even semester.

In this regard, I confirm, that I have taught all the topics mentioned in the syllabus, and took lectures for 70 Periods, revised syllabus for 5 Periods and discussed the Anna University Examination question papers of the last 5 years.

Signature : M Shanmugavalli

Name : M SHANMUGAVALLI

Designation : Professor

Department : ICE

Date : 30/5/'23

Signature of HoD :

Principal :

SARANATHAN COLLEGE OF ENGINEERING

Venkateshwara Nagar, Panjappur, Tiruchirapalli - 620 012, Tamil Nadu, India.

Date : 30/5/23

Ref : SCE/Syllabus/ Theory/2022-23 – Even Sem/

STATEMENT FOR SYLLABUS COMPLETION

I have handled the subject Industrial Instrumentation, code EI3451 for II Year, IV Semester, department of ICE B.E/~~B.Tech/MBA~~ during the academic year 2022 – 23, Even semester.

In this regard, I confirm, that I have taught all the topics mentioned in the syllabus, and took lectures for 50 Periods, revised syllabus for 5 Periods and discussed the Anna University Examination question papers of the last 3 years.

Signature : M Shanmugavalli

Name : M. SHANMUGAVALLI

Designation : Professor

Department : ICE

Date : 30/5/2023

Signature of HoD :

Principal :

SARANATHAN COLLEGE OF ENGINEERING

Venkateshwara Nagar, Panjappur, Tiruchirapalli - 620 012, Tamil Nadu, India.

Date : 30/5/23

Ref : SCE/Syllabus/ Theory/2022-23 – Even Sem/

STATEMENT FOR SYLLABUS COMPLETION

I have handled the subject Fundamentals of Nano Science, code GE8073 for IV Year, VIII Semester, department of ICE B.E/~~B.Tech/MBA~~ during the academic year 2022 – 23, Even semester.

In this regard, I confirm, that I have taught all the topics mentioned in the syllabus, and took lectures for 45 Periods, revised syllabus for 3 Periods and discussed the Anna University Examination question papers of the last 3 years.

Signature : M Shanmugavalli

Name : M. SHANMUGAVALLI

Designation : Professor

Department : ICE

Date : 30/5/23

Signature of HoD :

Principal :

SARANATHAN COLLEGE OF ENGINEERING

Venkateshwara Nagar, Panjappur, Tiruchirapalli - 620 012, Tamil Nadu, India.

Date : 30-05-2023

Ref : SCE/Syllabus/ Theory/2022-23 – Even Sem/

STATEMENT FOR SYLLABUS COMPLETION

I have handled the subject LOGIC & DISTRIBUTED CONTROL SYSTEM code EI8651 for III Year, VI Semester, department of ICE B.E/B.Tech/MBA during the academic year 2022 – 23, Even semester.

In this regard, I confirm, that I have taught all the topics mentioned in the syllabus, and took lectures for 52 Periods, revised syllabus for 4 Periods and discussed the Anna University Examination question papers of the last 4 years.

Signature :

Name : R.SEETHARAMAN

Designation : ASSISTANT PROFESSOR

Department : INSTRUMENTATION AND CONTROL ENGINEERING

Date : 30-05-2023

Signature of HoD :

Principal :

SARANATHAN COLLEGE OF ENGINEERING

Venkateshwara Nagar, Panjappur, Tiruchirapalli - 620 012, Tamil Nadu, India.

Date : 30-05-2023

Ref : SCE/Syllabus/ Theory/2022-23 – Even Sem/

STATEMENT FOR SYLLABUS COMPLETION

I have handled the subject MODERN ELECTRONIC INSTRUMENTATION code IC3401 for II Year, IV Semester, department of ICE B.E/B.Tech/MBA during the academic year 2022 – 23, Even semester.

In this regard, I confirm, that I have taught all the topics mentioned in the syllabus, and took lectures for 54 Periods, revised syllabus for 4 Periods and discussed the Anna University Examination question papers of the last 3 years.

Signature :

Name : R.SEETHARAMAN

Designation : ASSISTANT PROFESSOR

Department : INSTRUMENTATION AND CONTROL ENGINEERING

Date : 30-05-2023

Signature of HoD :

Principal :

SARANATHAN COLLEGE OF ENGINEERING

Venkateshwara Nagar, Panjappur, Tiruchirapalli - 620 012, Tamil Nadu, India.

Date : 29/05/23.

Ref : SCE/Syllabus/ Theory/2022-23 – Even Sem/

STATEMENT FOR SYLLABUS COMPLETION

I have handled the subject PRINCIPLES OF MANAGEMENT, code HG8591 for Third Year, VI Semester, department of ICE B.E/~~B.Tech/MBA~~ during the academic year 2022 – 23, Even semester.

In this regard, I confirm, that I have taught all the topics mentioned in the syllabus, and took lectures for 46 Periods, revised syllabus for 4 Periods and discussed the Anna University Examination question papers of the last 3 years.

Signature :

Name : Dr. S.M. SURI RAJKUMAR.

Designation : PROFESSOR

Department : ICE

Date : 29/05/23.

Signature of HoD :

Principal :

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPALLI - 620 012.

Date: 27/5/2023

Ref : SCE/Syllabus/ Theory/2022-23 – Even Sem/

STATEMENT FOR SYLLABUS COMPLETION

I have handled the subject Thermal Power plant Instrumentation code EI5092 for III year, VI th semester, department of ICE B.E during the academic year 2022 – 23, Even semester.

In this regard, I confirm, that I have taught all the topics mentioned in the syllabus, and took lectures for 52 periods, revised syllabus for 5 periods and discussed the Anna University Examination question papers of the last 4 years.

Signature : A. Gopikri

Name : A. GOPIKRISHNAN

Designation : AP

Department : ICE

Date : 27/5/2023

Signature of HoD :

Principal :

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPALLI - 620 012.

Date: 27/5/2023

Ref : SCE/Syllabus/ Theory/2022-23 – Even Sem/

STATEMENT FOR SYLLABUS COMPLETION

I have handled the subject Automatic Control Systems, code IC3451 for II year, IV^th semester, department of ICE B.E during the academic year 2022 – 23, Even semester.

In this regard, I confirm, that I have taught all the topics mentioned in the syllabus, and took lectures for 96 periods, revised syllabus for 5 periods and discussed the Anna University Examination question papers of the last 5 years.

Signature : A. Gopikl

Name : A. GOPIKRISHNAN

Designation : AP

Department : ICE

Date : 27/5/23

Signature of HoD :

Principal :

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPALLI - 620 012.

Date: 27/5/2022

Ref : SCE/Syllabus/Laboratory/2022-23-Even Sem/ EI8661 - PE Lab

STATEMENT FOR LABORATORY EXPERIMENT COMPLETION

I hereby affirm that all the experiments listed in the next page, have been actually performed by the students as part of the prescribed course work by Anna University (mention details). In cases where the experiments could not be conducted, the same has been listed separately with reasons.

I confirm that the experiments were done by me in the beginning of this semester, and the readings were recorded.

I confirm that the students submitted the laboratory record of the experiments performed by them, and that I have also corrected them every week and awarded appropriate marks. I also confirm that the completed laboratory record was submitted by each student.

Signature	: A. Gopi	Signature	: K. Sathy
Name	: A. GOPIKRISHNAN	Name	: K. SAMYATHRY
Designation	: AP	Designation	: AP
Department	: ICE		

Signature of HoD :

Principal :

Note: List of the students who have not got bonafide, if any, to be enclosed. -N/A-

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPALLI - 620 012.

Date: 27/5/2023

Ref : SCE/Syllabus/Laboratory/2022-23-Even Sem/ E13462 Sensors Lab.

STATEMENT FOR LABORATORY EXPERIMENT COMPLETION

I hereby affirm that all the experiments listed in the next page, have been actually performed by the students as part of the prescribed course work by Anna University (mention details). In cases where the experiments could not be conducted, the same has been listed separately with reasons.

I confirm that the experiments were done by me in the beginning of this semester, and the readings were recorded.

I confirm that the students submitted the laboratory record of the experiments performed by them, and that I have also corrected them every week and awarded appropriate marks. I also confirm that the completed laboratory record was submitted by each student.

Signature	: A. Gopikri	Signature	: K. Sathy
Name	: A. GOPIKRISHNAN	Name	: K. GAAYATHRY
Designation	: AP	Designation	: AP
Department	: ICE		

Signature of HoD :

Principal :

Note: List of the students who have not got bonafide, if any, to be enclosed.

SARANATHAN COLLEGE OF ENGINEERING

Venkateshwara Nagar, Panjappur, Tiruchirapalli - 620 012, Tamil Nadu, India.

Date : 30/05/23

Ref: SCE/Syllabus/Laboratory/2022-23 – Even Sem/

STATEMENT FORLABORATORY EXPERIMENTCOMPLETION

I hereby affirm that all the experiments listed in the next page, have been actually performed by the students as part of the prescribed course work by Anna University (mention details). In cases where the experiments could not be conducted, the same has been listed separately with reasons.

I confirm that the experiments were done by me in the beginning of this semester, and the readings were recorded.

I confirm that the students submitted the laboratory record of the experiments performed by them, and that I have also corrected them every week and awarded appropriate marks. I also confirm that the completed laboratory record was submitted by each student.

Signature	:	Signature	:
Name	: Dr. K. GAYATHRY	Name	: R. SEETHARAMAN
Designation	: ASSISTANT PROFESSOR	Designation	: ASSISTANT PROFESSOR
Department	: ICE		

Signature of HoD :

Principal :

Note: List of the students who have not got bonafide, if any, to be enclosed.

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPALLI - 620 012.

Date: 2/12/22

Ref : SCE/Syllabus/ Theory/2022-23 – Odd Sem/~~Even Sem~~

STATEMENT FOR SYLLABUS COMPLETION

I have handled the subject Industrial Data Network, code EI8751 for IV year, VII semester, department of ICE B.E/B.Tech/MBA during the academic year 2022 – 23 Odd semester.

In this regard, I confirm, that I have taught all the topics mentioned in the syllabus, and took lectures for 55 periods, revised syllabus for 5 periods and discussed the Anna University Examination question papers of the last 4 years.

Signature : M Shanmugavalli

Name : M. SHANMUGAVALLI

Designation : Professor

Department : ICE

Date : 2/12/22

Signature of HoD :

Principal :

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPALLI - 620 012.

Date: 2/12/22

Ref : SCE/Syllabus/ Theory/2022-23 – Odd Sem/Even Sem

STATEMENT FOR SYLLABUS COMPLETION

I have handled the subject Air Pollution & Control Engineering code DCE551 for III year, V semester, department of ICE B.E/~~B.Tech/MBA~~ during the academic year 2022 – 23 Odd semester.

In this regard, I confirm, that I have taught all the topics mentioned in the syllabus, and took lectures for 58 periods, revised syllabus for 7 periods and discussed the Anna University Examination question papers of the last 5 years.

Signature : K. Gayathry

Name : Dr. K. Gayathry

Designation : Assistant Professor

Department : ICE

Date : 2/12/22

Signature of HoD : egsi

Principal : dh

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPALLI - 620 012.

Date: 2/12/22

Ref : SCE/Syllabus/Laboratory/2022-2023-Odd Sem / Even Sem

STATEMENT FOR LABORATORY EXPERIMENT COMPLETION

I hereby affirm that all the experiments listed in the next page, have been actually performed by the students as part of the prescribed course work by Anna University (mention details). In cases where the experiments could not be conducted, the same has been listed separately with reasons.

I confirm that the experiments were done by me in the beginning of this semester, and the readings were recorded.

I confirm that the students submitted the laboratory record of the experiments performed by them, and that I have also corrected them every week and awarded appropriate marks. I also confirm that the completed laboratory record was submitted by each student.

Signature	:	Signature	:
Name	: Dr. K. Gayathry	Name	: S. Prasanna Perumal.
Designation	: AP	Designation	: AP / ICE.
Department	: ICE		

Signature of HoD :

Principal :

Note: List of the students who have not got bonafide, if any, to be enclosed.

Saranathan College of Engineering

QAC - Audit Report

Academic Year : 2022-2023

Sem: ODD/ EVEN

Dept: ICE

Year/ Sem/Sec	IIIrd y / VI																			
Subject Code	Name of faculty		Test I					Test II					Test III							
			No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %			
EI 8651.	Mr. R. Seetharaman.	IA Test	28	28	0	16	57	28	27	1	12	54	28	28	0	16	43.			
		Make up Test	6	6	0	3	50.	12	11	9	9	25								
		Remarks	Not prepared well.					Students not prepared well					Students didn't perform well in part A							
IC 8651.	Dr. M. Shanmuga Valli.	IA Test	28	28	0	12	57	28	24	1	5	82.	28	28	0	17	39.			
		Make up Test	12	12	0	1	90.	5	5	0	3.	60.	-							
		Remarks	Students didn't concentrate on problems					-					8 students didn't perform well due to vast portion							
MG 8591 [E]	Dr. S.M Giri Rajkumar.	IA Test	28	28	0	6	79	28	28	0	7	75.	28	26	2	5	82.			
		Make up Test	6	6	0	1	83	7	7	0	3	57								
		Remarks	-					-					-							
Signature of QAC members with name			M. Hafeeth Dr. M. MARIMUTHU.					M. Hafeeth Dr. M. MARIMUTHU					M. Hafeeth Dr. M. MARIMUTHU							
Signature of HOD			Signed					Signed					Signed							
QAC In-Charge			S.A. Arth.					S.A. Arth.					S.A. Arth.							
IQAC Co-ordinator			Signed					Signed					Signed							
Principal																				

Saranathan College of Engineering

QAC - Audit Report

Academic Year : 2022-2023

Year/ Sem/Sec	IIIrd Year / VI													Sem: ODD/ EVEN ✓				
														Dept	ICE			
Subject Code	Name of faculty		Test I					Test II						Test III				
			No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %		No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %
CS 8391.	Mr. V. Senthil Balaji	IA Test	28	28	0	4	86.	28	28	0	1	96.		28	28	0	0	100.
		Make up Test	4	4	0	0	100.	1	1	0	1	0						
		Remarks	-					-						-				
EE 8012	Dr. M Shanmugavelu	IA Test	28	28	0	0	100.	28	28	0	2	93.		28	26	2	11	61.
		Make up Test						2	2	0	2	0						
		Remarks	-					-						-				
EI 8092	Dr. A. Gopikrishnan	IA Test	28	28	0	6	79.	28	28	0	2	93		28	27	1	16	43.
		Make up Test	6	6	0	2	66.	2	2	0	2	0.						
		Remarks	-					-						Students did not perform well in Part A.				
Signature of QAC members with name			M. Mariamuthu Dr. M. MARIMUTHU.					M. Mariamuthu Dr. M. MARIMUTHU						M. Mariamuthu Dr. M. MARIMUTHU				
Signature of HOD			Signed					Signed						Signed				
QAC In-Charge			S.A. Arul					S.A. Arul						S.A. Arul				
IQAC Co-ordinator																		
Principal																		

Saranathan College of Engineering

QAC - Audit Report

Academic Year : 2022-2023

Sem: ODD/ EVEN

Year/ Sem/Sec	II Y / IV																				
			Dept					ICE													
			Test I					Test II					Test III								
Subject Code	Name of faculty		No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %				
EI 3451	Dr. M. Shanmugavelu	IA Test	19	18	1	01	95	19	18	1	1	95	19	18	1	5	74.				
		Make up Test	1		1	1	0	19	18	1	3										
		Remarks	–					–					–								
GE 3451	Dr. G. Thakur.	IA Test	19	18	1	9	53.	19	18	1	3	84.	19	18	1	16	16.				
		Make up Test	10	9	1	2	70.	3		1	3	0									
		Remarks	students didnt write part B well					–					students didnt perform PART A questions well								
IC 3401	Mr. R. Seetharaman.	IA Test	19	18	1	3	84.	19	18	1	6	68.	19	18	1	5	74.				
		Make up Test	~~13~~	2	1	1	52.	6	5	1	2	66.									
		Remarks	–					–					–								
Signature of QAC members with name			H. Hafeeth Dr. M. MARIMUTHU.					H. Hafeeth Dr. M. MARIMUTHU.					H. Hafeeth Dr. M. MARIMUTHU.								
Signature of HOD																					
QAC In-Charge			S.A					S.A					S.A								
IQAC Co-ordinator																					
Principal																					

Saranathan College of Engineering

QAC - Audit Report

Academic Year : 2022-2023

Sem: ODD/ EVEN

Dept: ICE

Year/ Sem/Sec	II / IV		Test I					Test II					Test III				
Subject Code	Name of faculty		No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %
IC 3402	MS. B. Divya.	IA Test	19	18	1	6	68	19	17	2	12	37	19	14	5	8	58
		Make up Test	6	5	1	2	66	12	10	2	4	60.					
		Remarks	—					students didn't perform well in part A					More no. of absentees for the test.				
IC 3451.	Dr. A. Gopikrishnan.	IA Test	19	18	1	6	68	19	18	1	4	79	19	16.	3	6	58
		Make up Test	6	5	1	2	66	4	2	2	4	0.					
		Remarks	-					-					Student did not prepare well for the exam				
IC 3452.	Mr. R. Baksubramanian.	IA Test	19	18	1	3	84	19	18	1	2	89.	19	18	1	1	95
		Make up Test	3	2	1	1	66.	2	1	1	2	0.					
		Remarks	-					-					-				
Signature of QAC members with name			M. Hafeeth Dr. M. MAKIMUTHU.					M. Hafeeth Dr. M. MAKIMUTHU.					M. Hafeeth Dr. M. MAKIMUTHU				
Signature of HOD																	
QAC In-Charge			S.A.					S.A.					S.A.				
IQAC Co-ordinator																	
Principal																	

SARANATHAN COLLEGE OF ENGINEERING
TIRUCHIRAPPALLI – 12
QAC – QUALITY ASSESSMENT CELL
ACADEMIC YEAR: 2022 - 2023 EVEN SEMESTER

NAME OF THE DEPARTMENT	ICE	DETAILS OF EXAMINATION	IA TEST : 1	Makeup Test : 1

Sl.No	Subject Code	List of Batch Nos Verified	Subject Log book Verified [Y/N]	Assignments Verified [Y/N]	Remarks
YEAR/SEM/SEC :		IInd year / IV SEM.			
		IA Test	Makeup Test		
1	IC 3451	245001, 5004, 5005	245009, 245014	Y	Y	—
2	GE 3451	245006, 15, 05	—	Y	—	—
3	IC 3401.	245015, 5009, 19	20, 002	Y	Y	—
4	EI 3451	245012, 11, 02	—	Y	—	—
5	IC 3402	245004, 01, 12	245022, 16	Y	Y	—
6	IC 3452	245017, 14, 16	245011, 002	Y	Y	

VERIFIED BY

1 H.H.H.H.H. Dr. M. MAKESWARI

2

SIGNATURE WITH DATE OF THE QAC MEMBERS

SARANATHAN COLLEGE OF ENGINEERING
TIRUCHIRAPPALLI – 12
QAC – QUALITY ASSESSMENT CELL
ACADEMIC YEAR: 2022 - 2023 EVEN SEMESTER

NAME OF THE DEPARTMENT: ICE

DETAILS OF EXAMINATION: IA TEST : 2 Makeup Test : 2.

YEAR/SEM/SEC : IInd year / IV Sem.

Sl.No	Subject Code	List of Batch Nos Verified			
		IA Test	Makeup Test	Subject Log book Verified [Y/N]	Assignments Verified [Y/N]	Remarks
1	IC 3451.	245002, 245012, 245006.	245011, 245018.	Y	Y	–
2	EE 3451.	245006, 15, 05	245002 16,	Y	Y	–
3	IC3401	245016, 245001. 245017	245005. 009,	Y	Y	–
4	EI 3451	245012, 009, 006	–	Y	Y	–
5	IC 3402	245012, 10, 05	245001. 04	Y	Y	–
6	IC3452	245010, 09, 01	245002.	Y	Y	

VERIFIED BY

1 M. Hafeeth Dr. M. MAKIMOTHU.

2

SIGNATURE WITH DATE OF THE QAC MEMBERS

SARANATHAN COLLEGE OF ENGINEERING
TIRUCHIRAPPALLI – 12
QAC – QUALITY ASSESSMENT CELL
ACADEMIC YEAR: 2022 - 2023 EVEN SEMESTER

NAME OF THE DEPARTMENT	ICE	DETAILS OF EXAMINATION	IA TEST : 2	Makeup Test : —

Sl.No	Subject Code	List of Batch Nos Verified	Subject Log book Verified [Y/N]	Assignments Verified [Y/N]	Remarks
YEAR/SEM/SEC :		IInd Year / IV SEM.			
		IA Test	Makeup Test		
1	IC3451.	245017, 10, 09	—	Y	—	—
2	GE3451	245006, 15, 18	—			
3	IC3401.	245012, 02, 15	—	Y	—	—
4	EI3451	245019, 18, 11.	—	Y	—	—
5	IC3402.	245014, 10, 02	—	Y	—	—
6	IC3452	245001, 2, 04	—	Y	—	—

VERIFIED BY

1 M. Harish Dr. M. MARIMUTHU.

2

SIGNATURE WITH DATE OF THE QAC MEMBERS

SARANATHAN COLLEGE OF ENGINEERING
TIRUCHIRAPPALLI – 12
QAC – QUALITY ASSESSMENT CELL
ACADEMIC YEAR: 2022 - 2023 EVEN SEMESTER

NAME OF THE DEPARTMENT	ICE	DETAILS OF EXAMINATION	IA TEST : 1	Makeup Test : 1

Sl.No	Subject Code	List of Batch Nos Verified			Subject Log book Verified [Y/N]	Assignments Verified [Y/N]	Remarks
YEAR/SEM/SEC :		IIIrd year / VI SEM.					
		IA Test	Makeup Test				
1	EI8092	235022, 5012, 5001.	235019, 235004		Y	Y.	—
2	EI8651.	235011, 23, 12	235006, 008.		Y	Y	—
3	MG8591.	235017, 020, 5008.	235013. 235015		Y	Y	—
4	EE8072	235018, 15, 05	—		Y	—	—
5	IC 8651.	235024, 18, 03	235022, 13.		Y	Y	—
6	CS8391.	235010, 09, 17.	235020 12		Y	Y	—

VERIFIED BY

1 H. Hafeeth Dr M. Mubarakath

2

SIGNATURE WITH DATE OF THE QAC MEMBERS

SARANATHAN COLLEGE OF ENGINEERING
TIRUCHIRAPPALLI – 12
QAC – QUALITY ASSESSMENT CELL
ACADEMIC YEAR: 2022 - 2023 EVEN SEMESTER

NAME OF THE DEPARTMENT	ICE	DETAILS OF EXAMINATION	IA TEST : 2.	Makeup Test : 2.

Sl.No	Subject Code	List of Batch Nos Verified	Subject Log book Verified [Y/N]	Assignments Verified [Y/N]	Remarks
YEAR/SEM/SEC :		IIIrd year / VI SEM.			
		IA Test	Makeup Test		
1	EI8092.	235012, 17, 18.	235006, 50	Y	Y	—
2	EI8651.	235025, 28, 07.	235011, 15	Y	Y	—
3	M 98591.	235019, 009, 007.	235015, 235011	Y	Y	—
4	EE8072	235017, 5012, 5018.	235013, 50120	Y	-	—
5	IC8691.	235019, 15, 04.	235016, 20	Y	Y	—
6	CS8391.	235006, 05, 14	-	Y	Y	—

VERIFIED BY

1 H. Hafeeth Dr. M. MARIMUTHU

2

SIGNATURE WITH DATE OF THE QAC MEMBERS

SARANATHAN COLLEGE OF ENGINEERING
TIRUCHIRAPPALLI – 12
QAC – QUALITY ASSESSMENT CELL
ACADEMIC YEAR: 2022 - 2023 EVEN SEMESTER

NAME OF THE DEPARTMENT	ICE.	DETAILS OF EXAMINATION	IA TEST : 3	Makeup Test : —

Sl.No	Subject Code	List of Batch Nos Verified	Subject Log book Verified [Y/N]	Assignments Verified [Y/N]	Remarks
YEAR/SEM/SEC :		IIIrd Y / VI SEM.			
		IA Test	Makeup Test		
1	EI8092	235001, 18, 25.	—	Y	—	—
2	EI 8651.	235003, 17, 09.	—	Y	—	—
3	MG8591.	235012, 04, 06	—	Y	—	—
4	EE8072.	235012, 18, 22	—	Y	—	—
5	IC8651.	235012, 11, 04	—	Y	—	—
6	CS8391.	235022, 10, 06	—	Y	—	—

VERIFIED BY

1 M. Hafeesath. Dr. M. MAKIMOTHO.

2

SIGNATURE WITH DATE OF THE QAC MEMBERS

Saranathan College of Engineering

QAC - Audit Report

Academic Year :2022-2023 ODD SEMESTER

Sem: ODD

Year/ Sem/Sec	II/III/A		Test I					Test II					Test III (Dept)					Test III (ICE)				
Subject Code	Name of faculty		No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %
MA3353	dinesh-mat	IA Test	19	18	1	3	79	19	19	0	6	68	19	18	1	12.	32%					
		Make up Test	4	4	0	2	50	6	6	-	3	50	-	-	-	-	-					
		Remarks	Required more Concern on the study					Lack of Complete focus and needs more practice.														
EI3351	banusundareswari-ice	IA Test	19	18	1	5	68	19	19	0	9	53	19	19	0	12	37%					
		Make up Test	6	4	2	0	67	9	9	-	1	88	-	-	-	-	-					
		Remarks	—					—					They were not interested in model exam hence they didn't Prepare for the exam.									
EI3352	shanmugavalli-ice	IA Test	19	18	1	1	89	19	19	-	-	100	19	18	1	1	89%					
		Make up Test	2	2	0	0	100.	-	-	-	-	-	-	-	-	-	-					
		Remarks	—					—					-									

EI3353	balasubramanian-eee	IA Test	19	18	0	1	95.	19	19	–	–	100	19	19	0	6	6
		Make up Test	1	1	0	0	100.	–	–	–	–	–	–	–	–	–	–
		Remarks											-				
EI3354	Seetharaman-ice	IA Test	19	17	2	4	68.	19	19	0	3	84	19	19	0	15	21%
		Make up Test	6	4	2	0	68	3	3	–	3	0	–	–	–	–	–
		Remarks											Lack of Seriousness. Need more focus and time management.				
CS3353	banupriya-cse	IA Test	19	17	2	5	63.	19	19	0.	3	84	19	19	0	11	42%
		Make up Test	7	6	1	0	86.	3	3	–	1	66	–	–	–	–	–
		Remarks	—					—					They didn't Study well.				
Signature of QAC members with name			1. H. Hafeeth 2. S. Prasanna Dr. M. MARIMUTHU.					1. H. Hafeeth 2. S. Prasanna Dr. M. Marimuthu					1. H. Hafeeth 2. S. Prasanna Dr. M. MARIMUTHU				
Signature of HOD																	
QAC In-Charge			S.A.					S.A.					S.A.				
IQAC Co-ordinator																	
Principal																	

Saranathan College of Engineering

QAC - Audit Report

Academic Year :2022-2023 ODD SEMESTER

Year/ Sem/Sec	III/V/A		Sem: ODD										Dept	ICE			
			Test I					Test II					Test III				
Subject Code	Name of faculty		No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %
EI8551	Aravind-ice	IA Test	28	27	0	1	96	28	28	–	1	96.	28	27	1	1	93
		Make up Test	1	1	0	0	100.	1	1	0	1	0.	-	-	-	-	-
		Remarks															
EI8552	shanmugavalli-ice	IA Test	28	28	0	0	100	28	28	–	–	100	28	28	0	1	96
		Make up Test	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
		Remarks															
EI8553	Girirajkumar-ice	IA Test	28	28	0	9	68	28	28	0	7	75	28	27	1	6	75
		Make up Test	9	8	1	0	89	7	7	2	5	32.	–	–	–	–	–
		Remarks															

EE8551	Malaisamy-ece	IA Test	28	27	1	8	68	28	28	0	1	96	28	28	0	19	3
		Make up Test	9	9	0	0	100.	1	1	0	0	100	-	-	-	-	-
		Remarks	—					—					Required more concern Orida Subject and structure are needed to recall teachings				
EI8093	mercyvasan-mech	IA Test	28	27	1	8	68	28	28	0	0	100	28	27	1	3	86.
		Make up Test	9	6	3	0	67.	-	-	-	-	-	-	-	-	-	-
		Remarks	—					—									
OCE551	gaayathry-ice	IA Test	28	28	0	0	100.	28	28	0	2	93	28	27	1	6	95%.
		Make up Test	—	—	—	-	—	2	2	0	0	100	-	-	-	-	-
		Remarks	—					—									
Signature of QAC members with name		1. Dr. M. MARIMUTHU 2. S. Prasanna Kumar.						H. Hafeeth Dr. M. Marimuthu 2. S. Prasanna Kumar					1. H. Hafeeth Dr. MARIMUTHU, 2. S. Prasanna Kumar.				
Signature of HOD																	
QAC In-Charge		S.N.A.						S.N.A.					S.N.A.				
IQAC Co-ordinator																	
Principal																	

Saranathan College of Engineering
QAC - Audit Report
Academic Year :2022-2023 ODD SEMESTER

Sem: ODD

Year/ Sem/Sec	IV/VII/A																			
			Test I					Test II					Dept		ICE					
													Test III							
Subject Code	Name of faculty		No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %	No of Students registered	No of students Attended	No of Absentees	No of Failures	Pass %			
EI8751	shanmugavalli-ice	IA Test	44	44	0	2	95	44	44	0	2	95	44	44	0	5	89%			
		Make up Test	2	2	0	0	100	2	2	0	0	100	-	-	-	-	-			
		Remarks																		
EI8091	banusundareswari-ice	IA Test	44	43	1	2	93	44	44	0	5	89	44	42	2	4	86%			
		Make up Test	3	2	1	0	67	5	5	0	0	100	-	-	-	-	-			
		Remarks																		
EC8093	hariprasath-ece	IA Test	44	43	1	4	89	44	44	0	2	95	44	42	2	5	84%			
		Make up Test	5	4	1	1	60	2	2	0	0	100	-	-	-	-	-			
		Remarks																		

EI8075	Aravind-ice	IA Test	44	43	1	1	95	44	44	0	0	100	44	41	3	0	93%
		Make up Test	2	1	1	0	50.	-	-	-	-	-	-	-	-	-	-
		Remarks	—					—									
EI8692	Seetharaman-ice	IA Test	44	44	0	5	89.	44	44	0	2	95	44	42	2	9	75%
		Make up Test	5	5	0	0	100.	2	2	0	0	100	-	-	-	-	-
		Remarks	—					—									
OCS752	senthilbalaji-it	IA Test	44	44	0	6	86.	44	44	0	4	91	44	43	1	4	89%
		Make up Test	6	5	1	0	83.	4	4	0	0	100	-	-	-	-	-
		Remarks	—					—									
GE8076	gaayathry-ice.	IA Test	44	43	1	2	95.	44	44	0	2	95	44	42	2	0	95%
		Make up Test	-	-	-	-	-	2.	2	0	0	100.	-	-	-	-	-
		Remarks	—					—									
Signature of QAC members with name			1. M.Hafeethu 2- S.Prasanna Perumal.					1. M.Hafeethu Dr. M. Mari Muthu. 2- S.Prasanna Perumal.					1. M.Hafeethu 2- S.Prasanna Perumal.				
Signature of HOD																	
QAC In-Charge			S.A.A					S.A.A					S.A.A				
IQAC Co-ordinator																	
Principal																	

SARANATHAN COLLEGE OF ENGINEERING
TIRUCHIRAPPALLI – 12
QAC – QUALITY ASSESSMENT CELL
ACADEMIC YEAR: 2022-2023 ODD SEMESTER

NAME OF THE DEPARTMENT: ICE			DETAILS OF EXAMINATION IA TEST : I Makeup Test : I			
Sl.No	Subject Code	List of Batch Nos Verified	Subject Log book Verified [Y/N]	Assignments Verified [Y/N]	Remarks	
YEAR/SEM/SEC : II/III/A		Second Year.				
		IA Test	Makeup Test			
1	MA8353	245011, 19	245020, 02, 07	y	–	–
2	EI3351	24 5012, 01, 05	245013, 16	y	–	–
3	EI3352	245001, 08, 19	245007, 20	y	–	–
4	EI3353	245005, 12, 17	245007	y	–	–
5	EI3354	245005, 10, 14	24 5013, 06, 02	y	–	–
6	CS3353	245007, 17, 10	24 5002, 04, 16	y	–	–

VERIFIED BY

1 M. Mohamed Sathik Dr-M. MARI MUTHU.

2 S. P. Perumal S. Prasanna Perumal.

SIGNATURE WITH DATE OF THE QAC MEMBERS

SARANATHAN COLLEGE OF ENGINEERING
TIRUCHIRAPPALLI – 12
QAC – QUALITY ASSESSMENT CELL
ACADEMIC YEAR: 2022-2023 ODD SEMESTER

NAME OF THE DEPARTMENT: ICE			DETAILS OF EXAMINATION IA TEST : I Makeup Test : I			
Sl.No	Subject Code	List of Batch Nos Verified	Subject Log book Verified [Y/N]	Assignments Verified [Y/N]	Remarks	
YEAR/SEM/SEC : III/V/A		Third year				
		IA Test	Makeup Test			
1	EI8551	235012, 11, 03	235011	y	—	—
2	EI8552	235003, 21, 07	—	y	—	—
3	EI8553	235009, 17, 03	235001, 07, 13		—	—
4	EE8551	235024, 19, 05	235001, 06	y	—	—
5	EI8093	235018, 09, 24	235001, 16, 08	y	—	—
6	OCE551	235004, 18, 22	—	y	—	—

VERIFIED BY

1 Dr. M. MURIMUTHU.

2 S. Prassanna Perumal.

SIGNATURE WITH DATE OF THE QAC MEMBERS

SARANATHAN COLLEGE OF ENGINEERING
TIRUCHIRAPPALLI – 12
QAC – QUALITY ASSESSMENT CELL
ACADEMIC YEAR: 2022-2023 ODD SEMESTER

NAME OF THE DEPARTMENT: ICE			DETAILS OF EXAMINATION IA TEST : I Makeup Test : I			
Sl.No	Subject Code	List of Batch Nos Verified	Subject Log book Verified [Y/N]	Assignments Verified [Y/N]	Remarks	
YEAR/SEM/SEC : IV/VII/A		Final Year.				
		IA Test	Makeup Test			
1	EI8751	225001, 016, 44	225038, 04	y	—	
2	EI8091	225017, 24, 105	225038, 10	y	—	
3	EC8093	225005, 004, 38	225018, 38, 10.	y	—	
4	EI8075	225009, 003, 004	225003	y	—	
5	EI8692	225001, 14, 35	225015, 27, 38	y	—	
6	OCS752	225046, 39, 43	225010, 39.	y	—	
7	GE8076	225017, 009, 31.	—	y	—	

VERIFIED BY

1 M. [signature] Dr. M. PARIMELAZHAGI.

2 [signature] – S. Prassanna Perumal.

SIGNATURE WITH DATE OF THE QAC MEMBERS

SARANATHAN COLLEGE OF ENGINEERING
TIRUCHIRAPPALLI – 12
QAC – QUALITY ASSESSMENT CELL
ACADEMIC YEAR: 2022-2023 ODD SEMESTER

NAME OF THE DEPARTMENT: ICE			DETAILS OF EXAMINATION IA TEST : II Makeup Test : II			
Sl.No	Subject Code	List of Batch Nos Verified		Subject Log book Verified [Y/N]	Assignments Verified [Y/N]	Remarks
YEAR/SEM/SEC : II/III/A		Second Year				
		IA Test	Makeup Test			
1	MA8353	245006, 08, 11.	245011, 07	y	y	—
2	EI3351	245010, 245002 05.	245013, 245001	y	—	—
3	EI3352	245015, 006, 020	—	y	—	—
4	EI3353	245002, 05, 15	—	y	—	—
5	EI3354	245006, 17, 19	245007, 01, 11.		—	—
6	CS3353	245007, 14, 17	245020, 16, 07	y	y	—

VERIFIED BY

1 M. Mahalakshmi Dr. M. MAHALAKSHMI

2 S. P. Prasanna Perumal -/- & Prasanna Perumal.

SIGNATURE WITH DATE OF THE QAC MEMBERS

SARANATHAN COLLEGE OF ENGINEERING
TIRUCHIRAPPALLI – 12
QAC – QUALITY ASSESSMENT CELL
ACADEMIC YEAR: 2022-2023 ODD SEMESTER

NAME OF THE DEPARTMENT: ICE			DETAILS OF EXAMINATION IA TEST : II Makeup Test : II.			
Sl.No	Subject Code	List of Batch Nos Verified		Subject Log book Verified [Y/N]	Assignments Verified [Y/N]	Remarks
YEAR/SEM/SEC : III/V/A		Third Year.				
		IA Test	Makeup Test			
1	EI8551	235024, 22, 24	235021	y	y	—
2	EI8552	235002, 023, 028	—	y	—	—
3	EI8553	225009, 24, 25	235011, 19, 20	y	—	—
4	EE8551	235006, 24, 25	235020	y	—	—
5	EI8093	235008, 07, 18	—	y	—	—
6	OCE551	235004, 026, 006	235026, 16.	y	—	—

VERIFIED BY

1 M. Rajesh Kumar Dr. M. MARIMUTHU

2 S. P. Perumal -/- S. Prassanna Perumal.

SIGNATURE WITH DATE OF THE QAC MEMBERS

SARANATHAN COLLEGE OF ENGINEERING
TIRUCHIRAPPALLI – 12
QAC – QUALITY ASSESSMENT CELL
ACADEMIC YEAR: 2022-2023 ODD SEMESTER

NAME OF THE DEPARTMENT: ICE			DETAILS OF EXAMINATION IA TEST : II Makeup Test : II			
Sl.No	Subject Code	List of Batch Nos Verified		Subject Log book Verified [Y/N]	Assignments Verified [Y/N]	Remarks
YEAR/SEM/SEC : IV/VII/A		Final Years.				
		IA Test	Makeup Test			
1	EI8751	225001, 13, 38	225038, 10	y	—	
2	EI8091	225006, 34, 07	225046, 38	y	—	
3	EC8093	225005, 18, 30	225018, 45, 43	y		
4	EI8075	225001, 05, 10	—	y	—	
5	EI8692	225032, 34, 41	225038, 10	y		
6	OCS752	225034, 013, 035	225011, 18	y		
7	GE8076	225005, 046, 030	225046, 225013.	y	—	

VERIFIED BY

1 M. Hyacinth Dr. M. Mercy Hyacinth

2 S. P. Prassanna & Prassanna Perumal.

SIGNATURE WITH DATE OF THE QAC MEMBERS

SARANATHAN COLLEGE OF ENGINEERING
TIRUCHIRAPPALLI – 12
QAC – QUALITY ASSESSMENT CELL
ACADEMIC YEAR: 2022-2023 ODD SEMESTER

NAME OF THE DEPARTMENT: ICE			DETAILS OF EXAMINATION IA TEST : Model Makeup Test :			
Sl.No	Subject Code	List of Batch Nos Verified		Subject Log book Verified [Y/N]	Assignments Verified [Y/N]	Remarks
YEAR/SEM/SEC : II/III/A		Second Years				
		IA Test	Makeup Test			
1	MA8353	245005, 12, 02	–	Y	–	–
2	EI3351	245008, 10, 15	–	Y	–	–
3	EI3352	245017, 04, 07	–	Y	–	–
4	EI3353	245001, 006, 5015	–	Y	–	–
5	EI3354	245002, 19, 13,	–	Y	–	–
6	CS3353	245001, 12, 17	–	Y	–	–

VERIFIED BY

1 M. [illegible] Dr. M. MARIMUTHU.

2

SIGNATURE WITH DATE OF THE QAC MEMBERS

SARANATHAN COLLEGE OF ENGINEERING
TIRUCHIRAPPALLI – 12
QAC – QUALITY ASSESSMENT CELL
ACADEMIC YEAR: 2022-2023 ODD SEMESTER

NAME OF THE DEPARTMENT: ICE			DETAILS OF EXAMINATION IA TEST : III Makeup Test : –			
Sl.No	Subject Code	List of Batch Nos Verified		Subject Log book Verified [Y/N]	Assignments Verified [Y/N]	Remarks
YEAR/SEM/SEC : III/V/A		Third year				
		IA Test	Makeup Test			
1	EI8551	235025, 17, 20	–	Y	–	–
2	EI8552	235001, 15, 20	–	Y	–	–
3	EI8553	235004, 08, 13	–	Y	–	–
4	EE8551	235025, 21, 12.	–	Y	–	–
5	EI8093	235019, 12, 03.	–	Y	–	–
6	OCE551	235011, 27, 24	–	Y	–	–

VERIFIED BY

1 H. Rajalakshmi Dr. M. MARIMUTHU.

2 B. Prasanna Perumal - B. Prasanna Perumal -

SIGNATURE WITH DATE OF THE QAC MEMBERS

SARANATHAN COLLEGE OF ENGINEERING
TIRUCHIRAPPALLI – 12
QAC – QUALITY ASSESSMENT CELL
ACADEMIC YEAR: 2022-2023 ODD SEMESTER

NAME OF THE DEPARTMENT: ICE			DETAILS OF EXAMINATION IA TEST : III Makeup Test : —			
Sl.No	Subject Code	List of Batch Nos Verified		Subject Log book Verified [Y/N]	Assignments Verified [Y/N]	Remarks
YEAR/SEM/SEC : IV/VII/A		Final Year.				
		IA Test	Makeup Test			
1	EI8751	225040, 28, 41	-	Y	—	—
2	EI8091	225047, 20, 19.		Y	—	—
3	EC8093	225004, 11, 21	—	Y	—	—
4	EI8075	225016, 01, 03	—	Y	—	—
5	EI8692	225009, 28, 38	—	Y	—	—
6	OCS752	225017, 29, 04.	—	Y	—	—
7	GE8076	225028, 18, 03	—	Y	—	—

VERIFIED BY

1 H. Mohamed Ali Dr. M. MARIMUTHU.

2 S.P. Ramkumar S. Prasanna perumal.

SIGNATURE WITH DATE OF THE QAC MEMBERS

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23EVEN** Semester : **6** Programme: **B.E/B.Tech (ICE)**
Subject Code : **IC8651** NBA Code : **C309** Title **ADVANCED CONTROL SYSTEM**
Faculty: Dr.M.Shanmugavalli

Cos	CO Description	Attained Level	%
C309.1	To provide knowledge on introduction to state space representation and modeling	2.36	78.67
C309.2	To provide knowledge on design state space representation and modeling	2.46	82.00
C309.3	To provide knowledge on design state feedback control and state observer.	2.5	83.33
C309.4	State space representation of Digital/sampled data system	2.57	85.67
C309.5	To provide knowledge in phase plane analysis,To give basic knowledge in describing function analysis.	2.46	82.00
C309.6	To study the design of optimal controller and estimator including Kalman Filter	2.36	78.67

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 28

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
235001	IC8651	2	3	2	2	3	3	20/09/2023	ICE	6
235002	IC8651	2	2	2	3	3	2	20/09/2023	ICE	6
235003	IC8651	2	3	3	3	2	3	20/09/2023	ICE	6
235004	IC8651	3	3	3	2	2	3	20/09/2023	ICE	6
235005	IC8651	3	3	2	3	3	2	20/09/2023	ICE	6
235006	IC8651	2	2	2	3	2	2	20/09/2023	ICE	6
235007	IC8651	2	3	2	3	3	2	20/09/2023	ICE	6
235008	IC8651	2	2	2	3	3	3	20/09/2023	ICE	6
235009	IC8651	2	3	3	2	2	2	20/09/2023	ICE	6
235010	IC8651	2	2	3	2	2	2	20/09/2023	ICE	6
235011	IC8651	2	3	3	3	2	2	20/09/2023	ICE	6
235012	IC8651	3	3	3	3	3	2	20/09/2023	ICE	6
235013	IC8651	3	2	2	3	3	2	20/09/2023	ICE	6
235014	IC8651	3	2	3	3	2	3	20/09/2023	ICE	6
235015	IC8651	3	2	3	3	2	2	20/09/2023	ICE	6
235016	IC8651	3	3	3	3	3	2	20/09/2023	ICE	6
235017	IC8651	2	2	2	2	3	3	20/09/2023	ICE	6
235018	IC8651	2	2	3	3	2	3	20/09/2023	ICE	6

235019	IC8651	3	3	2	2	2	2	20/09/2023	ICE	6
235020	IC8651	3	3	3	3	3	2	20/09/2023	ICE	6
235021	IC8651	2	2	2	2	3	3	20/09/2023	ICE	6
235022	IC8651	2	2	2	2	2	2	20/09/2023	ICE	6
235023	IC8651	2	3	3	2	3	3	20/09/2023	ICE	6
235024	IC8651	2	3	3	2	2	3	20/09/2023	ICE	6
235025	IC8651	2	2	3	2	2	2	20/09/2023	ICE	6
235026	IC8651	3	2	2	3	2	2	20/09/2023	ICE	6
235027	IC8651	2	2	2	2	2	2	20/09/2023	ICE	6
235028	IC8651	2	2	2	3	3	2	20/09/2023	ICE	6
Attained Level		2.36	2.46	2.5	2.57	2.46	2.36			
%		78.67	82.00	83.33	85.67	82.00	78.67			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23ODD** Semester : 7 Programme: **B.E/B.Tech (ICE)**
Subject Code : **EI8751** NBA Code : **403** Title **INDUSTRIAL DATA NETWORKS**
Faculty: Dr.M.Shanmugavalli

Cos	CO Description	Attained Level	%
403.1	Infer knowledge on the basic concepts of data networks.	3.0	100.00
403.2	Define the basics concepts of internetworking and serial communications.	3.0	100.00
403.3	Describe the uses of HART and Field buses in process industries.	2.57	85.67
403.4	Recognize the importance of MODBUS, PROFIBUS and other communication protocol.	2.57	85.67
403.5	Identify the importance and applications of foundation fieldbus	2.43	81.00
403.6	Exhibit the concept of industrial Ethernet and wireless communication techniques.	3.0	100.00

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 44

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
225001	EI8751	3	3	3	2	3	3	24/02/2023	ICE	7
225003	EI8751	3	3	2	3	3	3	24/02/2023	ICE	7
225004	EI8751	3	3	2	3	3	3	24/02/2023	ICE	7
225005	EI8751	3	3	3	2	2	3	24/02/2023	ICE	7
225006	EI8751	3	3	3	2	2	3	24/02/2023	ICE	7
225007	EI8751	3	3	2	2	2	3	24/02/2023	ICE	7
225008	EI8751	3	3	2	3	2	3	24/02/2023	ICE	7
225009	EI8751	3	3	2	2	2	3	24/02/2023	ICE	7
225010	EI8751	3	3	3	3	3	3	24/02/2023	ICE	7
225011	EI8751	3	3	3	3	2	3	24/02/2023	ICE	7
225012	EI8751	3	3	3	3	3	3	24/02/2023	ICE	7
225013	EI8751	3	3	2	2	2	3	24/02/2023	ICE	7
225014	EI8751	3	3	2	2	2	3	24/02/2023	ICE	7
225015	EI8751	3	3	2	3	3	3	24/02/2023	ICE	7
225016	EI8751	3	3	3	2	3	3	24/02/2023	ICE	7
225017	EI8751	3	3	2	3	2	3	24/02/2023	ICE	7
225018	EI8751	3	3	3	3	2	3	24/02/2023	ICE	7
225019	EI8751	3	3	3	2	3	3	24/02/2023	ICE	7
225020	EI8751	3	3	3	3	3	3	24/02/2023	ICE	7

225021	EI8751	3	3	2	3	2	3	24/02/2023	ICE	7
225022	EI8751	3	3	3	3	3	3	24/02/2023	ICE	7
225023	EI8751	3	3	3	2	3	3	24/02/2023	ICE	7
225024	EI8751	3	3	3	3	2	3	24/02/2023	ICE	7
225025	EI8751	3	3	3	2	2	3	24/02/2023	ICE	7
225027	EI8751	3	3	3	3	2	3	24/02/2023	ICE	7
225028	EI8751	3	3	3	3	3	3	24/02/2023	ICE	7
225029	EI8751	3	3	2	3	2	3	24/02/2023	ICE	7
225030	EI8751	3	3	2	2	2	3	24/02/2023	ICE	7
225031	EI8751	3	3	3	3	3	3	24/02/2023	ICE	7
225033	EI8751	3	3	3	2	2	3	24/02/2023	ICE	7
225034	EI8751	3	3	2	3	2	3	24/02/2023	ICE	7
225035	EI8751	3	3	3	2	2	3	24/02/2023	ICE	7
225036	EI8751	3	3	2	2	3	3	24/02/2023	ICE	7
225037	EI8751	3	3	2	2	2	3	24/02/2023	ICE	7
225038	EI8751	3	3	3	3	2	3	24/02/2023	ICE	7
225039	EI8751	3	3	2	2	2	3	24/02/2023	ICE	7
225040	EI8751	3	3	3	2	3	3	24/02/2023	ICE	7
225041	EI8751	3	3	2	3	3	3	24/02/2023	ICE	7
225042	EI8751	3	3	3	3	3	3	24/02/2023	ICE	7
225043	EI8751	3	3	2	3	2	3	24/02/2023	ICE	7
225044	EI8751	3	3	3	3	2	3	24/02/2023	ICE	7
225045	EI8751	3	3	3	3	2	3	24/02/2023	ICE	7
225046	EI8751	3	3	2	2	3	3	24/02/2023	ICE	7
225047	EI8751	3	3	3	3	3	3	24/02/2023	ICE	7
Attained Level		3.0	3.0	2.57	2.57	2.43	3.0			
%		100.00	100.00	85.67	85.67	81.00	100.00			



Semester:2022-23EVEN

(1ST FEEDBACK REPORT)Feedback Data Collected From Students

Staff Code: gopi-ice, - Tamils and Technology (GE3252)

Branch:ICE Sem : 2 Sec : A

Q.no	Questions[Weightage]	No.of Students Participated	No.of Students 5*	4*	3*	2*	1*	Question wise Total	[Rounded to Questions Weightages] / [Max.Weightage]
1	Does the faculty come Prepared for the Classes ?[15.0]	26	19	6	1	0	0	122/130	14.08/15.0
2	Subject Knowledge and Clarity of the Faculty[15.0]	26	17	8	1	0	0	120/130	13.85/15.0
3	Impartiality and Fairness to Students ?[8.0]	26	19	6	1	0	0	122/130	7.51/8.0
4	Interaction with Students by the faculty[12.0]	26	15	10	0	1	0	117/130	10.80/12.0
5	Valuable/Extra Information given during the Lectures by the faculty[12.0]	26	16	9	1	0	0	119/130	10.98/12.0
6	Enthusiasm for Subject ?[12.0]	26	16	7	2	1	0	116/130	10.71/12.0
7	Showing Concern and Care for Students?[4.0]	26	16	9	1	0	0	119/130	3.66/4.0
8	Punctuality in Evaluation of Exam Papers/ Assignments ?[6.0]	26	17	8	1	0	0	120/130	5.54/6.0
9	Whether Syllabus for IA Tests/ University Examination Completed steadily?[8.0]	26	16	9	1	0	0	119/130	7.32/8.0
10	Ability to Speak Loudly and Clearly [8.0]	26	16	7	3	0	0	117/130	7.20/8.0
Overall Percentage : 91.65			**Overall Total : 1191/1300**						

Staff Code: gopi-ice, - AUTOMATIC CONTROL SYSTEMS (IC3451)

Branch:ICE Sem : 4 Sec : A

Q.no	Questions[Weightage]	No.of Students Participated	No.of Students 5*	4*	3*	2*	1*	Question wise Total	[Rounded to Questions Weightages] / [Max.Weightage]
1	Does the faculty come Prepared for the Classes ?[15.0]	18	13	5	0	0	0	85/90	14.17/15.0
2	Subject Knowledge and Clarity of the Faculty[15.0]	18	14	4	0	0	0	86/90	14.33/15.0
3	Impartiality and Fairness to Students ?[8.0]	18	13	5	0	0	0	85/90	7.56/8.0
4	Interaction with Students by the faculty[12.0]	18	12	6	0	0	0	84/90	11.20/12.0
5	Valuable/Extra Information given during the Lectures by the faculty[12.0]	18	10	7	1	0	0	81/90	10.80/12.0
6	Enthusiasm for Subject ?[12.0]	18	13	5	0	0	0	85/90	11.33/12.0
7	Showing Concern and Care for Students?[4.0]	18	12	6	0	0	0	84/90	3.73/4.0
8	Punctuality in Evaluation of Exam Papers/ Assignments ?[6.0]	18	13	5	0	0	0	85/90	5.67/6.0
9	Whether Syllabus for IA Tests/ University Examination Completed steadily?[8.0]	18	13	5	0	0	0	85/90	7.56/8.0
10	Ability to Speak Loudly and Clearly [8.0]	18	14	4	0	0	0	86/90	7.64/8.0
Overall Percentage : 93.99			**Overall Total : 846/900**						

Staff Code: gopi-ice, - THERMAL POWER PLANT INSTRUMENTATION (EI8092)

Branch:ICE Sem : 6 Sec : A

Q.no	Questions[Weightage]	No.of Students Participated	No.of Students 5*	4*	3*	2*	1*	Question wise Total	[Rounded to Questions Weightages] / [Max.Weightage]
1	Does the faculty come Prepared for the Classes ?[15.0]	27	14	12	1	0	0	121/135	13.44/15.0
2	Subject Knowledge and Clarity of the Faculty[15.0]	27	11	15	1	0	0	118/135	13.11/15.0
3	Impartiality and Fairness to Students ?[8.0]	27	15	11	1	0	0	122/135	7.23/8.0
4	Interaction with Students by the faculty[12.0]	27	12	13	2	0	0	118/135	10.49/12.0

5	Valuable/Extra Information given during the Lectures by the faculty[12.0]	27	14	10	3	0	0	119/135	**10.58/12.0**
6	Enthusiasm for Subject ?[12.0]	27	10	13	4	0	0	114/135	**10.13/12.0**
7	Showing Concern and Care for Students?[4.0]	27	13	11	3	0	0	118/135	**3.50/4.0**
8	Punctuality in Evaluation of Exam Papers/ Assignments ?[6.0]	27	11	14	2	0	0	117/135	**5.20/6.0**
9	Whether Syllabus for IA Tests/ University Examination Completed steadily?[8.0]	27	13	12	2	0	0	119/135	**7.05/8.0**
10	Ability to Speak Loudly and Clearly [8.0]	27	12	12	3	0	0	117/135	**6.93/8.0**
Overall Percentage : 87.66			**Overall Total : 1183/1350**						

*** 5-Excellent,4-VeryGood,3-Good,2-VeryFair,1-Fair**



Semester:2022-23EVEN

(1ST FEEDBACK REPORT)Feedback Data Collected From Students

Staff Code: shanmugavalli-ice, - INDUSTRIAL INSTRUMENTATION (EI3451)

Branch:ICE Sem : 4 Sec : A

Q.no	Questions[Weightage]	No.of Students Participated	No.of Students					Question wise Total	[Rounded to Questions Weightages] / [Max.Weightage]
			5*	4*	3*	2*	1*		
1	Does the faculty come Prepared for the Classes ?[15.0]	18	5	12	1	0	0	76/90	12.67/15.0
2	Subject Knowledge and Clarity of the Faculty[15.0]	18	5	13	0	0	0	77/90	12.83/15.0
3	Impartiality and Fairness to Students ?[8.0]	18	5	12	1	0	0	76/90	6.76/8.0
4	Interaction with Students by the faculty[12.0]	18	7	9	2	0	0	77/90	10.27/12.0
5	Valuable/Extra Information given during the Lectures by the faculty[12.0]	18	7	9	2	0	0	77/90	10.27/12.0
6	Enthusiasm for Subject ?[12.0]	18	5	11	2	0	0	75/90	10.00/12.0
7	Showing Concern and Care for Students?[4.0]	18	5	12	1	0	0	76/90	3.38/4.0
8	Punctuality in Evaluation of Exam Papers/ Assignments ?[6.0]	18	6	11	1	0	0	77/90	5.13/6.0
9	Whether Syllabus for IA Tests/ University Examination Completed steadily?[8.0]	18	6	12	0	0	0	78/90	6.93/8.0
10	Ability to Speak Loudly and Clearly [8.0]	18	6	11	1	0	0	77/90	6.84/8.0
Overall Percentage : 85.08			Overall Total : 766/900						

Staff Code: shanmugavalli-ice, - MEMS AND NANO SCIENCE (EE8072)

Branch:ICE Sem : 6 Sec : A

Q.no	Questions[Weightage]	No.of Students Participated	No.of Students					Question wise Total	[Rounded to Questions Weightages] / [Max.Weightage]
			5*	4*	3*	2*	1*		
1	Does the faculty come Prepared for the Classes ?[15.0]	27	17	9	1	0	0	124/135	13.78/15.0
2	Subject Knowledge and Clarity of the Faculty[15.0]	27	16	10	1	0	0	123/135	13.67/15.0
3	Impartiality and Fairness to Students ?[8.0]	27	16	10	1	0	0	123/135	7.29/8.0

4	Interaction with Students by the faculty[12.0]	27	17	8	2	0	0	123/135	**10.93/12.0**
5	Valuable/Extra Information given during the Lectures by the faculty[12.0]	27	18	6	3	0	0	123/135	**10.93/12.0**
6	Enthusiasm for Subject ?[12.0]	27	15	8	4	0	0	119/135	**10.58/12.0**
7	Showing Concern and Care for Students?[4.0]	27	17	8	2	0	0	123/135	**3.64/4.0**
8	Punctuality in Evaluation of Exam Papers/ Assignments ?[6.0]	27	16	10	1	0	0	123/135	**5.47/6.0**
9	Whether Syllabus for IA Tests/ University Examination Completed steadily?[8.0]	27	15	11	1	0	0	122/135	**7.23/8.0**
10	Ability to Speak Loudly and Clearly [8.0]	27	15	11	1	0	0	122/135	**7.23/8.0**
Overall Percentage : 90.75			**Overall Total : 1225/1350**						

Staff Code: **shanmugavalli-ice, - ADVANCED CONTROL SYSTEM (IC8651)**

Branch:ICE Sem : 6 Sec : A

Q.no	Questions[Weightage]	No.of Students Participated	No.of Students					Question wise Total	[Rounded to Questions Weightages] / [Max.Weightage]
			5*	4*	3*	2*	1*		
1	Does the faculty come Prepared for the Classes ?[15.0]	27	14	11	2	0	0	120/135	**13.33/15.0**
2	Subject Knowledge and Clarity of the Faculty[15.0]	27	13	12	2	0	0	119/135	**13.22/15.0**
3	Impartiality and Fairness to Students ?[8.0]	27	14	11	2	0	0	120/135	**7.11/8.0**
4	Interaction with Students by the faculty[12.0]	27	14	11	2	0	0	120/135	**10.67/12.0**
5	Valuable/Extra Information given during the Lectures by the faculty[12.0]	27	15	10	2	0	0	121/135	**10.76/12.0**
6	Enthusiasm for Subject ?[12.0]	27	14	11	2	0	0	120/135	**10.67/12.0**
7	Showing Concern and Care for Students?[4.0]	27	15	10	2	0	0	121/135	**3.59/4.0**
8	Punctuality in Evaluation of Exam Papers/ Assignments ?[6.0]	27	13	11	3	0	0	118/135	**5.24/6.0**
9	Whether Syllabus for IA Tests/ University Examination Completed steadily?[8.0]	27	14	10	3	0	0	119/135	**7.05/8.0**
10	Ability to Speak Loudly and Clearly [8.0]	27	13	11	3	0	0	118/135	**6.99/8.0**
Overall Percentage : 88.63			**Overall Total : 1196/1350**						

Staff Code: **shanmugavalli-ice, - TRAINING AND PLACEMENT (TP)**

Branch:ICE Sem : 6 Sec : A

Q.no	Questions[Weightage]	No.of Students Participated	No.of Students					Question wise Total	[Rounded to Questions Weightages] / [Max.Weightage]
			5*	4*	3*	2*	1*		
1	Does the faculty come Prepared for the Classes ?[15.0]	27	12	14	1	0	0	119/135	**13.22/15.0**
2	Subject Knowledge and Clarity of the Faculty[15.0]	27	10	16	1	0	0	117/135	**13.00/15.0**
3	Impartiality and Fairness to Students ?[8.0]	27	11	14	2	0	0	117/135	**6.93/8.0**
4	Interaction with Students by the faculty[12.0]	27	10	15	2	0	0	116/135	**10.31/12.0**
5	Valuable/Extra Information given during the Lectures by the faculty[12.0]	27	11	15	1	0	0	118/135	**10.49/12.0**
6	Enthusiasm for Subject ?[12.0]	27	9	16	2	0	0	115/135	**10.22/12.0**
7	Showing Concern and Care for Students?[4.0]	27	11	12	4	0	0	115/135	**3.41/4.0**
8	Punctuality in Evaluation of Exam Papers/ Assignments ?[6.0]	27	10	14	3	0	0	115/135	**5.11/6.0**
9	Whether Syllabus for IA Tests/ University Examination Completed steadily?[8.0]	27	11	12	4	0	0	115/135	**6.81/8.0**
10	Ability to Speak Loudly and Clearly [8.0]	27	10	15	2	0	0	116/135	**6.87/8.0**
Overall Percentage : 86.37			**Overall Total : 1163/1350**						

Staff Code: **shanmugavalli-ice, - FUNDAMENTALS OF NANO SCIENCE (GE8073)**

Branch:ICE Sem : 8 Sec : A

Q.no	Questions[Weightage]	No.of Students Participated	No.of Students					Question wise Total	[Rounded to Questions Weightages] / [Max.Weightage]
			5*	4*	3*	2*	1*		
1	Does the faculty come Prepared for the Classes ?[15.0]	26	12	9	4	1	0	110/130	**12.69/15.0**
2	Subject Knowledge and Clarity of the Faculty[15.0]	26	14	8	4	0	0	114/130	**13.15/15.0**
3	Impartiality and Fairness to Students ?[8.0]	26	12	8	6	0	0	110/130	**6.77/8.0**
4	Interaction with Students by the faculty[12.0]	26	14	9	3	0	0	115/130	**10.62/12.0**
5	Valuable/Extra Information given during the Lectures by the faculty[12.0]	26	14	7	4	1	0	112/130	**10.34/12.0**
6	Enthusiasm for Subject ?[12.0]	26	16	7	3	0	0	117/130	**10.80/12.0**
7	Showing Concern and Care for Students?[4.0]	26	15	6	5	0	0	114/130	**3.51/4.0**
8	Punctuality in Evaluation of Exam Papers/ Assignments ?[6.0]	26	13	11	2	0	0	115/130	**5.31/6.0**
9	Whether Syllabus for IA Tests/ University Examination Completed steadily?[8.0]	26	14	7	5	0	0	113/130	**6.95/8.0**
10	Ability to Speak Loudly and Clearly [8.0]	26	15	8	2	0	1	114/130	**7.02/8.0**
Overall Percentage : 87.16			**Overall Total : 1134/1300**						

*** 5-Excellent,4-VeryGood,3-Good,2-VeryFair,1-Fair**



Semester:2022-23ODD

(1ST FEEDBACK REPORT)Feedback Data Collected From Students

Staff Code: **shanmugavalli-ice, - DIGITAL SYSTEM DESIGN AND APPLICATIONS (EI3352)**

Branch:ICE Sem : 3 Sec : A

Q.no	Questions[Weightage]	No.of Students Participated	No.of Students					Question wise Total	[Rounded to Questions Weightages] / [Max.Weightage]
			5*	4*	3*	2*	1*		
1	Does the faculty come Prepared for the Classes ?[15.0]	17	6	10	1	0	0	73/85	**12.88/15.0**
2	Subject Knowledge and Clarity of the Faculty[15.0]	17	8	7	2	0	0	74/85	**13.06/15.0**
3	Impartiality and Fairness to Students ?[8.0]	17	8	8	1	0	0	75/85	**7.06/8.0**
4	Interaction with Students by the faculty[12.0]	17	8	8	1	0	0	75/85	**10.59/12.0**
5	Valuable/Extra Information given during the Lectures by the faculty[12.0]	17	8	4	5	0	0	71/85	**10.02/12.0**
6	Enthusiasm for Subject ?[12.0]	17	8	7	2	0	0	74/85	**10.45/12.0**
7	Showing Concern and Care for Students?[4.0]	17	6	9	2	0	0	72/85	**3.39/4.0**
8	Punctuality in Evaluation of Exam Papers/ Assignments ?[6.0]	17	10	6	1	0	0	77/85	**5.44/6.0**
9	Whether Syllabus for IA Tests/ University Examination Completed steadily?[8.0]	17	7	8	2	0	0	73/85	**6.87/8.0**
10	Ability to Speak Loudly and Clearly [8.0]	17	9	6	2	0	0	75/85	**7.06/8.0**
Overall Percentage : 86.82			**Overall Total : 739/850**						

Staff Code: **shanmugavalli-ice, - INDUSTRIAL INSTRUMENTATION - II (EI8552)**

Branch:ICE Sem : 5 Sec : A

Q.no	Questions[Weightage]	No.of Students Participated	No.of Students					Question wise Total	[Rounded to Questions Weightages] / [Max.Weightage]
			5*	4*	3*	2*	1*		
1	Does the faculty come Prepared for the Classes ?[15.0]	26	20	4	2	0	0	122/130	**14.08/15.0**

2	Subject Knowledge and Clarity of the Faculty[15.0]	26	17	6	3	0	0	118/130	**13.62/15.0**
3	Impartiality and Fairness to Students ?[8.0]	26	15	8	2	1	0	115/130	**7.08/8.0**
4	Interaction with Students by the faculty[12.0]	26	18	6	2	0	0	120/130	**11.08/12.0**
5	Valuable/Extra Information given during the Lectures by the faculty[12.0]	26	19	5	2	0	0	121/130	**11.17/12.0**
6	Enthusiasm for Subject ?[12.0]	26	17	7	2	0	0	119/130	**10.98/12.0**
7	Showing Concern and Care for Students?[4.0]	26	18	6	2	0	0	120/130	**3.69/4.0**
8	Punctuality in Evaluation of Exam Papers/ Assignments ?[6.0]	26	18	6	2	0	0	120/130	**5.54/6.0**
9	Whether Syllabus for IA Tests/ University Examination Completed steadily?[8.0]	26	19	5	2	0	0	121/130	**7.45/8.0**
10	Ability to Speak Loudly and Clearly [8.0]	26	19	5	2	0	0	121/130	**7.45/8.0**
Overall Percentage : 92.14			**Overall Total : 1197/1300**						

Staff Code: **shanmugavalli-ice, - INDUSTRIAL DATA NETWORKS (EI8751)**

Branch:ICE Sem : 7 Sec : A

Q.no	Questions[Weightage]	No.of Students Participated	No.of Students					Question wise Total	[Rounded to Questions Weightages] / [Max.Weightage]
			5*	4*	3*	2*	1*		
1	Does the faculty come Prepared for the Classes ?[15.0]	42	15	18	7	1	1	171/210	**12.21/15.0**
2	Subject Knowledge and Clarity of the Faculty[15.0]	42	16	15	8	2	1	169/210	**12.07/15.0**
3	Impartiality and Fairness to Students ?[8.0]	42	16	19	5	1	1	174/210	**6.63/8.0**
4	Interaction with Students by the faculty[12.0]	42	13	18	9	1	1	167/210	**9.54/12.0**
5	Valuable/Extra Information given during the Lectures by the faculty[12.0]	42	14	15	10	3	0	166/210	**9.49/12.0**
6	Enthusiasm for Subject ?[12.0]	42	17	14	9	1	1	171/210	**9.77/12.0**
7	Showing Concern and Care for Students?[4.0]	42	17	12	12	0	1	170/210	**3.24/4.0**
8	Punctuality in Evaluation of Exam Papers/ Assignments ?[6.0]	42	18	15	8	1	0	176/210	**5.03/6.0**
9	Whether Syllabus for IA Tests/ University Examination Completed steadily?[8.0]	42	18	14	9	0	1	174/210	**6.63/8.0**
10	Ability to Speak Loudly and Clearly [8.0]	42	17	18	6	0	1	176/210	**6.70/8.0**
Overall Percentage : 81.31			**Overall Total : 1714/2100**						

*** 5-Excellent,4-VeryGood,3-Good,2-VeryFair,1-Fair**

ANNA UNIVERSITY:: CHENNAI 600 025

Internal Assessment Schedule for Non Autonomous Affiliated Institutions

AUGUST2022 - DECEMBER 2022 - For all UG - Programmes (ODD SEMESTER-EXCEPT III SEMESTER)

Report No	Report Period	Test Period	Report Entry Period
I	10-08-2022 –23-08-2022	—	29-09-2022 – 06-10-2022
II	24-08-2022 – 21-09-2022	16-09-2022 – 21-09-2022	29-09-2022 – 06-10-2022
III	22-09-2022 – 21-10-2022	17-10-2022 – 21-10-2022	21-10-2022 –29-10-2022
IV	22-10-2022 – 19-11-2022	14-11-2022 – 19-11-2022	19-11-2022 – 21-11-2022

Saturdays may be included as working days to make good the Shortages, if any.

19.09.2022

CONTROLLER OF EXAMINATIONS

ANNA UNIVERSITY:: CHENNAI 600 025

OFFICE OF THE CONTROLLER OF EXAMINATION

February 2023 – May 2023 - (SEMESTER - IV) – R-2021

FOR ALL UG /PG(MBA) PROGRAMMES

Report No	Report Period	Test Period	Report Entry Period
I	06-02-2023 – 21-03-2023	15-03-2023 – 21-03-2023	21-03-2023 – 28-03-2023
II	23-03-2023 – 12-05-2023	08-05-2023 – 12-05-2023	12-05-2023 – 15-05-2023

Saturdays may be included as working days to make good the Shortages, if any.

12.03.2023

CONTROLLER OF EXAMINATIONS

ANNA UNIVERSITY:: CHENNAI 600 025
OFFICE OF THE CONTROLLER OF EXAMINATION

February 2023 – May 2023 - (SEMESTER – VI,VIII,X)

FOR ALL UG/PG(MBA-Integrated) PROGRAMMES- R 2017

Report No	Report Period	Test Period	Report Entry Period
I	06-02-2023 – 24-02-2023	---	15-03-2023 – 21-03-2023
II	25-02-2023 – 20-03-2023	14-03-2023 – 20-03-2023	21-03-2023 – 28-03-2023
III	21-03-2023 – 17-04-2023	11-04-2023 – 17-04-2023	18-04-2023 –25-04-2023
IV	18-04-2023 – 12-05-2023	06-05-2023 – 12-05-2023	12-05-2023 – 19-05-2023

Saturdays may be included as working days to make good the Shortages, if any.

13/02/2023

13.03.2023

CONTROLLER OF EXAMINATIONS

SARANATHAN COLLEGE OF ENGINEERING, TRICHY-12

Academic Planner for 2022 - 23 Odd Semester - I YEAR UG (Sections A, B, C, D & E)

OCT'22	DAY	DETAILS	working days	NOV'22	DAY	DETAILS	working days	DEC'22	DAY	DETAILS	working days	JAN'23	DAY	DETAILS	working days	FEB'23	DAY	DETAILS	working days	MAR'23	DAY	DETAILS	working days
01	SAT	Holiday		01	TUE		2	01	THU	IA Test 1	24	01	SUN	New Year Holiday		01	WED	IA Test 2	66	01	WED		86
02	SUN	Gandhi Jayanthi Holiday		02	WED		3	02	FRI	IA Test 1	25	02	MON		46	02	THU	IA Test 2	67	02	THU		87
03	MON	Holiday		03	THU		4	03	SAT	Holiday		03	TUE		47	03	FRI	IA Test 2 Founder's Day	68	03	FRI	Syllabus Completion	88
04	TUE	Ayudha Pooja Holiday		04	FRI		5	04	SUN	Holiday		04	WED		48	04	SAT	Holiday		04	SAT	Holiday	
05	WED	Vijayadhasami Holiday		05	SAT	Holiday		05	MON		26	05	THU		49	05	SUN	Holiday		05	SUN	Holiday	
06	THU	Induction Program		06	SUN	Holiday		06	TUE		27	06	FRI	Saranathan Jayanthi	50	06	MON		69	06	MON	Revision	89
07	FRI	Induction Program		07	MON		6	07	WED	Flag Day	28	07	SAT	Holiday		07	TUE		70	07	TUE	Revision	90
08	SAT			08	TUE		7	08	THU		29	08	SUN	Holiday		08	WED		71	08	WED	Revision Women's Day	91
09	SUN	Milad-un-Nabi Holiday		09	WED		8	09	FRI		30	09	MON		51	09	THU		72	09	THU	Revision	92
10	MON	Induction Program		10	THU		9	10	SAT	Holiday		10	TUE		52	10	FRI		73	10	FRI	Revision	93
11	TUE	Induction Program		11	FRI		10	11	SUN	Holiday		11	WED		53	11	SAT	Holiday		11	SAT	Holiday	
12	WED	Induction Program		12	SAT	Holiday		12	MON		31	12	THU		54	12	SUN	Holiday		12	SUN	Holiday	
13	THU	Bridge Course		13	SUN	Holiday		13	TUE		32	13	FRI		55	13	MON		74	13	MON	Model Exam	94
14	FRI	Bridge Course		14	MON	Children's Day	11	14	WED		33	14	SAT	Bogi - Holiday		14	TUE		75	14	TUE		95
15	SAT	Holiday		15	TUE		12	15	THU		34	15	SUN	Pongal - Holiday		15	WED		76	15	WED	Model Exam	96
16	SUN	Holiday		16	WED		13	16	FRI		35	16	MON	Thiruvalluvar Day - Holiday		16	THU		77	16	THU		97
17	MON	Bridge Course		17	THU		14	17	SAT	Holiday		17	TUE	Uzhavar Thirunal-Holiday		17	FRI		78	17	FRI	Model Exam	98
18	TUE	Bridge Course		18	FRI		15	18	SUN	Holiday		18	WED		56	18	SAT	Holiday		18	SAT	Holiday	
19	WED	Bridge Course		19	SAT	Holiday		19	MON		36	19	THU		57	19	SUN	Holiday		19	SUN	Holiday	
20	THU	Bridge Course		20	SUN	Holiday		20	TUE		37	20	FRI		58	20	MON		79	20	MON	Model Exam	99
21	FRI	Holiday		21	MON		16	21	WED		38	21	SAT	Holiday		21	TUE		80	21	TUE		100
22	SAT	Holiday		22	TUE		17	22	THU	National Mathematics Day	39	22	SUN	Holiday		22	WED		81	22	WED	Telugu New Year - Holiday	
23	SUN	Holiday		23	WED		18	23	FRI		40	23	MON		59	23	THU		82	23	THU	Model Exam	101
24	MON	Deepavali Holiday		24	THU		19	24	SAT	Holiday		24	TUE		60	24	FRI		83	24	FRI		
25	TUE	Holiday		25	FRI		20	25	SUN	Christmas Holiday		25	WED		61	25	SAT	Holiday		25	SAT	Univ. Practical Exam commences	
26	WED	Holiday		26	SAT	Holiday		26	MON		41	26	THU	Republic Day - Holiday		26	SUN	Holiday		26	SUN	Holiday	
27	THU	Special TT		27	SUN	Holiday		27	TUE		42	27	FRI		62	27	MON		84	27	MON		
28	FRI	Special TT		28	MON	IA Test 1	21	28	WED		43	28	SAT	(Thursday Order)	63	28	TUE	National Science Day	85	28	TUE		
29	SAT	Special TT		29	TUE	IA Test 1	22	29	THU		44	29	SUN	Holiday						29	WED		
30	SUN			30	WED	IA Test 1	23	30	FRI		45	30	MON	IA Test 2	64					30	THU		
31	MON	Regular Classes	1					31	SAT	Holiday		31	TUE	IA Test 2	65					31	FRI		
			1				23				45				65				85				101

Total No. of working days for the semester : 101

Prepared by: Ms.N.Bhavani & Dr.R.Senthamil selvi

PRINCIPAL

SARANATHAN COLLEGE OF ENGINEERING, TRICHY-12

Academic Planner for 2022 - 23 Odd Semester - I YEAR UG (Sections F, G, H, I, J, K & L)

NOV'22	DAY	DETAILS	working days	DEC'22	DAY	DETAILS	working days	JAN'23	DAY	DETAILS	working days	FEB'23	DAY	DETAILS	working days	MAR'23	DAY	DETAILS	working days
01	TUE			01	THU		7	01	SUN	New Year Holiday		01	WED	IA Test 2	49	01	WED		69
02	WED			02	FRI		8	02	MON		29	02	THU	IA Test 2	50	02	THU		70
03	THU			03	SAT	Holiday		03	TUE		30	03	FRI	IA Test 2 Founder's Day	51	03	FRI	Syllabus Completion	71
04	FRI			04	SUN	Holiday		04	WED		31	04	SAT	Holiday		04	SAT	Holiday	
05	SAT	Holiday		05	MON		9	05	THU		32	05	SUN	Holiday		05	SUN	Holiday	
06	SUN	Holiday		06	TUE		10	06	FRI	Saranathan Jayanthi	33	06	MON		52	06	MON	Revision	72
07	MON			07	WED	Flag Day	11	07	SAT	Holiday		07	TUE		53	07	TUE	Revision	73
08	TUE			08	THU		12	08	SUN	Holiday		08	WED		54	08	WED	Revision Women's Day	74
09	WED			09	FRI		13	09	MON		34	09	THU		55	09	THU	Revision	75
10	THU			10	SAT	Holiday		10	TUE		35	10	FRI		56	10	FRI	Revision	76
11	FRI			11	SUN	Holiday		11	WED		36	11	SAT	Holiday		11	SAT	Holiday	
12	SAT	Holiday		12	MON		14	12	THU		37	12	SUN	Holiday		12	SUN	Holiday	
13	SUN	Holiday		13	TUE		15	13	FRI		38	13	MON		57	13	MON	Model Exam	77
14	MON	Induction Program Children's Day		14	WED		16	14	SAT	Bogi - Holiday		14	TUE		58	14	TUE		78
15	TUE	Induction Program		15	THU		17	15	SUN	Pongal - Holiday		15	WED		59	15	WED	Model Exam	79
16	WED	Induction Program		16	FRI		18	16	MON	Thiruvalluvar Day - Holiday		16	THU		60	16	THU		80
17	THU	Induction Program		17	SAT	Holiday		17	TUE	Uzhavar Thirunal- Holiday		17	FRI		61	17	FRI	Model Exam	81
18	FRI	Bridge Course		18	SUN	Holiday		18	WED		39	18	SAT	Holiday		18	SAT		
19	SAT	Holiday		19	MON		19	19	THU		40	19	SUN	Holiday		19	SUN	Holiday	
20	SUN	Holiday		20	TUE		20	20	FRI		41	20	MON		62	20	MON	Model Exam	82
21	MON	Bridge Course		21	WED		21	21	SAT	Holiday		21	TUE		63	21	TUE		83
22	TUE	Bridge Course		22	THU	National Mathematics Day	22	22	SUN	Holiday		22	WED		64	22	WED	Telugu New Year - Holiday	
23	WED	Regular class commences	1	23	FRI		23	23	MON		42	23	THU		65	23	THU	Model Exam	84
24	THU		2	24	SAT	Holiday		24	TUE		43	24	FRI		66	24	FRI		
25	FRI		3	25	SUN	Christmas Holiday		25	WED		44	25	SAT	Holiday		25	SAT	Univ. Practical Exam commences	
26	SAT	Holiday		26	MON	IA Test 1	24	26	THU	Republic Day - Holiday		26	SUN	Holiday		26	SUN	Holiday	
27	SUN	Holiday		27	TUE	IA Test 1	25	27	FRI		45	27	MON		67	27	MON		
28	MON		4	28	WED	IA Test 1	26	28	SAT	(Thursday Order)	46	28	TUE	National Science Day	68	28	TUE		
29	TUE		5	29	THU	IA Test 1	27	29	SUN	Holiday						29	WED		
30	WED		6	30	FRI	IA Test 1	28	30	MON	IA Test 2	47					30	THU		
				31	SAT	Holiday		31	TUE	IA Test 2	48					31	FRI		
No. of Working days			6				28				48				68				84

Total No. of working days for the semester : 84

Prepared by: Ms.N.Bhavani & Dr.R.Senthamil selvi

PRINCIPAL

SARANATHAN COLLEGE OF ENGINEERING, TRICHY-12

Academic Planner for 2022 - 23 Odd Semester - III and IV YEAR UG

AUG'22	DAY	DETAILS	Day order	working days	SEP'22	DAY	DETAILS	Day order	working days	OCT'22	DAY	DETAILS	Day order	working days	NOV'22	DAY	DETAILS	Day order	working days	DEC'22	DAY	DETAILS	Day order	working days
01	MON				01	THU		IV	11	01	SAT	Holiday			01	TUE		II	55	01	THU		IV	77
02	TUE				02	FRI		V	12	02	SUN	Gandhi Jayanthi Holiday			02	WED		III	56	02	FRI	Nan Mudhalvan scheme ends	V	78
03	WED				03	SAT		III	13	03	MON	Holiday			03	THU		IV	57	03	SAT	Holiday		
04	THU				04	SUN	Holiday			04	TUE	Ayudha Pooja Holiday			04	FRI		V	58	04	SUN	Holiday		
05	FRI				05	MON	Teacher's Day	I	14	05	WED	Vijayadhasami Holiday			05	SAT	Holiday			05	MON			
06	SAT	Holiday			06	TUE		II	15	06	THU		IV	36	06	SUN	Holiday			06	TUE			
07	SUN	Holiday			07	WED		III	16	07	FRI		V	37	07	MON		I	59	07	WED	Flag Day		
08	MON				08	THU		IV	17	08	SAT		III	38	08	TUE		II	60	08	THU	Univ.Theory Exam commences		
09	TUE				09	FRI		V	18	09	SUN	Milad-un-Nabi Holiday			09	WED		III	61	09	FRI			
10	WED				10	SAT	Holiday			10	MON	IA Test 2	I	39	10	THU	IA Test 3	IV	62	10	SAT	Holiday		
11	THU	Avani Avittam			11	SUN	Holiday			11	TUE	IA Test 2	II	40	11	FRI	National Education Day IA Test 3	V	63	11	SUN	Holiday		
12	FRI	International Youth Day			12	MON	IA Test 1	I	19	12	WED	IA Test 2	III	41	12	SAT	Holiday			12	MON			
13	SAT				13	TUE	IA Test 1	II	20	13	THU	IA Test 2	IV	42	13	SUN	Holiday			13	TUE			
14	SUN	Holiday			14	WED	IA Test 1	III	21	14	FRI	IA Test 2	V	43	14	MON	Children's Day IA Test 3	I	64	14	WED			
15	MON	Independence Day Holiday			15	THU	Engineer's Day IA Test 1	IV	22	15	SAT	IA Test 2	I	44	15	TUE	IA Test 3	II	65	15	THU			
16	TUE				16	FRI	IA Test 1	V	23	16	SUN	Holiday			16	WED	IA Test 3	III	66	16	FRI			
17	WED	Classes commence for V & VII semester	III	1	17	SAT	IA Test 1	I	24	17	MON		I	45	17	THU	IA Test 3	IV	67	17	SAT	Holiday		
18	THU		IV	2	18	SUN	Holiday			18	TUE		II	46	18	FRI	Syllabus Completion	V	68	18	SUN	Holiday		
19	FRI	Krishna Jayanthi Holiday			19	MON		I	25	19	WED		III	47	19	SAT	Holiday			19	MON			
20	SAT	Holiday			20	TUE		II	26	20	THU		IV	48	20	SUN	Holiday			20	TUE			
21	SUN	Holiday			21	WED		III	27	21	FRI		V	49	21	MON	Nan Mudhalvan scheme starts	I	69	21	WED			
22	MON		I	3	22	THU	Student Feedback-1	IV	28	22	SAT	Holiday			22	TUE		II	70	22	THU	National Mathematics Day		
23	TUE		II	4	23	FRI		V	29	23	SUN	Holiday			23	WED		III	71	23	FRI			
24	WED		III	5	24	SAT	NSS Day	II	30	24	MON	Deepavali Holiday			24	THU		IV	72	24	SAT	Holiday		
25	THU		IV	6	25	SUN	Holiday			25	TUE	Holiday			25	FRI		V	73	25	SUN	Christmas Holiday		
26	FRI		V	7	26	MON		I	31	26	WED		III	50	26	SAT	Holiday			26	MON			
27	SAT		V	8	27	TUE		II	32	27	THU		IV	51	27	SUN	Holiday			27	TUE			
28	SUN	Holiday			28	WED		III	33	28	FRI	Student Feedback-2	V	52	28	MON		I	74	28	WED			
29	MON		I	9	29	THU		IV	34	29	SAT		II	53	29	TUE		II	75	29	THU			
30	TUE		II	10	30	FRI		V	35	30	SUN	Holiday			30	WED		III	76	30	FRI			
31	WED	Vinayagar Chaturthi Holiday								31	MON	National Unity Day	I	54						31	SAT	Holiday		
No. of Working days			10	10				25	35				19	54				22	76				2	78

Total No. of working days for the semester : 78

Prepared by: Ms.N.Bhavani & Dr.R.Senthamil selvi

PRINCIPAL

SARANATHAN COLLEGE OF ENGINEERING, TRICHY-12

Academic Planner for 2022 - 23 Odd Semester - II YEAR UG

AUG'22	DAY	DETAILS	Day order	working days	SEP'22	DAY	DETAILS	Day order		OCT'22	DAY	DETAILS	Day order	working days	NOV'22	DAY	DETAILS	Day order	working days	DEC'22	DAY	DETAILS	Day order	working days
01	MON				01	THU		IV	9	01	SAT	Holiday			01	TUE		II	53	01	THU		IV	75
02	TUE				02	FRI		V	10	02	SUN	Gandhi Jayanthi Holiday			02	WED		III	54	02	FRI		V	76
03	WED				03	SAT		III	11	03	MON	Holiday			03	THU		IV	55	03	SAT	Holiday		
04	THU				04	SUN	Holiday			04	TUE	Ayudha Pooja Holiday			04	FRI		V	56	04	SUN	Holiday		
05	FRI				05	MON	Teacher's Day	I	12	05	WED	Vijayadhasami Holiday			05	SAT	Holiday			05	MON		I	77
06	SAT	Holiday			06	TUE		II	13	06	THU		IV	34	06	SUN	Holiday			06	TUE		II	78
07	SUN	Holiday			07	WED		III	14	07	FRI		V	35	07	MON		I	57	07	WED	Flag Day	III	79
08	MON				08	THU		IV	15	08	SAT		III	36	08	TUE		II	58	08	THU		IV	80
09	TUE				09	FRI		V	16	09	SUN	Milad-un-Nabi Holiday			09	WED		III	59	09	FRI	Syllabus Completion	V	81
10	WED				10	SAT	Holiday			10	MON		I	37	10	THU		IV	60	10	SAT	Holiday		
11	THU	Avani Avittam			11	SUN	Holiday			11	TUE		II	38	11	FRI	Professional Development - Nan Mudhalvan scheme ends	V	61	11	SUN	Holiday		
12	FRI	International Youth Day			12	MON		I	17	12	WED		III	39	12	SAT	Holiday			12	MON	Model Exam	I	82
13	SAT				13	TUE		II	18	13	THU		IV	40	13	SUN	Holiday			13	TUE		II	83
14	SUN	Holiday			14	WED		III	19	14	FRI		V	41	14	MON	Children's Day	I	62	14	WED	Model Exam	III	84
15	MON	Independence Day Holidau			15	THU	Engineer's Day	IV	20	15	SAT	IA Test 2	I	42	15	TUE		II	63	15	THU		IV	85
16	TUE				16	FRI		V	21	16	SUN	Holiday			16	WED		III	64	16	FRI	Model Exam	V	86
17	WED				17	SAT		I	22	17	MON	IA Test 2	I	43	17	THU		IV	65	17	SAT	Holiday		
18	THU				18	SUN	Holiday			18	TUE	IA Test 2	II	44	18	FRI		V	66	18	SUN	Holiday		
19	FRI	Krishna Jayanthi Holiday			19	MON	IA Test 1	I	23	19	WED	IA Test 2	III	45	19	SAT	Holiday			19	MON	Model Exam	I	87
20	SAT	Holiday			20	TUE	IA Test 1	II	24	20	THU	IA Test 2	IV	46	20	SUN	Holiday			20	TUE		II	88
21	SUN	Holiday			21	WED	IA Test 1	III	25	21	FRI	IA Test 2	V	47	21	MON		I	67	21	WED	Model Exam	III	89
22	MON	Classes commence for III semester	I	1	22	THU	IA Test 1	IV	26	22	SAT	Holiday			22	TUE		II	68	22	THU	National Mathematics Day	IV	90
23	TUE		II	2	23	FRI	IA Test 1	V	27	23	SUN	Holiday			23	WED		III	69	23	FRI	Model Exam	V	91
24	WED		III	3	24	SAT	NSS Day IA Test 1	II	28	24	MON	Deepavali Holiday			24	THU		IV	70	24	SAT	Holiday		
25	THU		IV	4	25	SUN	Holiday			25	TUE	Holiday			25	FRI		V	71	25	SUN	Christmas Holiday		
26	FRI		V	5	26	MON		I	29	26	WED		III	48	26	SAT	Holiday			26	MON			
27	SAT		V	6	27	TUE		II	30	27	THU		IV	49	27	SUN	Holiday			27	TUE			
28	SUN	Holiday			28	WED		III	31	28	FRI	Student Feedback-2	V	50	28	MON		I	72	28	WED			
29	MON		I	7	29	THU	Student Feedback-1	IV	32	29	SAT		II	51	29	TUE		II	73	29	THU	Univ.Theory Exam commences		
30	TUE		II	8	30	FRI		V	33	30	SUN	Holiday			30	WED		III	74	30	FRI			
31	WED	Vinayagar Chaturthi Holiday								31	MON	Professional Development - Nan Mudhalvan scheme starts	I	52						31	SAT			
No. of Working days			8	8				25	33				19	52				22	74				17	91

Total No. of working days for the semester : 91

Prepared by: Ms.N.Bhavani & Dr.R.Senthamil selvi

PRINCIPAL

SARANATHAN COLLEGE OF ENGINEERING, TR[illegible]Y-12

Academic Planner for Even Semester(2022-23) - II, III [illegible]V UG

FEB'22	DAY	DETAILS	working days	MAR'22	DAY	DETAILS	working days	APR'22	DAY	DETAILS	working days	MAY'22	DAY	DETAILS	working days
01	WED	Classes commence for IV & VI semester T&P Training for III Year	1	01	WED		21	01	SAT	Holiday		01	MON	May Day Holiday	
02	THU	T&P Training for III Year	2	02	THU	Sports Day	22	02	SUN	Holiday		02	TUE		62
03	FRI	Founder's day T&P Training for III Year	3	03	FRI	College Day	23	03	MON		44	03	WED		63
04	SAT	T&P Training for III Year Holiday		04	SAT	Graduation Day Holiday		04	TUE		45	04	THU	IA test-3	64
05	SUN	Holiday		05	SUN	Holiday		05	WED		46	05	FRI	IA test-3	65
06	MON		4	06	MON		24	06	THU		47	06	SAT	IA test-3	66
07	TUE		5	07	TUE		25	07	FRI	Good Friday Holiday		07	SUN	Holiday	
08	WED		6	08	WED	Womania 2023 Women's Day	26	08	SAT	Holiday		08	MON	IA test-3	67
09	THU		7	09	THU	IA test-1	27	09	SUN	Holiday		09	TUE	IA test-3	68
10	FRI		8	10	FRI	IA test-1	28	10	MON	IA test-2	48	10	WED	IA test-3	69
11	SAT	Holiday		11	SAT	IA test-1	29	11	TUE	IA test-2	49	11	THU		70
12	SUN	Holiday		12	SUN	Holiday		12	WED	IA test-2	50	12	FRI	Syllabus completion	71
13	MON		9	13	MON	IA test-1	30	13	THU	IA test-2	51	13	SAT	Holiday	
14	TUE		10	14	TUE	IA test-1	31	14	FRI	Tamil New Year Day Holiday		14	SUN	Holiday	
15	WED		11	15	WED	IA test-1	32	15	SAT	Holiday		15	MON	Commencement of University Practical exams	
16	THU		12	16	THU		33	16	SUN	Holiday		16	TUE		
17	FRI		13	17	FRI		34	17	MON	IA test-2	52	17	WED		
18	SAT	Holiday		18	SAT	Holiday		18	TUE	IA test-2	53	18	THU		
19	SUN	Holiday		19	SUN	Holiday		19	WED		54	19	FRI		
20	MON	Classes commence for VIII semester	14	20	MON	Students Feedback-I	35	20	THU		55	20	SAT		
21	TUE		15	21	TUE		36	21	FRI		56	21	SUN		
22	WED		16	22	WED	Telugu New Year Day Holiday		22	SAT	Ramzan Holiday		22	MON		
23	THU		17	23	THU		37	23	SUN	Holiday		23	TUE		
24	FRI		18	24	FRI		38	24	MON	Students Feedback-II	57	24	WED		
25	SAT	Holiday		25	SAT	Holiday		25	TUE		58	25	THU		
26	SUN	Holiday		26	SUN	Holiday		26	WED		59	26	FRI	Commencement of University Theory exams	
27	MON		19	27	MON		39	27	THU	Founder's Memorial day	60	27	SAT		
28	TUE		20	28	TUE		40	28	FRI		61	28	SUN		
				29	WED		41	29	SAT	Holiday		29	MON		
				30	THU		42	30	SUN	Holiday		30	TUE		
				31	FRI		43					31	WED		
No. of Working days			20				23				18				10
														Total No.of working days for the semester :	71

Prepared by

Ms. N. Bhavani, Asso.Prof/IT dept

Dr. R. Senthamil Selvi,Asso. Prof/ CSE Dept

Principal

SARANATHAN COLLEGE OF ENGINEERING, TRICHY-12

DEPARTMENT OF INFORMATION TECHNOLOGY

Academic Planner for 2022 - 23 Odd Semester - II YEAR UG

AUG'22	DAY	DETAILS	Day order	working days	SEP'22	DAY	DETAILS	Day order	working days	OCT'22	DAY	DETAILS	Day order	working days	NOV'22	DAY	DETAILS	Day order	working days	DEC'22	DAY	DETAILS	Day order	working days
01	MON				01	THU		IV	9	01	SAT	Holiday			01	TUE	CODING CONTEST	II	53	01	THU		IV	77
02	TUE				02	FRI		V	10	02	SUN	Gandhi Jayanthi Holiday			02	WED		III	54	02	FRI	Syllabus Completion	V	78
03	WED				03	SAT		III	11	03	MON	Holiday			03	THU		IV	55	03	SAT	Holiday		
04	THU				04	SUN	Holiday			04	TUE	Ayudha Pooja Holiday			04	FRI	DO-IT-QUIZ	V	56	04	SUN	Holiday		
05	FRI				05	MON	Teacher's Day	I	12	05	WED	Vijayadhasami Holiday			05	SAT	Holiday			05	MON	Revision	I	79
06	SAT	Holiday			06	TUE		II	13	06	THU		IV	34	06	SUN	Holiday			06	TUE	Revision	II	80
07	SUN	Holiday			07	WED		III	14	07	FRI		V	35	07	MON		I	57	07	WED	Revision	III	81
08	MON				08	THU		IV	15	08	SAT	WEBINAR	III	36	08	TUE		II	58	08	THU	Revision	IV	82
09	TUE				09	FRI		V	16	09	SUN	Milad-un-Nabi Holiday			09	WED		III	59	09	FRI			
10	WED				10	SAT	Holiday			10	MON		I	37	10	THU		IV	60	10	SAT	Univ. Practical Exam commences		
11	THU	Avani Avittam			11	SUN	Holiday			11	TUE		II	38	11	FRI	National Education Day	V	61	11	SUN	Holiday		
12	FRI	International Youth Day			12	MON		I	17	12	WED		III	39	12	SAT		I	62	12	MON			
13	SAT				13	TUE	ISEC MEETING	II	18	13	THU		IV	40	13	SUN	Holiday			13	TUE			
14	SUN	Holiday			14	WED	ISEC MEETING	III	19	14	FRI		V	41	14	MON	Children's Day	I	63	14	WED			
15	MON	Independence Day Holidas			15	THU	Engineer's Day	IV	20	15	SAT	IA Test 2	I	42	15	TUE		II	64	15	THU			
16	TUE				16	FRI		V	21	16	SUN	Holiday			16	WED		III	65	16	FRI			
17	WED				17	SAT		I	22	17	MON	SEMINAR ON GIT AND GITHUB	I	43	17	THU		IV	66	17	SAT	Holiday		
18	THU				18	SUN	Holiday			18	TUE	2ND I C MEETING	II	44	18	FRI		V	67	18	SUN	Holiday		
19	FRI	Krishna Jayanthi Holiday			19	MON	IA Test 1	I	23	19	WED	2ND I C MEETING	III	45	19	SAT		II	68	19	MON			
20	SAT	Holiday			20	TUE	IA Test 1	II	24	20	THU	IA Test 2	IV	46	20	SUN	Holiday			20	TUE			
21	SUN	Holiday			21	WED	IA Test 1	III	25	21	FRI	CODING CONTENT	V	47	21	MON	IA Test 3	I	69	21	WED	Univ. Theory Exam commences		
22	MON	Classes commence for III semester	I	1	22	THU	IA Test 1	IV	26	22	SAT	Holiday			22	TUE	IA Test 3	II	70	22	THU	National Mathematics Day		
23	TUE		II	2	23	FRI	IA Test 1	V	27	23	SUN	Holiday			23	WED	IA Test 3	III	71	23	FRI			
24	WED		III	3	24	SAT	NSS Day IA Test 1	II	28	24	MON	Deepavali Holiday			24	THU	IA Test 3	IV	72	24	SAT	Holiday		
25	THU		IV	4	25	SUN	Holiday			25	TUE	Holiday			25	FRI	IA Test 3	V	73	25	SUN	Christmas Holiday		
26	FRI		V	5	26	MON		I	29	26	WED		III	48	26	SAT	Holiday			26	MON			
27	SAT		V	6	27	TUE		II	30	27	THU	DESIGNING CONTENT	IV	49	27	SUN	Holiday			27	TUE			
28	SUN	Holiday			28	WED		III	31	28	FRI	Student Feedback-2	V	50	28	MON	IA Test 3	I	74	28	WED			
29	MON		I	7	29	THU	Student Feedback-1	IV	32	29	SAT		II	51	29	TUE		II	75	29	THU			
30	TUE		II	8	30	FRI		V	33	30	SUN	Holiday			30	WED		III	76	30	FRI			
31	WED	Vinayagar Chaturthi Holidas								31	MON	National Unity Day	I	52						31	SAT	Holiday		
No. of Working days			8	8				25	33				19	52				24	76				6	82

Total No. of working days for the semester : 82

HOD IT

PRINCIPAL

SARANATHAN COLLEGE OF ENGINEERING, TRICHY-12

DEPARTMENT OF INFORMATION TECHNOLOGY

Academic Planner for 2022 - 23 Odd Semester - III and IV YEAR UG

AUG'22	DAY	DETAILS	Day order	working days	SEP'22	DAY	DETAILS	Day order	working days	OCT'22	DAY	DETAILS	Day order	working days	NOV'22	DAY	DETAILS	Day order	working days	DEC'22	DAY	DETAILS	Day order	working days
01	MON				01	THU		IV	11	01	SAT	Holiday			01	TUE	CODING CONTEST	II	55	01	THU	Univ. Theory Exam commences		
02	TUE				02	FRI		V	12	02	SUN	Gandhi Jayanthi Holiday			02	WED	GUIDELINESS FOR T&P	III	56	02	FRI			
03	WED				03	SAT		III	13	03	MON	Holiday			03	THU		IV	57	03	SAT	Holiday		
04	THU				04	SUN	Holiday			04	TUE	Ayudha Pooja Holiday			04	FRI	IMU-IT-QUIZ	V	58	04	SUN	Holiday		
05	FRI				05	MON	Teacher's Day	I	14	05	WED	Vijayadhasami Holiday			05	SAT	Holiday			05	MON			
06	SAT	Holiday			06	TUE		II	15	06	THU		IV	36	06	SUN	Holiday			06	TUE			
07	SUN	Holiday			07	WED		III	16	07	FRI		V	37	07	MON		I	59	07	WED	Flag Day		
08	MON				08	THU		IV	17	08	SAT	WEBINAR	III	38	08	TUE		II	60	08	THU			
09	TUE				09	FRI		V	18	09	SUN	Milad-un-Nabi Holiday			09	WED		III	61	09	FRI			
10	WED				10	SAT	Holiday			10	MON	IA Test 2	I	39	10	THU	IA Test 3	IV	62	10	SAT	Holiday		
11	THU	Avani Avittam			11	SUN	Holiday			11	TUE	IA Test 2	II	40	11	FRI	National Education Day IA Test 3	V	63	11	SUN	Holiday		
12	FRI	International Youth Day			12	MON	IA Test 1	I	19	12	WED	IA Test 2	III	41	12	SAT	IA Test 3	I	64	12	MON			
13	SAT				13	TUE	1ST CC MEETING	II	20	13	THU	IA Test 2	IV	42	13	SUN	Holiday			13	TUE			
14	SUN	Holiday			14	WED	1ST CC MEETING	III	21	14	FRI	IA Test 2	V	43	14	MON	Children's Day IA Test 3	I	65	14	WED			
15	MON	Independence Day Holiday			15	THU	WEBINAR	IV	22	15	SAT	IA Test 2	I	44	15	TUE	IA Test 3	II	66	15	THU			
16	TUE				16	FRI	IA Test 1	V	23	16	SUN	Holiday			16	WED	IA Test 3	III	67	16	FRI			
17	WED	Classes commence for V & VII semester	III	1	17	SAT	IA Test 1	I	24	17	MON	SEMINAR ON GIT AND GITHUB	I	45	17	THU	IMU-MOCK INTERVIEW	IV	68	17	SAT	Holiday		
18	THU		IV	2	18	SUN	Holiday			18	TUE	2ND CC MEETING	II	46	18	FRI	Syllabus Completion	V	69	18	SUN	Holiday		
19	FRI	Krishna Jayanthi Holiday			19	MON		I	25	19	WED	2ND CC MEETING	III	47	19	SAT		II	70	19	MON			
20	SAT	Holiday			20	TUE		II	26	20	THU		IV	48	20	SUN	Holiday			20	TUE			
21	SUN	Holiday			21	WED		III	27	21	FRI	CODING CONTEST	V	49	21	MON	Univ. Practical Exam commences			21	WED			
22	MON		I	3	22	THU	Student Feedback-1	IV	28	22	SAT	Holiday			22	TUE				22	THU	National Mathematics Day		
23	TUE		II	4	23	FRI		V	29	23	SUN	Holiday			23	WED				23	FRI			
24	WED		III	5	24	SAT	NSS Day	II	30	24	MON	Holiday			24	THU				24	SAT	Holiday		
25	THU		IV	6	25	SUN	Holiday			25	TUE	Holiday			25	FRI				25	SUN	Christmas Holiday		
26	FRI		V	7	26	MON		I	31	26	WED		III	50	26	SAT	Holiday			26	MON			
27	SAT		V	8	27	TUE		II	32	27	THU	DESIGNING EVENTS	IV	51	27	SUN	Holiday			27	TUE			
28	SUN	Holiday			28	WED		III	33	28	FRI	Student Feedback-2	V	52	28	MON				28	WED			
29	MON		I	9	29	THU		IV	34	29	SAT		II	53	29	TUE				29	THU			
30	TUE		II	10	30	FRI		V	35	30	SUN	Holiday			30	WED				30	FRI			
31	WED	Vinayagar Chaturthi Holiday								31	MON	National Unity Day	I	54						31	SAT	Holiday		
No. of Working days			10	10				25	35				19	54				16	70					

Total No. of working days for the semester : 70

HOD IT

PRINCIPAL

SARANATHAN COLLEGE OF ENGINEERING, TRICHY-12

DEPARTMENT OF INFORMATION TECHNOLOGY

Academic Planner for Even Semester(2022-23) - II, III & IV UG

FEB'23	DAY	DETAILS	working days	MAR'23	DAY	DETAILS	working days	APR'23	DAY	DETAILS	working days	MAY'23	DAY	DETAILS	working days
01	WED	Classes commence for IV & VI semester T&P Training for III Year	1	01	WED		21	01	SAT	Holiday		01	MON	May Day Holiday	
02	THU	T&P Training for III Year	2	02	THU	Sports Day	22	02	SUN	Holiday		02	TUE		62
03	FRI	Founder's day T&P Training for III Year	3	03	FRI	College Day	23	03	MON		44	03	WED		63
04	SAT	T&P Training for III Year Holiday		04	SAT	Graduation Day Holiday		04	TUE	2ND CC MEETING	45	04	THU	IA test-3	64
05	SUN	Holiday		05	SUN	Holiday		05	WED	2ND CC MEETING	46	05	FRI	IA test-3	65
06	MON		4	06	MON	1ST CC MEETING	24	06	THU		47	06	SAT	IA test-3	66
07	TUE		5	07	TUE	1ST CC MEETING	25	07	FRI	Good Friday Holiday		07	SUN	Holiday	
08	WED		6	08	WED	Womania 2023 Women's Day	26	08	SAT	Holiday		08	MON	IA test-3	67
09	THU		7	09	THU	IA test-1	27	09	SUN	Holiday		09	TUE	IA test-3	68
10	FRI		8	10	FRI	IA test-1	28	10	MON	IA test-2	48	10	WED	IA test-3	69
11	SAT	Holiday		11	SAT	IA test-1	29	11	TUE	IA test-2	49	11	THU	Mini project contest	70
12	SUN	Holiday		12	SUN	Holiday		12	WED	IA test-2	50	12	FRI	Syllabus completion	71
13	MON		9	13	MON	IA test-1	30	13	THU	IA test-2	51	13	SAT	Holiday	
14	TUE		10	14	TUE	IA test-1	31	14	FRI	Tamil New Year Day Holiday		14	SUN	Holiday	
15	WED		11	15	WED	IA test-1	32	15	SAT	Holiday		15	MON	Commencement of University Practical exams	
16	THU		12	16	THU		33	16	SUN	Holiday		16	TUE		
17	FRI	Elite Lecture Series	13	17	FRI		34	17	MON	IA test-2	52	17	WED		
18	SAT	Holiday		18	SAT	Holiday		18	TUE	IA test-2	53	18	THU		
19	SUN	Holiday		19	SUN	Holiday		19	WED		54	19	FRI		
20	MON	Classes commence for VIII semester	14	20	MON	Students Feedback-I	35	20	THU		55	20	SAT		
21	TUE		15	21	TUE		36	21	FRI		56	21	SUN		
22	WED		16	22	WED	Telugu New Year Day Holiday		22	SAT	Ramzan Holiday		22	MON		
23	THU		17	23	THU		37	23	SUN	Holiday		23	TUE		
24	FRI		18	24	FRI		38	24	MON	Students Feedback-II Cadence contest	57	24	WED		
25	SAT	Holiday		25	SAT	Holiday		25	TUE		58	25	THU		
26	SUN	Holiday		26	SUN	Holiday		26	WED		59	26	FRI	Commencement of University Theory exams	
27	MON		19	27	MON		39	27	THU	Founder's Memorial day	60	27	SAT		
28	TUE		20	28	TUE		40	28	FRI		61	28	SUN		
				29	WED		41	29	SAT	Holiday		29	MON		
				30	THU		42	30	SUN	Holiday		30	TUE		
				31	FRI		43					31	WED		
No. of Working days			20				23				18				10
														Total No.of working days for the semester :	71

HOD IT

Principal

SARANATHAN COLLEGE OF ENGINEERING
Venkateswara Nagar, Panjappur, Tiruchirappalli - 620012
Department of Information Technology
WORKLOAD -ALLOCATION FOR ACADEMIC YEAR 2022-2023(Odd)

Date:17/08/22

S.NO	NAME	SUBJECT	SUBJECT CODE	YEAR / SEM	THEORY/ LAB	HOURS	TOTAL HOURS
1	Dr.R.Thillaikarasi	Cryptography and Network Security	CS8792	VI/VII	THEORY	5	5
2	Ms.N.Bhavani Associate Prof.	Design and Analysis of Algorithms	AD3351	II / III -AIDS	THEORY	5	21
		Data Structures and Algorithm	CD3291	II /III	THEORY	5	
		Data Structures and Algorithm Laboratory	CD3281	II /III	LAB	6	
		Network Technologies	CP4153	I/I - PG	THEORY	5	
3	Ms.J.Sangeetha Priya Asst. Prof.	Computer Networks	CS8591	III/V	THEORY	4	19
		Digital Principles and Computer Organization	CS3351	II /III	THEORY	5	
		Digital Principles and Computer Organization Lab	CS3351	II /III	LAB	1	
		Networks Laboratory	CS8581	III/V	LAB	6	
		IBM Project		VI/VII	LAB	3	
4	Mr.V.Senthil Balaji Asst. Prof.	Hospital Management	OBM752	IV/VII	THEORY	5	10
		Introduction to C Programming	OCS752	IV/VII-ICE	THEORY	5	
5	Mr.P.Anand Asst. Prof.	E-Commerce	IT8005	VI/VII	THEORY	5	16
		Foundations of Data Science	CS3352	II /III	THEORY	5	
		Data Science Laboratory	CS3361	II /III	LAB	6	
6	Mr.R.Rengaraj @ Muralidharan Asst. Prof.	Cloud Computing	CS8791	VI/VII	THEORY	5	18
		Geographic Information System	OCE552	III/V	THEORY	4	
		FOSS and Cloud Computing Laboratory	IT8711	VI/VII	LAB	6	
		IBM Project		VI/VII	LAB	3	
7	Ms.A.Sheelavathi Asst. Prof.	C Programming and Data Structures	CS3353	II/III-EEE	THEORY	5	18
		Computer Architecture and Organization	EC8552	III/V-ECE A	THEORY	5	
		C Programming and Data Structures Laboratory	CS3362	II/III-EEE	LAB	6	
		Training and Placement	T&P	III/V	THEORY	2	
8	Ms.M.Padmapriya Asst. Prof.	Principles of Management	MG8591	VI/VII	THEORY	5	19
		Software Engineering	CS8494	III/V	THEORY	4	
		Security Laboratory	IT8761	VI/VII	LAB	6	
		Problem Solving and Python Programming Lab	GE8161	I / I	LAB	4	
9	Ms.K.Muthukarupaee	Object Oriented Programming	CS3391	II/III	THEORY	5	11
		Object Oriented Programming Laboratory	CS3381	II/III	LAB	6	
10	Ms.G.Sathiya	Computer Architecture and Organization	EC8552	III/V-ECE B	THEORY	5	20
		Web Technology	IT8501	III/V	THEORY	5	
		Web Technology Laboratory	IT8511	III/V	LAB	6	
		Problem Solving and Python Programming Lab	GE8161	I / I	LAB	4	
11	Ms.A.Thenmozhi Asst. Prof.	Problem Solving and Python Programming	GE8151	I / I	THEORY	6	20
		Problem Solving and Python Programming	GE8151	I / I	THEORY	6	
		Problem Solving and Python Programming Lab	GE8161	I / I	LAB	4	
		Problem Solving and Python Programming Lab	GE8161	I / I	LAB	4	
					Total	177	

Timetable Coordinator HoD/IT Principal

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SARANATHAN COLLEGE OF ENGINEERING
Venkateswara Nagar, Panjappur, Tiruchirappalli - 620012
Department of Information Technology
WORKLOAD -ALLOCATION FOR THE ACADEMIC YEAR 2022-2023(EVEN)

Date: 21.02.22

S.NO	NAME	SUBJECT	SUBJECT	YEAR / SEM	THEORY/	HOURS	TOTAL
1	Dr.R.Thillaikarasi Prof.	Theory of Computation	CS3452	II/IV	THEORY	5	5
		Project Work / Project Co-ordinator	IT8811	IV/VIII	LAB		
2	Ms.N.Bhavani Assoc.Prof.	Mobile Communication	IT8602	III/VI	THEORY	4	17
		Artificial Intelligence and Machine Learning	CS3491	II/IV	THEORY	5	
		Artificial Intelligence and Machine Learning Lab	CS3491	II/IV	LAB	2	
		Mobile Application Development Lab	CS8662	III/VI	LAB	6	
3	Ms.J.Sangeetha Priya Asst.Prof	Computer Graphics and Multimedia	CS8092	III/VI	THEORY	4	15
		Operating Systems	CS8493	II/IV	THEORY	5	
		Operating Systems Lab	CS8461	II/IV	LAB	6	
4	Mr.V.Senthil Balaji Asst.Prof	Data Structures	CS8391	III/VI-ICE	THEORY	5	8
		Professional Ethics in Engineering	GE8076	III/VI	THEORY	3	
5	Mr.P.Anand Asst.Prof	Big Data Analytics	CS8091	III/VI	THEORY	5	11
		Database Management Systems Lab	CS8481	II/IV	LAB	6	
		Project Work / Project Co-ordinator	IT8811	IV/VIII	LAB		
6	Mr.R.Rengaraj @ Muralidharan Asst. Prof.	Computational Intelligence	IT8601	III/VI	THEORY	4	15
		Database Management Systems	CS8492	II/IV	THEORY	5	
		Database Management Systems Lab	CS8481	II/IV	LAB	6	
7	Ms.A.Sheelavathi Asst. Prof.	Object Oriented Analysis and Design	CS8592	III/VI	THEORY	4	12
		Object Oriented Analysis and Design Lab	CS8582	III/VI	LAB	6	
		Training and Placement	T&P	III/VI	THEORY	2	
8	Ms. M.Padmapriya Asst. Prof.	Software Testing	IT8076	III/VI	THEORY	4	12
		Mini Project	IT8611	III/VI	LAB	2	
		Operating Systems Lab	CS8461	II/IV	LAB	6	
9	Ms. K.Muthukarupaee Asst. Prof.	Programming in C	CS3251	I/II	THEORY	5	14
		Programming in C Lab	CS3271	I/II	LAB	3	
		Mobile Application Development Lab	CS8662	III/VI	LAB	6	
10	Ms.G.Sathiya Asst. Prof.	Web Essentials	IT3401	II/IV	THEORY	5	13
		Web Essentials Lab	IT3401	II/IV	LAB	2	
		Data Structures Lab	CS8381	III/VI-ICE	LAB	6	
11	Ms.A.Thenmozhi Asst. Prof.	Object Oriented Analysis and Design Lab	CS8582	III/VI	LAB	6	9
		Programming in C Lab	CS3271	I/II	LAB	3	
12	Ms.S.Angel Sweety Sheeba Asst. Prof.	Tamils and Technology	GE3252	I/II-AIML	THEORY	1	4
		Programming in C Lab	CS3271	I/II	LAB	3	
					Total		117

A.
Timetable Coordinators

R. Thil
HoD/IT

Principal

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REVIEW OF COURSE FILE - CS8591 COMPUTER NETWORKS

S.No.	Details Date:	Remarks
1.	Vision, Mission, PEOs, POs, PSOs, Blooms taxonomy	✓
2.	Timetable/Workload of the Staff – Distribution of teaching load	✓
3.	Syllabus	✓
4.	Lecture Schedule signed by Staff & HoD	✓
5.	Course Committee meeting circular and minutes	✓
6.	Identification of Curricular gap and Content Beyond the syllabus	✓
7.	Previous AU Question papers(at least 5)	
8.	Unit wise Q&A	
9.	Unit wise course material	✓
10.	Assignment question paper with sample answer sheets (at least 3)and mark entry	✓
11.	Tutorial questionpaper with key (minimum 3 Tutorials per unit, 15 Tutorials per course)and mark entry – for subjects with 4 credits	
12.	IA test Q Paper with Key, sample answer papers (at least 3) and mark entry	✓
13.	IA Test- Performance analysis-evidence-root cause analysis.	✓
14.	Makeup Test –Q paper-Attendance-marks -sample answer papers	✓
15.	Special class/coaching class/remedial class/attendance	
16.	Conduct of Seminar, Quizzes – proof	✓
17.	Content beyond the syllabus – proof	✓
18.	Course end survey	✓
19.	Internal Assessment sheet	✓
20.	AU question paper with students feedback	✓
21.	AU result analysis- Details of arrear students, toppers	✓
22.	AU grade sheet	✓
23.	CO – PO & PSO attainment sheet	✓
	Signature of Course handling faculty	
	Signature of HOD	

	LESSON PLAN	
	Sub Code & Sub Name :CS3451- Introduction to OPERATING YSTEMS **Unit: I** **Branch: IT** **Semester : IV**	**Date:1/2/2023**

COURSE OBJECTIVES:

- To understand the basics and functions of operating systems.
- To understand processes and threads
- To analyze scheduling algorithms and process synchronization.
- To understand the concept of deadlocks.
- To analyze various memory management schemes.
- To be familiar with I/O management and file systems.
- To be familiar with the basics of virtual machines and Mobile OS like iOS and Android.

CourseName: C214 (Introduction to operating systems)

C214.1	co1:Analyze various scheduling algorithms and process
C214.2	CO2 : Explain deadlock prevention and avoidance algorithms.
C214.3	CO3 : Compare and contrast various memory management schemes.
C214.4	CO4 : Explain the functionality of file systems, I/O systems
C214.5	CO5: Understading of Virtualization
C214.6	.CO6 : Compare iOS and Android Operating Systems.

Unit I OPERATING SYSTEMS OVERVIEW 9

Session No	Topics to be covered	Time	Text / Ref	Teaching Method
1	Computer System Overview – Basic Elements, Objectives, functionalities	50m	1,2	BB
2	Operating system -Evolution of Operating System	50m	1,2	BB
3	Computer System Organization	50m	1,2	BB
4	Operating System Structure and Operations	50m	2	BB
5	System Calls – Process Control, File	50m	1	BB

	Management, Device Management, Information Maintenance, Communication, Protection			
6	System Programs , Design and Implementation	50m	1	BB
7	OS Generation and System Boot	50m	1	BB
8	User operating system interface	50m	1	BB

Unit II PROCESS MANAGEMENT **11**

Processes - Process Concept - Process Scheduling - Operations on Processes - Inter-process Communication; CPU Scheduling - Scheduling criteria - Scheduling algorithms: Threads - Multithread Models – Threading issues; Process Synchronization - The Critical-Section problem - Synchronization hardware – Semaphores – Mutex - Classical problems of synchronization - Monitors; Deadlock - Methods for handling deadlocks, Deadlock prevention, Deadlock avoidance, Deadlock detection, Recovery from deadlock.

Session No	Topics to be covered	Time	Text / Ref	Teaching Method
10	Process Concept - The Process, Process State, Process Control Block, Threads Process Scheduling – Scheduling Queues, Schedulers and Context Switch	50m	1,2	BB/PPT
11	Operations on Processes – Process Creation, Process Termination, Inter process Communication – Shared Memory System, Message Passing System, Examples of IPC Systems	50m	1	BB/PPT
12	Threads – Overview, Motivation, Benefits Multi-core Programming, Multithreading Models – Many-to-One model, One-to-One Model, Many-to-Many Model, issues	1 hr 40m	1	BB/PPT
13	Process Synchronization – Background, Critical-section problem, Mutex Locks, Semaphores	1 hr 40m	1,2	BB/PPT
14	Classical Problems of Synchronization, Monitors	50m	1,2	BB/PPT
15	CPU Scheduling- Basic Concepts, CPU-I/O burst cycle, CPU schedulers, Scheduling Criteria, Scheduling Algorithms – FCFS, SJP, Priority, Round Robin, Mult level queue, Multi level feedback queue scheduling	2 hr 30m	1	BB/PPT

16	Thread Scheduling, Multiple Processor Scheduling, Real Time CPU Scheduling	50m	1	BB/PPT
17	Deadlock – System model, Deadlock characterization, Methods for Handling Deadlocks, Deadlock Prevention	1 hr 40m	1,2	BB/PPT
18	Deadlock Avoidance, Deadlock detection, Recovery from Deadlock	50m	1,2	BB/PPT

Unit III Memory MANAGEMENT **9**

Main Memory-Contiguous Memory Allocation, Segmentation, Paging, Virtual Memory- Demand Paging, Page Replacement, Allocation, Thrashing; Allocating Kernel Memory, OS Examples.

Session No	Topics to be covered	Time	Text / Ref	Teaching Method
19	Main Memory, Contiguous Memory Allocation, Memory protection, memory allocation, Fragmentation	50m	1	BB/PPT
20	Segmentation- Method, Segmentation Hardware	50m	1,2	BB/PPT
21	Paging- Page method, Hardware support, Protection, Structure of page table, Shared pages	1 hr 40m	1,2	BB/PPT
22	32 and 64 bit architecture Examples	50m	1	BB/PPT
23	Virtual Memory-Demand Paging	50m	1	BB/PPT
24	Page Replacement- FIFO, Optimal, LRU, Counting based, page buffering	1 hr 40m	1	BB/PPT
25	Allocation of frames – Allocation Algorithms, local versus global replacement, Non-uniform memory access	50m	1	BB/PPT
26	Thrashing- Causes, Working set model, page fault frequency	50m	1	BB/PPT
27	Allocating Kernel Memory OS Examples-Widows, Solaris	50m	1	BB/PPT

Unit IV STORAGE MANAGEMENT 11

Mass Storage Structure- Overview, Disk Scheduling and Management; File System Storage-File Concepts, Directory and Disk

Structure, Sharing and Protection; File System Implementation- File System Structure, Directory Structure, Allocation Methods, Free Space Management; I/O Systems.

Session No	Topics to be covered	Time	Text / Ref	Teaching Method
28	Mass Storage Structure – Overview	50m	1	BB/PPT
29	Disk Scheduling-FCFS,SSTF,SCAN,C-SCAN, Disk Management	1 hr 40m	1,2	BB/PPT
30	File System Storage – File Concept	50m	1	BB/PPT
31	Directory and Disk Structure- Storage Structure, Directory Overview, File System Mounting	50m	1	BB/PPT
32	File Sharing- Multiple Users, Remote File System, Consistency Semantics File Protection – Types of Access, Access Control	1 hr 40m	1	BB/PPT
33	File System Implementation-File System Structure, Directory Structure	50m	1	BB/PPT
34	Allocation Methods-Contiguous, Linked and Indexed	1 hr 40m	1	BB/PPT
35	Free-space management-Bit Vector, List, Grouping, Counting, Space Maps I/O Systems-Overview, I/O Hardware,	1 hr 40m	1	BB/PPT
36	I/O Systems	50m	1	BB/PPT

Unit syllabus: Virtual machines and mobile os

Virtual Machines – History, Benefits and Features, Building Blocks, Types of Virtual Machines and their Implementations, Virtualization and Operating-System Components; Mobile OS - iOS and Android.

Session No	Topics to be covered	Time	Text / Ref	Teaching Method
37	Android os structure	50m	Internet	BB/PPT
38	Working principles and functionalities	50m	Internet	BB/PPT
39	iOS structure	50m	Internet	BB/PPT
40	Virtualization- Basic Concepts	50m	Internet	BB/PPT
41	Setting Up Xen	50m	Internet	BB/PPT
42	VMware on Linux Host and Adding Guest OSVMware	50m	Internet	BB/PPT

Total Hours:53

TEXT BOOK:

1. Abraham Silberschatz, Peter Baer Galvin and Greg Gagne, "Operating System Concepts", 9th Edition, John Wiley and Sons Inc., 2012.

REFERENCES:

2. William Stallings, "Operating Systems – Internals and Design Principles", 7th Edition, Prentice Hall, 2011.
3. Andrew S. Tanenbaum, "Modern Operating Systems", Second Edition, Addison Wesley, 2001.
4. Charles Crowley, "Operating Systems: A Design-Oriented Approach", Tata McGraw Hill Education", 1996.
5. D M Dhamdhere, "Operating Systems: A Concept-Based Approach", Second Edition, Tata McGraw-Hill Education, 2007.
6. http://nptel.ac.in/.

Staff in-charge
Ms.J.Sangeethapriya

H.O.D/IT
Dr.R.Thillaikarasi

SARANATHAN COLLEGE OF ENGINEERING
LESSON PLAN(2022 -2023 ODD)

Sub Code & Name: CD3291 - DATA STRUCTURES AND ALGORITHMS
Branch :IT Semester:III Strength : 60
Staff Name: Ms.N.Bhavani , Associate Professor/ Dept of IT

UNIT I ABSTRACT DATA TYPES

Abstract Data Types (ADTs) – ADTs and classes – introduction to OOP – classes in Python – inheritance – namespaces – shallow and deep copying
Introduction to analysis of algorithms – asymptotic notations – divide & conquer - recursion – analyzing recursive algorithms

Objective: To understand the concepts of ADTs and OOPs

S.No	Topics to be covered	No. Of Periods	Ref	Teaching Method
1	Abstract Data Types, ADTs and classes	1	T1,T2	BB
2	Introduction to OOP	1	T1,T2	BB
3	Classes in Python	2	T1,T2	BB, Python IDLE
4	Inheritance	2	T1,T2	BB, Python IDLE
5	Namespaces , shallow and deep copying	2	T1,T2	BB
6	Introduction to analysis of algorithms, Asymptotic notations	2	T1,T2,R2	BB
7	Divide and Conquer	2	T1,T2	BB
8	Recursion, Analyzing recursive algorithms	2	T1,T2,R2	BB
	Total	14		

UNIT II LINEAR STRUCTURES

List ADT – array-based implementations – linked list implementations – singly linked lists – circularly linked lists – doubly linked lists– Stack ADT – Queue ADT – double ended queues – applications

Objective: To design linear data structures – linked lists, stacks, and queues

S No.	Topics to be covered	No. Of Periods	Ref	Teaching Method
1.	List ADT – Array-based implementation	2	T1,T2	BB
2.	Linked list implementation – singly linked lists	2	T1,T2,R3	BB
3.	Circularly linked lists	1	T1,T2	BB
4.	Doubly linked lists	1	T1,T2	BB
6.	Stack ADT	2	T1,T2,R3	BB
7.	Queue ADT – double ended queues	2	T1,T2,R3	BB
8.	Linked list implementation of stack& Queue	1	T1,T2	BB
9.	Application of list, Stack, Queue	2	T1,T2,R3	BB/ PPT
CBS	Circular queue, Priority Queue	1	T1,T2	BB

	Total	14		

UNIT III SORTING AND SEARCHING

Bubble sort – selection sort – insertion sort – merge sort – quick sort – analysis of sorting algorithms- linear search – binary search – hashing – hash functions – collision handling – load factors, rehashing, and efficiency

Objective: To understand sorting, searching and hashing algorithms

S No.	Topics to be covered	No. Of Periods	Ref	Teaching Method
1.	Bubble sort, selection sort, insertion sort	2	T1,T2,	BB
2.	Merge sort , quick sort	3	T1,T2	BB
3.	Analysis of sorting algorithms	1	T1,T2	BB
4.	Linear search , Binary search	2	T1,T2	PPT
5.	Hashing – hash functions	2	T1,T2	BB
6.	Collision handling – load factors, rehashing, and efficiency	3	T1,T2	BB
	Total	13		

UNIT IV TREE STRUCTURES

Tree ADT – Binary Tree ADT – tree traversals – binary search trees – AVL trees – heaps – multi-way search trees

Objective: To apply Tree structures

S No.	Topics to be covered	No. Of Periods	Ref	Teaching Method
1	Tree ADT – Binary Tree ADT	2	T1,T2,R3	BB
2	Tree traversals	2	T1,T2,R3	PPT
3	Binary search trees	2	T1,T2,R3	BB
4	AVL trees	2	T1,T2,R3	BB
5	Heaps	2	T1,T2,R3	BB
6	Multi- way search trees	2	T1,T2	BB
	Total	12		

UNIT V GRAPH STRUCTURES Graph ADT – representations of graph – graph traversals – DAG – topological ordering – shortest paths – minimum spanning trees

Objective: To apply Graph structures

S No.	Topics to be covered	No. Of Periods	Ref	Teaching Method
1.	Graph ADT, Representations of graph	2	T1,T2,R3	PPT
2.	Graph traversals	1	T1,T2,R3	PPT
3.	DAG , topological ordering	2	T1,T2,R3	BB
4.	Shortest paths	3	T1,T2,R3	BB
5.	Minimum spanning trees	3	T1,T2,R3	BB
6.	Introduction to complexity classes and intractability	2	T1,T2,R3	BB
	Total	13		

Content beyond syllabus: Circular & Priority Queue (Unit-2)
Total periods: 66

COURSE OUTCOMES:

At the end of the course, the student should be able to:

- Explain abstract data types
- Design, implement, and analyse linear data structures, such as lists, queues, and s according to the needs of different applications
- Design, implement, and analyse efficient tree structures to meet requirements searching, indexing, and sorting
- Model problems as graph problems and implement efficient graph algorithms to sol

TEXT BOOKS:

1. Michael T. Goodrich, Roberto Tamassia, and Michael H. Goldwasser, "Data Stru Algorithms in Python" (An Indian Adaptation), Wiley, 2021.
2. Lee, Kent D., Hubbard, Steve, "Data Structures and Algorithms with Python" Sp Edition 2015.arasimha Karumanchi, "Data Structures and Algorit Thinking with Python"Careermonk, 2015.

REFERENCES:

1. Rance D. Necaise, "Data Structures and Algorithms Using Python", John W 2011.
2. Thomas H. Cormen, Charles E. Leiserson, Ronald L. Rivest, and Clifford "Introduction to Algorithms", Third Edition, PHI Learning, 2010.
3. Mark Allen Weiss, "Data Structures and Algorithm Analysis in C++", Fourth Pearson Education, 2014
4. Aho, Hopcroft, and Ullman, "Data Structures and Algorithms", Pearson Ed 2002.

Staff in charge

HoD

SARANATHAN COLLEGE OF ENGINEERING
(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

ASSIGNMENT - 1

NAME : B. Ramya

BATCH NO : 240442

COURSE : B.Tech IT

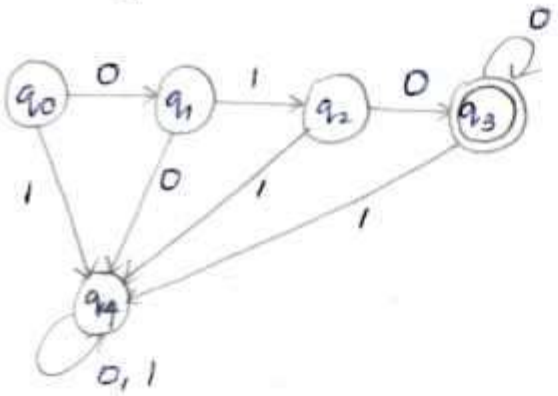
COURSE CODE: CS3452 - Theory of computation

YEAR/SEC : II / "A"

CONTENT (6)	SUBMISSION (2)	PRESENTATION (2)	TOTAL (10)	STAFF SIGNATURE
6	2	2	10	R.Thil

nstruct a DFA for

$= \{01^n / n>=1\}$



	0	1
	q_1	q_4
	q_4	q_2
	q_3	q_4
	q_3	q_4
	q_4	q_4

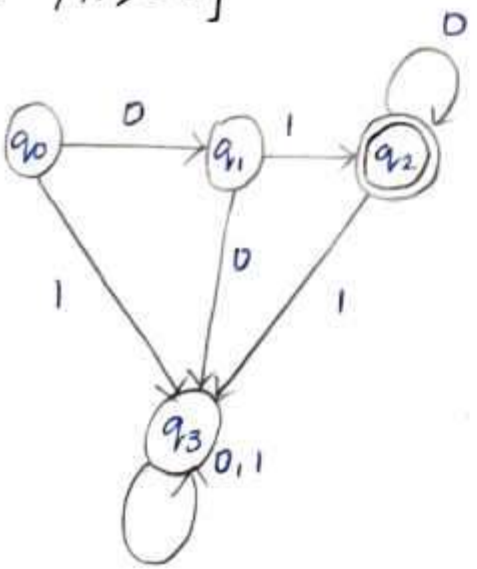
$Q = \{q_0, q_1, q_2, q_3, q_4\}$

$\Sigma = \{0, 1\}$

$q_0 = \{q_0\}$

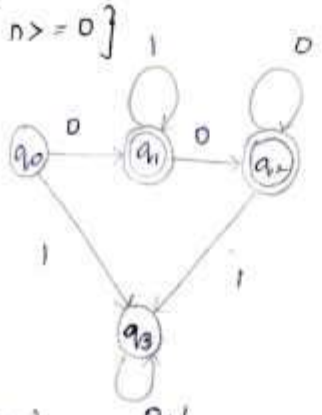
$F = \{q_3\}$

$10^n / n>=0\}$



$Q = \{q_0, q_1, q_2, q_3\}$

3. $L = \{01^n0^n / n >= 0\}$



$Q = \{q_0, q_1, q_2, q_3\}$

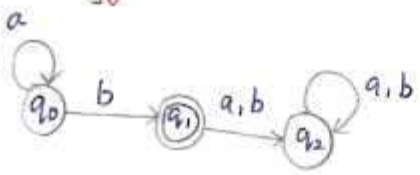
$\Sigma = \{0, 1\}$

$q_0 = \{q_0\}$

$F = \{q_1, q_2\}$

δ	0	1
q_0	q_1	q_3
* q_1	q_2	q_1
* q_2	q_2	q_3
q_3	q_3	q_3

4. $L = \{a^n b / n >= 0\}$



δ	a	b
q_0	q_0	q_1
* q_1	q_2	q_2
q_2	q_2	q_2

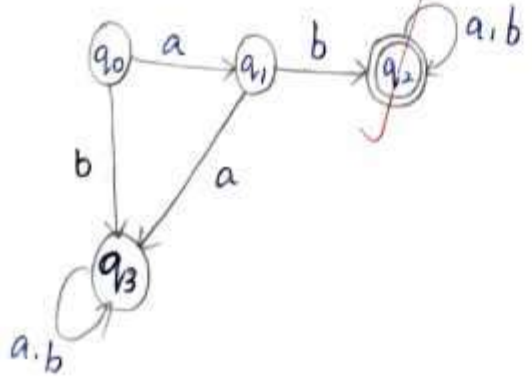
$Q = \{q_0, q_1, q_2\}$

$\Sigma = \{a, b\}$

$q_0 = \{q_0\}$

$F = \{q_1\}$

5. $L = \{w / w \in \{a,b\}^*, w$ starts with $ab\}$



$Q = \{q_0, q_1, q_2, q_3\}$

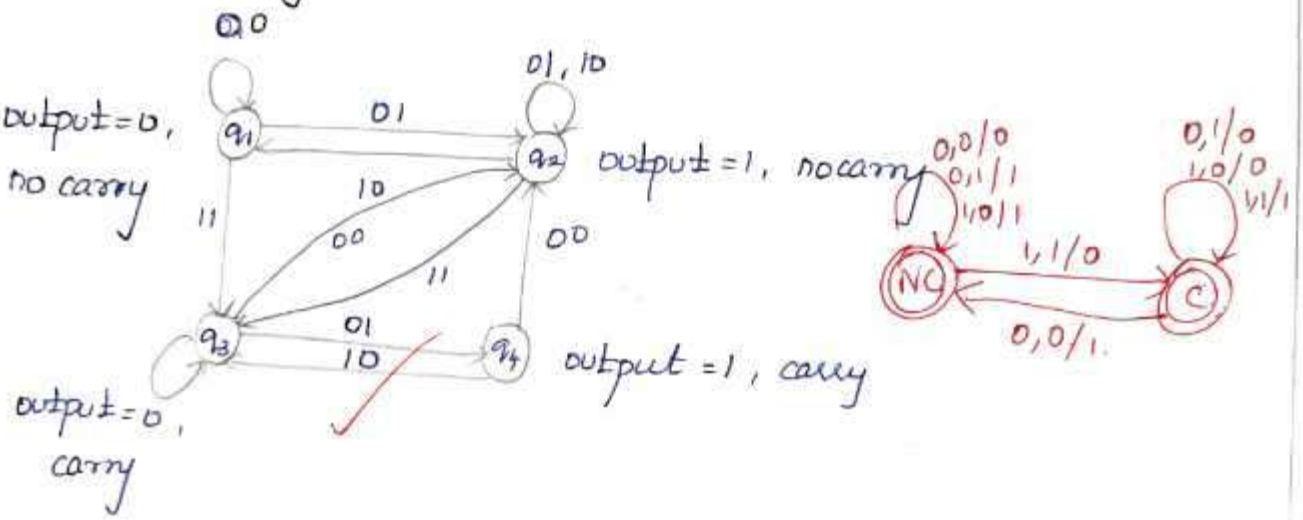
$\Sigma = \{a, b\}$

$q_0 = \{q_0\}$

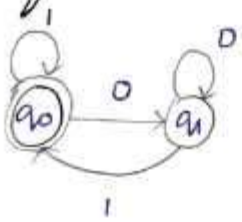
$F = \{q_2\}$

δ	a	b
q_0	q_1	q_3
q_1	q_3	q_3
* q_2	q_2	q_2
q_3	q_3	q_3

6. FA for binary adder:



7. Design FA for check whether given binary number is odd.



$D = \{q_0, q_1\}$

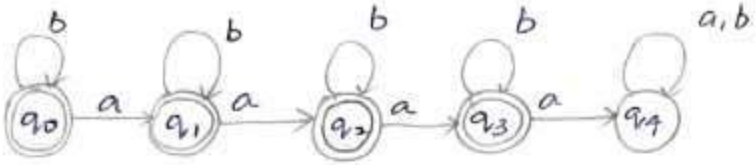
$\Sigma = \{0, 1\}$

$q_0 = \{q_0\}$

$F = \{q_0\}$

δ	0	1
* q_0	q_1	q_0
q_1	q_1	q_0

8. $L = \{w / w \in (a,b)^*$, Where total no. of a's is not more than 3$\}$



$Q = \{q_0, q_1, q_2, q_3, q_4\}$

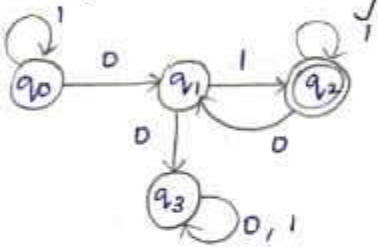
$\Sigma = \{0,1\}$

$q_0 = \{q_0\}$

$F = \{q_0, q_1, q_2, q_3\}$

δ	a	b
* q_0	q_1	q_0
* q_1	q_2	q_1
* q_2	q_3	q_2
* q_3	q_4	q_3
q_4	q_4	q_4

9. $L = \{w / w \in \{0,1\}^*$ where every 0 in w is followed by 1$\}$.



$Q = \{q_0, q_1, q_2, q_3\}$

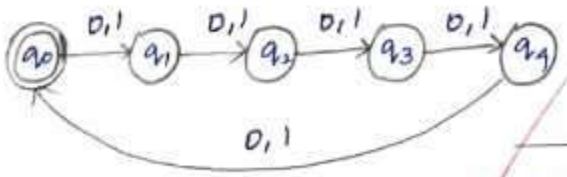
$\Sigma = \{0,1\}$

$q_0 = \{q_0\}$

$F = \{q_2\}$

δ	0	1
q_0	q_1	q_0
q_1	q_3	q_2
* q_2	q_1	q_2
q_3	q_3	q_3

10. $L = \{w / w \in (0,1)^*, |w| \bmod 5 = 0\}$



$Q = \{q_0, q_1, q_2, q_3, q_4\}$

$\Sigma = \{0,1\}$

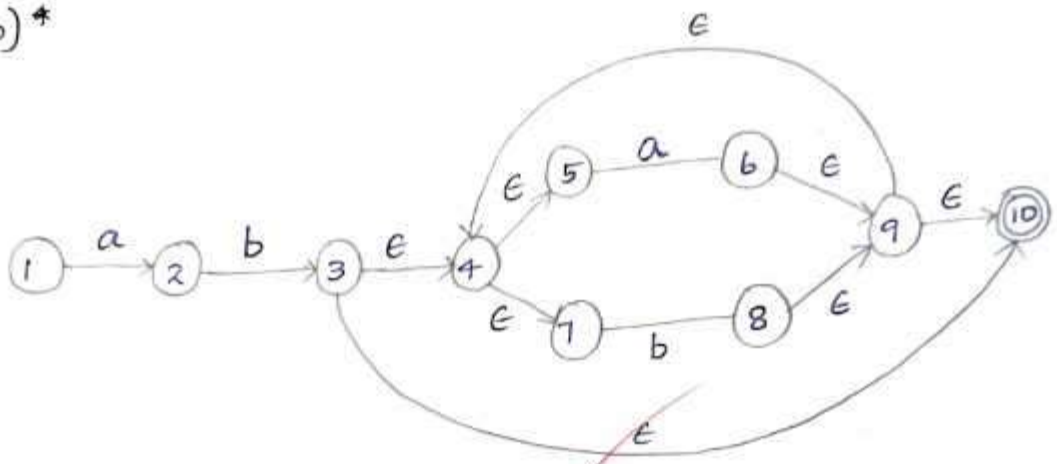
$q_0 = \{q_0\}$

$F = \{q_0\}$

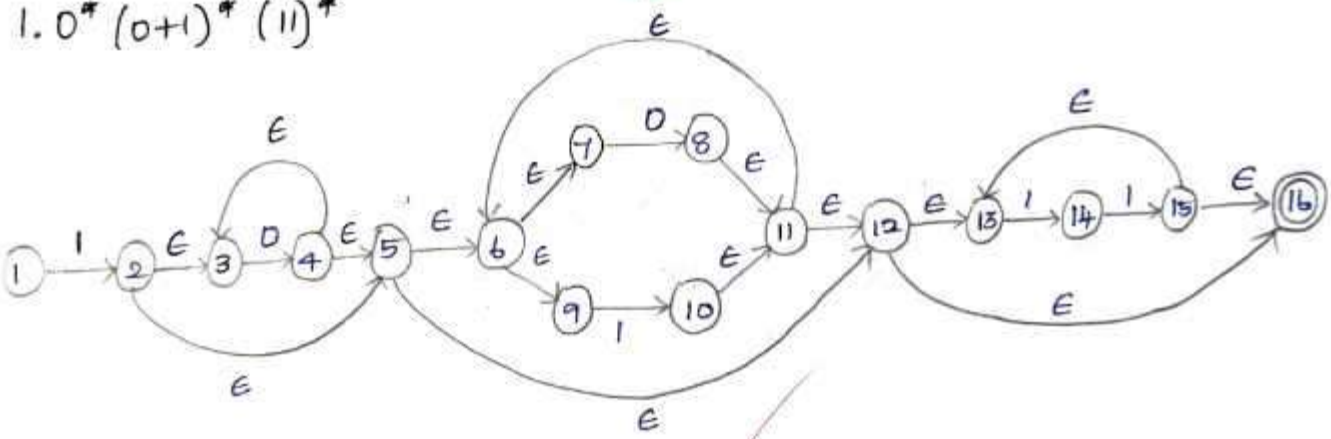
δ	0	1
* q_0	q_1	q_4
q_1	q_2	q_2
q_2	q_3	q_3
q_3	q_4	q_4
q_4	q_1	q_1

Construct a ENFA for

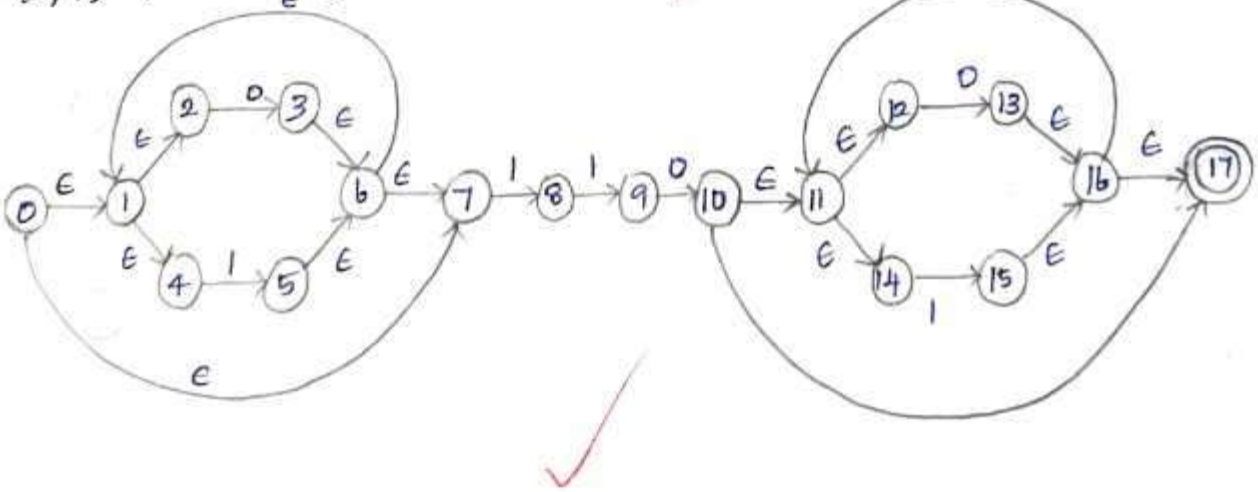
1. $ab(a+b)^*$



2. $1.0^*(0+1)^*(11)^*$

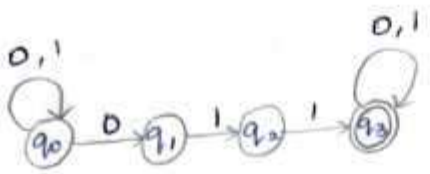


3. $(0/1)^*(110(0/1)^*)$



Construct NFA for

1) $L = \{w / w \in (0,1)^*$, Where w Contains 011 as a Substring



δ	0	1
q_0	$\{q_0, q_1\}$	q_0
q_1	ϕ	q_2
q_2	ϕ	q_3
* q_3	q_3	q_3

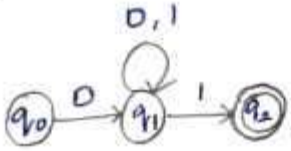
$Q = \{q_0, q_1, q_2, q_3\}$

$\Sigma = \{0, 1\}$

$q_0 = \{q_0\}$

$F = \{q_3\}$

2) Language over the alphabet $\{a, b\}$ that has the set of all strings begins with 0 and ends with 1.



δ	0	1
q_0	q_1	ϕ
q_1	q_1	$\{q_1, q_2\}$
* q_2	ϕ	ϕ

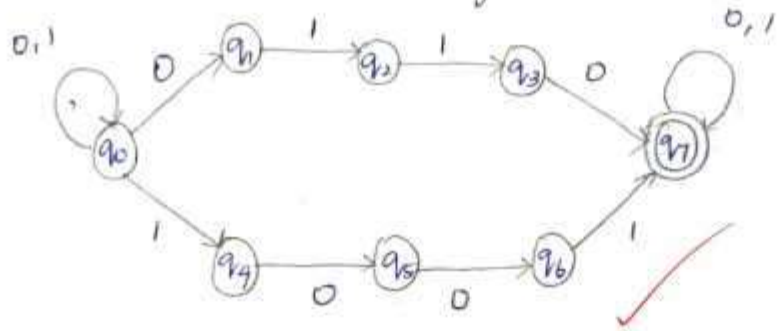
$Q = \{q_0, q_1, q_2\}$

$\Sigma = \{0, 1\}$

$q_0 = \{q_0\}$

$F = \{q_2\}$

3) Language over the alphabet {0,1} that contains either 0110 or 1001 as a substring.



δ	0	1
q_0	$\{q_0, q_1\}$	$\{q_0, q_4\}$
q_1	ϕ	q_2
q_2	ϕ	q_3
q_3	q_7	ϕ
q_4	q_5	ϕ
q_5	q_6	ϕ
q_6	ϕ	q_7
* q_7	q_7	q_7

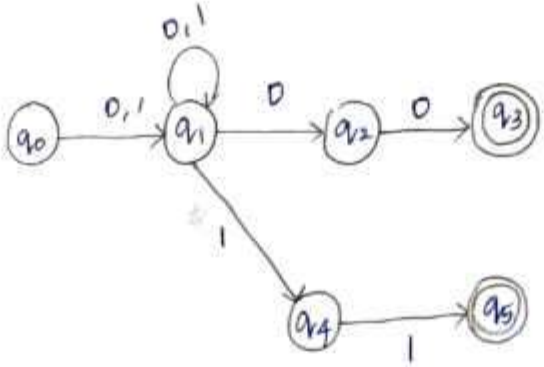
$Q = \{q_0, q_1, q_2, q_3, q_4, q_5, q_6, q_7\}$

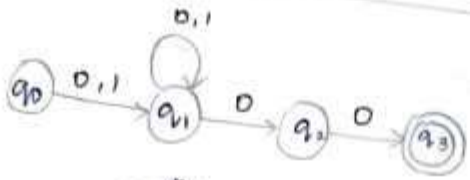
$\Sigma = \{0, 1\}$

$q_0 = \{q_0\}$

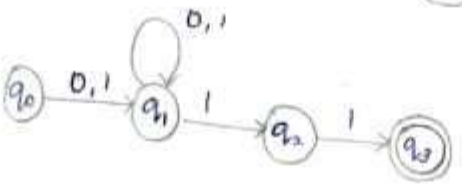
$F = \{q_7\}$

4. $L = \{w / w \in (0,1)^*$ Where w ends with either 00 or 11$\}$





(or)



δ	0	1
q_0	q_1	q_1
q_1	$\{q_1, q_2\}$	q_1
q_2	q_3	ϕ
* q_3	ϕ	ϕ

$Q = \{q_0, q_1, q_2, q_3\}$

$\Sigma = \{0, 1\}$

$q_0 = \{q_0\}$

$F = \{q_3\}$

δ	0	1
q_0	q_1	q_1
q_1	q_1	$\{q_1, q_2\}$
q_2	ϕ	q_3
* q_3	ϕ	ϕ

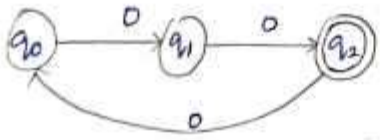
$Q = \{q_0, q_1, q_2, q_3\}$

$\Sigma = \{0, \}$

$q_0 = \{q_0\}$

$F = \{q_3\}$

5. $L = \{0^n / n \bmod 3 = 2\}$



δ	0
q_0	q_1
q_1	q_2
* q_2	q_0

$Q = \{q_0, q_1, q_2\}$

$\Sigma = \{0\}$

$q_0 = \{q_0\}$

$F = \{q_2\}$

SARANATHAN COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

DEPARTMENT OF INFORMATION TECHNOLOGY

Assignment – 2			Date of Issue: 6/3/23	Marks 10	
Course code	CS 8052	Course Title	Computer graphics & multimedia		
Year	III	Semester/Section	6th / A	Date of Submission:	15/3/23

Q.No	Questions	CO
1.	Implement line & circle drawing Algorithms using programming language	CO1 4.2

6/3

Name and Signature of the Faculty in charge

HoD/IT

T. Sayeethyanji

AP/IT

NAME : PRAGADEESH RAM.S

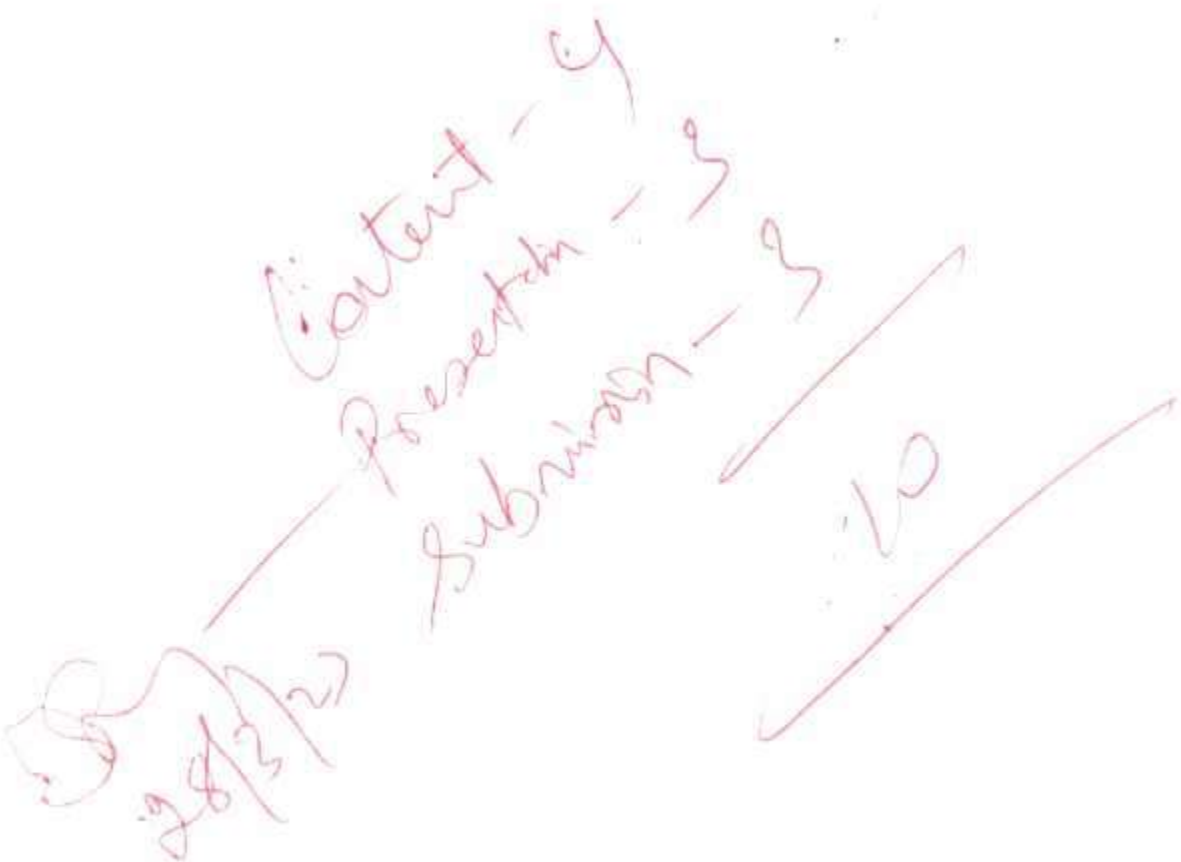
BATCH_NO : 234026

BRANCH : INFORMATION TECHNOLOGY

SUB_CODE : CS8092

SUB_NAME : COMPUTER GRAPHICS & MULTIMEDIA

ASSIGNMENT : DDA & BRESENHAM'S LINE DRAWING ALGORITHM



DDA Line Drawing Algorithm

Python program :-

```
import matplotlib.pyplot as plt
def DDALine(x1, y1, x2, y2, color):
    dx = x2 - x1
    dy = y2 - y1
    steps = abs(dx) if abs(dx) > abs(dy) else abs(dy)
    xinc = float(dx/steps)
    yinc = float(dy/steps)
    For i in range(0, int(steps+1)):
        Plt.plot(int(x1), int(y1), color)
        x1 += xinc
        y1 += yinc
    Plt.show()
def main():
    x = int(input("Enter x1 : "))
    y = int(input("Enter y1 : "))
    xEnd = int(input("Enter x2 : "))
    yEnd = int(input("Enter y2 : "))
    color = "r."
    DDALine(x, y, xEnd, yEnd, color)
if __name__ == '__main__':
    main()
```

Enter x_1 : 1
Enter y_1 : 1
Enter x_2 : 6
Enter y_2 : 7



Bresenham's line drawing Algorithm

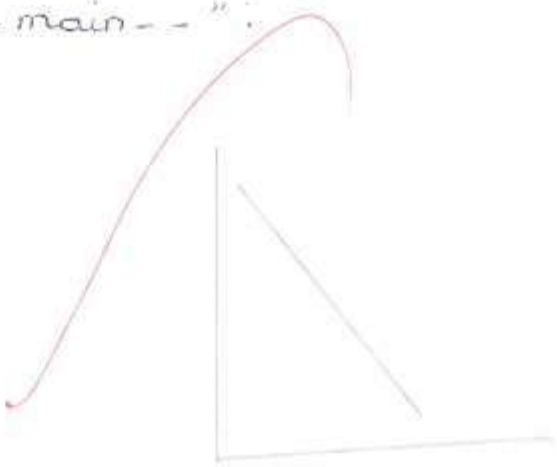
Python Program:

```
From graphics import *
import time
def BresenhamLine (x1, x2, y1, y2):
    dx = abs(x2 - x1)
    dy = abs(y2 - y1)
    Slope = dy/float(dx)
    x1,y = x1, y1
    win = GraphWin('Bresenham Line', 6
    if slope > 1:
        dx, dy = dy, dx
        x1, y = y1, x1
        x1, y1 = y1, x1
        x2, y2 = y2, x2
    P = 2* dy - dx
    PutPixel (win, x, y)
    for k in range (2, dx):
        if P > 0:
            x = x+1 if y1 < y2 else x-1
            P = P
```

```
y = x+1 if x < x2 else x-1
time.sleep(0.01)
print(x, y)
PutPixel(win, x, y)
win.getMouse()
win.close()
def PutPixel(win, x, y):
    """ Plot A Pixel In the Windows At Point(x, y)"""
    pt = Point(x, y)
    pt.draw(win)
def main():
    x1 = int(input("Enter x1: "))
    y1 = int(input("Enter y1: "))
    x2 = int(input("Enter x2: "))
    y2 = int(input("Enter y2: "))
    BresenhamLine(x1, y1, x2, y2)
if __name__ == "__main__":
    main()
```

output

```
Enter x1: 100
Enter y1: 100
Enter x2: 400
Enter y2: 400
```



Midpoint Circle Drawing Algorithm

```
Python Program
From graphics import *
import time
def MidpointCircleDraw(x_centre, y_centre, r):
```

```
win = GraphWin('BresenhamLine', 100, 100)
x = r
y = 0
Printf("(", x + x_centre, ", ", y + y_centre, ")")
if (r > 0)
    Printf("(", x + x_centre, ", ", -y + y_centre, ")")
    Printf("(", y + x_centre, ", ", x + y_centre, ")")
    Printf("(", -y + x_centre, ", ", x + y_centre, ")")
P = 1 - r
while x > y:
    y+ = 1
    if P2 = 0:
        P = P + 2 * y + 1
    else:
        x- = 1
        P = P + 2 * y - 2 * x + 1
    if (x < y):
        break
X1 = x + x_centre
Y1 = y + y_centre
X2 = x + x_centre
Y2 = y + y_centre
X3 = x + x_centre
Y3 = -y + y_centre
X4 = -x + x_centre
Y4 = -y + y_centre
PutPixel
PutPixel
```

```
PutPixel (win, x3, y3)
PutPixel (win, x4, y4)
Print("(", x1, ",", y1, ")", step=" ", end=" ")
Print("(", x2, ",", y2, ")", step=" ", end=" ")
Print("(", x3, ",", y3, ")", step=" ", end=" ")
Print("(", x4, ",", y4, ")", step=" ")
if x1 = y:
    x1 = y + x_centre
    y1 = x + y_centre
    x2 = -y + x_centre
    y2 = x + y_centre
    x3 = y + x_centre
    y3 = -x + y_centre
    x4 = -y + x_centre
    y4 = -x + y_centre
    PutPixel (win, x1, y1)
    PutPixel (win, x2, y2)
    PutPixel (win, x3, y3)
    PutPixel (win, x4, y4)
    Print("(", x1, ",", y1, ")", step=" ", end=" ")
    Print("(", x2, ",", y2, ")", step=" ", end=" ")
    Print("(", x3, ",", y3, ")", step=" ", end=" ")
    Print("(", x4, ",", y4, ")", step=" ")
when getMouse()
win.close()
def PutPixel(win, x, y):
    pt = Point(x, y)
    pt = draw(win)
if __name__ == '__main__':
    x, y = map(int, input("Enter centre coordinates: ").split())
```

```
r = int(input("Enter radius "))
midpointCircleDraw(x, y, r)
```

Output

```
Enter Center Coordinates : 200 200
Enter radius : 50
```

Bresenham's Circle Drawing Algorithm

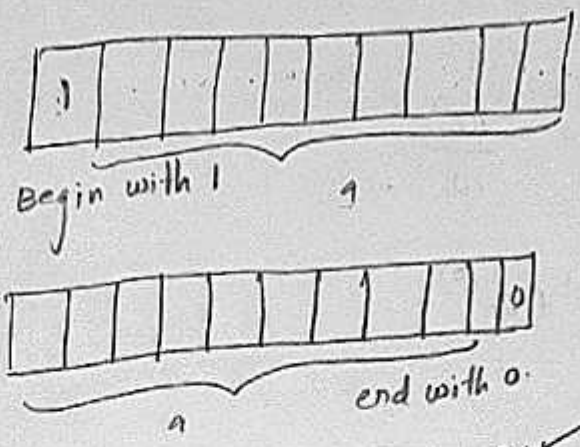
Python Program

```
import pygame
def bresenham_circle(surface, x0, y0, radius,
    x = 0
    y = radius
    d = 3 - 2 * radius
    draw_circle_points(surface, x0, y0, x,
    while y >= x
        x += 1
        if d > 0
            y -= 1
            d = d + 4 * (x - y) + 10
        else
            d = d + 4 * x + 6
        draw_circle_points(surface, x0, y0, x,
def draw_circle_points(surface, x0, y0, x, y
    pygame.draw.rect(surface, color, (x0+x,
    pygame.draw.rect(surface, color, (x0
    pygame.draw.rect(surface, color, (y0+x,
    pygame.draw.rect(surface, color, (x0-x,
    pygame.draw.rect(surface, color, (x0
    pygame.draw.rect(surface, color, (x0-y,
    pygame.draw.rect(surface, color, (x
```

Pygame.draw.rect(surface, color, (x0, y0, x1, y1))

```
pygame.init()
screen = pygame.display.set_mode((800, 600))
screen.fill((255, 255, 255))
bresenham_circle(screen, 400, 300, 100, (0, 0, 0))
pygame.display.flip()
while True:
    for event in pygame.event.get():
        if event.type == pygame.QUIT:
            pygame.quit()
            sys.exit()
```

Output



either begin with 1 or end with 0 $= 2^9 + 2^9$

$= 1024$

2. They can 5 men & 5 women sit around a table.

$= (5-1)! \times 5!$

$= 4! \times 5!$

$= 2880$ ways

3. five different job to four different employee.
if every employee is assign atleast one job.

$= {}^4C_1 + {}^4C_2 + {}^4C_3 + {}^4C_4$

$= 15$ ways

4. MATHEMATICS :- 39916800

Total no. of Letters : 11

Repetition :-

M - 2

A - 2

T - 2

$= \frac{11!}{2!2!2!} = 4989600$ words.

$a_n - 8a_{n-1} = \frac{10^n}{10}$

$a_n = a_n^{(h)} + a_n^{(p)}$

$a_n^{(h)}$

$a_n^{(h)} = r^n$

order : 1

$r - 8 = 0$

$r = 8$

$a_n^{(h)} = k_1(8)^n$

To find $a_n^{(p)}$

$a_n^{(p)} = A_0(10)^n$

$A_0 10^n - 8A_0 10^{n-1} = \frac{10^n}{10}$

$A_0 10^n - \frac{8A_0 10^n}{10} = \frac{10^n}{10}$

$\frac{10A_0 10^n - 8A_0 10^n}{10} = \frac{10^n}{10}$

$10A_0 10^n - 8A_0 10^n = 10^n$

Coefficients of 10^n

$a_n^{(p)} = \frac{1}{2}(10)^n$

$a_n = a_n^{(h)} + a_n^{(p)}$

$a_n = k_1(8)^n + \frac{1}{2}(10)^n$

put $n=0$

$a_0 = k_1(8)^0 + \frac{1}{2}(10)^0$

$1 = k_1 + \frac{1}{2}$

$k_1 = 1 - \frac{1}{2}$

$\boxed{k_1 = \frac{1}{2}}$

$\boxed{a_n = \frac{1}{2}(8^n) + \frac{1}{2}(10^n)}$

2. $a_n - 7a_{n-1} + 6a_{n-2} = 0$, $a_0 = 8$, $a_1 = 6$

This is homogeneous.

order: 2 $a_n^{(h)} = r^n$

$r^2 - 7r + 6 = 0$

$r = 1, 6$

$a_n^{(h)} = k_1(1)^n + k_2(6)^n$

$a_n = k_1(1)^n + k_2(6)^n$

put $n=0$

$a_0 = k_1 + k_2$

$a_0 = k_1 + k_2$ ——— (1)

$a_1 = k_1(1)^1 + k_2(6)$

$6 = k_1 + 6k_2 \rightarrow (2)$

$k_1 = \frac{42}{5}, \quad k_2 = -2/5$

$$\boxed{a_n = \frac{42}{5}(1)^n - \frac{2}{5}(6)^n}$$

3. i) They can be men or women :- $(6+5)\,11$

Four person can be drawn from the room $= {}^{11}C_4$

$= 330$ ways

ii) Two must be men & Two must be women

$= {}^6C_2 \times {}^5C_2$

$= 150$ ways

iii) They must be all of the same :-

$= {}^6C_4 \times {}^5C_0 + {}^6C_0 \times {}^5C_4$

$= 15 + 5$

$= 20$ ways.

29/9/2022
V. good.

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPALLI - 620 012.

Date: 10.08.2023

Ref : SCE/Syllabus/ Theory/2022-23 - Even sem/

STATEMENT FOR SYLLABUS COMPLETION

I have handled the subject Programming in C . code CS3251 for I year, II semester, department of IT B.E/B.Tech/~~MBA~~ during the academic year 2018 – 19, even semester.

In this regard, I confirm , that I have taught all the topics mentioned in the syllabus, and took lectures for 76 periods, revised syllabus for 5 periods and discussed the Anna University Examination question papers of the last 2 years.

Signature :

Name : K. Muthukarupaee

Designation : Assistant Professor

Department : Information Technology

Date : 10.8.2023

Signature of HoD : 10/8/23

Principal :

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPALLI - 620 012.

Date: 10.08.2023

Ref : SCE/Syllabus/Laboratory/2022-23- Even sem/

CS3271 - C Programming Lab

STATEMENT FOR LABORATORY EXPERIMENT COMPLETION

I hereby affirm that all the experiments listed in the next page, have been actually performed by the students as part of the prescribed course work by Anna University (mention details). In cases where the experiments could not be conducted, the same has been listed separately with reasons.

I confirm that the experiments were done by me in the beginning of this semester, and the readings were recorded.

I confirm that the students submitted the laboratory record of the experiments performed by them, and that I have also corrected them every week and awarded appropriate marks. I also confirm that the completed laboratory record was submitted by each student.

Signature :

Name : K. Muthukaruppaee

Designation : Assistant Professor

Department : IT

Signature :

Name : S. Angel Swee Sheeba

Designation : Assistant Professor

IT.

Signature of HoD : R. Thilagam 10/8/23

Principal :

Note: List of the students who have not got bonafide, if any, to be enclosed.

SARANATHAN COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

DEPARTMENT OF INFORMATION TECHNOLOGY

Faculty Feedback Report (SEP/NOV 2022) based Counselling Report

07.11.2022

IV year: Feedbacks of all the four staff members are satisfactory. They scored above 75%. They are encouraged to give their best to the students.

III year: Ms. G. Sathya has improved his feedback score from 75% to 82% and she is highly appreciated for that. Feedbacks of all other staff members are good (above 85%) and they are appreciated for their effort.

II year: In fourth semester, all staff members have received feedback of above 75% and they are encouraged to give their best to the students.

Ms. N. Bhavani, A. Sheelavathi, Ms G.Sathya and Mr. V. Senthilbalaji are handling subjects for allied departments. Except Ms.G.Sathya, all have received a feedback of above 75%. Ms. G.Sathya, after receiving advise, improved a lot and hence her second feedback increased to 73%. All the staff members are encouraged to give their best to the students to improve their skills.

R. Thill

HoD/IT

Principal

Scanned with CamScanner

SARANATHAN COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

DEPARTMENT OF INFORMATION TECHNOLOGY

Faculty Feedback Report (APR/MAY 2023) based Counselling Report

03.05.2023

III year: Feedback for all the staff members is satisfactory. Ms. J. Sangeethapriya and Ms. M. Padamapriya have scored above 90% and they are appreciated for their effort. Ms. A. Sheelavathi, Mr. A. Anand and Mr. R. Rengaraj have received feedback above 80% and they are appreciated for their effort. Ms. N. Bhavani has received a feedback score of 77%.

II year: In the fourth semester, the feedback scores of all the staff members were satisfactory and they scored above 75%.

I year: Ms. K. Muthukarupaee has a feedback score of 83% and she is encouraged to give their best to the students. Ms. Thenmozhi and Ms. Angel Sweety Sheba have received 72% and 62% of feedback for Tamil Paper.

Mr. Senthil Balaji handled the data structures paper for the III-year ICE and received 88% of the feedback. All the faculty members are appreciated for their effort to improve the skills of the students.

HoD/IT

Principal

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Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23EVEN** Semester : **6** Programme: **B.E/B.Tech (IT)**
Subject Code : **CS8091** NBA Code : **C313** Title **BIG DATA ANALYTICS**
Faculty: Mr.P.Anand

Cos	CO Description	Attained Level	%
C313.1	Know the fundamental concepts of big data and analytics	2.49	83.00
C313.2	Explore clustering and classification tools and practices for working with big data	2.49	83.00
C313.3	Understand the association methods for working with big data	2.47	82.33
C313.4	Know the fundamental concepts of Recommendation systems	2.45	81.67
C313.5	Learn about stream computing	2.43	81.00
C313.6	Explain about NO SQL data management for big data and visualization	2.53	84.33

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 49

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
234001	CS8091	3	2	2	3	3	2	20/09/2023	IT	6
234002	CS8091	3	2	3	2	3	3	20/09/2023	IT	6
234003	CS8091	2	2	2	3	3	3	20/09/2023	IT	6
234004	CS8091	3	2	2	3	2	3	20/09/2023	IT	6
234005	CS8091	2	3	3	2	3	3	20/09/2023	IT	6
234006	CS8091	2	3	3	2	2	2	20/09/2023	IT	6
234007	CS8091	2	3	2	3	2	3	20/09/2023	IT	6
234008	CS8091	3	3	3	3	2	3	20/09/2023	IT	6
234009	CS8091	2	3	2	2	2	3	20/09/2023	IT	6
234010	CS8091	2	3	2	3	3	3	20/09/2023	IT	6
234011	CS8091	3	3	2	3	2	2	20/09/2023	IT	6
234012	CS8091	2	2	2	2	2	3	20/09/2023	IT	6
234013	CS8091	3	2	2	2	2	2	20/09/2023	IT	6
234014	CS8091	2	2	3	2	3	3	20/09/2023	IT	6
234015	CS8091	2	2	2	3	3	2	20/09/2023	IT	6
234016	CS8091	2	3	3	2	2	3	20/09/2023	IT	6
234017	CS8091	2	2	2	2	2	2	20/09/2023	IT	6
234018	CS8091	2	3	2	2	2	3	20/09/2023	IT	6
234019	CS8091	2	2	3	3	3	2	20/09/2023	IT	6
234020	CS8091	3	3	2	2	2	2	20/09/2023	IT	6
234021	CS8091	2	3	3	2	3	2	20/09/2023	IT	6
234022	CS8091	3	3	3	2	2	2	20/09/2023	IT	6

234023	CS8091	3	3	2	3	3	3	20/09/2023	IT	6
234024	CS8091	3	2	3	2	3	2	20/09/2023	IT	6
234025	CS8091	2	2	2	2	3	3	20/09/2023	IT	6
234026	CS8091	3	2	2	3	2	3	20/09/2023	IT	6
234027	CS8091	3	2	2	3	2	3	20/09/2023	IT	6
234028	CS8091	3	3	2	2	3	2	20/09/2023	IT	6
234029	CS8091	2	3	2	2	3	2	20/09/2023	IT	6
234030	CS8091	2	2	2	2	2	2	20/09/2023	IT	6
234031	CS8091	3	2	3	3	3	3	20/09/2023	IT	6
234032	CS8091	3	2	2	2	2	3	20/09/2023	IT	6
234033	CS8091	3	2	3	3	3	2	20/09/2023	IT	6
234034	CS8091	3	2	3	2	3	2	20/09/2023	IT	6
234035	CS8091	2	2	2	3	2	2	20/09/2023	IT	6
234036	CS8091	3	3	3	2	3	2	20/09/2023	IT	6
234037	CS8091	2	3	3	3	2	3	20/09/2023	IT	6
234038	CS8091	3	2	3	2	2	3	20/09/2023	IT	6
234040	CS8091	3	3	3	3	3	3	20/09/2023	IT	6
234041	CS8091	3	2	3	2	2	3	20/09/2023	IT	6
234042	CS8091	2	2	2	3	2	3	20/09/2023	IT	6
234043	CS8091	2	3	3	3	2	3	20/09/2023	IT	6
234044	CS8091	2	3	2	2	2	2	20/09/2023	IT	6
234045	CS8091	2	2	3	3	2	2	20/09/2023	IT	6
234046	CS8091	2	3	3	2	2	3	20/09/2023	IT	6
234047	CS8091	2	3	3	3	3	2	20/09/2023	IT	6
234048	CS8091	3	2	3	2	3	2	20/09/2023	IT	6
234049	CS8091	3	3	2	3	2	2	20/09/2023	IT	6
234050	CS8091	3	3	2	2	2	3	20/09/2023	IT	6
Attained Level		2.49	2.49	2.47	2.45	2.43	2.53			
%		83.00	83.00	82.33	81.67	81.00	84.33			

Date: 22.08.2022

REVISED

CENTRE FOR ACADEMIC COURSES

ANNA UNIVERSITY: : CHENNAI – 600 025

ACADEMIC SCHEDULE FOR NON-AUTONOMOUS AFFILIATED COLLEGES

August 2022 – December 2022 (Semester III)

UG (FT/PT) & PG (FT/PT) Degree Programmes

Sl. No.	Programme	Semester	Commencement of Classes	Last working day	Commencement of Practical Examinations	Commencement of End Semester Examinations
1.	B.E. / B.Tech.(Full-Time)	III	22.08.2022	08.12.2022	10.12.2022	21.12.2022
2.	B.Arch. (Full-Time)	III				
3.	B.E. / B.Tech (Part-Time)	III				
4.	M.B.A. (5 Yrs-Integrated)	III				
5.	M.B.A. (Full-Time & Part-Time)	III	01.09.2022	19.12.2022	21.12.2022	02.01.2023

RE - OPENING DAY FOR THE NEXT SEMESTER: 30.01.2023 (Monday)

NOTE:

1. The Theory and Practical Examination schedules will be published in due course (Practical Examinations will be conducted before the theory examinations).
2. If necessary, loss of classes due to various curricular / co-curricular activities of the department / college may be compensated by conducting classes on Saturdays.

22/08/2022

DIRECTOR
ACADEMIC COURSES

DAC - SB

Date: 21.07.2022

CENTRE FOR ACADEMIC COURSES

ANNA UNIVERSITY: : CHENNAI – 600 025

ACADEMIC SCHEDULE FOR NON AUTONOMOUS AFFILIATED COLLEGES

August 2022 – December 2022 (ODD SEMESTER – Except Semester III)

UG Programmes

Sl. No.	Programme	Semester	Commencement of Classes	Last working day	Commencement of Practical Examinations	Commencement of End Semester Examinations
1.	B.E. / B.Tech.(Full-Time)	V, VII	10.08.2022	19.11.2022**	21.11.2022	01.12.2022
2.	B.E. / B.Tech (Part-Time)	V, VII				
3.	B.Arch. (Full-Time)	V, VII, IX				

RE - OPENING DAY FOR THE NEXT SEMESTER: 26.12.2022 (Monday)

NOTE:

1. The Theory and Practical Examination schedules will be published in due course (Practical Examinations will be conducted before the theory examinations).
2. If necessary, loss of classes due to various curricular / co-curricular activities of the department / college may be compensated by conducting classes on Saturdays.

**** In order to ensure minimum no. of working days, the following Saturdays are declared as working days.**

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
1.	20.08.2022	Monday
2.	03.09.2022	Friday
3.	17.09.2022	Wednesday
4.	15.10.2022	Tuesday

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
5.	29.10.2022	Wednesday
6.	05.11.2022	Monday
7.	12.11.2022	Tuesday
8.	19.11.2022	Wednesday

21.07.2022

DIRECTOR
ACADEMIC COURSES

Date: 30.03.2023

REVISED

CENTRE FOR ACADEMIC COURSES

ANNA UNIVERSITY: : CHENNAI – 600 025

ACADEMIC SCHEDULE FOR NON-AUTONOMOUS AFFILIATED COLLEGES

February 2023 – June 2023 (Even Semester – Except Semester II)

UG / PG (FT/PT) Degree Programmes

Sl. No.	Programme	Semester	Commencement of Classes	Last working day		Commencement of Practical Examinations		Commencement of End Semester Examinations	
				Existing	Revised	Existing	Revised*	Existing	Revised*
1.	B.E. / B.Tech.(Full-Time)	IV,VI	06.02.2023	12.05.2023	24.05.2023***	15.05.2023	26.05.2023	26.05.2023	05.06.2023
2.	B.E. / B.Tech.(Full-Time)	VIII	06.02.2023	12.05.2023**	-	15.05.2023	-	26.05.2023	-
3.	B.Arch. (Full-Time)	IV,VI,VIII,X							
4.	B.E. / B.Tech. (Part-Time)	IV,VI							
5.	M.B.A.(Full-Time & Part-Time)	IV							
6.	M.B.A. (5 Yrs-Integrated)	IV,VI,VIII,X							

RE - OPENING DAY FOR THE NEXT SEMESTER: 07.08.2023 (Monday)

*** To provide additional classes for Skill Based Courses.**

NOTE:

1. The Theory and Practical Examination schedules will be published in due course (Practical Examinations will be conducted before the theory examinations).
2. If necessary, loss of classes due to various curricular / co-curricular activities of the department / college may be compensated by conducting classes on Saturdays.

**** In order to ensure minimum no. of working days, the following Saturdays are declared as working days.**

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
1.	11.02.2023	Monday
2.	18.02.2023	Tuesday
3.	25.02.2023	Wednesday
4.	04.03.2023	Thursday
5.	11.03.2023	Friday
6.	18.03.2023	Monday

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
7.	25.03.2023	Tuesday
8.	01.04.2023	Wednesday
9.	29.04.2023	Thursday
10.	06.05.2023	Friday
11.	13.05.2023	Monday***
12.	20.05.2023	Tuesday***

30/3/2023

DIRECTOR
ACADEMIC COURSES

SARANATHAN COLLEGE OF ENGINEERING, TRICHY-12

Academic Planner for 2022 - 23 Odd Semester - I YEAR UG (Sections A, B, C, D & E)

OCT'22	DAY	DETAILS	working days	NOV'22	DAY	DETAILS	working days	DEC'22	DAY	DETAILS	working days	JAN'23	DAY	DETAILS	working days	FEB'23	DAY	DETAILS	working days	MAR'23	DAY	DETAILS	working days
01	SAT	Holiday		01	TUE		2	01	THU	IA Test 1	24	01	SUN	New Year Holiday		01	WED	IA Test 2	66	01	WED		86
02	SUN	Gandhi Jayanthi Holiday		02	WED		3	02	FRI	IA Test 1	25	02	MON		46	02	THU	IA Test 2	67	02	THU		87
03	MON	Holiday		03	THU		4	03	SAT	Holiday		03	TUE		47	03	FRI	IA Test 2 Founder's Day	68	03	FRI	Syllabus Completion	88
04	TUE	Ayudha Pooja Holiday		04	FRI		5	04	SUN	Holiday		04	WED		48	04	SAT	Holiday		04	SAT	Holiday	
05	WED	Vijayadhasami Holiday		05	SAT	Holiday		05	MON		26	05	THU		49	05	SUN	Holiday		05	SUN	Holiday	
06	THU	Induction Program		06	SUN	Holiday		06	TUE		27	06	FRI	Saranathan Jayanthi	50	06	MON		69	06	MON	Revision	89
07	FRI	Induction Program		07	MON		6	07	WED	Flag Day	28	07	SAT	Holiday		07	TUE		70	07	TUE	Revision	90
08	SAT			08	TUE		7	08	THU		29	08	SUN	Holiday		08	WED		71	08	WED	Revision Women's Day	91
09	SUN	Milad-un-Nabi Holiday		09	WED		8	09	FRI		30	09	MON		51	09	THU		72	09	THU	Revision	92
10	MON	Induction Program		10	THU		9	10	SAT	Holiday		10	TUE		52	10	FRI		73	10	FRI	Revision	93
11	TUE	Induction Program		11	FRI		10	11	SUN	Holiday		11	WED		53	11	SAT	Holiday		11	SAT	Holiday	
12	WED	Induction Program		12	SAT	Holiday		12	MON		31	12	THU		54	12	SUN	Holiday		12	SUN	Holiday	
13	THU	Bridge Course		13	SUN	Holiday		13	TUE		32	13	FRI		55	13	MON		74	13	MON	Model Exam	94
14	FRI	Bridge Course		14	MON	Children's Day	11	14	WED		33	14	SAT	Bogi - Holiday		14	TUE		75	14	TUE		95
15	SAT	Holiday		15	TUE		12	15	THU		34	15	SUN	Pongal - Holiday		15	WED		76	15	WED	Model Exam	96
16	SUN	Holiday		16	WED		13	16	FRI		35	16	MON	Thiruvalluvar Day - Holiday		16	THU		77	16	THU		97
17	MON	Bridge Course		17	THU		14	17	SAT	Holiday		17	TUE	Uzhavar Thirunal-Holiday		17	FRI		78	17	FRI	Model Exam	98
18	TUE	Bridge Course		18	FRI		15	18	SUN	Holiday		18	WED		56	18	SAT	Holiday		18	SAT	Holiday	
19	WED	Bridge Course		19	SAT	Holiday		19	MON		36	19	THU		57	19	SUN	Holiday		19	SUN	Holiday	
20	THU	Bridge Course		20	SUN	Holiday		20	TUE		37	20	FRI		58	20	MON		79	20	MON	Model Exam	99
21	FRI	Holiday		21	MON		16	21	WED		38	21	SAT	Holiday		21	TUE		80	21	TUE		100
22	SAT	Holiday		22	TUE		17	22	THU	National Mathematics Day	39	22	SUN	Holiday		22	WED		81	22	WED	Telugu New Year - Holiday	
23	SUN	Holiday		23	WED		18	23	FRI		40	23	MON		59	23	THU		82	23	THU	Model Exam	101
24	MON	Deepavali Holiday		24	THU		19	24	SAT	Holiday		24	TUE		60	24	FRI		83	24	FRI		
25	TUE	Holiday		25	FRI		20	25	SUN	Christmas Holiday		25	WED		61	25	SAT	Holiday		25	SAT	Univ. Practical Exam commences	
26	WED	Holiday		26	SAT	Holiday		26	MON		41	26	THU	Republic Day - Holiday		26	SUN	Holiday		26	SUN	Holiday	
27	THU	Special TT		27	SUN	Holiday		27	TUE		42	27	FRI		62	27	MON		84	27	MON		
28	FRI	Special TT		28	MON	IA Test 1	21	28	WED		43	28	SAT	(Thursday Order)	63	28	TUE	National Science Day	85	28	TUE		
29	SAT	Special TT		29	TUE	IA Test 1	22	29	THU		44	29	SUN	Holiday						29	WED		
30	SUN			30	WED	IA Test 1	23	30	FRI		45	30	MON	IA Test 2	64					30	THU		
31	MON	Regular Classes	1					31	SAT	Holiday		31	TUE	IA Test 2	65					31	FRI		
			1				23				45				65				85				101

Total No. of working days for the semester : 101

Prepared by: Ms.N.Bhavani & Dr.R.Senthamil selvi

PRINCIPAL

SARANATHAN COLLEGE OF ENGINEERING, TRICHY-12

Academic Planner for 2022 - 23 Odd Semester - I YEAR UG (Sections F, G, H, I, J, K & L)

NOV'22	DAY	DETAILS	working days	DEC'22	DAY	DETAILS	working days	JAN'23	DAY	DETAILS	working days	FEB'23	DAY	DETAILS	working days	MAR'23	DAY	DETAILS	working days
01	TUE			01	THU		7	01	SUN	New Year Holiday		01	WED	IA Test 2	49	01	WED		69
02	WED			02	FRI		8	02	MON		29	02	THU	IA Test 2	50	02	THU		70
03	THU			03	SAT	Holiday		03	TUE		30	03	FRI	IA Test 2 Founder's Day	51	03	FRI	Syllabus Completion	71
04	FRI			04	SUN	Holiday		04	WED		31	04	SAT	Holiday		04	SAT	Holiday	
05	SAT	Holiday		05	MON		9	05	THU		32	05	SUN	Holiday		05	SUN	Holiday	
06	SUN	Holiday		06	TUE		10	06	FRI	Saranathan Jayanthi	33	06	MON		52	06	MON	Revision	72
07	MON			07	WED	Flag Day	11	07	SAT	Holiday		07	TUE		53	07	TUE	Revision	73
08	TUE			08	THU		12	08	SUN	Holiday		08	WED		54	08	WED	Revision Women's Day	74
09	WED			09	FRI		13	09	MON		34	09	THU		55	09	THU	Revision	75
10	THU			10	SAT	Holiday		10	TUE		35	10	FRI		56	10	FRI	Revision	76
11	FRI			11	SUN	Holiday		11	WED		36	11	SAT	Holiday		11	SAT	Holiday	
12	SAT	Holiday		12	MON		14	12	THU		37	12	SUN	Holiday		12	SUN	Holiday	
13	SUN	Holiday		13	TUE		15	13	FRI		38	13	MON		57	13	MON	Model Exam	77
14	MON	Induction Program Children's Day		14	WED		16	14	SAT	Bogi - Holiday		14	TUE		58	14	TUE		78
15	TUE	Induction Program		15	THU		17	15	SUN	Pongal - Holiday		15	WED		59	15	WED	Model Exam	79
16	WED	Induction Program		16	FRI		18	16	MON	Thiruvalluvar Day - Holiday		16	THU		60	16	THU		80
17	THU	Induction Program		17	SAT	Holiday		17	TUE	Uzhavar Thirunal- Holiday		17	FRI		61	17	FRI	Model Exam	81
18	FRI	Bridge Course		18	SUN	Holiday		18	WED		39	18	SAT	Holiday		18	SAT		
19	SAT	Holiday		19	MON		19	19	THU		40	19	SUN	Holiday		19	SUN	Holiday	
20	SUN	Holiday		20	TUE		20	20	FRI		41	20	MON		62	20	MON	Model Exam	82
21	MON	Bridge Course		21	WED		21	21	SAT	Holiday		21	TUE		63	21	TUE		83
22	TUE	Bridge Course		22	THU	National Mathematics Day	22	22	SUN	Holiday		22	WED		64	22	WED	Telugu New Year - Holiday	
23	WED	Regular class commences	1	23	FRI		23	23	MON		42	23	THU		65	23	THU	Model Exam	84
24	THU		2	24	SAT	Holiday		24	TUE		43	24	FRI		66	24	FRI		
25	FRI		3	25	SUN	Christmas Holiday		25	WED		44	25	SAT	Holiday		25	SAT	Univ. Practical Exam commences	
26	SAT	Holiday		26	MON	IA Test 1	24	26	THU	Republic Day - Holiday		26	SUN	Holiday		26	SUN	Holiday	
27	SUN	Holiday		27	TUE	IA Test 1	25	27	FRI		45	27	MON		67	27	MON		
28	MON		4	28	WED	IA Test 1	26	28	SAT	(Thursday Order)	46	28	TUE	National Science Day	68	28	TUE		
29	TUE		5	29	THU	IA Test 1	27	29	SUN	Holiday						29	WED		
30	WED		6	30	FRI	IA Test 1	28	30	MON	IA Test 2	47					30	THU		
				31	SAT	Holiday		31	TUE	IA Test 2	48					31	FRI		
No. of Working days			6				28				48				68				84

Total No. of working days for the semester : 84

Prepared by: Ms.N.Bhavani & Dr.R.Senthamil selvi

PRINCIPAL

SARANATHAN COLLEGE OF ENGINEERING, TRICHY-12

Academic Planner for 2022 - 23 Odd Semester - III and IV YEAR UG

AUG'22	DAY	DETAILS	Day order	working days	SEP'22	DAY	DETAILS	Day order	working days	OCT'22	DAY	DETAILS	Day order	working days	NOV'22	DAY	DETAILS	Day order	working days	DEC'22	DAY	DETAILS	Day order	working days
01	MON				01	THU		IV	11	01	SAT	Holiday			01	TUE		II	55	01	THU		IV	77
02	TUE				02	FRI		V	12	02	SUN	Gandhi Jayanthi Holiday			02	WED		III	56	02	FRI	Nan Mudhalvan scheme ends	V	78
03	WED				03	SAT		III	13	03	MON	Holiday			03	THU		IV	57	03	SAT	Holiday		
04	THU				04	SUN	Holiday			04	TUE	Ayudha Pooja Holiday			04	FRI		V	58	04	SUN	Holiday		
05	FRI				05	MON	Teacher's Day	I	14	05	WED	Vijayadhasami Holiday			05	SAT	Holiday			05	MON			
06	SAT	Holiday			06	TUE		II	15	06	THU		IV	36	06	SUN	Holiday			06	TUE			
07	SUN	Holiday			07	WED		III	16	07	FRI		V	37	07	MON		I	59	07	WED	Flag Day		
08	MON				08	THU		IV	17	08	SAT		III	38	08	TUE		II	60	08	THU	Univ.Theory Exam commences		
09	TUE				09	FRI		V	18	09	SUN	Milad-un-Nabi Holiday			09	WED		III	61	09	FRI			
10	WED				10	SAT	Holiday			10	MON	IA Test 2	I	39	10	THU	IA Test 3	IV	62	10	SAT	Holiday		
11	THU	Avani Avittam			11	SUN	Holiday			11	TUE	IA Test 2	II	40	11	FRI	National Education Day IA Test 3	V	63	11	SUN	Holiday		
12	FRI	International Youth Day			12	MON	IA Test 1	I	19	12	WED	IA Test 2	III	41	12	SAT	Holiday			12	MON			
13	SAT				13	TUE	IA Test 1	II	20	13	THU	IA Test 2	IV	42	13	SUN	Holiday			13	TUE			
14	SUN	Holiday			14	WED	IA Test 1	III	21	14	FRI	IA Test 2	V	43	14	MON	Children's Day IA Test 3	I	64	14	WED			
15	MON	Independence Day Holiday			15	THU	Engineer's Day IA Test 1	IV	22	15	SAT	IA Test 2	I	44	15	TUE	IA Test 3	II	65	15	THU			
16	TUE				16	FRI	IA Test 1	V	23	16	SUN	Holiday			16	WED	IA Test 3	III	66	16	FRI			
17	WED	Classes commence for V & VII semester	III	1	17	SAT	IA Test 1	I	24	17	MON		I	45	17	THU	IA Test 3	IV	67	17	SAT	Holiday		
18	THU		IV	2	18	SUN	Holiday			18	TUE		II	46	18	FRI	Syllabus Completion	V	68	18	SUN	Holiday		
19	FRI	Krishna Jayanthi Holiday			19	MON		I	25	19	WED		III	47	19	SAT	Holiday			19	MON			
20	SAT	Holiday			20	TUE		II	26	20	THU		IV	48	20	SUN	Holiday			20	TUE			
21	SUN	Holiday			21	WED		III	27	21	FRI		V	49	21	MON	Nan Mudhalvan scheme starts	I	69	21	WED			
22	MON		I	3	22	THU	Student Feedback-1	IV	28	22	SAT	Holiday			22	TUE		II	70	22	THU	National Mathematics Day		
23	TUE		II	4	23	FRI		V	29	23	SUN	Holiday			23	WED		III	71	23	FRI			
24	WED		III	5	24	SAT	NSS Day	II	30	24	MON	Deepavali Holiday			24	THU		IV	72	24	SAT	Holiday		
25	THU		IV	6	25	SUN	Holiday			25	TUE	Holiday			25	FRI		V	73	25	SUN	Christmas Holiday		
26	FRI		V	7	26	MON		I	31	26	WED		III	50	26	SAT	Holiday			26	MON			
27	SAT		V	8	27	TUE		II	32	27	THU		IV	51	27	SUN	Holiday			27	TUE			
28	SUN	Holiday			28	WED		III	33	28	FRI	Student Feedback-2	V	52	28	MON		I	74	28	WED			
29	MON		I	9	29	THU		IV	34	29	SAT		II	53	29	TUE		II	75	29	THU			
30	TUE		II	10	30	FRI		V	35	30	SUN	Holiday			30	WED		III	76	30	FRI			
31	WED	Vinayagar Chaturthi Holiday								31	MON	National Unity Day	I	54						31	SAT	Holiday		
No. of Working days			10	10				25	35				19	54				22	76				2	78

Total No. of working days for the semester : 78

Prepared by: Ms.N.Bhavani & Dr.R.Senthamil selvi

PRINCIPAL

SARANATHAN COLLEGE OF ENGINEERING, TRICHY-12

Academic Planner for 2022 - 23 Odd Semester - II YEAR UG

AUG'22	DAY	DETAILS	Day order	working days	SEP'22	DAY	DETAILS	Day order		OCT'22	DAY	DETAILS	Day order	working days	NOV'22	DAY	DETAILS	Day order	working days	DEC'22	DAY	DETAILS	Day order	working days
01	MON				01	THU		IV	9	01	SAT	Holiday			01	TUE		II	53	01	THU		IV	75
02	TUE				02	FRI		V	10	02	SUN	Gandhi Jayanthi Holiday			02	WED		III	54	02	FRI		V	76
03	WED				03	SAT		III	11	03	MON	Holiday			03	THU		IV	55	03	SAT	Holiday		
04	THU				04	SUN	Holiday			04	TUE	Ayudha Pooja Holiday			04	FRI		V	56	04	SUN	Holiday		
05	FRI				05	MON	Teacher's Day	I	12	05	WED	Vijayadhasami Holiday			05	SAT	Holiday			05	MON		I	77
06	SAT	Holiday			06	TUE		II	13	06	THU		IV	34	06	SUN	Holiday			06	TUE		II	78
07	SUN	Holiday			07	WED		III	14	07	FRI		V	35	07	MON		I	57	07	WED	Flag Day	III	79
08	MON				08	THU		IV	15	08	SAT		III	36	08	TUE		II	58	08	THU		IV	80
09	TUE				09	FRI		V	16	09	SUN	Milad-un-Nabi Holiday			09	WED		III	59	09	FRI	Syllabus Completion	V	81
10	WED				10	SAT	Holiday			10	MON		I	37	10	THU		IV	60	10	SAT	Holiday		
11	THU	Avani Avittam			11	SUN	Holiday			11	TUE		II	38	11	FRI	Professional Development - Nan Mudhalvan scheme ends	V	61	11	SUN	Holiday		
12	FRI	International Youth Day			12	MON		I	17	12	WED		III	39	12	SAT	Holiday			12	MON	Model Exam	I	82
13	SAT				13	TUE		II	18	13	THU		IV	40	13	SUN	Holiday			13	TUE		II	83
14	SUN	Holiday			14	WED		III	19	14	FRI		V	41	14	MON	Children's Day	I	62	14	WED	Model Exam	III	84
15	MON	Independence Day Holidau			15	THU	Engineer's Day	IV	20	15	SAT	IA Test 2	I	42	15	TUE		II	63	15	THU		IV	85
16	TUE				16	FRI		V	21	16	SUN	Holiday			16	WED		III	64	16	FRI	Model Exam	V	86
17	WED				17	SAT		I	22	17	MON	IA Test 2	I	43	17	THU		IV	65	17	SAT	Holiday		
18	THU				18	SUN	Holiday			18	TUE	IA Test 2	II	44	18	FRI		V	66	18	SUN	Holiday		
19	FRI	Krishna Jayanthi Holiday			19	MON	IA Test 1	I	23	19	WED	IA Test 2	III	45	19	SAT	Holiday			19	MON	Model Exam	I	87
20	SAT	Holiday			20	TUE	IA Test 1	II	24	20	THU	IA Test 2	IV	46	20	SUN	Holiday			20	TUE		II	88
21	SUN	Holiday			21	WED	IA Test 1	III	25	21	FRI	IA Test 2	V	47	21	MON		I	67	21	WED	Model Exam	III	89
22	MON	Classes commence for III semester	I	1	22	THU	IA Test 1	IV	26	22	SAT	Holiday			22	TUE		II	68	22	THU	National Mathematics Day	IV	90
23	TUE		II	2	23	FRI	IA Test 1	V	27	23	SUN	Holiday			23	WED		III	69	23	FRI	Model Exam	V	91
24	WED		III	3	24	SAT	NSS Day IA Test 1	II	28	24	MON	Deepavali Holiday			24	THU		IV	70	24	SAT	Holiday		
25	THU		IV	4	25	SUN	Holiday			25	TUE	Holiday			25	FRI		V	71	25	SUN	Christmas Holiday		
26	FRI		V	5	26	MON		I	29	26	WED		III	48	26	SAT	Holiday			26	MON			
27	SAT		V	6	27	TUE		II	30	27	THU		IV	49	27	SUN	Holiday			27	TUE			
28	SUN	Holiday			28	WED		III	31	28	FRI	Student Feedback-2	V	50	28	MON		I	72	28	WED			
29	MON		I	7	29	THU	Student Feedback-1	IV	32	29	SAT		II	51	29	TUE		II	73	29	THU	Univ.Theory Exam commences		
30	TUE		II	8	30	FRI		V	33	30	SUN	Holiday			30	WED		III	74	30	FRI			
31	WED	Vinayagar Chaturthi Holiday								31	MON	Professional Development - Nan Mudhalvan scheme starts	I	52						31	SAT			
No. of Working days			8	8				25	33				19	52				22	74				17	91

Total No. of working days for the semester : 91

Prepared by: Ms.N.Bhavani & Dr.R.Senthamil selvi

PRINCIPAL

SARANATHAN COLLEGE OF ENGINEERING, TRICHY-12

Academic Planner for Even Semester(2022-23) - I Year - G

MAY'23	DAY	DETAILS	working days	JUN'23	DAY	DETAILS	working days	JULY'23	DAY	DETAILS	working days	AUG'23	DAY	DETAILS	working days
01	MON	May Day Holiday		01	THU		18	01	SAT		41	01	TUE	Model exam	65
02	TUE			02	FRI		19	02	SUN	Holiday		02	WED	Model exam	66
03	WED			03	SAT	Holiday		03	MON	IA test-2	42	03	THU	Model exam	67
04	THU			04	SUN	Holiday		04	TUE	IA test-2	43	04	FRI	Model exam	68
05	FRI			05	MON	IA test-1	20	05	WED	IA test-2	44	05	SAT	Model exam	69
06	SAT	Holiday		06	TUE	IA test-1	21	06	THU	IA test-2	45	06	SUN	Holiday	
07	SUN	Holiday		07	WED	IA test-1	22	07	FRI	IA test-2	46	07	MON	Syllabus Completion	70
08	MON			08	THU	IA test-1	23	08	SAT	Holiday		08	TUE		
09	TUE			09	FRI	IA test-1	24	09	SUN	Holiday		09	WED	Commencement of University Practical exams	
10	WED	Classes commence for II semester	1	10	SAT	IA test-1	25	10	MON	IA test-2	47	10	THU		
11	THU		2	11	SUN	Holiday		11	TUE		48	11	FRI		
12	FRI		3	12	MON		26	12	WED		49	12	SAT	Holiday	
13	SAT	Holiday		13	TUE		27	13	THU		50	13	SUN	Holiday	
14	SUN	Holiday		14	WED		28	14	FRI	Students Feedback-II	51	14	MON		
15	MON		4	15	THU		29	15	SAT		52	15	TUE	Independence Day Holiday	
16	TUE		5	16	FRI	Students Feedback-I	30	16	SUN	Holiday		16	WED		
17	WED		6	17	SAT	Holiday		17	MON		53	17	THU		
18	THU		7	18	SUN	Holiday		18	TUE		54	18	FRI		
19	FRI		8	19	MON		31	19	WED		55	19	SAT	Holiday	
20	SAT	Holiday		20	TUE		32	20	THU		56	20	SUN	Holiday	
21	SUN	Holiday		21	WED		33	21	FRI		57	21	MON	Commencement of University Theory exams	
22	MON		9	22	THU		34	22	SAT		58	22	TUE		
23	TUE		10	23	FRI		35	23	SUN	Holiday		23	WED		
24	WED		11	24	SAT		36	24	MON		59	24	THU		
25	THU		12	25	SUN	Holiday		25	TUE		60	25	FRI		
26	FRI		13	26	MON		37	26	WED		61	26	SAT		
27	SAT		14	27	TUE		38	27	THU		62	27	SUN		
28	SUN	Holiday		28	WED		39	28	FRI		63	28	MON		
29	MON		15	29	THU	Bakrid Holiday		29	SAT	Muharram Holiday		29	TUE		
30	TUE		16	30	FRI		40	30	SUN	Holiday		30	WED		
31	WED		17					31	MON	Model exam	64	31	THU		
			17				23				24				

Total No.of working days for the semester : 70

Prepared by

Ms. N. Bhavani, Asso.Prof/IT dept

Dr. R. Senthamil Selvi,Asso. Prof/ CSE Dept

Principal 8/05/2023

SARANATHAN COLLEGE OF ENGINEERING, TRICHY-12

Academic Planner for Even Semester(2022-23) - II, III & IV UG

FEB'22	DAY	DETAILS	working days	MAR'22	DAY	DETAILS	working days	APR'22	DAY	DETAILS	working days	MAY'22	DAY	DETAILS	working days
01	WED	Classes commence for IV & VI semester T&P Training for III Year	1	01	WED		21	01	SAT	Holiday		01	MON	May Day Holiday	
02	THU	T&P Training for III Year	2	02	THU	Sports Day	22	02	SUN	Holiday		02	TUE		62
03	FRI	Founder's day T&P Training for III Year	3	03	FRI	College Day	23	03	MON		44	03	WED		63
04	SAT	T&P Training for III Year Holiday		04	SAT	Graduation Day Holiday		04	TUE		45	04	THU		64
05	SUN	Holiday		05	SUN	Holiday		05	WED		46	05	FRI	Naan Mudhalvan	65
06	MON		4	06	MON		24	06	THU		47	06	SAT	Holiday	
07	TUE		5	07	TUE		25	07	FRI	Good Friday Holiday		07	SUN	Holiday	
08	WED		6	08	WED	Womania 2023 Women's Day	26	08	SAT	Holiday		08	MON		66
09	THU		7	09	THU	IA test-1	27	09	SUN	Holiday		09	TUE		67
10	FRI		8	10	FRI	IA test-1	28	10	MON	IA test-2	48	10	WED		68
11	SAT	Holiday		11	SAT	IA test-1	29	11	TUE	IA test-2	49	11	THU		69
12	SUN	Holiday		12	SUN	Holiday		12	WED	IA test-2	50	12	FRI	Naan Mudhalvan	70
13	MON		9	13	MON	IA test-1	30	13	THU	IA test-2	51	13	SAT	Holiday	
14	TUE		10	14	TUE	IA test-1	31	14	FRI	Tamil New Year Day Holiday		14	SUN	Holiday	
15	WED		11	15	WED	IA test-1	32	15	SAT	Holiday		15	MON	IA test-3	71
16	THU		12	16	THU		33	16	SUN	Holiday		16	TUE	IA test-3	72
17	FRI		13	17	FRI		34	17	MON	IA test-2	52	17	WED	IA test-3	73
18	SAT	Holiday		18	SAT	Holiday		18	TUE	IA test-2	53	18	THU	IA test-3	74
19	SUN	Holiday		19	SUN	Holiday		19	WED		54	19	FRI		75
20	MON	Classes commence for VIII semester	14	20	MON	Students Feedback-I	35	20	THU		55	20	SAT	Holiday	
21	TUE		15	21	TUE		36	21	FRI	Naan Mudhalvan	56	21	SUN	Holiday	
22	WED		16	22	WED	Telugu New Year Day Holiday		22	SAT	Holiday		22	MON	IA test-3	76
23	THU		17	23	THU		37	23	SUN	Holiday		23	TUE	IA test-3	77
24	FRI		18	24	FRI	Naan Mudhalvan	38	24	MON	Students Feedback-II	57	24	WED	Syllabus completion	78
25	SAT	Holiday		25	SAT	Holiday		25	TUE		58	25	THU		
26	SUN	Holiday		26	SUN	Holiday		26	WED		59	26	FRI	Commencement of University Practical exams	
27	MON		19	27	MON		39	27	THU	Founder's Memorial day	60	27	SAT		
28	TUE	National Science Day	20	28	TUE		40	28	FRI	Naan Mudhalvan	61	28	SUN		
				29	WED		41	29	SAT	Holiday		29	MON		
				30	THU		42	30	SUN	Holiday		30	TUE		
				31	FRI	Naan Mudhalvan	43					31	WED		
No. of Working days			20				23				15				17
														Total No.of working days for the semester :	78

Prepared by

Ms. N. Bhuvani, Asso Prof IT dept

Dr. R. Senthamil Selvi,Asso Prof CSE Dept

Principal

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SARANATHAN COLLEGE OF ENGINEERING, TR[illegible]Y-12

Academic Planner for Even Semester(2022-23) - II, III [illegible]V UG

FEB' 22	DAY	DETAILS	working days	MAR' 22	DAY	DETAILS	working days	APR'22	DAY	DETAILS	working days	MAY'22	DAY	DETAILS	working days
01	WED	Classes commence for IV & VI semester T&P Training for III Year	1	01	WED		21	01	SAT	Holiday		01	MON	May Day Holiday	
02	THU	T&P Training for III Year	2	02	THU	Sports Day	22	02	SUN	Holiday		02	TUE		62
03	FRI	Founder's day T&P Training for III Year	3	03	FRI	College Day	23	03	MON		44	03	WED		63
04	SAT	T&P Training for III Year Holiday		04	SAT	Graduation Day Holiday		04	TUE		45	04	THU	IA test-3	64
05	SUN	Holiday		05	SUN	Holiday		05	WED		46	05	FRI	IA test-3	65
06	MON		4	06	MON		24	06	THU		47	06	SAT	IA test-3	66
07	TUE		5	07	TUE		25	07	FRI	Good Friday Holiday		07	SUN	Holiday	
08	WED		6	08	WED	Womania 2023 Women's Day	26	08	SAT	Holiday		08	MON	IA test-3	67
09	THU		7	09	THU	IA test-1	27	09	SUN	Holiday		09	TUE	IA test-3	68
10	FRI		8	10	FRI	IA test-1	28	10	MON	IA test-2	48	10	WED	IA test-3	69
11	SAT	Holiday		11	SAT	IA test-1	29	11	TUE	IA test-2	49	11	THU		70
12	SUN	Holiday		12	SUN	Holiday		12	WED	IA test-2	50	12	FRI	Syllabus completion	71
13	MON		9	13	MON	IA test-1	30	13	THU	IA test-2	51	13	SAT	Holiday	
14	TUE		10	14	TUE	IA test-1	31	14	FRI	Tamil New Year Day Holiday		14	SUN	Holiday	
15	WED		11	15	WED	IA test-1	32	15	SAT	Holiday		15	MON	Commencement of University Practical exams	
16	THU		12	16	THU		33	16	SUN	Holiday		16	TUE		
17	FRI		13	17	FRI		34	17	MON	IA test-2	52	17	WED		
18	SAT	Holiday		18	SAT	Holiday		18	TUE	IA test-2	53	18	THU		
19	SUN	Holiday		19	SUN	Holiday		19	WED		54	19	FRI		
20	MON	Classes commence for VIII semester	14	20	MON	Students Feedback-I	35	20	THU		55	20	SAT		
21	TUE		15	21	TUE		36	21	FRI		56	21	SUN		
22	WED		16	22	WED	Telugu New Year Day Holiday		22	SAT	Ramzan Holiday		22	MON		
23	THU		17	23	THU		37	23	SUN	Holiday		23	TUE		
24	FRI		18	24	FRI		38	24	MON	Students Feedback-II	57	24	WED		
25	SAT	Holiday		25	SAT	Holiday		25	TUE		58	25	THU		
26	SUN	Holiday		26	SUN	Holiday		26	WED		59	26	FRI	Commencement of University Theory exams	
27	MON		19	27	MON		39	27	THU	Founder's Memorial day	60	27	SAT		
28	TUE		20	28	TUE		40	28	FRI		61	28	SUN		
				29	WED		41	29	SAT	Holiday		29	MON		
				30	THU		42	30	SUN	Holiday		30	TUE		
				31	FRI		43					31	WED		
No. of Working days			20				23				18				10
														Total No.of working days for the semester :	71

Prepared by

Ms. N. Bhavani, Asso.Prof/IT dept

Dr. R. Senthamil Selvi,Asso. Prof/ CSE Dept

Principal

SARANATHAN COLLEGE OF ENGINEERING, TRICHY-12

Mechanical Department Academic Planner for 2022 - 23 Odd Semester - III and IV YEAR UG

AUG'22	DAY	DETAILS	Day order	working days	SEP'22	DAY	DETAILS	Day order	working days	OCT'22	DAY	DETAILS	Day order	working days	NOV'22	DAY	DETAILS	Day order	working days	DEC'22	DAY	DETAILS	Day order	working days
01	MON				01	THU		IV	11	01	SAT	Holiday			01	TUE		II	55	01	THU	Univ. Theory Exam commences		
02	TUE				02	FRI		V	12	02	SUN	Gandhi Jayanthi Holiday			02	WED		III	56	02	FRI			
03	WED				03	SAT		III	13	03	MON	Holiday			03	THU		IV	57	03	SAT	Holiday		
04	THU				04	SUN	Holiday			04	TUE	Ayudha Pooja Holiday			04	FRI	Silver Jubilee Guest Lecture	V	58	04	SUN	Holiday		
05	FRI				05	MON	Teacher's Day	I	14	05	WED	Vijayadhasami Holiday			05	SAT	Holiday			05	MON			
06	SAT	Holiday			06	TUE		II	15	06	THU		IV	36	06	SUN	Holiday			06	TUE			
07	SUN	Holiday			07	WED		III	16	07	FRI		V	37	07	MON		I	59	07	WED	Flag Day		
08	MON				08	THU		IV	17	08	SAT		III	38	08	TUE	Class committee meeting-2	II	60	08	THU			
09	TUE				09	FRI		V	18	09	SUN	Milad-un-Nabi Holiday			09	WED		III	61	09	FRI			
10	WED				10	SAT	Holiday			10	MON	IA Test 2	I	39	10	THU	IA Test 3	IV	62	10	SAT	Holiday		
11	THU	Avani Avittam			11	SUN	Holiday			11	TUE	IA Test 2	II	40	11	FRI	National Education Day IA Test 3	V	63	11	SUN	Holiday		
12	FRI	International Youth Day			12	MON	IA Test 1	I	19	12	WED	IA Test 2	III	41	12	SAT	IA Test 3	I	64	12	MON			
13	SAT				13	TUE	IA Test 1	II	20	13	THU	IA Test 2	IV	42	13	SUN	Holiday			13	TUE			
14	SUN	Holiday			14	WED	IA Test 1	III	21	14	FRI	IA Test 2	V	43	14	MON	Children's Day IA Test 3	I	65	14	WED			
15	MON	Independence Day Holiday			15	THU	Engineer's Day IA Test 1	IV	22	15	SAT	IA Test 2	I	44	15	TUE	IA Test 3	II	66	15	THU			
16	TUE				16	FRI	IA Test 1	V	23	16	SUN	Holiday			16	WED	IA Test 3	III	67	16	FRI			
17	WED	Classes commence for V & VII semester	III	1	17	SAT	IA Test 1	I	24	17	MON		I	45	17	THU		IV	68	17	SAT	Holiday		
18	THU		IV	2	18	SUN	Holiday			18	TUE		II	46	18	FRI	Syllabus Completion	V	69	18	SUN	Holiday		
19	FRI	Krishna Jayanthi Holiday			19	MON		I	25	19	WED		III	47	19	SAT		II	70	19	MON			
20	SAT	Holiday			20	TUE		II	26	20	THU		IV	48	20	SUN	Holiday			20	TUE			
21	SUN	Holiday			21	WED		III	27	21	FRI		V	49	21	MON	Univ. Practical Exam commences			21	WED			
22	MON		I	3	22	THU	Student Feedback-1	IV	28	22	SAT	Holiday			22	TUE				22	THU	National Mathematics Day		
23	TUE		II	4	23	FRI		V	29	23	SUN	Holiday			23	WED				23	FRI			
24	WED		III	5	24	SAT	NSS Day	II	30	24	MON	Deepavali Holiday			24	THU				24	SAT	Holiday		
25	THU		IV	6	25	SUN	Holiday			25	TUE	Holiday			25	FRI				25	SUN	Christmas Holiday		
26	FRI		V	7	26	MON		I	31	26	WED		III	50	26	SAT	Holiday			26	MON			
27	SAT		V	8	27	TUE		II	32	27	THU		IV	51	27	SUN	Holiday			27	TUE			
28	SUN	Holiday			28	WED		III	33	28	FRI	Student Feedback-2	V	52	28	MON				28	WED			
29	MON		I	9	29	THU	Class committee meeting-1	IV	34	29	SAT	Efficiency-2k22 & Guest Lecture on 3D printing	II	53	29	TUE				29	THU			
30	TUE		II	10	30	FRI		V	35	30	SUN	Holiday			30	WED				30	FRI			
31	WED	Vinayagar Chaturthi Holiday								31	MON	National Unity Day	I	54						31	SAT	Holiday		
No. of Working days			10	10				25	35				19	54				16	70					

Total No. of working days for the semester : 70

HOD / MECHANICAL

PRINCIPAL

SARANATHAN COLLEGE OF ENGINEERING, TRICHY-12

Mechanical Department Academic Planner for 2022 - 23 Odd Semester - III and IV YEAR UG

AUG'22	DAY	DETAILS	Day order	working days	SEP'22	DAY	DETAILS	Day order		OCT'22	DAY	DETAILS	Day order	working days	NOV'22	DAY	DETAILS	Day order	working days	DEC'22	DAY	DETAILS	Day order	working days
01	MON				01	THU		IV	9	01	SAT	Holiday			01	TUE		II	53	01	THU		IV	77
02	TUE				02	FRI		V	10	02	SUN	Gandhi Jayanthi Holiday			02	WED		III	54	02	FRI	Syllabus Completion	V	78
03	WED				03	SAT		III	11	03	MON	Holiday			03	THU		IV	55	03	SAT	Holiday		
04	THU				04	SUN	Holiday			04	TUE	Ayudha Pooja Holiday			04	FRI	Silver Jubilee Guest Lecture	V	56	04	SUN	Holiday		
05	FRI				05	MON	Teacher's Day	I	12	05	WED	Vijayadhasami Holiday			05	SAT	Holiday			05	MON	Revision	I	79
06	SAT	Holiday			06	TUE		II	13	06	THU		IV	34	06	SUN	Holiday			06	TUE	Revision	II	80
07	SUN	Holiday			07	WED		III	14	07	FRI		V	35	07	MON		I	57	07	WED	Revision	III	81
08	MON				08	THU		IV	15	08	SAT		III	36	08	TUE	Class committee meeting-2	II	58	08	THU	Revision	IV	82
09	TUE				09	FRI		V	16	09	SUN	Milad-un-Nabi Holiday			09	WED		III	59	09	FRI			
10	WED				10	SAT	Holiday			10	MON	IA Test 2	I	37	10	THU	IA Test 3	IV	60	10	SAT	Univ. Practical Exam commences		
11	THU	Avani Avittam			11	SUN	Holiday			11	TUE	IA Test 2	II	38	11	FRI	National Education Day IA Test 3	V	61	11	SUN	Holiday		
12	FRI	International Youth Day			12	MON	IA Test 1	I	17	12	WED	IA Test 2	III	39	12	SAT	IA Test 3	I	62	12	MON			
13	SAT				13	TUE	IA Test 1	II	18	13	THU	IA Test 2	IV	40	13	SUN	Holiday			13	TUE			
14	SUN	Holiday			14	WED	IA Test 1	III	19	14	FRI	IA Test 2	V	41	14	MON	Children's Day IA Test 3	I	63	14	WED			
15	MON	Independence Day Holiday			15	THU	Engineer's Day IA Test 1	IV	20	15	SAT	IA Test 2	I	42	15	TUE	IA Test 3	II	64	15	THU			
16	TUE				16	FRI	IA Test 1	V	21	16	SUN	Holiday			16	WED	IA Test 3	III	65	16	FRI			
17	WED				17	SAT	IA Test 1	I	22	17	MON		I	43	17	THU		IV	66	17	SAT	Holiday		
18	THU				18	SUN	Holiday			18	TUE		II	44	18	FRI		V	67	18	SUN	Holiday		
19	FRI	Krishna Jayanthi Holiday			19	MON		I	23	19	WED		III	45	19	SAT		II	68	19	MON			
20	SAT	Holiday			20	TUE		II	24	20	THU		IV	46	20	SUN	Holiday			20	TUE			
21	SUN	Holiday			21	WED		III	25	21	FRI		V	47	21	MON		I	69	21	WED	Univ. Theory Exam commences		
22	MON	Classes commence for III semester	I	1	22	THU	Student Feedback-1	IV	26	22	SAT	Holiday			22	TUE		II	70	22	THU	National Mathematics Day		
23	TUE		II	2	23	FRI		V	27	23	SUN	Holiday			23	WED		III	71	23	FRI			
24	WED		III	3	24	SAT	NSS Day	II	28	24	MON	Deepavali Holiday			24	THU		IV	72	24	SAT	Holiday		
25	THU		IV	4	25	SUN	Holiday			25	TUE	Holiday			25	FRI		V	73	25	SUN	Christmas Holiday		
26	FRI		V	5	26	MON		I	29	26	WED		III	48	26	SAT	Holiday			26	MON			
27	SAT		V	6	27	TUE		II	30	27	THU		IV	49	27	SUN	Holiday			27	TUE			
28	SUN	Holiday			28	WED		III	31	28	FRI	Student Feedback-2	V	50	28	MON		I	74	28	WED			
29	MON		I	7	29	THU	Class committee meeting-1	IV	32	29	SAT	Efficiency-2k22 & Guest Lecture on 3D printing	II	51	29	TUE		II	75	29	THU			
30	TUE		II	8	30	FRI		V	33	30	SUN	Holiday			30	WED		III	76	30	FRI			
31	WED	Vinayagar Chaturthi								31	MON	National Unity Day	I	52						31	SAT	Holiday		
No. of Working days			8	8				25	33				19	52				24	76				6	82

Total No. of working days for the semester : 82

HOD / MECHANICAL

PRINCIPAL

SARANATHAN COLLEGE OF ENGINEERING, TRICHY-12

Mechanical Department Academic Planner for Even Semester(2022-23) - II, III & IV UG

FEB'23	DAY	DETAILS	working days	MAR'23	DAY	DETAILS	working days	APR'23	DAY	DETAILS	working days	MAY'23	DAY	DETAILS	working days
01	WED	Classes commence for IV & VI semester T&P Training for III	1	01	WED		21	01	SAT	Holiday		01	MON	May Day Holiday	
02	THU	T&P Training for III Year	2	02	THU	Sports Day	22	02	SUN	Holiday		02	TUE		62
03	FRI	Founder's day T&P Training for III Year	3	03	FRI	College Day	23	03	MON		44	03	WED		63
04	SAT	T&P Training for III Year Holiday		04	SAT	Graduation Day Holiday		04	TUE		45	04	THU	IA test-3	64
05	SUN	Holiday		05	SUN	Holiday		05	WED		46	05	FRI	IA test-3	65
06	MON		4	06	MON		24	06	THU		47	06	SAT	IA test-3	66
07	TUE		5	07	TUE		25	07	FRI	Good Friday Holiday		07	SUN	Holiday	
08	WED		6	08	WED	Womania 2023 Women's Day	26	08	SAT	Holiday		08	MON	IA test-3	67
09	THU		7	09	THU	IA test-1	27	09	SUN	Holiday		09	TUE	IA test-3	68
10	FRI		8	10	FRI	IA test-1	28	10	MON	IA test-2	48	10	WED	IA test-3	69
11	SAT	Holiday		11	SAT	IA test-1	29	11	TUE	IA test-2	49	11	THU		70
12	SUN	Holiday		12	SUN	Holiday		12	WED	IA test-2	50	12	FRI	Syllabus completion	71
13	MON		9	13	MON	IA test-1	30	13	THU	IA test-2	51	13	SAT	Holiday	
14	TUE		10	14	TUE	IA test-1	31	14	FRI	Tamil New Year Day Holiday		14	SUN	Holiday	
15	WED		11	15	WED	IA test-1	32	15	SAT	Holiday		15	MON	Commencement of University Practical exams	
16	THU		12	16	THU		33	16	SUN	Holiday		16	TUE		
17	FRI		13	17	FRI		34	17	MON	IA test-2	52	17	WED		
18	SAT	Holiday		18	SAT	Holiday		18	TUE	IA test-2	53	18	THU		
19	SUN	Holiday		19	SUN	Holiday		19	WED		54	19	FRI		
20	MON	Classes commence for VIII semester	14	20	MON	Students Feedback-I	35	20	THU		55	20	SAT		
21	TUE		15	21	TUE		36	21	FRI		56	21	SUN		
22	WED		16	22	WED	Telugu New Year Day Holiday		22	SAT	Ramzan Holiday		22	MON		
23	THU		17	23	THU		37	23	SUN	Holiday		23	TUE		
24	FRI		18	24	FRI	Class Committee Meeting-1	38	24	MON	Students Feedback-II	57	24	WED		
25	SAT	Holiday		25	SAT	Holiday		25	TUE		58	25	THU		
26	SUN	Holiday		26	SUN	Holiday		26	WED		59	26	FRI	Commencement of University Theory exams	
27	MON		19	27	MON		39	27	THU	Founder's Memorial day	60	27	SAT		
28	TUE		20	28	TUE		40	28	FRI	Class Committee Meeting-2	61	28	SUN		
				29	WED		41	29	SAT	Holiday		29	MON		
				30	THU		42	30	SUN	Holiday		30	TUE		
				31	FRI		43					31	WED		
No. of Working days			20				23				18				10
														Total No.of working days for the semester :	71

HOD / Mechanical

Principal

Saranathan College of Engineering, Tiruchirappalli - 620 012

Department of Mechanical Engineering

Subject Allocation for the Odd Semester (AY 2022 - 23)

Sl. No.	Name of the staff member	Designation	Therory subject 1	Theory Subject 2	Practical subject 1	Practical subject 2
1	Dr. G. Jayaprakash	Prof. & Head.	Dynamics of Machines	Engineering Mechanics (Mech)		
2	Dr. N. Baskar	Professor	Process Planning and Cost Estimation	Manufacturing Technology - I	Technical Seminar (M)	
3	Dr.M.R.Anantha Padmanaban	Assoc. Professor	Lean Six Sigma	Quality Management	Technical Seminar (M)	
4	Dr. R. Rekha	Assoc. Professor	Mechatronics	EMM	Mechatronics lab (M)	
5	Dr. M.Ganesan	Assoc. Professor	Process Planning and Cost Estimation		CAMD lab (A)	Simulation and Analysis lab * (M)
6	Dr. A. Mercy Vasan	Assoc. Professor	Unit Operation and Controls	Thermal Engineering - II	Thermal Engineering lab (M)	
7	Dr.G.Mahesh	Assoc. Professor	Project Management	Total Quality Management (1/2*2)	Metrology and measurements lab (A)	
8	Mr.R.Sureshbabu	Asst.Professor	Design of machine elements		Manufacturing Technology lab-I (M)	Kinematics and Dynamics Lab (A)
9	Mr. S.Karthikeyan	Asst. Professor	Metrology and Measurements		Metrology and Measurements Laboratory (M)	Simulation and Analysis lab * (A)
10	Mr.P.Jothi Palavesam	Asst. Professor	Robotics		Manufacturing Technology lab-I (A)	Mechatronics lab** (M)
11	Mr.P.V.Rajesh	Asst. Professor	Lean Six Sigma	PPC - Additional elective	Mechatronics lab (A)	Technical Seminar*** (A)
12	Mr.S.Vinoth Kumar	Asst. Professor	Engineering thermodynamics	Engineering Mechanics (Civil)	Kinematics and Dynamics Lab (M)	
13	Mr.P.Vigneshwar	Asst. Professor	Fluid Mechanics and Machinery	Mechatronics	Simulation and Analysis lab (A)	
14	Mr.S.Paramaguru	Asst. Professor	Power Plant Engineering	Internal Combustion Engines (1/2)	Simulation and Analysis lab (M)	Technical Seminar*** (A)
15	Mr.K.Amarnath	Asst. Professor	Power Plant Engineering	Robotics	CAMD lab (M)	
16	Mr.M.Sriram Prasanth	Asst. Professor	Renewable Energy Sources (1/2)	Renewable Sources of Energy (1/2*2)	Thermal Engineering lab (A)	Mechatronics lab** (A)

HOD / Mechanical

Saranathan College of Engineering, Tiruchirappalli - 620 012
Department of Mechanical Engineering
Subject Allocation for the Even Semester (AY 2022 - 23)

Sl. No.	Name of the staff member	Therory subject 1	Theory Subject 2	Theory Subject 3	Practical subject 1	theory	lab	EG Asst	EPL	Total
1	Dr. G. Jayaprakash	GE3251(6)	GE3251(Asst)			6		6		12
2	Dr. N. Baskar	ME8692-FEA(5)			D&F Project(6)	5	6			11
3	Dr.M.R.Anantha Padmanaban	ME3493-MT(5)	GE3251(6)	GE3251(Asst)		11		6	2	19
4	Dr. R. Rekha	CE3491-SM(6)	GE3251(Asst)		SM lab & FM lab(6)	6	6	6		18
5	Dr. M.Ganesan	PPC(3)	GE3251(6)	GE3251(Asst)	CAD lab(6)	9	6	6		21
6	Dr. A. Mercy Vasan	ME8096-GDJP(4)	GE3251(6)		Thermal lab(6)	10	6		2	18
4	Dr.G.Mahesh	BCM(3)	GE3251(6)		SM lab & FM lab(6)	9	6		4	19
8	Mr.R.Sureshbabu	ME8651-DTS(5)	GE3251(6)	GE3251(Asst)	D&F Project(6)	11	6	6		23
9	Mr. S.Karthikeyan	ME8691-CAD(4)	GE3251(6)	GE3251(Asst)	D&F Project(6)	10	6	6		22
10	Mr.P.Jothi Palavesam	ME8694-HP(4)	GE3251(6)	GE3251(Asst)		10		6	4	20
11	Mr.P.V.Rajesh	POM(3+3)	GE3251(6)	GE3251(Asst)		12		6	4	22
12	Mr.S.Vinoth Kumar	ME3492-HP(5)	GE3251(6)	GE3251(Asst)		11		6	4	21
13	Mr.P.Vigneshwar	ME3491-Theory of Machines(6)	GE3251(6)	GE3251(Asst)	Thermal lab(3)	12	3	6	2	23
14	Mr.K.Amarnath	ME3451-Thermal Engineering(6	GE3251(6)	GE3251(Asst)	CAD lab(6)	12	6	6		24
15	Mr.M.Sriram Prasanth	ME8693-HMT(5)	BCM(3)	GE3251(Asst)	Thermal lab(3) + T&P(2)	8	5	6	2	21



HOD / Mechanical

Saranathan College of Engineering
Department of Mechanical Engineering

COURSE FILE

ACADEMIC YEAR	2022-2023
SEMESTER/YEAR	VII /IV
COURSE CODE	GE8077
COURSE TITLE	TOTAL QUALITY MANAGEMENT
COURSE INSTRUCTOR	Dr. G. MAHESH
DESIGNATION	ASSOCIATE PROFESSOR
DEPARTMENT	MECHANICAL ENGINEERING

SARANATHAN COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi, NBA Accredited, Affiliated to Anna University, Chennai)

DEPARTMENT OF MECHANICAL ENGINEERING

REVIEW OF COURSE FILE

S.No.	Details	Review				
		1	2	3	4	5
	Date:	18.8.22	10.10.22	22.11.22		
1.	Vision, Mission, PEOs, POs, PSOs, Blooms taxonomy [1]	✓	–	–		
2.	Timetable/Workload of the staff – Distribution of teaching load – Roles and Responsibilities[1]	✓	–	–		
3.	Syllabus signed by staff & HoD[1]	✓	–	–		
4.	Lecture Schedule signed by staff & HoD[1]	✓	–	–		
5.	Course Committee meeting circular and minutes[1]	✓	–	–		
6.	Identification of Curricular gap and Content Beyond the syllabus[1]	✓	–	–		
7.	Previous AU Question papers (at least 5)[1]	✓	–	–		
8.	Unit wise Q&A and Objective type questions-20 questions in each unit with answers[1]	✓	–	✓		
9.	Unit wise course material [1]	✓	–	–		
10.	Assignment question paper with sample answer sheets (at least 3) and mark entry [234]	–	✓	✓		
11.	Tutorial question paper with key (minimum 3 Tutorials per unit, 15 Tutorials per course) and mark entry [234]	–	✓	✓		
12.	IA test Q Paper with Key, sample answer papers (at least 3) and mark entry[234]	–	✓	✓		
13.	IA Test- Performance analysis-CAP-evidence-root cause analysis. [234]	–	✓	✓		
14.	Makeup Test –Q paper-Attendance-marks - sample answer papers[234]	–	✓	✓		
15.	Remedial Test–Q paper-Attendance-marks - sample answer papers[234]	–	✓	✓		
16.	AU Web portal entry sheet[234]	–	–	–		
17.	Very poor performance in first two tests-action taken - communication to parents-evidence.[23]	–	–	–		
18.	Absence for two tests-action taken-communication to parents-evidence. [23]	–	–	–		
19.	Indiscipline of student reported, if any [234]	–	–	–		
20.	Special class/coaching class/remedial class/attendance-CAP [234]	–	–	–		
21.	Conduct of Seminar, Quizzes - proof[234]	–	–	–		
22.	Content beyond the syllabus – proof [234]	–	–	–		
23.	Course end survey [4]	–	–	✓		
24.	Internal Assessment sheet [4]	–	–	✓		
25.	AU question paper with students feedback [5]	–	–	✓		
26.	Discrepancy of the question paper and correspondence, if any [5]	–	–	–		
27.	AU result analysis-Details of arrear students. [5]	–	–	–		
28.	AU grade sheet [5]	–	–	–		
29.	CO – PO & PSO attainment sheet [5]	–	–	–		
	Signature of Course handling faculty					
	Signature of HoD					

Saranathan College of Engineering

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)

(Accredited by NBA & NAAC A+)

Venkateswara Nagar, Panjappur,

Tiruchirappalli - 620 012

Department of Mechanical Engineering

Course File

Academic Year	2022 - 2023 (Even)
Semester/Year	6 Semester / 3 Year
Section	A
Course Code	ME 8651
Course Title	Design of Transmission Systems
Course Instructor	Mr. R. Suresh Babu
Designation	Assistant Professor
Department	Mechanical Engineering

Staff Signature

HOD/Mechanical Engineering

SARANATHAN COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi, NBA Accredited, Affiliated to Anna University, Chennai)

DEPARTMENT OF MECHANICAL ENGINEERING

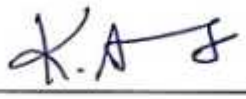
REVIEW OF COURSE FILE

S.No.	Details	Review				
		1	2	3	4	5
	Date:	3.2.23	17.4.23	01.6.23		
1.	Vision, Mission, PEOs, POs, PSOs, Blooms taxonomy [1]	✓	–	–		
2.	Timetable/Workload of the staff – Distribution of teaching load – Roles and Responsibilities[1]	✓	–	–		
3.	Syllabus signed by staff & HoD[1]	✓	–	–		
4.	Lecture Schedule signed by staff & HoD[1]	✓	–	–		
5.	Course Committee meeting circular and minutes[1]	✓	–	–		
6.	Identification of Curricular gap and Content Beyond the syllabus[1]	✓	–	–		
7.	Previous AU Question papers (at least 5)[1]	✓	–	–		
8.	Unit wise Q&A and Objective type questions-20 questions in each unit with answers[1]	✓	–	✓		
9.	Unit wise course material [1]	✓	–	–		
10.	Assignment question paper with sample answer sheets (at least 3) and mark entry [234]	–	✓	✓		
11.	Tutorial question paper with key (minimum 3 Tutorials per unit, 15 Tutorials per course) and mark entry [234]	–	✓	✓		
12.	IA test Q Paper with Key, sample answer papers (at least 3) and mark entry[234]	–	✓	✓		
13.	IA Test- Performance analysis-CAP-evidence-root cause analysis. [234]	–	✓	✓		
14.	Makeup Test –Q paper-Attendance-marks - sample answer papers[234]	–	✓	✓		
15.	Remedial Test–Q paper-Attendance-marks - sample answer papers[234]	–	✓	✓		
16.	AU Web portal entry sheet[234]	–	–	–		
17.	Very poor performance in first two tests-action taken - communication to parents-evidence.[23]	–	–	–		
18.	Absence for two tests-action taken-communication to parents-evidence. [23]	–	–	–		
19.	Indiscipline of student reported, if any [234]	–	–	–		
20.	Special class/coaching class/remedial class/attendance-CAP [234]	–	–	–		
21.	Conduct of Seminar, Quizzes - proof[234]	–	–	–		
22.	Content beyond the syllabus – proof [234]	–	–	–		
23.	Course end survey [4]	–	–	✓		
24.	Internal Assessment sheet [4]	–	–	✓		
25.	AU question paper with students feedback [5]	–	–	✓		
26.	Discrepancy of the question paper and correspondence, if any [5]	–	–	–		
27.	AU result analysis-Details of arrear students. [5]	–	–	–		
28.	AU grade sheet [5]	–	–	–		
29.	CO – PO & PSO attainment sheet [5]	–	–	–		
	Signature of Course handling faculty					
	Signature of HoD					

	Saranathan College of Engineering Department of Mechanical Engineering			
	Sub Code &Name : ME8792 POWER PLANT ENGINEERING Branch: Mechanical Engineering Semester : VII		Date: 17.08.2022 Page 1 of 2	
Session No.	Topics to be covered	Duration	Ref	Teaching Method
UNIT I COAL BASED THERMAL POWER PLANTS				
1.	Rankine cycle - improvisations	1	T1	BB
2.	Layout of modern coal power plant, Super Critical Boilers	2	T1	BB
3.	FBC Boilers, Turbines, Condensers, Steam & Heat rate	1	T1	LCD
4.	Subsystems of thermal power plants	1	T1	LCD
5.	Fuel and ash handling, Draught system,	2	T1	BB
6.	Feed water treatment. Binary Cycles and Cogeneration systems.	2	T1	LCD
	Unit periods	9		
UNIT II DIESEL, GAS TURBINE AND COMBINED CYCLE POWER PLANTS				
1.	Otto and Diesel cycle	1	T1	LCD
2.	Dual cycle	1	T1	LCD
3.	Brayton cycle	1	T1	LCD
4.	Analysis Brayton cycle	1	T1	BB
5.	Optimisation. of Brayton cycle	2	T1	BB
6.	Components of Diesel and Gas Turbine power plants.	1	T1	BB
7.	Combined Cycle Power Plants.	1	T1	BB
8.	Integrated Gasifier based Combined Cycle systems.	1	T1	LCD
	Unit periods	9		
UNIT III NUCLEAR POWER PLANTS				
1.	Basics of Nuclear Engineering, Layout and subsystems of Nuclear Power Plants	1	T1	BB
2.	Working of Nuclear Reactors : Boiling Water Reactor (BWR),	2	T1	BB
3.	Pressurized Water Reactor (PWR), CANada Deuterium	2	T1	BB
4.	Uranium reactor (CANDU), Breeder,	2	T1	LCD
5.	Gas Cooled and Liquid Metal Cooled Reactors. Safety measures for Nuclear Power plants.	2	T1	BB & LCD
	Unit periods	9		

UNIT IV POWER FROM RENEWABLE ENERGY				
1.	Hydro Electric Power Plants	2	T1	BB
2.	Classification, Typical Layout and associated components including Turbines.	2	T1	LCD
3.	Principle, Construction and working of Wind, Tidal	1	T1	LCD
4.	Solar Photo Voltaic (SPV), Solar Thermal	2	T1	BB& LCD
5.	Geo Thermal, Biogas and Fuel Cell power systems.	2	T1	LCD
	Unit periods	**9**		
UNIT V ENERGY, ECONOMIC AND ENVIRONMENTAL ISSUES OF POWER PLANTS				
1.	Power tariff types	1	T1	LCD
2.	Load distribution parameters, load curve, Comparison of site selection criteria, relative merits & demerits,	2	T1	BB & LCD
3.	Capital & Operating Cost of different power plants.	2	T1	LCD
4.	Pollution control technologies including Waste Disposal Options for Coal Power Plants.	2	T1	BB
5.	Pollution control technologies including Waste Disposal Options for Nuclear Power Plants.	2	T1	LCD
	Unit periods	**9**		
	Total Unit periods	**45**		

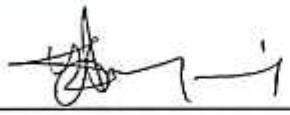
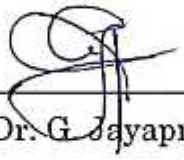
Note: T1 refers to Text book 1

	Prepared by	**Approved by**
Signature		
Name	Mr.K..Amarnath	Dr. G. Jayaprakash
Designation	Asst. Prof./Mechanical Engg.	H.O.D/Mechanical Engg.
Date	17.08.2022	17.08.2022

	Saranathan College of Engineering Department of Mechanical Engineering			
	Sub Code &Name : ME3491 Theory of Machines Branch: Mechanical Engineering Semester : IV		Date: 30.01.2023 Page 1 of 2	
Session No.	Topics to be covered	Duration	Ref	Teaching Method
UNIT - I KINEMATICS OF MECHANISMS				
1.	Mechanisms – Terminology and definitions	1	T1	PPT
2.	Kinematics inversions of 4 bar and slide crank chain	1	T1	BB
3.	Kinematics analysis in simple mechanisms	1	T1	BB
4.	Velocity and acceleration polygons	1	T1	BB
5.	Cams – classifications – displacement diagrams	2	T1	BB
6.	Layout of plate cam profiles	1	T1	BB
7.	Derivatives of followers motion	1	T1	BB
8.	Circular arc and tangent cams	1	T1	BB
	Unit periods	**9**		
UNIT - IV FORCE ANALYSIS				
1.	Applied and Constrained Forces	1	T1	BB
2.	Free body diagrams – static Equilibrium conditions	1	T1	BB
3.	Two, Three and four members	1	T1	BB
4.	Static Force analysis in simple machine members	1	T1	BB
5.	Dynamic Force Analysis – Inertia Forces and Inertia Torque	2	T1	BB
6.	D'Alembert's principle – superposition principle	1	T1	BB
7.	Dynamic Force Analysis in simple machine members.	2	T1	BB
	Unit periods	**9**		
UNIT - II GEARS AND GEAR TRAINS				
1.	Spur gear – law of toothed gearing	1	T1	BB
2.	Involute gearing – Interchangeable gears	2	T1	BB
3.	Gear tooth action interference and undercutting	2	T1	BB
3.	Gear trains – parallel axis gears trains	2	T1	BB
4.	Gear trains – automotive transmission gear trains	2	T1	BB
	Unit periods	**9**		

UNIT – V BALANCING AND VIBRATION				
1.	Static and Dynamic balancing	1	T1	BB
2.	Balancing of revolving and reciprocating masses	2	T1	BB
3.	Free vibrations – Equations of motion – natural Frequency	1	T1	BB
4.	Damped Vibration – bending critical speed of simple shaft	2	T1	BB
5.	Torsional vibration – Forced vibration	1	T1	BB
6.	harmonic Forcing – Vibration isolation	1	T1	BB
7.	Gyroscopic principles	1	T1	PPT
	Unit periods	**9**		
UNIT – III FRICTION IN MACHINE ELEMENTS				
1.	Surface contacts – Sliding and Rolling friction	1	T1	BB
2.	Friction drives – Friction in screw threads	1	T1	BB
3.	Bearings and lubrication	2	T1	BB
4.	Friction clutches	2	T1	BB
5.	Belt and rope drives	2	T1	BB
6.	Friction aspects in brakes	1	T1	BB
	Unit periods	**9**		
	Total Unit periods	**45**		

Note: T1 refers to Text book 1

	Prepared by	Approved by
Signature		
Name	Mr.P.Vigneshwar	Dr. G. Jayaprakash
Designation	Asst. Prof./Mechanical Engg.	H.O.D/Mechanical Engg.
Date	30.01.2023	30.01.2023

SARANATHAN COLLEGE OF ENGINEERING

(Approved by AICTE, Affiliated to Anna University-Chennai-25)

Department of Mechanical Engineering

(Accredited by NBA)

ASSIGNMENT

NAME	: HARISH.M
BATCH No.	: 236017
COURSE	: Design of Machine Elements
COURSE CODE	: ME8593
YEAR/SEC	: III / A
ACADEMIC YEAR	: 2022-2023/Odd

CONTENT (6)	SUBMISSION (2)	PRESENTATION (2)	TOTAL (10)	STAFF SIGNATURE
6	2	2	10	

SARANATHAN COLLEGE OF ENGINEERING

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Department of Mechanical Engineering

(Accredited by NBA)

Assignment - II		Date of Issue		Marks	10
Course Code	ME 8593	Course Title	Design of Machine Elements		
Year	III	Sem/Section	05	A	

Q.No	Questions	CO	PO	PSO
1.	Design a compression helical spring required to exert a minimum force at 250N and maximum force of 600N with deflection for the change in load is 15mm the spring must fit in the hole of 30mm diameter. The load is static type having ultimate tensile stress 1393 N/mm^2 and shear stress as 606 N/mm^2 take rigidity modulus as 80×10^3 N/mm^2.	302.5	2	2

Name and Signature of the Faculty In charge

[P.SURESH BABU]

HOD/MECH

Given

Minimum force (P_{min}) = 250N

Maximum force (P_{max}) = 600N

deflection for the change in load (y) = 15mm

maximum outside diameter (d_{omax}) = 30mm

ultimate tensile stress (σ_u) = 1393 N/mm²

Shear stress (τ) = 606 N/mm²

Rigidity modulus (G) = 80×10^3 N/mm²

To design

Design a helical spring

Solution

Step① calculation of springwirediameter

$$\tau = K_s \frac{8PC}{\pi d^2}$$ [DDB 7.100]

Assume C value between 3-6

$\therefore C = 5$

wahl stress factor (K_s) = $\frac{4C-1}{4C-4} + \frac{0.615}{C}$ [DDB 7.100]

$= \frac{4(5)-1}{4(5)-4} + \frac{0.615}{5}$

$K_s = 1.31$

$$\tau = \frac{1.31 \times 8 \times P_{max} \times 5}{\pi \times d^2}$$

$$606 = \frac{1.31 \times 8 \times 600 \times 5}{\pi \times d^2}$$

$d = 4.06$ mm

from [DDB 7.20] take standard diameter

$d = 4.5\,mm$

$C = D/d$ [DDB 7.100]

$5 \times 4.5 = D$

$D = 22.5\,mm$

$D_o = D + d$

$= 22.5 + 4.5$

$D_o = 27\,mm$

$D_{omax} > D_o$

The assumed C valve is correct

Step② calculate total no of coils in Spring

$$y = \frac{8PD^3n}{Gd^4}$$ [DDB 7.100]

$P_{difference} = P_{max} - P_{min}$

$= 600 - 250$

$= 350\,N.$

$$15 = \frac{8 \times 350 \times (22.5)^3 \times n}{80 \times 10^3 \times (4.5)^4}$$

$n = 15.42$ (active coils)

Total no. of Spring $n' = n + 2$ [DDB 7.101]

[squared and grand]

$n' = 15.42 + 2$

$n' = 17.42$

$n' = 18$

Step ③ calculate the solid height (or) length of the spring

$$L_s = d_n + 2d \quad [DDB\ 7.101]$$

$$L_s = 4.5 \times 15.42 + 2 \times 4.5$$

$$L_s = 78.39 \text{ mm}$$

Step ④ Calculation of free length of the spring

$$L_f = L_s + y$$

$$= 78.39 + 15$$

$$= 93.39 \text{ mm}$$

Step ⑤ calculation of pitch

$$L_s = Pn + 2d \quad [DDB\ 7.101]$$

$$93.39 = P \times 15.42 + 2 \times 4.5$$

$$P = 5.472 \text{ mm}$$

Step ⑥ Calculation of spring rate (or) stiffness

$$q = \frac{Gd^4}{8D^3n} \quad [DDB\ 7.100]$$

$$= \frac{80 \times 10^3 \times (4.5)^4}{8 \times (22.5)^3 \times 15.42}$$

$$q = 23.34 \text{ N/mm}$$

Step ⑦ Results

(i) Spring wire diameter (d) = 4.5 mm
(ii) Total no of coil (n') = 18
(iii) mean diameter of the spring (D) = 22.5 mm
(iii) No. of active coils (n) = 15.42
(iv) Solid length of the spring (L_s) = 78.39 mm
(v) free length of the spring (L_f) = 93.39 mm
(vi) Pitch of the coils (P) = 5.472 mm
(vii) Spring rate (q) = 23.34 N/mm

SARANATHAN COLLEGE OF ENGINEERING

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Department of Mechanical Engineering

(Accredited by NBA)

ASSIGNMENT

NAME : EVANGELINE SHEEBA.M

BATCH NO : 236010

COURSE : DESIGN OF MACHINE ELEMENTS

COURSE CODE : ME8593

YEAR/SEC : 3rd yr 'A'

CONTENT (6)	SUBMISSION (2)	PRESENTATION (2)	TOTAL (10)	STAFF SIGNATURE
06	02	02	10	

SARANATHAN COLLEGE OF ENGINEERING

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Department of Mechanical Engineering

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Assignment - 1		Date of Issue	23/9/22	Marks	
Course Code	ME8593	Course Title	DESIGN OF MACHINE ELEMENTS		
Year	3rd yr	Sem/Section	V SEMESTER	A	

Q.No	Questions	CO	PO	PSO
1.	A mild steel shaft it transmit 80 kW at 200 rpm the Allowable Shear Stress in the shaft is limitted to 45 N/mm² For key is the Allowable Shear Stress is 45 N/mm². Crushing strength for Bolt and key is 160N/mm² Shear Stress for Bolt material is 30N/mm². Then Shear value for cast iron 8N/mm². Design and Draw a cast iron flange coupling of protective type.	C 302.3	-	PSO1

28/09/22

Name and Signature of the Faculty Incharge

[R.SURESH BABU]

HOD/MECH

23/9/22

EVANGELINE SHEEBA.M
23601D
3rd yr MECH

1) A mild steel shaft it transmits 80 KW at 200 rpm the Allowable shear stress in the shaft is limitted to 45 N/mm². for key is 45 N/mm². Crushing strength for Bolt and key is 160 N/mm². Shear Stress for Bolt material is 30 N/mm². then shear value for cast iron 8 N/mm². Design and draw a cast iron flange coupling of protective type.

Given data:

(i) power transmits $P = 80\ KW$

(ii) Shaft Speed $N = 200\ rpm$

(iii) Allowable shear stress for shaft $[\tau]_{shaft} = 45\ N/mm^2$

(iv) Allowable shear stress for key $[\tau]_{key} = 45\ N/mm^2$

(v) Allowable Crushing stress $[\sigma_c]_{key} = 160\ N/mm^2$

(vi) Crushing stress Bolt $_{BOLT} = 160\ N/mm^2$.

(vii) Shear stress for Bolt $[\tau]_{BOLT} = 30\ N/mm^2$.

(viii) Shear value for cast iron. $[\tau_c]_{cast\ iron} = 8\ N/mm^2$.

To Find:

Design and draw a cast iron.

Solution:

Step ① To find shaft diameter

$$P = \frac{2\pi N}{60}$$

$$80 \times 10^3 = \frac{2 \times \pi \times 200}{60}$$

$$= \frac{80 \times 10^3}{20 \cdot 94}$$

$$T = 3819.7$$

$$\boxed{T = 3819718.6 \text{ N mm}}$$

$$T = \frac{\pi}{16} \cdot \tau_c \cdot d^3$$

$$3819718.6 = \frac{\pi}{16} \cdot 45 \cdot d3$$

$$= 0.1963 \times 45 \times d3$$

$$= \frac{3819718.6}{0.1963 \times 45}$$

$$= \frac{3819718.6}{8.8335}$$

$$d3 = \sqrt[3]{432412.8}$$

$$\boxed{d = 75.6 \text{ mm}}$$

[Pg. No. 7.20. DDB]

Standard diameter of the shaft. $d = 80 \text{ mm}$ //.

Step ② Flange Coupling: [Pg. No: 9 ADDB]

(i) $D = 2d$

$= 2 \times 80$

$$\boxed{D = 160 \text{ mm}}$$

(ii) $L = 1.5\, d$

$= 1.5 \times 80$

$$\boxed{L = 120 \text{ mm}}$$

(iii) $D_1 = 3d$

$= 3 \times 80$

$\boxed{D_1 = 240 \text{ mm}}$

(iv) $D_2 = 4 \times d$

$= 4 \times 80$

$\boxed{D_2 = 320 \text{ mm}}$

(v) $t_f = d/2$

$= 80/2$

$\boxed{t_f = 40}$

(vi) $n = 4$

(vii) $t_p = d/4$

$= 80/4$

$\boxed{t_p = 20}$

Step (3) hub Design [PG: NO: 9 ADD13]

$$T = \frac{J_1}{r_0} \tau_c \left(\frac{D^4 - d^4}{D} \right)$$

$$3819118.6 = \frac{\pi}{16} \cdot \tau_c \cdot \left[\frac{160^4 - 80^4}{160} \right]$$

$$3819118.6 = 753982.236 \tau_c$$

$$\boxed{\tau_c = 5.066 \text{ N/mm}^2}$$

Step (4) Key [Pg:No:9] ADDB

(i) width $b = 22$

(ii) height $h = 14$

$$T = l \cdot w \cdot \tau_k \cdot d/2$$

$$3819718.6 = 125 \times 22 \times \tau_k \times \frac{80}{2}$$

$$= 125 \times 22 \times 40$$

$$\tau_k = \frac{3819718.6}{110000}$$

$$\boxed{\tau_k = 34 \ N/mm^2}$$

$$T = l \cdot (t/2) \cdot \sigma_c \cdot (d/2)$$

$$3819718.6 = 125 \times 62.5 \times \sigma_c \cdot (80/2)$$

$$= 125 \times 62.5 \times 40$$

$$= \frac{3819718.6}{312500}$$

$$\boxed{\sigma_c = 12 \ N/mm^2}$$

Step (5) Flange. [Pg:No:9] ADDB

$$T = \pi \left[D^2/2\right] \cdot \tau_c \cdot t_f$$

$$3819718.6 = \pi \left[(160)^2 \div 2\right] \cdot 8 \cdot 40$$

$$= \pi \times 12800 \times 8 \times 40$$

$$= 3819718.6 \div 1286 1463.51$$

$$\boxed{\tau_c = 0.29 \ N/mm^2}$$

Step (6) Bolts. [Pg: No: 9 ADDB]

$$T = n \cdot [\pi/4] \cdot d_1^2 \cdot \tau_b \cdot [D_1/2].$$

$$3819718.6 = 4 \cdot [\pi/4] \cdot d_1^2 \cdot (30) \left[\frac{240}{2}\right]$$

$$= d_1^2 \times 11309.73$$

$$d_1^2 = 337$$

$$d_1 = \frac{18.37}{0.85}$$

$$\boxed{d_1 = 21.62 \text{ mm}}$$

$$T = n \cdot d_1 \cdot t_f \cdot \sigma_{cb} \left[D_1/2\right]$$

$$= 4 \times 21.62 \times 40 \times \sigma_{cb} \left[\frac{240}{2}\right]$$

$$3819718.6 = \sigma_{cb} \times 45104$$

$$\boxed{\sigma_{cb} = 9.2018 \text{ N/mm}^2.}$$ ∴ The Design is Safe. //

Result:

(i) diameter of the shaft $d = 80$ mm

(ii) Hub Design $\tau_c = 5.066$ N/mm^2

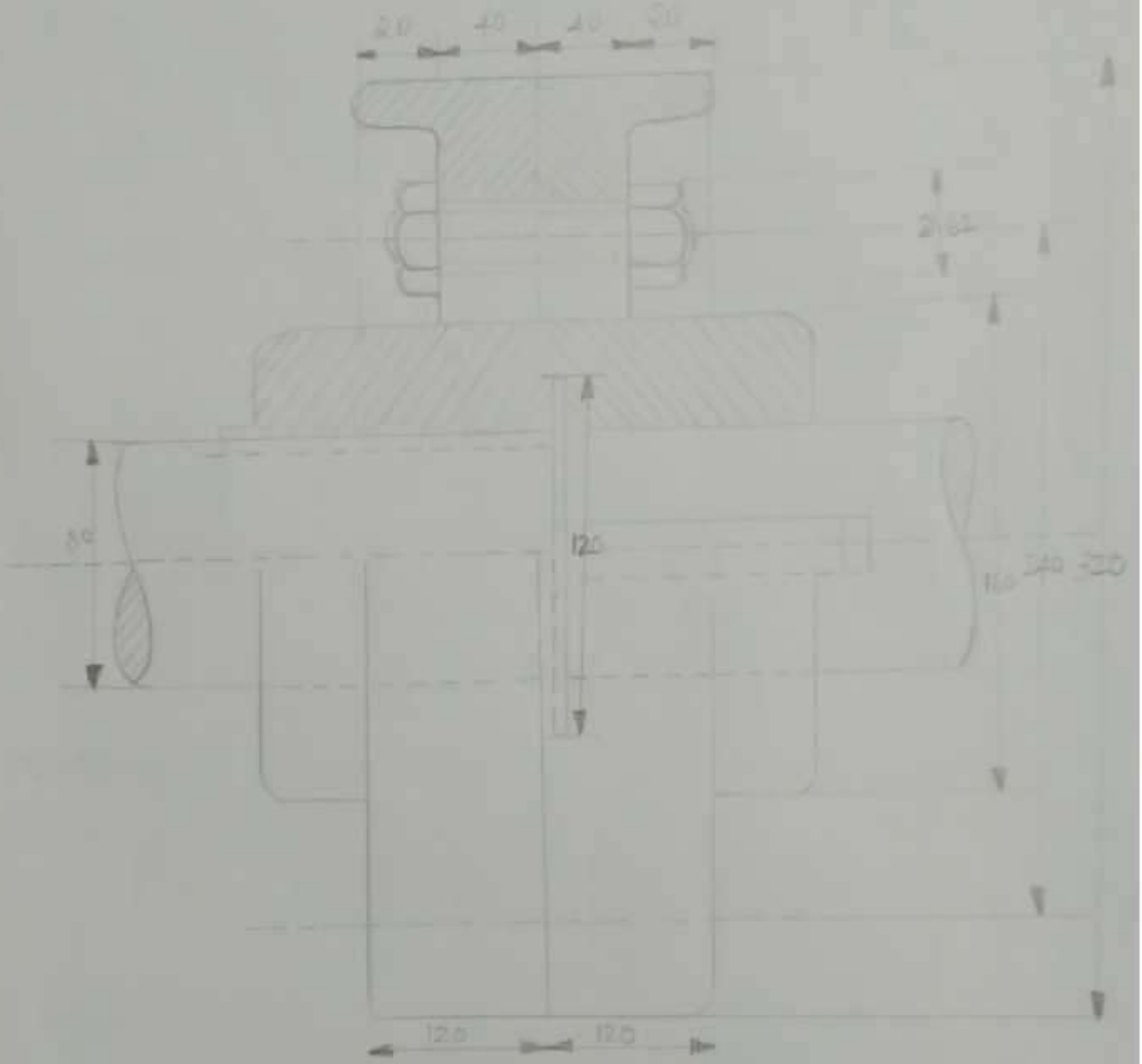
(iii) For shear value of key $\tau_k = 34$ N/mm^2

For crushing shear value of key $\sigma_c = 12$ N/mm^2.

(iv) Flange $\tau_c = 0.29$ N/mm^2

(v) Bolts $d_1 = 21.62$ mm

$\sigma_{cb} = 9.2018$ N/mm^2.



PROTECTIVE TYPE FLANGE COUPLING

SARANATHAN COLLEGE OF ENGINEERING

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Department of Mechanical Engineering

(Accredited by NBA)

ASSIGNMENT

NAME : Y. MICHAEL SANTHOSH

BATCH No. : 236030

COURSE : Design of Transmission Systems

COURSE CODE : ME8651

YEAR/SEC : III / A

ACADEMIC YEAR : 2022-2023/Even

CONTENT (6)	SUBMISSION (2)	PRESENTATION (2)	TOTAL (10)	STAFF SIGNATURE
6	2	2	10	

SARANATHAN COLLEGE OF ENGINEERING

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Department of Mechanical Engineering

(Accredited by NBA)

Assignment - II		Date of Issue		Marks	10
Course Code	ME 8651	Course Title	Design of Transmission Systems		
Year	III	Sem/Section	06	A	

Q.No	Questions	CO	PO	PSO
1.	Design a V belt drive for the following specification Power to be transmitted 75KW speed of the driving wheel 1440 rpm speed of the driven wheel 400 rpm Diameter of the driven wheel 300mm centre distance 1000mm and service 16 hours per day.	309.2	3	3

Name and Signature of the Faculty In charge

[R. SURESH BABU]

HOD/MECH

Given data:

Power $P = 7.5$ KW

Speed of driving wheel $N_1 = 1440$ rpm

Speed of driven wheel $N_2 = 400$ rpm

Diameter of driven wheel $d = 300$ mm

Centre distance $C = 1000$ mm

Working = 16 hrs

To design

To design a v belt drive

Sol:

Step 1: Selection of belt cross section symbol

P = 7.5 KW [DDB 7.58]

Cross section symbol = (B)

STep 2: Selection of smaller and large pulley diameter. [DDB 7.54]

Selection of smaller pulley diameter

$d_1 = 315\ mm$

Here the given standard pulley diameter is not standard

$d_1 N_1 = D N_2$

$315 \times 1440 = D \times 400$

$D = 1134\ mm$ [DDB 7.54]

Standard valve $D = 1250\ mm$

Step3: Calculation of centre distance.

[DDB 7.61]

C = 1000mm

If C not given, length of the chain will be given. Find A and B and then substitute in C

If C and length is not given

assume centre distance b/w (1000 mm - 1500 mm)

Step4: Determination of nominal pitch length of the belt.

(DDB 7.61)

$$L = 2C + \frac{\pi}{2}(D+d) + \frac{(D-d)^2}{4C}$$

$$L = 2\times1000 + \frac{\pi}{2}(1250+315) + \frac{(1250-315)^2}{4\times1000}$$

$$L_{cal} = 2225.62 + 2434.73$$

$$L_{cal} = 4660$$

$$L_{stand} = 4996$$

Steps:

i) length correction factor

[DDB 7.60]

$F_C = 1.18$

ii) Area of contact factor

(DDB 768)

$= 180 - 60\left(\frac{D-d}{c}\right)$

$= 180 - 60\left(\frac{1250-315}{1000}\right)$

$= 123.9$

$F_d = 0.85$

iii) service factor

(DDB 7.69)

assume a light duty is not given

$Fa = 1.3$

Step 6 Calculation of maximum Power capacity

[DDB 7.62]

$Kw: (0.795^{-0.09} - \frac{50.8}{d_e} - 1.32 \times 10^{-4} 5^2) 5$

$de = dp \times F_b$

$= 315 \times 1.14$

$de = 342$

So $342 > 175$

So take 175

$de = 175$

$S = \frac{\pi d_1 N_1}{60}$

$= \frac{\pi \times 315 \times 1440}{60}$

$= \frac{22619.4}{1000}$

$S = 23.75 \text{ m/s}$

$kw = \left[0.79 (23.75)^{-0.09} - \frac{50.8}{175} - 1.32 \times 10^{-4} (23.75)^2\right] (23.75)$

$= (0.5940 - 0.2903 - 0.0745)(23.75)$

$kw = 5.44$

Step 7: Number of belts

$$\text{Number of belts} = \frac{P \times F_a}{K_w \times F_c \times F_d}$$

$$= \frac{7.5 \times 1.3}{5.64 \times 1.18 \times 0.85}$$

$$= 1.178$$

No of belts = 2

Step 8: Calculation of revised centre distance

$$C = A + \sqrt{A^2 - B}$$

$$A = \frac{L}{4} - \pi\left(\frac{D+d}{8}\right)$$

$$A = \frac{4996}{4} - \pi\left(\frac{1250 + 315}{8}\right)$$

$$A = 1249 - 614.57$$

$$A = 634.43$$

$$B = \frac{(D-d)^2}{8}$$

$$= \frac{(1250-315)^2}{8}$$

$$B = 109278.125$$

$$C = A + \sqrt{A^2 - B}$$

$$C = 634.43 + \sqrt{(634.43)^2 - 109278.125}$$

$$C = 1175.93 mm$$

RESULT:

i) smaller pulley diameter — $d = 315 mm$

ii) Larger pulley diameter — $D = 1250 mm$

iii) Centre distance — $C = 1175.93 mm$

iv) Nominal pitch length of the bolt — $L_{std} = 4996$

v) No of belts — : 2 belts

$$B = \frac{(D-d)^2}{8}$$

$$= \frac{(1250-315)^2}{8}$$

$$B = 109278.125$$

$$C = A + \sqrt{A^2 - B}$$

$$C = 634.43 + \sqrt{(634.43)^2 - 109278.125}$$

$$C = 1175.93 mm$$

RESULT:

i) Smaller Pulley diameter — $d = 315 mm$

ii) Larger Pulley diameter — $D = 1250 mm$

iii) Centre distance — $C = 1175.93 mm$

iv) Nominal pitch length of the belt — $L_{std} = 4996$

v) No of belts — : 2 belts

SARANATHAN COLLEGE OF ENGINEERING

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Department of Mechanical Engineering

(Accredited by NBA)

ASSIGNMENT

NAME : SANTHOSH . B

BATCH No. : 236049

COURSE : Design of Transmission Systems

COURSE CODE : ME8651

YEAR/SEC : III / A

ACADEMIC YEAR : 2022-2023/Even

CONTENT (6)	SUBMISSION (2)	PRESENTATION (2)	TOTAL (10)	STAFF SIGNATURE
6	2	2	10	

SARANATHAN COLLEGE OF ENGINEERING

(Approved by AICTE,Affiliated to Anna University-Chennai-25)

Department of Mechanical Engineering

(Accredited by NBA)

Assignment - 1		Date of Issue		Marks	10
Course Code	ME 8651	Course Title	Design of Transmission Systems		
Year	III	Sem/Section	06	A	

Q.No	Questions	CO	PO	PSO
1.	A Steel worm running at 840 rpm receives 15 kW from the shaft. The speed reduction ratio is 10:1. Design the drive so as to have an efficiency of 80% also determine the cooling Area Required if the temperature raise is restricted to 45°C. Take overall heat transfer coefficient as 10 $W/m^2 \cdot °C$	309.4	04	01

Name and Signature of the Faculty In charge

[R. SURESH BABU]

HOD/MECH

Given data

Material of Worm – Steel

Power (P) : 1.5×10^3 W

Speed (N_1) : 240 rpm

Speed reduction ratio (i) : 10 : 1

Efficiency (η) : 80 % ⇒ 0.80

Temperature raise ($t_o - t_a$) : 45°C

Heat transfer coefficient (U) : 10 $W/m^2°C$

To design Worm Wheel Drive

Step 1: Material selection [DDB 8.45]

Worm Wheel material → Bronze (Assume)

$\sigma_u = 160\ N/mm^2$, HB = 60 } Sand cast [DDB 1.40]

Step 2: Selection of Design bending Stress [DDB 8.45]

Table 33

For Sand cast → $\sigma_u < 39$

$[\sigma_b] = 500\ kgf/cm^2$

$\therefore [\sigma_b] = 50\ N/mm^2$

Step 3: Selection of Design Contact stress [DDB 8.45]

For Bronze, $V = 3$ m/s (Assume)

$[\sigma_c] = 1590$ kgf/cm^2

$\therefore [\sigma_c] = 159$ N/mm^2

Step 4: Selection of Z_1 and Z_2 [DDB 8.46]

Table 37

for $\eta = 0.80$ $\boxed{Z_1 = 4}$

$P = \frac{Z_2}{Z_1} \Rightarrow Z_2 = P \times Z_1$

$= 10 \times 4$

$\boxed{Z_2 = 40}$

Step 5: Calculation of Design torque [DDB 8.15 & 8.44]

$[M_t] = M_t \cdot k_d \cdot k$

we know, $P = \frac{2\pi \cdot N_1 \cdot M_t}{60}$

$1.5 \times 10^3 = \frac{2 \cdot \pi \times 240 \times M_t}{60}$

$\therefore \boxed{M_t = 59683.103}$ Nmm

[DDB 8.44]

$k_d = 1$

$k = 1$

$$\therefore \boxed{[M_t] = 59683.103} \text{ Nmm}$$

Step 6: calculation of centre distance [DDB 8.44]

$$a = \left(\frac{Z_2}{q} + 1\right) \sqrt[3]{\left(\frac{590}{\frac{Z_2}{q}[\sigma_c]}\right)^2 [M_t]}$$

$q = 11$ (Assume)

$$a = \left(\frac{40}{11} + 1\right) \sqrt[3]{\left(\frac{590}{\frac{40}{11} \times 189}\right)^2 (59683.103)}$$

$$\therefore \boxed{a = 173.12} \text{ mm}$$

Step 7: To find Axial Module [DDB 8.43]

$$m_x = \frac{2a}{q + Z_2 + 2x}$$

$$= \frac{2(173.12)}{11 + 40 + 0} \quad \because (x \text{ always zero})$$

$$\boxed{m_x = 6.78} \text{ mm}$$

The standard value for Axial Module $m_x = \underline{\underline{8 \text{ mm}}}$

Step 8: Calculation of Revised centre distance [DDB 8.43]

$$a = 0.5\, m_x (q + z_2 + 2x)$$

$$= 0.5 \times 8 (11 + 40 + 0)$$

$$\therefore \boxed{a = 204} \text{ mm}$$

Step 9: Calculation of Pitch circle diameter, lead angle, sliding velocity

[DDB 8.43]

Pitch diameter for worm $d_1 = q\, m_x$

$$= 11 \times 8$$

$$\boxed{d_1 = 88} \text{ mm}$$

Pitch diameter for worm wheel $d_2 = z_2\, m_x$

$$= 40 \times 8$$

$$\boxed{d_2 = 320} \text{ mm}$$

Lead Angle $\tan\gamma = \frac{z_1}{q}$

$$\gamma = \tan^{-1}\left(\frac{4}{11}\right)$$

$$\therefore \boxed{\gamma = 19.98^\circ}$$

Sliding velocity $V_s = \frac{V_1}{\cos\gamma}$ [DDB 8.44]

$$V_1 = \frac{\pi \times d_1 \times 240}{60 \times 1000} \Rightarrow \frac{\pi \times 88 \times 240}{60 \times 1000}$$

$$\boxed{V_1 = 1.10} \text{ m/s}$$

$$\therefore \quad V_s = \frac{1.10}{\cos(19.98)}$$

$$\boxed{V_s = 1.17} \text{ m/s}$$

Step 10 : Recalculation of Contact Stress $[\sigma_c]$ [DDB 8.45]

For $V_s = 1.17$ m/s ,

By interpolation,

V_s	$[\sigma_c]$
1	1760
$\frac{2}{1}$	$\frac{1680}{80}$

$V_c = 1.17$
$= 1 + 0.17$

$$\frac{1}{80} = \frac{0.17}{x} \Rightarrow \boxed{x = 13.6}$$

$$[\sigma_c] = 1760 - 13.6 \Rightarrow [\sigma_c] = 1746.4 \text{ kgf/cm}^2$$

$$\boxed{[\sigma_c] = 174.64} \text{ N/mm}^2$$

Step 11: Recalculation of Design Torque

$$[M_t] = 59683.103 \text{ Nmm}$$

Step 12: Recalculation of Induced bending stress

$$\sigma_b = \frac{1.9\,[M_t]}{m_x^3\, q\, z_2\, Y_v} \qquad [\text{DDB } 8.44]$$

$$z_v = \frac{z_1}{\cos^2 \gamma}$$

$$= \frac{4}{\cos^2(19.98)} \Rightarrow \boxed{z_v = 4.528}$$

From [DDB 8.18]

for $Z_V = 4.72$, $\boxed{Y_V = 0.308}$

$$\sigma_b = \frac{1.9 \times 59683.103}{8^3 \times 11 \times 40 \times 0.308}$$

$$\boxed{\sigma_b = 1.634} \text{ N/mm}^2 < [\sigma_b]$$

Design is Safe

Step 13: Calculation of Induced Contact Stress

$$\sigma_c = \frac{590}{\frac{z_2}{q}} \sqrt{\left(\frac{z_2/q + 1}{a}\right)^3 [H_t]} \qquad [DDB\ 8.44]$$

$$= \frac{590}{40/11} \sqrt{\left(\frac{40}{11} + 1\right)^3 \times (59683.103)}$$

$$\therefore \boxed{\sigma_c = 124.29} \text{ N/mm}^2 \leq [\sigma_c]$$

Design is Safe

Step 14: Check for Efficiency (η)

$$\eta = \frac{\tan \gamma}{\tan(\gamma + \rho)} \qquad [DDB\ 8.49]$$

To find ρ,

$$\mu = \tan \rho \qquad [DDB\ 8.49]$$

From graph, for $V_s = 1.17$ m/s

$$\mu = 0.055$$

$$\therefore \rho = \tan^{-1}(0.055)$$

$$\boxed{\rho = 3.20^\circ}$$

$$\eta = \frac{\tan 19.98}{\tan(19.98 + 3.20^\circ)} \Rightarrow \boxed{\eta = 84.88\%}$$

Step 15: Cooling Area Required

$$[1 - \eta] \times \text{power} = U \times A\ (t_o - t_a)$$

$$(1 - 0.8488) \times 1.5 \times 10^3 = 10 \times A\ (45)$$

$$\boxed{A = 0.504}\ m^2$$

Step 16: Various Dimensions

1. Centre distance $a = 204$ mm
2. Face width $b = 0.67 \times d_1$ [DDB 8.48]
   $= 0.67 \times 88$
   $b = 58.96$ mm
3. Axial Module $m_x = 8$ mm

4. No. of teeth on wheel $z_2 = 40$

5. Height factor $f_o = 1$

6. Worm (i) Reference diameter $d_1 = q m_x$

$= 11 \times 8$

$d_1 = 88$ mm

(ii) Tip diameter $d_{a_1} = d_1 + 2 f_o m_x$

$= 88 + (2 \times 1 \times 8)$

$d_{a_1} = 104$ mm

(iii) Root diameter $d_{f_1} = d_1 - 2 f_o m_x - 2c$

$= 88 - (2 \times 1 \times 8) - 2(0.2)$

$d_{f_1} = 71.6$ mm

7. Worm Wheel

(i) Reference diameter $d_2 = z_2 m_x$

$= 40 \times 8$

$d_2 = 320$ mm

(ii) Tip diameter $d_{a_2} = (z_2 + 2 f_o + 2x) m_x$

$= (40 + 2(1) + 2(0))8$

$d_{a_2} = 336$ mm

(iii) Root diameter $d_{f_2} = (z_2 - 2 f_o) m_x - 2c$

$= (40 - 2(1))8 - 2(0.2)$

$d_{f_2} = 303.6$ mm

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Department of Mechanical Engineering

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TUTORIAL

NAME : S. Tharvin

BATCH No. : 236060

COURSE : ME8593

COURSE CODE : Design of Machine Elements

YEAR/SEC : III / A

Academic Year : 2022 – 23 - Odd

SUBMISSION (5)	SOLVING METHODOLOGY (5)	TOTAL (10)	STAFF SIGNATURE
5	5	10	

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Department of Mechanical Engineering

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Tutorial - II		Date of Issue		Marks	10
Course Code	ME8593	Course Title	Design of Machine Elements		
Year	III	Sem/Section	V	A	

Q.No	Questions	CO	PO	PSO
1	A knuckle joint is to transmit a force of 140kN with allowable stress in tension, shear, compressive are 75N/mm^2, 65N/mm^2 140N/mm^2 respectively Design the joint	C302.5	P03	01

Name and Signature of the Faculty Incharge

[R. SUKESH BABU]

HOD/MECH

Given

load (P) = 140N

Tensile Stress $[\sigma_t]$ = 75N/mm²

Shear Stress [τ] = 65N/mm²

Compressive Stress $[\sigma_c]$ = 140N/mm²

To Design

To Design the knuckle joint

Solu

Step 1: To find diameter of shaft (or) rod

$$\sigma_t = \frac{P}{A}$$

$$75 = \frac{140 \times 10^3}{\frac{\pi}{4} d^2}$$

$$d = 48.75mm$$

The standard diameter of shaft is 50mm

[D.D.B 7.20]

Step 2: To find various propotions of knuckle joint

i) Diameter of pin [A.D.D.B 4]

$$d_1 = d$$

$$d_1 = 50mm$$

ii) Outer Diameter of the Eye

$d_2 = 2d$

$d_2 = 100mm$

iii) Diameter of the pin Head

$d_3 = 1.5d$

$d_3 = 75mm$

iv) Thickness of the eye $t = 1.25d$

$t = 62.5mm$

v) Thickness of the fork $t_1 = 0.75d$

$t_1 = 37.5mm$

vi) Thickness of pin head $t_2 = 0.5d$

$t_2 = 25mm$

Step 3: Design of knuckle joint based on shear stress

Shear Stress

i) Induced Stress acting in knuckle pin

$$\tau = \frac{P}{A}$$

$$= \frac{140 \times 10^3}{\left[\frac{\pi}{4} \times d_1^2\right] \times 2} = \frac{140 \times 10^3}{\left[\frac{\pi}{4} \times 50^2\right] \times 2}$$

$$\tau = 35.65 \ N/mm^2$$

$$[\tau] > \tau$$

Design is Safe

ii) Induced Shear Stress Acting on Single eye end

$$\tau = P/A$$

$$= \frac{140 \times 10^3}{(d_2 - d_1)t} = \frac{140 \times 10^3}{(100-50)\,62.5}$$

$$\tau = 44.8\ N/mm^2$$

Design is safe

iii) Induced Shear Stress acting on Double eye

$$\tau = \frac{P}{A}$$

$$= \frac{140 \times 10^3}{(d_2 - d_1)\,t_1 \times 2}$$

$$= \frac{140 \times 10^3}{(100-50)\,37.5 \times 2}$$

$$\tau = 37.33\ N/mm^2$$

Design is safe

Step 4 : Design of knuckle joint based on tensile Strength

i) Induced tensile Stress on Single eye

$$\sigma_t = P/A$$

$$= \frac{140 \times 10^3}{(d_2 - d_1)t}$$

$$= \frac{140 \times 10^3}{(100-50)\,62.5}$$

$\sigma_t = 44.8\ N/mm^2$

Design is safe

ii) Induced tensile stress act on double eye

$$\sigma_t = \frac{P}{A}$$

$$\sigma_t = \frac{140 \times 10^3}{(d_2 - d_1) t_1 \times 2}$$

$$= \frac{140 \times 10^3}{(100 - 50)\ 87.5 \times 2}$$

$$\sigma_t = 37.33\ N/mm^2$$

Design is safe

Step 5: Design of knuckle joint based on crushing stress

i) Induced crushing stress of single eye

$$\sigma_c = P/A$$

$$= \frac{140 \times 10^3}{(d_2 - d_1) t}$$

$$= \frac{140 \times 10^3}{(100 - 50)\ 62.5}$$

$$\sigma_c = 44.8\ N/mm^2$$

ii) Induced Crushing Stress on double eye

$$\sigma_c = \frac{P}{A}$$

$$\sigma_c = \frac{140 \times 10^3}{(d_2 - d_1) t \times 2}$$

$$= \frac{140 \times 10^3}{(100 - 50) 37.5 \times 2}$$

$$\sigma_c = 37.33 \text{ N/mm}^2$$

Design is safe

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TUTORIAL

NAME : MONIKA.B

BATCH No. : 236035

COURSE : ME8593

COURSE CODE : Design of Machine Elements

YEAR/SEC : III / A

Academic Year : 2022 – 23 - Odd

SUBMISSION (5)	SOLVING METHODOLOGY (5)	TOTAL (10)	STAFF SIGNATURE
5	5	10	

SARANATHAN COLLEGE OF ENGINEERING

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Tutorial - I		Date of Issue	29.08.2022	Marks	10
Course Code	ME8593	Course Title	Design of Machine Elements		
Year	III	Sem/Section	V	A	

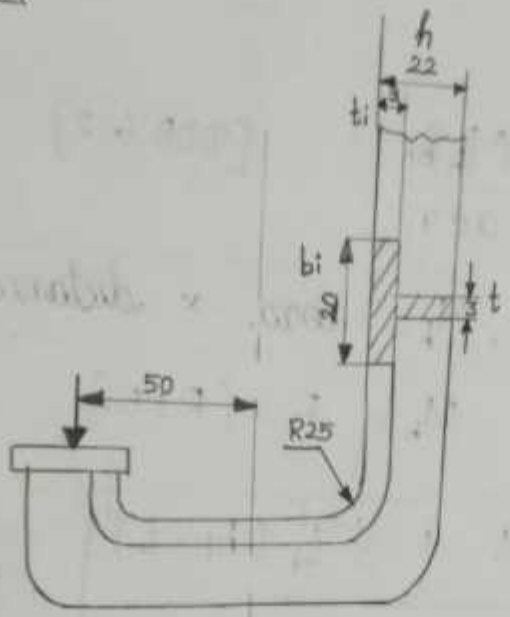
Q.No	Questions	CO	PO	PSO
1	A C-clamp is to bear the force 'F' applied on it. It has a T-section as shown in figure. Find the force, F if the maximum tensile stress in the clamp is limited to 130 MPa.	302.1	2	2

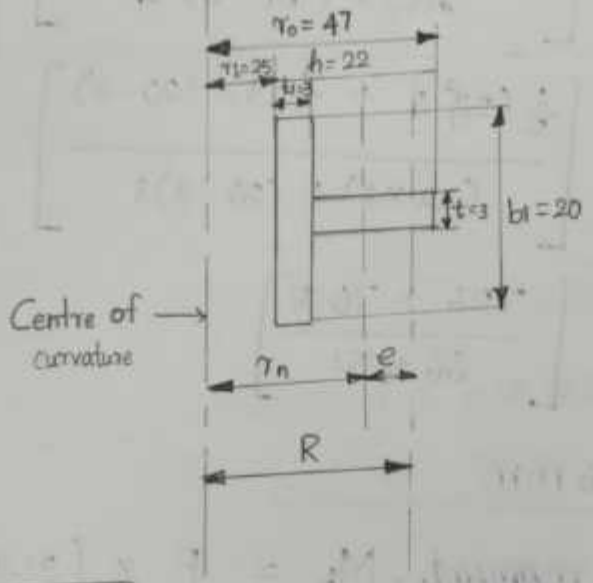
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[R. SURESH BABU]

HOD/MECH

Solution:





(i) Direct stress:

$$\sigma_d = \frac{\text{Load}}{\text{area}}$$

Area of T-section $= (20 \times 3) + (19 \times 3) = 117\ mm^2$

$$\sigma_d = \frac{F}{117}\ N/mm^2$$

(ii) Bending stress:

$$|\sigma_b|_{max} = \frac{M_b h_i}{ae r_i} \quad [DDB\ 6.2]$$

Bending moment, M_b = Load × distance

$$M_b = F \times (R+50)$$

$$R = r_i + \left[\frac{\frac{1}{2}h^2 t + \frac{1}{2}t_i^2 (b_i - t)}{ht + (b_i - t)t_i}\right] \quad [DDB\ 6.3]$$

$$R = 25 + \left[\frac{\frac{1}{2}(22)^2 3 + \frac{1}{2}(3)^2 (20-3)}{(22\times 3) + (20-3)3}\right]$$

$$R = 25 + \left[\frac{726 + 76.5}{66 + 51}\right]$$

$$R = 31.86 \text{ mm}$$

Bending moment, $M_b = F \times (31.86 + 50)$

$$M_b = 81.86F \text{ Nmm}$$

$$r_n = \frac{(b_i - t)t_i + th}{(b_i - t)\ln\left(\frac{r_i + t_i}{r_i}\right) + t\ln\left(\frac{r_o}{r_i}\right)} \quad [DDB\ 6.3]$$

$$r_n = \frac{(20-3)3 + 3(22)}{(20-3)\ln\left(\frac{25+3}{25}\right) + 3\ln\left(\frac{47}{25}\right)}$$

$$r_n = 30.63 \text{ mm}$$

$$h_i = r_n - r_i$$

$$h_i = 30.63 - 25$$

$$h_i = 5.63 \text{ mm}$$

$$e = R - r_n$$

$$e = 31.86 - 30.63$$

$$e = 1.23 \text{ mm}$$

$$|\sigma_{b_{max}}| = \frac{81.86 F \times 5.63}{117 \times 1.23 \times 25}$$

$$|\sigma_{b_{max}}| = 0.128 F$$

(iii) Total stress:

$$\sigma = \sigma_d + \sigma_b$$

$$\sigma = 130 = \frac{F}{117} + 0.128 F$$

$$130 \times 117 = F + 14.99 F$$

$$F = 951.23 \text{ N}$$

Result:

The force, $F = 951.23$ N

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TUTORIAL

NAME : V. ADHITHYA

BATCH No. : 236002

COURSE : ME8651

COURSE CODE : Design of Transmission Systems

YEAR/SEC : III / A

Academic Year : 2022 – 23 - Even

SUBMISSION (5)	SOLVING METHODOLOGY (5)	TOTAL (10)	STAFF SIGNATURE
5	5	10	

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Tutorial - I		Date of Issue		Marks	10
Course Code	ME8651	Course Title	Design of Transmission Systems		
Year	III	Sem/Section	VI / A		

Q.No	Questions	CO	PO	PSO
1	Design a Spur gear drive for a stone crusher where the gears are made up of C40 steel. the pinion is transmitting 30kW at 1200 rpm. The gear ratio is 3. Take Working life of the gear as 7500 hours.	309.3	1	01

Name and Signature of the Faculty Incharge

[R. SURESH BABU]

HOD/MECH

Given data:

Material of pinion and gear = C40 steel.

Power (P) = 30 kW = 30×10^3 W

(N_1) = 1200 rpm

Gear ratio (i) = 3

Gear life (N) = 7500 hrs.

To find:

Design a Spur gear drive.

Solution:

Step 1: Check For Weaker element:

Here pinion and gear are made up of Same material and hence we assume that pinion is weaker than gear. So we design only For pinion.

Step 2: Material Selection:

For C40 steel take [D.D.B-1.9]

i) Tensile strength (σ_u) = 680 N/mm²

ii) Yield stress (σ_y) = 330 N/mm^2

iii) Brinell hardness (HB) = 217

Step 3: Calculation of gear life in number of Cycles:

$= N \times 60 \times N_1$

$= 7500 \times 60 \times 1200$

Gear life $= 54 \times 10^7$ Cycles.

Step 4: Equivalent young's modulus : [D.D.B-8.14]

Young's modulus $= 2.15 \times 10^6$ kgf/cm^2

$= 2.15 \times 10^6 \times 10/10^2$ N/mm^2

$E = 2.15 \times 10^5$ N/mm^2

Equivalent young's modulus (Eeq) = 2.15×10^6 kgf/cm^2

(Eeq) = 2.15×10^5 N/mm^2

Step 5: Calculation of design bending stress [σ_b]:

$$[\sigma_b] = \frac{1.4}{n} \frac{K_{bl}}{K_\sigma} \sigma_{-1}$$ [D.D.B-8.18]

* K_{bl} → life factor for bending [D.D.B-8.20]

Based on HB-value in steel the $K_{bl} = 1$

* Value of σ^{-1} [D.D.B-8.19]

From Cast steels $= \sigma^{-1} = 0.22(\sigma_u + \sigma_y) + 500$ (kg/cm^2)

$$\sigma^{-1} = 0.22(680-330) + 500/10$$

$$\sigma^{-1} = 272.2 \ N/mm^2$$

* Factor of safety (n) [D.D.B-8.19]

From material (steel), mode of manufacture (cast).

Heat treatment not mentioned. So.

$n = 2$

* Stress Concentration Factor $K(\sigma)$ = Steel Case hardened = 1.2 [D.D.B-8.19]
$(0 \leq x \leq 0.1)$

$$[\sigma_b] = \frac{1.4}{2} \times \frac{1}{1.2} \times 272.2$$

$$[\sigma_b] = 158.78 \ N/mm^2$$

Step 6: Calculation of design contact stress: $[\sigma_c]$

From Coefficient C_B & C_R [D.D.B-8.16]

C_{40} steel - Hardened and tempered

HRC = 55

CR = 265

$[\sigma_c] = C_R \ HRC \ K_{CL}$ [D.D.B-8.16]

$[\sigma_c] = 265 \times 55 \times 1$

$[\sigma_c] = 1457.5 \ N/mm^2$

Life factor (K_{cl}) = 1 [D.D.B-8.16]

Step7: Calculation of design torque:

$[M_t] = M_t \, K_d \, K$ → [D.D.B-8.15]

$P = \frac{2\pi NT}{60}$

$30 \times 10^3 = \frac{2 \times \pi \times 1200 \times T}{60}$

$T = 238.7 \text{ Nm}$

$T = 238.7 \times 10^3 \text{ Nmm}$

$[M_t] = 238.7 \times 10^3 \times K_d \times K$ [$K_d \times K = 1.3$]

$= 238.7 \times 10^3 \times 1.3$

$[M_t] = 310.347 \times 10^3 \text{ Nmm}$

Step8: Calculation of Centre distance:

$$a \geq (i+1) \sqrt[3]{\left(\frac{0.74}{[\sigma_c]}\right)^2 \cdot \frac{E[M_t]}{i\psi}}$$ [D.D.B-8.13]

$\psi = 0.3$ → [D.D.B-8.14]

$$a \geq (3+1) \sqrt[3]{\left(\frac{0.74}{1457.5}\right)^2 \frac{2.15 \times 10^5 \times 310.349 \times 10^3}{3 \times 0.30}}$$

$a \geq 106.96 \text{ mm}$

Step 9: Calculation of Z_1 and Z_2:

$Z_1 = 16 \rightarrow$ [D.D.B-8.53]

$i = Z_2 / Z_1$

$3 \times 16 = Z_2$

$Z_2 = 48$

Step 10: Calculation of module:

$$\text{module} = m = \frac{2a}{Z_1 + Z_2}$$ [D.D.B-8.22]

$$= \frac{2 \times 106.96}{64}$$

$m = 3.34$ mm

Standard module $(m) = 4$ mm [D.D.B-8.2]

Step 11: Calculation of revised centre distance:

$$a = m\left(\frac{Z_1 + Z_2}{2}\right)$$ [D.D.B-8.22]

$$= 4\left(\frac{16 + 48}{2}\right)$$

$a = 128$ mm

Step 12: Calculation of face width & PCD and velocity:

* Face width

$\psi = b/a$ → From Table 10 [D.D.B-8.14]

$b = 0.3 \times 128$

$b = 38.4$ mm

* Pitch Circle Diameter (PCD)

$d_1 = m Z_1$ [D.D.B-8.22]

$= 4 \times 16$

$d_1 = 64$ mm

$d_2 = m Z_2$ [D.D.B-8.22]

$= 4 \times 48$

$d_2 = 196$ mm

* Velocity $V = \frac{\pi * D_1 N_1}{60} = \frac{\pi \times 64 \times 1200}{60 \times 1000}$

$V = 4.02$ m/s

Step 13: Calculation of ψ_p:

$\psi_p = \psi/2 \ (i+1)$ [D.D.B-8.15]

$= 0.3/2 \ (3+1)$

$\psi_p = 0.6$

Step 14: Selection of Is quality of gears:

Is quality = 8 [D.D.B-8.3]

Based on the Velocity [Above 1 & upto 8] under Cylindrical gear.

Step 15: Calculation of revised design torque:

$[M_t] = M_t \times K_d \times K$ [D.D.B-8.15]

$K_d = 1.55$ [D.D.B-8.16]

(Based on Is quality and Velocity Value)

$K = 1.03$ [D.D.B-8.15]

(based on ψ_p)

$[M_t] = 238.73 \times 10^3 \times 1.55 \times K$

$= 238.73 \times 10^3 \times 1.55 \times 1.03$

$[M_t] = 381.132 \times 10^3$ (Nm)

Step 16: Calculation of induced bending stress: σ_b

$\sigma_b = \frac{i \pm 1}{a\, m\, b_y} [M_t] \leq [\sigma_b]$ [D.D.B-8.13A]

$$\sigma_b = \frac{3+1}{128 * 4 * 38.4 * 0.355}$$

$\sigma_b = 218.42 \ N/mm^2$

$[\sigma_b] > \sigma_b$ condition

$158.78 > 218.42$ So Design is Not Safe

* Recalculate the Centre distance For Safe design:

Select the next module after 4

So we take $m = 5mm$ [D.D.B-8.2]

Centre distance $(a) = m\left(\frac{Z_1 + Z_2}{2}\right)$ [D.D.B-8.22]

$= 5\left(\frac{16+48}{2}\right)$

$a = 160mm$

* Recalculation of the Face Width (b)

$\psi = b/a$ [D.D.B-8.22]

$0.3 = b/a$

$0.3 = b/160$

$b = 48 \ mm$

* Re calculation of the Induced bending stress:

$$\sigma_b = \frac{i_t 1}{a\, m\, b_y} [M_t] \leq [\sigma_b] \qquad [\text{AGMA } 6\text{-}8\text{-}13\text{A}]$$

$$= \frac{3+1}{160 \times 5 \times 48 \times 0.355} \times 381.132 \times 10^3$$

$$\sigma_b = 111.834 \text{ N/mm}^2$$

Step II: check for safe design based on bending stress:

$$\sigma_b < [\sigma_b]$$

$$111.834 < 158.78$$

design is safe.

Step III: Calculation of induced contact stress:

$$\sigma_c = 0.74 \frac{i_t 1}{a} \sqrt{\frac{i+1}{b} E [M_t]} \leq [\sigma_c] \qquad [\text{AGMA } 6\text{-}8\text{-}13]$$

$$= 0.74 \times \frac{3+1}{160} \sqrt{\frac{3+1}{3 \times 48} [2.15 \times 10^5 \times 381.132 \times 10^3]}$$

$$= 0.74 \times 4/160 \sqrt{4/3 \times 48 [2.15 \times 10^5 \times 381.132 \times 10^3]}$$

$$\sigma_c = 881.37 \text{ N/mm}^2$$

Step 19: Check for Safe design based on Contact stress:

$\sigma_c < [\sigma_c]$

$881.37 < 1457.5$

So design is Safe.

Step 20: Various dimensions of pinion and gear:

[D.D.B-8.22]

1) module, $(m) = 5$ mm
2) No. of teeth pinion $(Z_1) = 16$
   No. of teeth gear $(Z_2) = 48$
3) Pitch Circle diameter of pinion $(d_1) = 80$ mm
   Pitch Circle diameter of gear $(d_2) = 240$ mm
4) Centre distance $(a) = 160$ mm
5) Height factor $(f_0) = 1$
6) Tooth Depth $(h) = 11.25$ mm
7) Bottom clearance $(c) = 1.25$ mm
8) Root Diameter pinion $(df_1) = 67.5$ mm
   Root Diameter gear $(df_2) = 227.5$ mm

9) Tip Diameter of pinion $(d_{a_1}) = (Z_1 + 2f_0)\, m$

$= [16 + (2 \times 1)]\, 5$

$(d_{a_1}) = 90\ mm$

Tip Diameter of gear $(d_{a_2}) = (Z_2 + 2f_0)\, m$

$= [48 + (2 \times 1)]\, 5$

$(d_{a_2}) = 250mm$

SARANATHAN COLLEGE OF ENGINEERING

(Approved by AICTE, Affiliated to Anna University-Chennai-25)

Department of Mechanical Engineering

(Accredited by NBA)

TUTORIAL

NAME : K.ASHWANTH KRISHNA

BATCH No. : 236008

COURSE : ME8651

COURSE CODE : Design of Transmission Systems

YEAR/SEC : III / A

Academic Year : 2022 – 23 - Even

SUBMISSION (5)	SOLVING METHODOLOGY (5)	TOTAL (10)	STAFF SIGNATURE
5	5	10	

SARANATHAN COLLEGE OF ENGINEERING

(Approved by AICTE,Affiliated to Anna University-Chennai-25)

Department of Mechanical Engineering

(Accredited by NBA)

Tutorial - II		Date of Issue		Marks	10
Course Code	ME8651	Course Title	Design of Transmission Systems		
Year	III	Sem/Section	VI / A		

Q.No	Questions	CO	PO	PSO
1	The minimum and maximum speed of 6 speed gear box are to be 160 rpm and 500 rpm. The drive is from 1.5 KW at 500 rpm. The gear material is C45 having the shear stress as 30 N/mm^2. Draw the ray diagram and Kinematic arrangement. Also calculate the no of teeth in each gears.	309.5	03	02

Name and Signature of the Faculty Incharge

[R. SURESH BABU]

HOD/MECH

Given :-

$$n = 6$$

Minimum speed, $N_{min} = 160 rpm$

Maximum speed, $N_{max} = 500 rpm$

Power, $P = 1.5 KW$

$= 1.5 \times 10^3 N$

Shear stress, $I = 30 N/mm^2$

To find :-

To draw the ray diagram and kinematic arrangement Also calculate the no of teeth in each gears.

Solution :-

Step 1 :-

Progression ratio

$$\phi^{n-1} = \frac{N_{max}}{N_{min}}$$

$$\phi^{6-1} = \frac{500}{160}$$

$$\phi^5 = 3.13$$

$$\boxed{\phi = 1.256}$$

ep 2 :-

various spidle speeds

1.25 - 1.256 = 0.006

D.D.B - 7.20

N_1 = 160 rpm

N_2 = 200 rpm

N_3 = 250 rpm

N_4 = 315 rpm

N_5 = 400 rpm

N_6 = 500 rpm

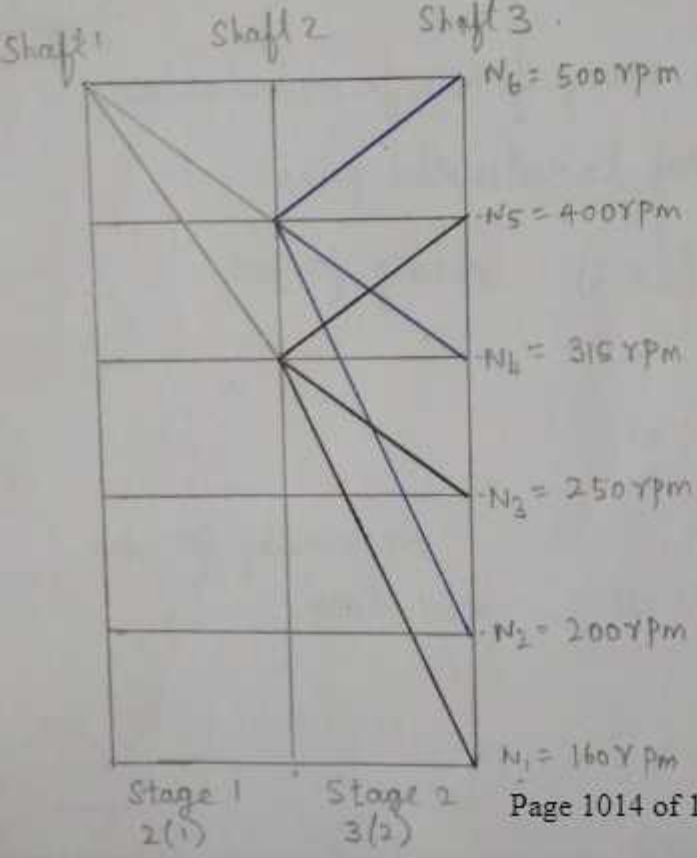
tep 3 :-

Selection of structural formula.

6 speeds = 2(1) 3(2).

Step 4 :-

Construction of speed or ray diagram.



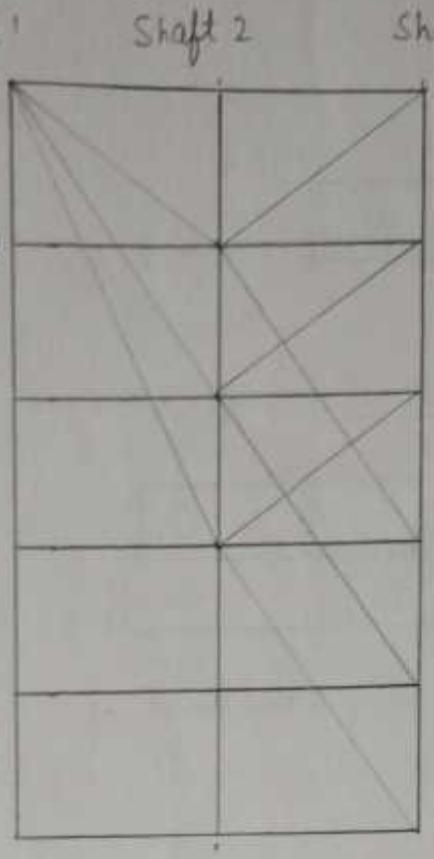
No of shaft used in gear box } = No of stages + 1

= 2 + 1

= 3.

structural formula

3(1) 2(3)



check for conditions

(i) $\frac{N_{max}}{N_{i/p}} \leq 2$

$= \frac{400}{3.15}$

$= 1.27$

(ii) $\frac{N_{min}}{N_{i/p}} \geq 0.25$

$= \frac{160}{315}$

$= 0.51$

Step 5:

calculation of no of gears in gear box.

using structural formula.

No of gears $= (2 \times 2) + (3 \times 2)$

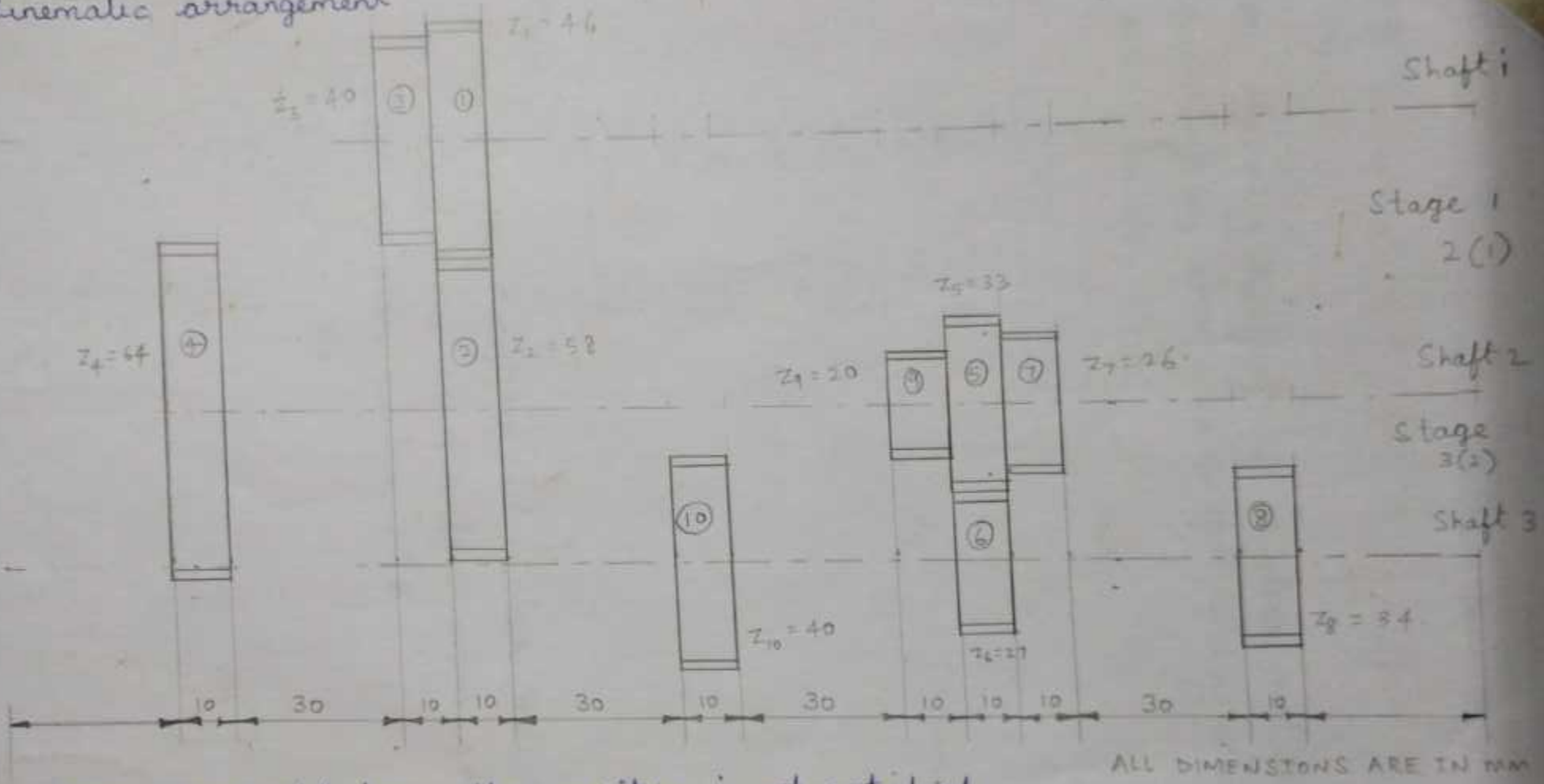
$= 4 + 6$

$= 10$

No of gears in gear box $= 10$.

Step 6:-

Kinematic arrangement



Here $Z_1 - Z_3 < 4$ hence the condition is not satisfied for easy shifting of gears without any interactions

To avoid this interference we have to increase the no of teeth in all the gears in stage (1) proportionally so multiply $Z_1, Z_2, Z_3 Z_4$ by 2 and we get 46, 58, 40, 64.

[7]:

Calculation of no of teeth in each gear

stage - II

Pair - I

From the ray diagram it is clear that the speed is reduced from 315 rpm to 160 rpm and is achieved by gear number 9 & 10

$$\boxed{Z_9 N_9 = Z_{10} N_{10}}$$

$$\frac{Z_9}{Z_{10}} = \frac{N_{10}}{N_9}$$

$Z_9 = 20$ (Assumed).

$$\frac{Z_9}{Z_{10}} = \frac{160}{315}$$

$$\frac{20}{Z_{10}} = \frac{160}{315}$$

$$\boxed{Z_{10} = 40}$$

Pair - II

From the ray diagram it is clear that the speed is reduced from 315 rpm to 250 rpm and is achieved by gear number 7 & 8

$$Z_7 N_7 = Z_8 N_8$$

$$\frac{Z_7}{Z_8} = \frac{N_8}{N_7}$$

$$\frac{Z_7}{Z_8} = \frac{250}{315}$$

$$\boxed{Z_7 = 0.8 Z_8}$$

$Z_7 + Z_8 = Z_9 + Z_{10}$

$0.8 Z_8 + Z_8 = 40 + 20$

$1.8 Z_8 = 60$

$\boxed{Z_8 = 34}$

$Z_7 + 34 = 60$

$\boxed{Z_7 = 26}$

Pair - III

From the ray diagram it is clear that the speed is increased from 315 rpm to 400 rpm and is achieved by gear number 5 & 6.

$Z_5 N_5 = Z_6 N_6$

$\frac{Z_5}{Z_6} = \frac{N_6}{N_5}$

$\frac{Z_5}{Z_6} = 1.27$

$\boxed{Z_5 = 1.27 Z_6}$

$Z_5 + Z_6 = Z_7 + Z_8$

$2.27 Z_6 = 60$

$\boxed{Z_6 = 27}$

$Z_5 + 27 = 60$

$\boxed{Z_5 = 33}$

Pair - I

From the ray diagram it is clear that the speed is reduced from 500 rpm to 315 rpm and is achieved by gear number 3 & 4.

$$Z_3 N_3 = Z_4 N_4$$

$$\frac{Z_3}{Z_4} = \frac{N4}{N_3}$$

$\boxed{Z_3 = 20}$ Assumed

$$\frac{Z_3}{Z_4} = \frac{315}{500}$$

$$\frac{20}{Z_4} = \frac{315}{500}$$

$$Z_4 = 31.746$$

$$\boxed{Z_4 = 32}$$

Pair - II

From the ray diagram it is clear that the speed is reduced from 500 rpm to 400 rpm and is achieved by gear number 1 & 2.

$$Z_1 N_1 = Z_2 N_2.$$

$$\frac{Z_1}{Z_2} = \frac{N_2}{N_1}$$

$$\frac{Z_1}{Z_2} = \frac{400}{500}$$

$$\boxed{Z_1 = 0.8 Z_2}$$

$$Z_1 + Z_2 = Z_3 + Z_4$$

$$1.8 Z_2 = 52.$$

$$\boxed{Z_2 = 29}$$

$$Z_1 + 29 = 52$$

$$\boxed{Z_1 = 23}$$

$z_1 = 23$
$z_2 = 29$
$z_3 = 20$
$z_4 = 32$

Stage - I

$z_5 = 33$
$z_6 = 27$
$z_7 = 26$
$z_8 = 34$
$z_9 = 20$
$z_{10} = 40$

Stage - II

Saranathan College of Engineering

Department of Mechanical Engineering

ME 8511 Kinematics and Dynamics Laboratory

YEAR: 3 **SECTION: A**

S. No.	EXPERIMENTS	DATE
	Cycle -1	
1	Motorized Gyroscope	18.08.2022
2	Determination of whirling speed of shafts	
3	Balance of rotating mass	
4	Torsional Vibration of shaft – Single rotor system	26.08.2022
5	Torsional Vibration of shaft – Two rotor system	
6	Compound Pendulum	
	Cycle – 2	
7	Study of Universal Governor Apparatus WATT Governor & PORTER Governor	05.09.2022
8	Study of PROELL and HARTNELL Governor Apparatus	
9	Study of Cam - Follower Pair	19.09.2022
10	Balancing of Reciprocating Masses	
11	Simple Gear Train	10.10.2022
12	Compound Gear Train	
	Cycle – 3	
13	Turn Table Apparatus	17.10.2022
14	Slider Crank Mechanism	
15	Kinematics of Universal Joints	
16	Vibration Table Apparatus	07.11.2022
17	Epicyclic Gear Train	
18	Gear Inspection using Gear Tooth Vernier Caliper	



Staff Signature

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPALLI - 620 012.

Date: 30/01/2023

Ref : SCE/Syllabus/Laboratory/2022-23-~~Even~~ ODD Sem/Mech

STATEMENT FOR LABORATORY EXPERIMENT COMPLETION

I hereby affirm that all the experiments listed in the next page, have been actually performed by the students as part of the prescribed course work by Anna University (mention details). In cases where the experiments could not be conducted, the same has been listed separately with reasons.

I confirm that the experiments were done by me in the beginning of this semester, and the readings were recorded.

I confirm that the students submitted the laboratory record of the experiments performed by them, and that I have also corrected them every week and awarded appropriate marks. I also confirm that the completed laboratory record was submitted by each student.

Signature	: 30/01/2023	Signature	: 30/1/23
Name	: Dr. M. Ganesan	Name	: Mr. S. Karthikeyan
Designation	: Associate Professor	Designation	: Assistant Professor
Department	: Mechanical Engg.		

Signature of HoD

Principal :

Note: List of the students who have not got bonafide, if any, to be enclosed.

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPALLI - 620 012.

Date:

Ref : SCE/Syllabus/ Theory/2022-23-Odd Sem/Mech

STATEMENT FOR SYLLABUS COMPLETION

I have handled the subject Process planning and Cost Estimation, code ME8793 for IV year, VII semester, department of Mech B.E/B.Tech/MBA during the academic year 2022 – 23, oddsemester.

In this regard, I confirm , that I have taught all the topics mentioned in the syllabus, and tooklectures for 56 periods, revised syllabus for 4 periods and discussed the Anna University Examination question papers ofthelast 3 years.

Signature : N.S

Name : N. BASKAR.

Designation : Professor.

Department : Mechanical Engg.

Date : 30/11/2023

Signature of HoD :

Principal :

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPALLI - 620 012.

Date: 29/05/2023

Ref : SCE/Syllabus/ Theory/2022-23-Even Sem/Mech

STATEMENT FOR SYLLABUS COMPLETION

I have handled the subject Theory Of Machines , code ME3491 for II year, IV semester, department of Mechanical B.E/~~B.Tech~~/~~MBA~~ during the academic year 2022 – 23, even semester.

In this regard, I confirm that I have taught all the topics mentioned in the syllabus, and took lectures for 75 periods, revised syllabus for 15 periods and discussed the Anna University Examination question papers of the last 5 years of KOM and DOM

Signature :

Name : P.Vigneshwar

Designation : Asst. Professor

Department : Mechanical

Date : 29/05/2023

Signature of HoD :

Principal :

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPALLI - 620 012.

Date: 29/05/2023

Ref : SCE/Syllabus/Laboratory/2022-23-Even Sem/Mech

STATEMENT FOR LABORATORY EXPERIMENT COMPLETION

I hereby affirm that all the experiments listed in the next page, have been actually performed by the students as part of the prescribed course work by Anna University (mention details). In cases where the experiments could not be conducted, the same has been listed separately with reasons.

I confirm that the experiments were done by me in the beginning of this semester, and the readings were recorded.

I confirm that the students submitted the laboratory record of the experiments performed by them, and that I have also corrected them every week and awarded appropriate marks. I also confirm that the completed laboratory record was submitted by each student.

Signature	:	Signature	:
Name	: Dr. A. Mercy Vasan	Name	: 1) P Vigneshwar 2) M. Sriram Prasath
Designation	: Associate Professor	Designation	: Asst. Professor
Department	: Mechanical		
	SignatureofHoD :		
	Principal :		

Note: List of the experiments has been attached

Saranathan College of Engineering
Tiruchirappalli-12

FeedBack Report : MECH Month&Year: SEP2022 Academic Year :2022-23ODD

S.no	staffcode	branch /Sem	No. partici pated	Subject Code /Title	(1) Does the faculty come Prepared for the Classes ?	(2) Subject Knowledge and Clarity of the Faculty	(3) Impartiality and Fairness to Students ?	(4) Interaction with Students by the faculty	(5) Valuable/Extra Information given during the Lectures by the faculty	(6) Enthusiasm for Subject ?	(7) Showing Concern and Care for Students?	(8) Punctuality in Evaluation of Exam Papers/ Assignments ?	(9) Whether Syllabus for IA Tests/ University Examination Completed steadily?	(10) Ability to Speak Loudly and Clearly	Total Out of
	Weigtage				**15.0**	**15.0**	**8.0**	**12.0**	**12.0**	**12.0**	**4.0**	**6.0**	**8.0**	**8.0**	**100**
1	vinothkumar-mech	CIVIL-A/3	27	ME3351/Engineering Mechanics	12.22	11.56	6.16	8.80	8.80	9.24	2.90	4.71	6.46	5.16	76.01
2	mercyvasan-mech	ICE-A/5	26	EI8093/Unit Operation And Control	12.81	12.58	6.95	10.34	10.06	10.34	3.38	5.17	6.89	6.52	85.05
3	mrpadmanaban-mech	MBA-A/3	6	BA4022/Quality Management	14.50	13.00	6.93	11.20	11.20	10.40	3.47	5.20	7.20	7.47	90.57
4	mahesh-mech	MBA-A/3	5	BA4026/Project Management	14.40	14.40	7.68	11.52	11.52	11.04	3.68	5.52	8.00	7.68	95.44
5	vigneshwar-mech	MECH-A/3	65	CE3391/Fluid Mechanics And Machinery	12.23	12.46	6.30	9.42	9.30	9.38	3.18	4.97	6.60	6.60	80.43
6	jayaprakash-mech	MECH-A/3	60	ME3351/Engineering Mechanics	11.95	11.55	6.35	9.08	10.28	9.56	3.19	4.58	6.35	6.37	79.25
7	vinothkumar-mech	MECH-A/3	63	ME3391/Engineeringthermodynamics	9.67	8.81	5.36	7.73	7.05	7.73	2.58	4.21	5.46	5.21	63.80
8	rekha-mech	MECH-A/3	61	ME3392/Engineering Materials And Metallurgy	12.98	12.64	6.95	10.31	9.72	10.03	3.49	5.17	6.90	6.66	84.86
9	baskar-mech	MECH-A/3	63	ME3393/Manufacturing Processes	11.95	11.76	5.64	8.50	8.65	8.99	2.70	4.46	6.04	6.07	74.76
10	karthi-mech	MECH-A/5	66	ME8501/Metrology And Measurements	13.68	13.50	7.08	10.62	10.84	10.33	3.58	5.31	7.05	7.22	89.21
11	sureshbabu-mech	MECH-A/5	69	ME8593/Design Of Machine Elements	13.30	13.43	6.47	9.77	9.70	10.23	3.30	5.32	7.07	7.37	85.99
12	jayaprakash-mech	MECH-A/5	68	ME8594/Dynamics Of Machines	11.65	11.82	6.02	8.89	9.74	9.14	3.14	4.45	6.14	6.05	77.05
13	mercyvasan-mech	MECH-A/5	68	ME8595/Thermal Engineering- Ii	13.24	13.06	7.06	10.13	9.92	9.88	3.45	5.28	6.89	6.07	84.97
14	paramaguru-	MECH-	19	OAT552/Internal Combustion	14.21	14.21	7.33	11.24	11.12	11.37	3.79	5.49	7.41	7.49	93.66

	mech	A/5		Engines												
15	sriram-mech	MECH-A/5	51	ORO551/Renewable Energy Sources	13.76	13.71	6.93	10.82	10.96	10.78	3.56	5.46	7.37	7.37	90.73
16	mahesh-mech	MECH-A/7	53	GE8077/Total Quality Management	11.55	11.72	6.28	9.55	9.33	9.15	3.06	4.82	6.31	6.64	78.41
17	ganesan-mech	MECH-A/7	67	IE8693[8]/Production Planning And Control	12.90	12.72	6.73	10.14	10.10	10.21	3.33	4.94	6.73	6.54	84.35
18	sriram-mech	MECH-A/7	41	ME8072/Renewable Sources Of Energy	13.46	13.83	6.79	11.06	11.12	10.60	3.47	5.41	7.10	7.34	90.19
19	amar-mech	MECH-A/7	69	ME8099/Robotics	12.09	11.35	6.42	10.02	9.46	9.74	3.30	4.97	6.61	6.52	80.48
20	vigneshwar-mech	MECH-A/7	68	ME8791/Mechatronics	13.19	12.97	7.01	10.41	10.31	10.20	3.53	5.12	7.11	6.89	86.74
21	paramaguru-mech	MECH-A/7	67	ME8792/Power Plant Engineering	13.30	13.52	7.24	10.96	10.89	10.64	3.63	5.34	7.14	7.16	89.82
22	baskar-mech	MECH-A/7	69	ME8793/Process Planning And Cost Estimation	12.70	12.74	6.49	9.74	9.88	9.91	3.20	4.97	6.68	6.54	82.85
23	rajesh-mech	MECH-A/7	68	OMF751/Lean Six Sigma	13.32	13.19	7.06	9.95	10.66	10.59	3.54	5.22	7.13	7.18	87.84
24	mahesh-mech	MECH-B/7	62	GE8077/Total Quality Management	13.84	13.89	7.41	10.99	10.99	10.88	3.65	5.54	7.33	7.28	91.79
25	rajesh-mech	MECH-B/7	64	IE8693[8]/Production Planning And Control	14.25	14.11	7.50	11.29	11.40	11.21	3.80	5.53	7.50	7.53	94.12
26	sriram-mech	MECH-B/7	51	ME8072/Renewable Sources Of Energy	13.71	13.59	7.25	10.82	10.82	10.73	3.61	5.44	7.15	7.25	90.36
27	jothi-mech	MECH-B/7	61	ME8099/Robotics	12.25	11.56	6.40	9.29	9.13	9.21	3.13	4.94	6.50	6.48	78.88
28	rekha-mech	MECH-B/7	64	ME8791/Mechatronics	13.36	12.89	6.95	10.24	10.16	10.50	3.51	5.27	7.05	6.93	86.86
29	amar-mech	MECH-B/7	66	ME8792/Power Plant Engineering	13.55	13.41	7.20	11.02	10.69	10.91	3.59	5.49	7.25	7.22	90.32
30	ganesan-mech	MECH-B/7	64	ME8793/Process Planning And Cost Estimation	14.11	14.06	7.32	10.99	10.76	10.99	3.65	5.47	7.32	7.28	91.96
31	mrpadmanaban-mech	MECH-B/7	65	OMF751/Lean Six Sigma	12.05	11.77	6.28	9.27	9.23	9.34	3.00	4.97	6.50	6.60	79.00

Saranathan College of Engineering
Tiruchirappalli-12

FeedBack Report : MECH Month&Year: NOV2022 Academic Year :2022-23ODD

S.no	staffcode	branch /Sem	No. partici pated	Subject Code /Title	(1) Does the faculty come Prepared for the Classes ?	(2) Subject Knowledge and Clarity of the Faculty	(3) Impartiality and Fairness to Students ?	(4) Interaction with Students by the faculty	(5) Valuable/Extra Information given during the Lectures by the faculty	(6) Enthusiasm for Subject ?	(7) Showing Concern and Care for Students?	(8) Punctuality in Evaluation of Exam Papers/ Assignments ?	(9) Whether Syllabus for IA Tests/ University Examination Completed steadily?	(10) Ability to Speak Loudly and Clearly	Total Out of
	Weigtage				15.0	15.0	8.0	12.0	12.0	12.0	4.0	6.0	8.0	8.0	100
1	vinothkumar-mech	CIVIL-A/3	25	ME3351/Engineering Mechanics	10.80	9.96	5.38	7.78	7.87	8.06	2.59	4.27	5.70	4.54	66.95
2	mercyvasan-mech	ICE-A/5	29	EI8093/Unit Operation And Control	13.76	13.34	7.39	11.01	10.76	11.09	3.64	5.54	7.50	7.34	91.38
3	mrpadmanaban-mech	MBA-A/3	9	BA4022/Quality Management	14.00	14.00	7.29	11.20	11.20	10.67	3.73	5.60	7.47	7.64	92.80
4	mahesh-mech	MBA-A/3	5	BA4026/Project Management	14.40	14.40	7.36	12.00	12.00	12.00	3.84	6.00	7.68	8.00	97.68
5	vigneshwar-mech	MECH-A/3	59	CE3391/Fluid Mechanics And Machinery	13.42	13.47	7.00	10.33	9.64	10.25	3.39	5.19	7.11	6.86	86.66
6	jayaprakash-mech	MECH-A/3	57	ME3351/Engineering Mechanics	11.32	10.84	5.64	8.80	9.26	8.67	2.96	4.51	6.04	5.95	73.99
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8	rekha-mech	MECH-A/3	58	ME3392/Engineering Materials And Metallurgy	13.14	12.83	7.17	10.43	10.34	10.39	3.42	5.11	6.92	6.90	86.65
9	baskar-mech	MECH-A/3	59	ME3393/Manufacturing Processes	12.76	12.51	6.51	9.68	9.60	9.48	3.06	4.72	6.45	6.37	81.15
10	karthi-mech	MECH-A/5	71	ME8501/Metrology And Measurements	13.35	13.31	6.99	10.61	10.41	10.31	3.47	5.27	7.08	7.01	87.81
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13	mercyvasan-mech	MECH-A/5	75	ME8595/Thermal Engineering- Ii	13.28	13.16	6.87	9.82	9.63	9.63	3.40	5.17	6.85	5.63	83.45
14	paramaguru-	MECH-	22	OAT552/Internal Combustion	11.18	11.18	5.75	8.95	8.73	8.73	2.98	4.42	5.96	5.89	73.76

	mech	A/5		Engines												
15	sriram-mech	MECH-A/5	66	ORO551/Renewable Energy Sources	12.41	12.27	6.52	10.00	9.75	9.71	3.26	4.87	6.55	6.74	82.08
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17	ganesan-mech	MECH-A/7	46	IE8693[8]/Production Planning And Control	13.37	13.57	7.17	10.85	10.64	10.75	3.57	5.37	7.13	7.30	89.72
18	sriram-mech	MECH-A/7	29	ME8072/Renewable Sources Of Energy	12.93	12.93	7.01	10.59	10.51	10.59	3.50	5.26	7.01	7.01	87.34
19	amar-mech	MECH-A/7	47	ME8099/Robotics	12.96	12.57	6.81	10.26	10.06	10.21	3.39	5.18	6.71	6.91	85.06
20	vigneshwar-mech	MECH-A/7	48	ME8791/Mechatronics	13.62	13.31	7.20	10.80	10.60	10.55	3.60	5.40	7.27	7.13	89.49
21	paramaguru-mech	MECH-A/7	48	ME8792/Power Plant Engineering	13.50	13.50	7.30	10.75	10.60	10.60	3.63	5.32	7.17	7.17	89.54
22	baskar-mech	MECH-A/7	46	ME8793/Process Planning And Cost Estimation	13.70	13.57	7.30	10.75	10.75	10.80	3.63	5.43	7.34	7.23	90.50
23	rajesh-mech	MECH-A/7	46	OMF751/Lean Six Sigma	13.70	13.76	7.20	10.75	10.85	11.01	3.60	5.40	7.23	7.34	90.84
24	mahesh-mech	MECH-B/7	48	GE8077/Total Quality Management	13.06	13.25	6.87	10.40	10.55	10.40	3.47	5.10	7.00	6.93	87.03
25	rajesh-mech	MECH-B/7	55	IE8693[8]/Production Planning And Control	13.96	14.02	7.48	11.04	11.26	10.95	3.75	5.52	7.42	7.45	92.85
26	sriram-mech	MECH-B/7	46	ME8072/Renewable Sources Of Energy	13.76	13.63	7.23	10.75	10.64	10.64	3.65	5.53	7.27	7.27	90.38
27	jothi-mech	MECH-B/7	56	ME8099/Robotics	11.14	10.71	6.06	8.96	8.70	8.91	3.10	4.63	6.03	6.11	74.36
28	rekha-mech	MECH-B/7	55	ME8791/Mechatronics	12.00	11.84	6.20	9.51	9.47	8.99	3.21	4.87	6.34	6.34	78.77
29	amar-mech	MECH-B/7	55	ME8792/Power Plant Engineering	13.47	13.25	7.16	10.78	10.78	10.56	3.67	5.39	7.24	7.13	89.43
30	ganesan-mech	MECH-B/7	55	ME8793/Process Planning And Cost Estimation	13.69	13.64	7.13	10.91	10.91	10.91	3.62	5.30	7.16	6.75	90.01
31	mrpadmanaban-mech	MECH-B/7	58	OMF751/Lean Six Sigma	11.84	11.84	6.15	9.35	9.43	9.56	3.01	4.78	6.34	6.10	78.41

Saranathan College of Engineering
Tiruchirappalli-12

FeedBack Report : MECH Month&Year: MARCH2023 Academic Year :2022-23EVEN

S.no	staffcode	branch /Sem	No. partici pated	Subject Code /Title	(1) Does the faculty come Prepared for the Classes ?	(2) Subject Knowledge and Clarity of the Faculty	(3) Impartiality and Fairness to Students ?	(4) Interaction with Students by the faculty	(5) Valuable/Extra Information given during the Lectures by the faculty	(6) Enthusiasm for Subject ?	(7) Showing Concern and Care for Students?	(8) Punctuality in Evaluation of Exam Papers/ Assignments ?	(9) Whether Syllabus for IA Tests/ University Examination Completed steadily?	(10) Ability to Speak Loudly and Clearly	Total Out of
	Weigtage				15.0	15.0	8.0	12.0	12.0	12.0	4.0	6.0	8.0	8.0	100
1	rekha-mech	MECH-A/4	52	CE3491/Strength Of Materials	12.12	12.12	6.15	9.23	9.42	9.51	3.14	4.71	6.52	6.37	79.28
2	amar-mech	MECH-A/4	51	ME3451/Thermal Engineering	10.18	9.82	5.18	8.00	7.67	7.91	2.62	4.02	5.33	5.62	66.35
3	vigneshwar-mech	MECH-A/4	51	ME3491/Theory Of Machines	13.06	12.82	6.75	10.21	10.12	10.12	3.25	5.20	6.84	6.81	85.17
4	vinothkumar-mech	MECH-A/4	52	ME3492/Hydralics And Pneumatics	7.90	7.56	4.34	5.72	5.95	6.14	2.00	3.18	4.22	4.25	51.26
5	mrpadmanaban-mech	MECH-A/4	51	ME3493/Manufacturing Technology	11.53	11.35	5.99	9.08	8.80	8.99	3.03	4.35	5.87	6.15	75.14
6	sureshbabu-mech	MECH-A/6	72	ME8651/Design Of Transmission Systems	13.83	13.67	7.02	10.53	10.47	10.53	3.44	5.40	7.22	7.29	89.41
7	karthi-mech	MECH-A/6	73	ME8691/Computer Aided Design And Manufacturing	13.03	12.90	6.86	10.39	10.36	10.36	3.41	5.11	6.95	6.88	86.24
8	baskar-mech	MECH-A/6	72	ME8692/Finite Element Analysis	12.62	12.50	6.49	9.40	9.50	10.00	3.18	5.03	6.76	6.78	82.26
9	sriram-mech	MECH-A/6	72	ME8693/Heat And Mass Transfer	12.75	12.75	6.58	10.03	10.07	9.90	3.37	5.02	6.78	6.76	83.99
10	jothi-mech	MECH-A/6	76	ME8694/Hydraulics And Pneumatics	11.84	11.80	6.42	9.44	9.60	9.38	3.25	4.80	6.38	6.29	79.21
11	rajesh-mech	MECH-A/6	77	MG8591[8]/Principles Of Management	12.55	12.51	6.59	9.97	10.07	10.10	3.28	4.92	6.50	6.73	83.22
12	sriram-mech	MECH-A/6	71	TP/Training And Placement	11.49	11.41	5.99	8.72	8.92	8.99	3.02	4.48	5.99	6.08	75.11

Saranathan College of Engineering
Tiruchirappalli-12

FeedBack Report : MECH Month&Year: APRIL2023 Academic Year :2022-23EVEN

S.no	staffcode	branch /Sem	No. participated	Subject Code /Title	(1) Does the faculty come Prepared for the Classes ?	(2) Subject Knowledge and Clarity of the Faculty	(3) Impartiality and Fairness to Students ?	(4) Interaction with Students by the faculty	(5) Valuable/Extra Information given during the Lectures by the faculty	(6) Enthusiasm for Subject ?	(7) Showing Concern and Care for Students?	(8) Punctuality in Evaluation of Exam Papers/ Assignments ?	(9) Whether Syllabus for IA Tests/ University Examination Completed steadily?	(10) Ability to Speak Loudly and Clearly	Total Out of
	Weigtage				**15.0**	**15.0**	**8.0**	**12.0**	**12.0**	**12.0**	**4.0**	**6.0**	**8.0**	**8.0**	**100**
1	rekha-mech	MECH-A/4	53	CE3491/Strength Of Materials	12.34	12.11	6.43	9.60	9.33	9.69	3.23	4.75	6.46	6.31	80.26
2	amar-mech	MECH-A/4	54	ME3451/Thermal Engineering	9.94	9.89	5.45	7.73	7.96	8.27	2.62	4.00	5.45	5.27	66.59
3	vigneshwar-mech	MECH-A/4	54	ME3491/Theory Of Machines	13.44	13.56	6.99	10.76	10.71	10.67	3.53	5.31	7.17	7.11	89.24
4	vinothkumar-mech	MECH-A/4	55	ME3492/Hydralics And Pneumatics	8.78	8.67	4.95	7.20	6.98	6.89	2.41	3.58	4.86	4.77	59.10
5	mrpadmanaban-mech	MECH-A/4	53	ME3493/Manufacturing Technology	11.43	11.77	6.10	9.19	9.15	9.15	3.08	4.64	6.19	6.19	76.89
6	sureshbabu-mech	MECH-A/6	56	ME8651/Design Of Transmission Systems	13.55	13.55	7.03	10.11	10.29	10.37	3.36	5.36	6.97	7.26	87.85
7	karthi-mech	MECH-A/6	57	ME8691/Computer Aided Design And Manufacturing	12.74	12.68	6.65	10.06	10.02	10.23	3.33	5.09	6.68	6.74	84.23
8	baskar-mech	MECH-A/6	56	ME8692/Finite Element Analysis	12.43	12.21	6.46	9.51	9.69	9.64	3.14	4.86	6.54	6.49	80.98
9	sriram-mech	MECH-A/6	56	ME8693/Heat And Mass Transfer	11.95	11.89	6.26	9.43	9.43	9.60	3.14	4.76	6.37	6.40	79.22
10	jothi-mech	MECH-A/6	56	ME8694/Hydraulics And Pneumatics	11.57	11.20	5.97	8.79	8.87	9.21	3.07	4.54	6.03	5.83	75.08
11	rajesh-mech	MECH-A/6	57	MG8591[8]/Principles Of Management	12.47	12.74	6.74	10.15	9.98	10.02	3.35	4.95	6.51	6.65	83.56
12	sriram-mech	MECH-A/6	54	TP/Training And Placement	10.61	10.44	5.63	8.49	8.49	8.53	2.81	4.27	5.66	5.66	70.60

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23ODD** Semester : **3** Programme: **B.E/B.Tech (MECH)**
Subject Code : **CE3391** NBA Code : **C204** Title **FLUID MECHANICS AND MACHINERY**
Faculty: Mr.P.Vigneshwar

Cos	CO Description	Attained Level	%
C204.1	Apply mathematical knowledge to predict the properties and characteristics of fluid	3.0	100.00
C204.2	Analyse the boundary layer parameters	3.0	100.00
C204.3	Calculate the major and minor losses associated with pipe flow in piping networks	2.46	82.00
C204.4	Formulate the relationship among the parameters using dimensional and model analysis	2.51	83.67
C204.5	Explain the working principles and performance of turbines	2.39	79.67
C204.6	Explain the working principles and performance of pumps	3.0	100.00

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 61

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
246001	CE3391	3	3	3	2	3	3	24/02/2023	MECH	3
246002	CE3391	3	3	2	2	2	3	24/02/2023	MECH	3
246003	CE3391	3	3	3	3	3	3	24/02/2023	MECH	3
246004	CE3391	3	3	3	3	2	3	24/02/2023	MECH	3
246005	CE3391	3	3	2	2	3	3	24/02/2023	MECH	3
246006	CE3391	3	3	2	3	2	3	24/02/2023	MECH	3
246007	CE3391	3	3	2	3	2	3	24/02/2023	MECH	3
246008	CE3391	3	3	2	2	2	3	24/02/2023	MECH	3
246009	CE3391	3	3	3	3	2	3	24/02/2023	MECH	3
246010	CE3391	3	3	3	3	3	3	24/02/2023	MECH	3
246011	CE3391	3	3	2	2	3	3	24/02/2023	MECH	3
246012	CE3391	3	3	2	3	3	3	24/02/2023	MECH	3

246013	CE3391	3	3	2	2	2	3	24/02/2023	MECH	3
246014	CE3391	3	3	3	3	2	3	24/02/2023	MECH	3
246015	CE3391	3	3	2	3	2	3	24/02/2023	MECH	3
246016	CE3391	3	3	3	2	2	3	24/02/2023	MECH	3
246017	CE3391	3	3	3	2	2	3	24/02/2023	MECH	3
246018	CE3391	3	3	3	3	3	3	24/02/2023	MECH	3
246019	CE3391	3	3	2	2	3	3	24/02/2023	MECH	3
246020	CE3391	3	3	2	3	2	3	24/02/2023	MECH	3
246021	CE3391	3	3	2	3	2	3	24/02/2023	MECH	3
246022	CE3391	3	3	3	3	2	3	24/02/2023	MECH	3
246023	CE3391	3	3	2	2	2	3	24/02/2023	MECH	3
246024	CE3391	3	3	3	3	2	3	24/02/2023	MECH	3
246025	CE3391	3	3	3	3	3	3	24/02/2023	MECH	3
246026	CE3391	3	3	2	2	3	3	24/02/2023	MECH	3
246027	CE3391	3	3	3	2	3	3	24/02/2023	MECH	3
246028	CE3391	3	3	3	3	3	3	24/02/2023	MECH	3
246029	CE3391	3	3	2	3	2	3	24/02/2023	MECH	3
246030	CE3391	3	3	3	3	2	3	24/02/2023	MECH	3
246032	CE3391	3	3	2	3	2	3	24/02/2023	MECH	3
246033	CE3391	3	3	3	2	2	3	24/02/2023	MECH	3
246034	CE3391	3	3	2	2	2	3	24/02/2023	MECH	3
246035	CE3391	3	3	3	3	3	3	24/02/2023	MECH	3
246036	CE3391	3	3	2	2	2	3	24/02/2023	MECH	3
246037	CE3391	3	3	3	3	2	3	24/02/2023	MECH	3
246038	CE3391	3	3	3	2	3	3	24/02/2023	MECH	3
246039	CE3391	3	3	3	2	2	3	24/02/2023	MECH	3
246040	CE3391	3	3	2	3	3	3	24/02/2023	MECH	3
246041	CE3391	3	3	3	3	2	3	24/02/2023	MECH	3
246044	CE3391	3	3	2	3	2	3	24/02/2023	MECH	3

246045	CE3391	3	3	2	3	3	3	24/02/2023	MECH	3
246046	CE3391	3	3	3	3	2	3	24/02/2023	MECH	3
246047	CE3391	3	3	2	3	2	3	24/02/2023	MECH	3
246048	CE3391	3	3	3	2	3	3	24/02/2023	MECH	3
246049	CE3391	3	3	2	2	3	3	24/02/2023	MECH	3
246050	CE3391	3	3	3	2	2	3	24/02/2023	MECH	3
246051	CE3391	3	3	2	3	3	3	24/02/2023	MECH	3
246052	CE3391	3	3	3	3	2	3	24/02/2023	MECH	3
246053	CE3391	3	3	2	2	3	3	24/02/2023	MECH	3
246054	CE3391	3	3	2	2	2	3	24/02/2023	MECH	3
246055	CE3391	3	3	2	3	2	3	24/02/2023	MECH	3
246056	CE3391	3	3	2	2	2	3	24/02/2023	MECH	3
246057	CE3391	3	3	2	2	3	3	24/02/2023	MECH	3
246059	CE3391	3	3	2	2	2	3	24/02/2023	MECH	3
246060	CE3391	3	3	2	2	2	3	24/02/2023	MECH	3
246061	CE3391	3	3	3	2	3	3	24/02/2023	MECH	3
246062	CE3391	3	3	2	2	3	3	24/02/2023	MECH	3
246063	CE3391	3	3	3	2	3	3	24/02/2023	MECH	3
246064	CE3391	3	3	3	3	2	3	24/02/2023	MECH	3
246065	CE3391	3	3	2	2	2	3	24/02/2023	MECH	3
Attained Level		3.0	3.0	2.46	2.51	2.39	3.0			
%		100.00	100.00	82.00	83.67	79.67	100.00			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23ODD** Semester : **3** Programme: **B.E/B.Tech (MECH)**
Subject Code : **MA3351** NBA Code : **C201** Title **TRANSFORMS AND PARTIAL DIFFERENTIAL EQUATIONS**
Faculty: Dr.G.Ravichandran

Cos	CO Description	Attained Level	%
C201.1	solve the given partial differential equations	3.0	100.00
C201.2	apply Fourier series analysis which plays a vital role in engineering applications	3.0	100.00
C201.3	apply Fourier series techniques to solve one dimensional wave, one and two dimensional heat equations	2.56	85.33
C201.4	gain the knowledge in Fourier transform techniques to solve the problems of engineering.	2.49	83.00
C201.5	formulate some of the physical problems of engineering using difference equations	2.51	83.67
C201.6	apply Z-transform techniques to solve the difference equations	3.0	100.00

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 61

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
246001	MA3351	3	3	3	3	2	3	24/02/2023	MECH	3
246002	MA3351	3	3	3	3	2	3	24/02/2023	MECH	3
246003	MA3351	3	3	3	2	3	3	24/02/2023	MECH	3
246004	MA3351	3	3	3	2	3	3	24/02/2023	MECH	3
246005	MA3351	3	3	2	2	3	3	24/02/2023	MECH	3
246006	MA3351	3	3	2	3	2	3	24/02/2023	MECH	3
246007	MA3351	3	3	2	3	3	3	24/02/2023	MECH	3
246008	MA3351	3	3	2	3	3	3	24/02/2023	MECH	3
246009	MA3351	3	3	3	3	2	3	24/02/2023	MECH	3
246010	MA3351	3	3	2	3	2	3	24/02/2023	MECH	3
246011	MA3351	3	3	3	2	2	3	24/02/2023	MECH	3
246012	MA3351	3	3	3	2	3	3	24/02/2023	MECH	3

246013	MA3351	3	3	3	2	3	3	24/02/2023	MECH	3
246014	MA3351	3	3	2	2	2	3	24/02/2023	MECH	3
246015	MA3351	3	3	3	2	3	3	24/02/2023	MECH	3
246016	MA3351	3	3	2	3	3	3	24/02/2023	MECH	3
246017	MA3351	3	3	2	2	3	3	24/02/2023	MECH	3
246018	MA3351	3	3	3	3	3	3	24/02/2023	MECH	3
246019	MA3351	3	3	3	3	3	3	24/02/2023	MECH	3
246020	MA3351	3	3	3	2	3	3	24/02/2023	MECH	3
246021	MA3351	3	3	2	2	3	3	24/02/2023	MECH	3
246022	MA3351	3	3	3	2	2	3	24/02/2023	MECH	3
246023	MA3351	3	3	2	2	3	3	24/02/2023	MECH	3
246024	MA3351	3	3	2	2	2	3	24/02/2023	MECH	3
246025	MA3351	3	3	3	3	2	3	24/02/2023	MECH	3
246026	MA3351	3	3	2	2	3	3	24/02/2023	MECH	3
246027	MA3351	3	3	3	3	3	3	24/02/2023	MECH	3
246028	MA3351	3	3	3	3	3	3	24/02/2023	MECH	3
246029	MA3351	3	3	3	3	3	3	24/02/2023	MECH	3
246030	MA3351	3	3	3	3	2	3	24/02/2023	MECH	3
246032	MA3351	3	3	2	2	2	3	24/02/2023	MECH	3
246033	MA3351	3	3	3	3	3	3	24/02/2023	MECH	3
246034	MA3351	3	3	3	2	2	3	24/02/2023	MECH	3
246035	MA3351	3	3	2	2	3	3	24/02/2023	MECH	3
246036	MA3351	3	3	2	2	2	3	24/02/2023	MECH	3
246037	MA3351	3	3	3	2	2	3	24/02/2023	MECH	3
246038	MA3351	3	3	3	3	3	3	24/02/2023	MECH	3
246039	MA3351	3	3	3	3	2	3	24/02/2023	MECH	3
246040	MA3351	3	3	3	2	2	3	24/02/2023	MECH	3
246041	MA3351	3	3	3	3	2	3	24/02/2023	MECH	3
246044	MA3351	3	3	3	2	2	3	24/02/2023	MECH	3

246045	MA3351	3	3	2	3	3	3	24/02/2023	MECH	3
246046	MA3351	3	3	3	2	2	3	24/02/2023	MECH	3
246047	MA3351	3	3	2	3	2	3	24/02/2023	MECH	3
246048	MA3351	3	3	3	2	2	3	24/02/2023	MECH	3
246049	MA3351	3	3	2	3	3	3	24/02/2023	MECH	3
246050	MA3351	3	3	2	2	3	3	24/02/2023	MECH	3
246051	MA3351	3	3	2	3	3	3	24/02/2023	MECH	3
246052	MA3351	3	3	2	2	3	3	24/02/2023	MECH	3
246053	MA3351	3	3	2	2	2	3	24/02/2023	MECH	3
246054	MA3351	3	3	3	3	2	3	24/02/2023	MECH	3
246055	MA3351	3	3	3	2	3	3	24/02/2023	MECH	3
246056	MA3351	3	3	3	3	2	3	24/02/2023	MECH	3
246057	MA3351	3	3	2	3	2	3	24/02/2023	MECH	3
246059	MA3351	3	3	3	2	2	3	24/02/2023	MECH	3
246060	MA3351	3	3	2	2	3	3	24/02/2023	MECH	3
246061	MA3351	3	3	2	3	3	3	24/02/2023	MECH	3
246062	MA3351	3	3	2	3	3	3	24/02/2023	MECH	3
246063	MA3351	3	3	3	2	2	3	24/02/2023	MECH	3
246064	MA3351	3	3	3	3	2	3	24/02/2023	MECH	3
246065	MA3351	3	3	2	3	2	3	24/02/2023	MECH	3
Attained Level		3.0	3.0	2.56	2.49	2.51	3.0			
%		100.00	100.00	85.33	83.00	83.67	100.00			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23ODD** Semester : **3** Programme: **B.E/B.Tech (MECH)**
Subject Code : **ME3351** NBA Code : **C202** Title **ENGINEERING MECHANICS**
Faculty: Dr.G.Jayaprakash

Cos	CO Description	Attained Level	%
C202.1	Illustrate the vector and scalar representation of forces and moments	3.0	100.00
C202.2	Analyse the rigid body in equilibrium	3.0	100.00
C202.3	Evaluate the properties of distributed forces	2.56	85.33
C202.4	Determine the friction and the effects by the laws of friction	2.44	81.33
C202.5	Perform kinematic analysis of particles	2.38	79.33
C202.6	Calculate dynamic forces exerted on a body	3.0	100.00

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 61

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
246001	ME3351	3	3	2	3	2	3	24/02/2023	MECH	3
246002	ME3351	3	3	2	3	2	3	24/02/2023	MECH	3
246003	ME3351	3	3	2	2	2	3	24/02/2023	MECH	3
246004	ME3351	3	3	2	2	2	3	24/02/2023	MECH	3
246005	ME3351	3	3	2	3	3	3	24/02/2023	MECH	3
246006	ME3351	3	3	3	2	2	3	24/02/2023	MECH	3
246007	ME3351	3	3	2	2	2	3	24/02/2023	MECH	3
246008	ME3351	3	3	2	3	3	3	24/02/2023	MECH	3
246009	ME3351	3	3	2	3	3	3	24/02/2023	MECH	3
246010	ME3351	3	3	3	2	3	3	24/02/2023	MECH	3
246011	ME3351	3	3	3	3	3	3	24/02/2023	MECH	3
246012	ME3351	3	3	2	3	3	3	24/02/2023	MECH	3

246013	ME3351	3	3	3	2	2	3	24/02/2023	MECH	3
246014	ME3351	3	3	2	2	3	3	24/02/2023	MECH	3
246015	ME3351	3	3	3	2	2	3	24/02/2023	MECH	3
246016	ME3351	3	3	3	3	2	3	24/02/2023	MECH	3
246017	ME3351	3	3	2	3	2	3	24/02/2023	MECH	3
246018	ME3351	3	3	2	2	2	3	24/02/2023	MECH	3
246019	ME3351	3	3	3	2	2	3	24/02/2023	MECH	3
246020	ME3351	3	3	3	2	2	3	24/02/2023	MECH	3
246021	ME3351	3	3	3	2	2	3	24/02/2023	MECH	3
246022	ME3351	3	3	3	3	2	3	24/02/2023	MECH	3
246023	ME3351	3	3	3	3	3	3	24/02/2023	MECH	3
246024	ME3351	3	3	3	2	3	3	24/02/2023	MECH	3
246025	ME3351	3	3	3	2	3	3	24/02/2023	MECH	3
246026	ME3351	3	3	2	2	3	3	24/02/2023	MECH	3
246027	ME3351	3	3	2	2	2	3	24/02/2023	MECH	3
246028	ME3351	3	3	2	3	2	3	24/02/2023	MECH	3
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246033	ME3351	3	3	2	2	2	3	24/02/2023	MECH	3
246034	ME3351	3	3	2	2	2	3	24/02/2023	MECH	3
246035	ME3351	3	3	2	2	2	3	24/02/2023	MECH	3
246036	ME3351	3	3	3	2	3	3	24/02/2023	MECH	3
246037	ME3351	3	3	3	2	2	3	24/02/2023	MECH	3
246038	ME3351	3	3	3	3	2	3	24/02/2023	MECH	3
246039	ME3351	3	3	3	3	3	3	24/02/2023	MECH	3
246040	ME3351	3	3	3	2	3	3	24/02/2023	MECH	3
246041	ME3351	3	3	3	2	2	3	24/02/2023	MECH	3
246044	ME3351	3	3	3	2	3	3	24/02/2023	MECH	3

246045	ME3351	3	3	3	2	3	3	24/02/2023	MECH	3
246046	ME3351	3	3	2	2	2	3	24/02/2023	MECH	3
246047	ME3351	3	3	3	2	2	3	24/02/2023	MECH	3
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246049	ME3351	3	3	2	3	3	3	24/02/2023	MECH	3
246050	ME3351	3	3	3	2	2	3	24/02/2023	MECH	3
246051	ME3351	3	3	2	2	2	3	24/02/2023	MECH	3
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246053	ME3351	3	3	2	3	3	3	24/02/2023	MECH	3
246054	ME3351	3	3	3	3	3	3	24/02/2023	MECH	3
246055	ME3351	3	3	2	2	2	3	24/02/2023	MECH	3
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246057	ME3351	3	3	3	3	2	3	24/02/2023	MECH	3
246059	ME3351	3	3	2	3	2	3	24/02/2023	MECH	3
246060	ME3351	3	3	3	3	2	3	24/02/2023	MECH	3
246061	ME3351	3	3	3	3	3	3	24/02/2023	MECH	3
246062	ME3351	3	3	2	3	2	3	24/02/2023	MECH	3
246063	ME3351	3	3	3	2	2	3	24/02/2023	MECH	3
246064	ME3351	3	3	3	3	2	3	24/02/2023	MECH	3
246065	ME3351	3	3	2	2	2	3	24/02/2023	MECH	3
Attained Level		3.0	3.0	2.56	2.44	2.38	3.0			
%		100.00	100.00	85.33	81.33	79.33	100.00			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23ODD** Semester : **3** Programme: **B.E/B.Tech (MECH)**
Subject Code : **ME3391** NBA Code : **C203** Title **ENGINEERINGTHERMODYNAMICS**
Faculty: Mr.S.Vinoth Kumar

Cos	CO Description	Attained Level	%
C203.1	apply the zeroth and first law of thermodynamics by formulating temperature scales and calculating the property changes in closed and open engineering systems.	3.0	100.00
C203.2	apply the second law of thermodynamics in analysing the performance of thermal devices through energy and entropy calculations.	3.0	100.00
C203.3	apply the second law of thermodynamics in evaluating the various properties of steam through steam tables and Mollier chart.	2.48	82.67
C203.4	apply the properties of pure substance in computing the macroscopic properties of ideal and real gases using gas laws and appropriate thermodynamic relations.	2.48	82.67
C203.5	apply the properties of gas mixtures in calculating the properties of gas mixtures.	2.49	83.00
C203.6	apply various thermodynamic relations to calculate property changes.	3.0	100.00

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 61

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
246001	ME3391	3	3	3	3	2	3	24/02/2023	MECH	3
246002	ME3391	3	3	2	2	3	3	24/02/2023	MECH	3
246003	ME3391	3	3	3	3	3	3	24/02/2023	MECH	3
246004	ME3391	3	3	3	3	3	3	24/02/2023	MECH	3
246005	ME3391	3	3	3	3	2	3	24/02/2023	MECH	3
246006	ME3391	3	3	3	3	3	3	24/02/2023	MECH	3
246007	ME3391	3	3	3	2	3	3	24/02/2023	MECH	3
246008	ME3391	3	3	3	2	2	3	24/02/2023	MECH	3

246009	ME3391	3	3	2	2	2	3	24/02/2023	MECH	3
246010	ME3391	3	3	3	2	2	3	24/02/2023	MECH	3
246011	ME3391	3	3	3	2	2	3	24/02/2023	MECH	3
246012	ME3391	3	3	2	3	2	3	24/02/2023	MECH	3
246013	ME3391	3	3	2	3	3	3	24/02/2023	MECH	3
246014	ME3391	3	3	2	3	3	3	24/02/2023	MECH	3
246015	ME3391	3	3	3	2	2	3	24/02/2023	MECH	3
246016	ME3391	3	3	2	2	3	3	24/02/2023	MECH	3
246017	ME3391	3	3	2	2	3	3	24/02/2023	MECH	3
246018	ME3391	3	3	2	2	3	3	24/02/2023	MECH	3
246019	ME3391	3	3	2	3	3	3	24/02/2023	MECH	3
246020	ME3391	3	3	3	2	3	3	24/02/2023	MECH	3
246021	ME3391	3	3	3	2	3	3	24/02/2023	MECH	3
246022	ME3391	3	3	2	2	3	3	24/02/2023	MECH	3
246023	ME3391	3	3	3	2	2	3	24/02/2023	MECH	3
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246025	ME3391	3	3	3	3	2	3	24/02/2023	MECH	3
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246030	ME3391	3	3	2	2	3	3	24/02/2023	MECH	3
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246033	ME3391	3	3	3	3	2	3	24/02/2023	MECH	3
246034	ME3391	3	3	3	3	3	3	24/02/2023	MECH	3
246035	ME3391	3	3	2	3	3	3	24/02/2023	MECH	3
246036	ME3391	3	3	3	3	2	3	24/02/2023	MECH	3
246037	ME3391	3	3	3	3	3	3	24/02/2023	MECH	3
246038	ME3391	3	3	3	2	3	3	24/02/2023	MECH	3

246039	ME3391	3	3	2	3	3	3	24/02/2023	MECH	3
246040	ME3391	3	3	2	3	2	3	24/02/2023	MECH	3
246041	ME3391	3	3	3	2	3	3	24/02/2023	MECH	3
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246046	ME3391	3	3	2	2	2	3	24/02/2023	MECH	3
246047	ME3391	3	3	2	2	2	3	24/02/2023	MECH	3
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246049	ME3391	3	3	2	2	3	3	24/02/2023	MECH	3
246050	ME3391	3	3	2	2	2	3	24/02/2023	MECH	3
246051	ME3391	3	3	3	3	2	3	24/02/2023	MECH	3
246052	ME3391	3	3	2	2	2	3	24/02/2023	MECH	3
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246055	ME3391	3	3	2	3	3	3	24/02/2023	MECH	3
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246057	ME3391	3	3	3	2	2	3	24/02/2023	MECH	3
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246060	ME3391	3	3	2	3	3	3	24/02/2023	MECH	3
246061	ME3391	3	3	3	3	2	3	24/02/2023	MECH	3
246062	ME3391	3	3	3	3	3	3	24/02/2023	MECH	3
246063	ME3391	3	3	2	2	2	3	24/02/2023	MECH	3
246064	ME3391	3	3	2	3	3	3	24/02/2023	MECH	3
246065	ME3391	3	3	2	2	2	3	24/02/2023	MECH	3
Attained Level		3.0	3.0	2.48	2.48	2.49	3.0			
%		100.00	100.00	82.67	82.67	83.00	100.00			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23ODD** Semester : **3** Programme: **B.E/B.Tech (MECH)**
Subject Code : **ME3392** NBA Code : **C205** Title **ENGINEERING MATERIALS AND METALLURGY**
Faculty: Dr.R.Rekha

Cos	CO Description	Attained Level	%
C205.1	Student will be able to understand the alloys and phase diagram, Iron-Iron carbon diagram and steel classification.	3.0	100.00
C205.2	Student will be able to analyze the isothermal transformation, continuous cooling diagrams and different heat treatment processes	3.0	100.00
C205.3	Student will be able to Clarify the effect of alloying elements on ferrous and non-ferrous metals	2.43	81.00
C205.4	Student will be able to Summarize the properties and applications of non metallic materials.	2.57	85.67
C205.5	Student will be able to study about polymers and ceramics	2.36	78.67
C205.6	Student will be able to calculate the testing of mechanical properties.	3.0	100.00

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 61

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
246001	ME3392	3	3	2	2	3	3	24/02/2023	MECH	3
246002	ME3392	3	3	2	2	3	3	24/02/2023	MECH	3
246003	ME3392	3	3	2	3	3	3	24/02/2023	MECH	3
246004	ME3392	3	3	2	3	2	3	24/02/2023	MECH	3
246005	ME3392	3	3	2	2	2	3	24/02/2023	MECH	3
246006	ME3392	3	3	3	3	2	3	24/02/2023	MECH	3
246007	ME3392	3	3	3	2	2	3	24/02/2023	MECH	3
246008	ME3392	3	3	2	2	2	3	24/02/2023	MECH	3
246009	ME3392	3	3	2	2	2	3	24/02/2023	MECH	3

246010	ME3392	3	3	2	3	2	3	24/02/2023	MECH	3
246011	ME3392	3	3	3	3	2	3	24/02/2023	MECH	3
246012	ME3392	3	3	2	3	2	3	24/02/2023	MECH	3
246013	ME3392	3	3	2	3	3	3	24/02/2023	MECH	3
246014	ME3392	3	3	2	3	2	3	24/02/2023	MECH	3
246015	ME3392	3	3	3	2	3	3	24/02/2023	MECH	3
246016	ME3392	3	3	2	3	2	3	24/02/2023	MECH	3
246017	ME3392	3	3	3	3	3	3	24/02/2023	MECH	3
246018	ME3392	3	3	2	3	3	3	24/02/2023	MECH	3
246019	ME3392	3	3	3	2	3	3	24/02/2023	MECH	3
246020	ME3392	3	3	3	3	2	3	24/02/2023	MECH	3
246021	ME3392	3	3	2	2	2	3	24/02/2023	MECH	3
246022	ME3392	3	3	3	3	2	3	24/02/2023	MECH	3
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246025	ME3392	3	3	2	2	2	3	24/02/2023	MECH	3
246026	ME3392	3	3	3	2	3	3	24/02/2023	MECH	3
246027	ME3392	3	3	3	2	3	3	24/02/2023	MECH	3
246028	ME3392	3	3	2	2	3	3	24/02/2023	MECH	3
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246034	ME3392	3	3	3	3	3	3	24/02/2023	MECH	3
246035	ME3392	3	3	3	3	2	3	24/02/2023	MECH	3
246036	ME3392	3	3	3	3	3	3	24/02/2023	MECH	3
246037	ME3392	3	3	3	3	3	3	24/02/2023	MECH	3
246038	ME3392	3	3	2	2	2	3	24/02/2023	MECH	3
246039	ME3392	3	3	3	2	3	3	24/02/2023	MECH	3

246040	ME3392	3	3	2	2	3	3	24/02/2023	MECH	3
246041	ME3392	3	3	3	3	2	3	24/02/2023	MECH	3
246044	ME3392	3	3	2	3	3	3	24/02/2023	MECH	3
246045	ME3392	3	3	3	3	2	3	24/02/2023	MECH	3
246046	ME3392	3	3	3	3	2	3	24/02/2023	MECH	3
246047	ME3392	3	3	2	3	2	3	24/02/2023	MECH	3
246048	ME3392	3	3	2	3	2	3	24/02/2023	MECH	3
246049	ME3392	3	3	2	3	2	3	24/02/2023	MECH	3
246050	ME3392	3	3	3	2	2	3	24/02/2023	MECH	3
246051	ME3392	3	3	3	2	2	3	24/02/2023	MECH	3
246052	ME3392	3	3	2	2	3	3	24/02/2023	MECH	3
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246054	ME3392	3	3	2	3	2	3	24/02/2023	MECH	3
246055	ME3392	3	3	2	3	2	3	24/02/2023	MECH	3
246056	ME3392	3	3	2	2	2	3	24/02/2023	MECH	3
246057	ME3392	3	3	2	3	3	3	24/02/2023	MECH	3
246059	ME3392	3	3	2	2	2	3	24/02/2023	MECH	3
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246061	ME3392	3	3	3	3	2	3	24/02/2023	MECH	3
246062	ME3392	3	3	2	3	2	3	24/02/2023	MECH	3
246063	ME3392	3	3	3	2	3	3	24/02/2023	MECH	3
246064	ME3392	3	3	3	3	2	3	24/02/2023	MECH	3
246065	ME3392	3	3	3	2	2	3	24/02/2023	MECH	3
Attained Level		3.0	3.0	2.43	2.57	2.36	3.0			
%		100.00	100.00	81.00	85.67	78.67	100.00			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23ODD** Semester : **3** Programme: **B.E/B.Tech (MECH)**
Subject Code : **ME3393** NBA Code : **C206** Title **MANUFACTURING PROCESSES**
Faculty: Dr.N.Baskar

Cos	CO Description	Attained Level	%
C206.1	Understand about the types of patterns and preparation of green sand moulding process.	3.0	100.00
C206.2	Understand the various special casting process and casting defects.	3.0	100.00
C206.3	Learn and apply the working principles of various metal joining processes.	2.49	83.00
C206.4	Analyze the working principles of bulk deformation of metals.	2.44	81.33
C206.5	Learn the working principles of sheet metal forming processes.	2.48	82.67
C206.6	Study and practice the working principles of plastics moulding.	3.0	100.00

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 61

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
246001	ME3393	3	3	2	3	2	3	24/02/2023	MECH	3
246002	ME3393	3	3	2	3	3	3	24/02/2023	MECH	3
246003	ME3393	3	3	2	3	3	3	24/02/2023	MECH	3
246004	ME3393	3	3	2	2	2	3	24/02/2023	MECH	3
246005	ME3393	3	3	3	3	3	3	24/02/2023	MECH	3
246006	ME3393	3	3	3	2	2	3	24/02/2023	MECH	3
246007	ME3393	3	3	3	3	2	3	24/02/2023	MECH	3
246008	ME3393	3	3	2	2	2	3	24/02/2023	MECH	3
246009	ME3393	3	3	3	2	2	3	24/02/2023	MECH	3
246010	ME3393	3	3	3	2	2	3	24/02/2023	MECH	3
246011	ME3393	3	3	2	3	2	3	24/02/2023	MECH	3
246012	ME3393	3	3	2	3	2	3	24/02/2023	MECH	3

246013	ME3393	3	3	2	2	2	3	24/02/2023	MECH	3
246014	ME3393	3	3	2	2	2	3	24/02/2023	MECH	3
246015	ME3393	3	3	3	2	2	3	24/02/2023	MECH	3
246016	ME3393	3	3	3	3	3	3	24/02/2023	MECH	3
246017	ME3393	3	3	3	2	3	3	24/02/2023	MECH	3
246018	ME3393	3	3	3	2	2	3	24/02/2023	MECH	3
246019	ME3393	3	3	3	3	3	3	24/02/2023	MECH	3
246020	ME3393	3	3	3	3	2	3	24/02/2023	MECH	3
246021	ME3393	3	3	3	2	3	3	24/02/2023	MECH	3
246022	ME3393	3	3	3	2	3	3	24/02/2023	MECH	3
246023	ME3393	3	3	2	3	3	3	24/02/2023	MECH	3
246024	ME3393	3	3	2	2	2	3	24/02/2023	MECH	3
246025	ME3393	3	3	3	2	3	3	24/02/2023	MECH	3
246026	ME3393	3	3	2	2	3	3	24/02/2023	MECH	3
246027	ME3393	3	3	2	2	2	3	24/02/2023	MECH	3
246028	ME3393	3	3	2	3	3	3	24/02/2023	MECH	3
246029	ME3393	3	3	2	3	2	3	24/02/2023	MECH	3
246030	ME3393	3	3	3	2	3	3	24/02/2023	MECH	3
246032	ME3393	3	3	3	3	3	3	24/02/2023	MECH	3
246033	ME3393	3	3	3	2	2	3	24/02/2023	MECH	3
246034	ME3393	3	3	3	2	2	3	24/02/2023	MECH	3
246035	ME3393	3	3	3	2	2	3	24/02/2023	MECH	3
246036	ME3393	3	3	2	3	3	3	24/02/2023	MECH	3
246037	ME3393	3	3	2	3	2	3	24/02/2023	MECH	3
246038	ME3393	3	3	2	2	3	3	24/02/2023	MECH	3
246039	ME3393	3	3	3	2	2	3	24/02/2023	MECH	3
246040	ME3393	3	3	3	2	3	3	24/02/2023	MECH	3
246041	ME3393	3	3	2	2	3	3	24/02/2023	MECH	3
246044	ME3393	3	3	3	2	3	3	24/02/2023	MECH	3

246045	ME3393	3	3	2	2	3	3	24/02/2023	MECH	3
246046	ME3393	3	3	3	3	2	3	24/02/2023	MECH	3
246047	ME3393	3	3	2	3	2	3	24/02/2023	MECH	3
246048	ME3393	3	3	2	2	3	3	24/02/2023	MECH	3
246049	ME3393	3	3	2	3	3	3	24/02/2023	MECH	3
246050	ME3393	3	3	2	2	2	3	24/02/2023	MECH	3
246051	ME3393	3	3	2	2	2	3	24/02/2023	MECH	3
246052	ME3393	3	3	3	2	2	3	24/02/2023	MECH	3
246053	ME3393	3	3	2	3	3	3	24/02/2023	MECH	3
246054	ME3393	3	3	2	3	2	3	24/02/2023	MECH	3
246055	ME3393	3	3	3	3	3	3	24/02/2023	MECH	3
246056	ME3393	3	3	2	3	2	3	24/02/2023	MECH	3
246057	ME3393	3	3	3	3	3	3	24/02/2023	MECH	3
246059	ME3393	3	3	2	3	3	3	24/02/2023	MECH	3
246060	ME3393	3	3	3	3	3	3	24/02/2023	MECH	3
246061	ME3393	3	3	2	2	2	3	24/02/2023	MECH	3
246062	ME3393	3	3	3	2	2	3	24/02/2023	MECH	3
246063	ME3393	3	3	3	2	2	3	24/02/2023	MECH	3
246064	ME3393	3	3	3	3	3	3	24/02/2023	MECH	3
246065	ME3393	3	3	2	2	3	3	24/02/2023	MECH	3
Attained Level		3.0	3.0	2.49	2.44	2.48	3.0			
%		100.00	100.00	83.00	81.33	82.67	100.00			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23ODD** Semester : **5** Programme: **B.E/B.Tech (MECH)**
Subject Code : **ME8501** NBA Code : **C303** Title **METROLOGY AND MEASUREMENTS**
Faculty: Mr.S.Karthikeyan

Cos	CO Description	Attained Level	%
C303.1	Explain the various measuring instruments its errors and ways to control it.	3.0	100.00
C303.2	Explain the various linear measuring instruments with their uses and applications. Also to know the concepts of interchangeability.	3.0	100.00
C303.3	Analyse the various taper angle by angular measuring instruments with their uses and applications	2.64	88.00
C303.4	Describe the advanced measuring instruments like laser, CMM and interferometers.	2.51	83.67
C303.5	Identify the difference between straightness, flatness and roundness measurements and their applications.	2.57	85.67
C303.6	Distinguish between the various measuring instruments for power, flow and temperature measurements.	3.0	100.00

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 77

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
236001	ME8501	3	3	3	3	3	3	24/02/2023	MECH	5
236002	ME8501	3	3	3	2	3	3	24/02/2023	MECH	5
236003	ME8501	3	3	3	3	2	3	24/02/2023	MECH	5
236004	ME8501	3	3	3	3	3	3	24/02/2023	MECH	5
236005	ME8501	3	3	2	3	3	3	24/02/2023	MECH	5
236006	ME8501	3	3	3	3	2	3	24/02/2023	MECH	5
236007	ME8501	3	3	3	2	2	3	24/02/2023	MECH	5
236008	ME8501	3	3	3	2	2	3	24/02/2023	MECH	5
236009	ME8501	3	3	3	2	3	3	24/02/2023	MECH	5
236010	ME8501	3	3	2	3	3	3	24/02/2023	MECH	5

236011	ME8501	3	3	3	2	2	3	24/02/2023	MECH	5
236012	ME8501	3	3	2	3	3	3	24/02/2023	MECH	5
236013	ME8501	3	3	3	2	3	3	24/02/2023	MECH	5
236014	ME8501	3	3	3	3	2	3	24/02/2023	MECH	5
236015	ME8501	3	3	2	3	3	3	24/02/2023	MECH	5
236017	ME8501	3	3	2	2	2	3	24/02/2023	MECH	5
236018	ME8501	3	3	3	2	3	3	24/02/2023	MECH	5
236019	ME8501	3	3	2	2	2	3	24/02/2023	MECH	5
236020	ME8501	3	3	3	3	2	3	24/02/2023	MECH	5
236021	ME8501	3	3	3	3	3	3	24/02/2023	MECH	5
236022	ME8501	3	3	3	3	3	3	24/02/2023	MECH	5
236023	ME8501	3	3	2	3	3	3	24/02/2023	MECH	5
236024	ME8501	3	3	3	2	3	3	24/02/2023	MECH	5
236025	ME8501	3	3	3	2	3	3	24/02/2023	MECH	5
236026	ME8501	3	3	2	3	2	3	24/02/2023	MECH	5
236027	ME8501	3	3	3	3	3	3	24/02/2023	MECH	5
236028	ME8501	3	3	2	2	3	3	24/02/2023	MECH	5
236029	ME8501	3	3	3	3	3	3	24/02/2023	MECH	5
236030	ME8501	3	3	3	2	2	3	24/02/2023	MECH	5
236031	ME8501	3	3	3	2	2	3	24/02/2023	MECH	5
236032	ME8501	3	3	3	3	3	3	24/02/2023	MECH	5
236033	ME8501	3	3	2	2	2	3	24/02/2023	MECH	5
236034	ME8501	3	3	2	2	3	3	24/02/2023	MECH	5
236035	ME8501	3	3	3	3	3	3	24/02/2023	MECH	5
236036	ME8501	3	3	3	2	3	3	24/02/2023	MECH	5
236037	ME8501	3	3	3	2	2	3	24/02/2023	MECH	5
236038	ME8501	3	3	3	3	3	3	24/02/2023	MECH	5
236039	ME8501	3	3	2	3	3	3	24/02/2023	MECH	5
236040	ME8501	3	3	3	3	3	3	24/02/2023	MECH	5

236041	ME8501	3	3	3	2	2	3	24/02/2023	MECH	5
236042	ME8501	3	3	2	3	2	3	24/02/2023	MECH	5
236043	ME8501	3	3	2	2	2	3	24/02/2023	MECH	5
236044	ME8501	3	3	2	2	2	3	24/02/2023	MECH	5
236045	ME8501	3	3	3	3	2	3	24/02/2023	MECH	5
236046	ME8501	3	3	3	3	2	3	24/02/2023	MECH	5
236047	ME8501	3	3	2	2	2	3	24/02/2023	MECH	5
236049	ME8501	3	3	3	3	3	3	24/02/2023	MECH	5
236050	ME8501	3	3	3	2	3	3	24/02/2023	MECH	5
236051	ME8501	3	3	2	3	3	3	24/02/2023	MECH	5
236052	ME8501	3	3	2	2	2	3	24/02/2023	MECH	5
236053	ME8501	3	3	3	3	2	3	24/02/2023	MECH	5
236054	ME8501	3	3	3	3	3	3	24/02/2023	MECH	5
236055	ME8501	3	3	3	3	3	3	24/02/2023	MECH	5
236056	ME8501	3	3	3	2	3	3	24/02/2023	MECH	5
236057	ME8501	3	3	3	2	3	3	24/02/2023	MECH	5
236058	ME8501	3	3	3	2	2	3	24/02/2023	MECH	5
236059	ME8501	3	3	3	3	3	3	24/02/2023	MECH	5
236060	ME8501	3	3	3	3	3	3	24/02/2023	MECH	5
236061	ME8501	3	3	3	3	3	3	24/02/2023	MECH	5
236062	ME8501	3	3	2	2	2	3	24/02/2023	MECH	5
236063	ME8501	3	3	3	3	2	3	24/02/2023	MECH	5
236064	ME8501	3	3	2	2	2	3	24/02/2023	MECH	5
236065	ME8501	3	3	3	2	2	3	24/02/2023	MECH	5
236066	ME8501	3	3	3	2	3	3	24/02/2023	MECH	5
236067	ME8501	3	3	3	3	3	3	24/02/2023	MECH	5
236068	ME8501	3	3	2	3	2	3	24/02/2023	MECH	5
236069	ME8501	3	3	3	2	2	3	24/02/2023	MECH	5
236070	ME8501	3	3	2	2	3	3	24/02/2023	MECH	5

236071	ME8501	3	3	2	3	3	3	24/02/2023	MECH	5
236072	ME8501	3	3	3	3	3	3	24/02/2023	MECH	5
236073	ME8501	3	3	2	3	2	3	24/02/2023	MECH	5
236074	ME8501	3	3	2	2	2	3	24/02/2023	MECH	5
236075	ME8501	3	3	2	2	3	3	24/02/2023	MECH	5
236076	ME8501	3	3	3	2	3	3	24/02/2023	MECH	5
236077	ME8501	3	3	2	2	3	3	24/02/2023	MECH	5
236078	ME8501	3	3	2	2	2	3	24/02/2023	MECH	5
236079	ME8501	3	3	3	3	3	3	24/02/2023	MECH	5
Attained Level		3.0	3.0	2.64	2.51	2.57	3.0			
%		100.00	100.00	88.00	83.67	85.67	100.00			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23ODD** Semester : **5** Programme: **B.E/B.Tech (MECH)**
Subject Code : **ME8593** NBA Code : **C302** Title **DESIGN OF MACHINE ELEMENTS**
Faculty: Mr.R.Suresh Babu

Cos	CO Description	Attained Level	%
C302.1	Explain the materials selection based on mechanical properties and fundamentals of stress analysis in the design of machine components.	3.0	100.00
C302.2	Calculate principal stresses and factor of safety for various theories of failure under different loading conditions.	3.0	100.00
C302.3	Design the shafts, keys and couplings.	2.42	80.67
C302.4	Design the permanent and temporary fasteners.	2.47	82.33
C302.5	Calculate various dimensions of energy storing elements and engine components.	2.42	80.67
C302.6	Select the various bearings according to the applications and lubrication requirements.	3.0	100.00

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 77

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
236001	ME8593	3	3	3	2	3	3	24/02/2023	MECH	5
236002	ME8593	3	3	2	2	2	3	24/02/2023	MECH	5
236003	ME8593	3	3	2	3	2	3	24/02/2023	MECH	5
236004	ME8593	3	3	2	3	2	3	24/02/2023	MECH	5
236005	ME8593	3	3	2	2	2	3	24/02/2023	MECH	5
236006	ME8593	3	3	3	3	3	3	24/02/2023	MECH	5
236007	ME8593	3	3	3	3	3	3	24/02/2023	MECH	5
236008	ME8593	3	3	2	3	3	3	24/02/2023	MECH	5
236009	ME8593	3	3	2	2	2	3	24/02/2023	MECH	5
236010	ME8593	3	3	2	2	2	3	24/02/2023	MECH	5

236011	ME8593	3	3	3	2	3	3	24/02/2023	MECH	5
236012	ME8593	3	3	3	3	3	3	24/02/2023	MECH	5
236013	ME8593	3	3	2	2	2	3	24/02/2023	MECH	5
236014	ME8593	3	3	2	2	2	3	24/02/2023	MECH	5
236015	ME8593	3	3	2	2	2	3	24/02/2023	MECH	5
236017	ME8593	3	3	2	2	3	3	24/02/2023	MECH	5
236018	ME8593	3	3	3	2	2	3	24/02/2023	MECH	5
236019	ME8593	3	3	2	2	3	3	24/02/2023	MECH	5
236020	ME8593	3	3	3	3	3	3	24/02/2023	MECH	5
236021	ME8593	3	3	3	2	2	3	24/02/2023	MECH	5
236022	ME8593	3	3	3	2	2	3	24/02/2023	MECH	5
236023	ME8593	3	3	2	2	3	3	24/02/2023	MECH	5
236024	ME8593	3	3	3	3	3	3	24/02/2023	MECH	5
236025	ME8593	3	3	2	2	2	3	24/02/2023	MECH	5
236026	ME8593	3	3	2	2	2	3	24/02/2023	MECH	5
236027	ME8593	3	3	2	2	3	3	24/02/2023	MECH	5
236028	ME8593	3	3	3	3	3	3	24/02/2023	MECH	5
236029	ME8593	3	3	3	2	3	3	24/02/2023	MECH	5
236030	ME8593	3	3	3	2	2	3	24/02/2023	MECH	5
236031	ME8593	3	3	3	3	2	3	24/02/2023	MECH	5
236032	ME8593	3	3	3	3	2	3	24/02/2023	MECH	5
236033	ME8593	3	3	2	3	2	3	24/02/2023	MECH	5
236034	ME8593	3	3	2	2	2	3	24/02/2023	MECH	5
236035	ME8593	3	3	3	3	2	3	24/02/2023	MECH	5
236036	ME8593	3	3	2	3	3	3	24/02/2023	MECH	5
236037	ME8593	3	3	2	3	2	3	24/02/2023	MECH	5
236038	ME8593	3	3	2	2	3	3	24/02/2023	MECH	5
236039	ME8593	3	3	3	2	2	3	24/02/2023	MECH	5
236040	ME8593	3	3	2	2	2	3	24/02/2023	MECH	5

236041	ME8593	3	3	3	2	2	3	24/02/2023	MECH	5
236042	ME8593	3	3	2	3	2	3	24/02/2023	MECH	5
236043	ME8593	3	3	2	3	2	3	24/02/2023	MECH	5
236044	ME8593	3	3	2	3	3	3	24/02/2023	MECH	5
236045	ME8593	3	3	2	3	2	3	24/02/2023	MECH	5
236046	ME8593	3	3	2	2	3	3	24/02/2023	MECH	5
236047	ME8593	3	3	2	2	3	3	24/02/2023	MECH	5
236049	ME8593	3	3	3	2	3	3	24/02/2023	MECH	5
236050	ME8593	3	3	2	3	2	3	24/02/2023	MECH	5
236051	ME8593	3	3	2	3	3	3	24/02/2023	MECH	5
236052	ME8593	3	3	3	2	3	3	24/02/2023	MECH	5
236053	ME8593	3	3	2	2	2	3	24/02/2023	MECH	5
236054	ME8593	3	3	3	2	3	3	24/02/2023	MECH	5
236055	ME8593	3	3	2	2	2	3	24/02/2023	MECH	5
236056	ME8593	3	3	3	3	2	3	24/02/2023	MECH	5
236057	ME8593	3	3	2	2	2	3	24/02/2023	MECH	5
236058	ME8593	3	3	2	3	3	3	24/02/2023	MECH	5
236059	ME8593	3	3	3	3	3	3	24/02/2023	MECH	5
236060	ME8593	3	3	3	2	2	3	24/02/2023	MECH	5
236061	ME8593	3	3	3	2	2	3	24/02/2023	MECH	5
236062	ME8593	3	3	2	3	2	3	24/02/2023	MECH	5
236063	ME8593	3	3	2	3	2	3	24/02/2023	MECH	5
236064	ME8593	3	3	2	3	2	3	24/02/2023	MECH	5
236065	ME8593	3	3	2	3	3	3	24/02/2023	MECH	5
236066	ME8593	3	3	3	3	2	3	24/02/2023	MECH	5
236067	ME8593	3	3	3	3	2	3	24/02/2023	MECH	5
236068	ME8593	3	3	3	3	2	3	24/02/2023	MECH	5
236069	ME8593	3	3	2	3	2	3	24/02/2023	MECH	5
236070	ME8593	3	3	2	3	3	3	24/02/2023	MECH	5

236071	ME8593	3	3	2	3	2	3	24/02/2023	MECH	5
236072	ME8593	3	3	3	2	3	3	24/02/2023	MECH	5
236073	ME8593	3	3	2	3	3	3	24/02/2023	MECH	5
236074	ME8593	3	3	3	2	2	3	24/02/2023	MECH	5
236075	ME8593	3	3	3	2	3	3	24/02/2023	MECH	5
236076	ME8593	3	3	2	2	3	3	24/02/2023	MECH	5
236077	ME8593	3	3	2	2	3	3	24/02/2023	MECH	5
236078	ME8593	3	3	2	2	2	3	24/02/2023	MECH	5
236079	ME8593	3	3	3	3	2	3	24/02/2023	MECH	5
Attained Level		3.0	3.0	2.42	2.47	2.42	3.0			
%		100.00	100.00	80.67	82.33	80.67	100.00			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23ODD** Semester : **5** Programme: **B.E/B.Tech (MECH)**
Subject Code : **ME8594** NBA Code : **C304** Title **DYNAMICS OF MACHINES**
Faculty: Dr.G.Jayaprakash

Cos	CO Description	Attained Level	%
C304.1	Calculate static and dynamic forces of mechanisms	3.0	100.00
C304.2	explain the working of flywheels and punching presses.	3.0	100.00
C304.3	Calculate the balancing masses and their locations of reciprocating and rotating masses.	2.51	83.67
C304.4	Compute the frequency of free vibration.	2.52	84.00
C304.5	Compute the frequency of forced vibration and damping coefficient.	2.6	86.67
C304.6	Calculate the speed and lift of the governor and estimate the gyroscopic effect on automobiles, ships and airplanes.	3.0	100.00

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 77

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
236001	ME8594	3	3	3	3	3	3	24/02/2023	MECH	5
236002	ME8594	3	3	2	3	3	3	24/02/2023	MECH	5
236003	ME8594	3	3	3	2	2	3	24/02/2023	MECH	5
236004	ME8594	3	3	3	3	3	3	24/02/2023	MECH	5
236005	ME8594	3	3	2	3	3	3	24/02/2023	MECH	5
236006	ME8594	3	3	3	2	2	3	24/02/2023	MECH	5
236007	ME8594	3	3	2	3	3	3	24/02/2023	MECH	5
236008	ME8594	3	3	3	2	3	3	24/02/2023	MECH	5
236009	ME8594	3	3	2	2	3	3	24/02/2023	MECH	5
236010	ME8594	3	3	3	2	2	3	24/02/2023	MECH	5

236011	ME8594	3	3	3	3	3	3	24/02/2023	MECH	5
236012	ME8594	3	3	3	2	3	3	24/02/2023	MECH	5
236013	ME8594	3	3	3	2	3	3	24/02/2023	MECH	5
236014	ME8594	3	3	3	3	3	3	24/02/2023	MECH	5
236015	ME8594	3	3	2	3	2	3	24/02/2023	MECH	5
236017	ME8594	3	3	3	2	3	3	24/02/2023	MECH	5
236018	ME8594	3	3	3	2	3	3	24/02/2023	MECH	5
236019	ME8594	3	3	2	2	2	3	24/02/2023	MECH	5
236020	ME8594	3	3	3	2	2	3	24/02/2023	MECH	5
236021	ME8594	3	3	2	3	3	3	24/02/2023	MECH	5
236022	ME8594	3	3	3	3	2	3	24/02/2023	MECH	5
236023	ME8594	3	3	2	3	3	3	24/02/2023	MECH	5
236024	ME8594	3	3	3	3	2	3	24/02/2023	MECH	5
236025	ME8594	3	3	3	3	3	3	24/02/2023	MECH	5
236026	ME8594	3	3	2	2	2	3	24/02/2023	MECH	5
236027	ME8594	3	3	3	2	3	3	24/02/2023	MECH	5
236028	ME8594	3	3	3	3	3	3	24/02/2023	MECH	5
236029	ME8594	3	3	3	2	3	3	24/02/2023	MECH	5
236030	ME8594	3	3	3	2	2	3	24/02/2023	MECH	5
236031	ME8594	3	3	2	3	2	3	24/02/2023	MECH	5
236032	ME8594	3	3	2	3	2	3	24/02/2023	MECH	5
236033	ME8594	3	3	2	2	3	3	24/02/2023	MECH	5
236034	ME8594	3	3	2	2	2	3	24/02/2023	MECH	5
236035	ME8594	3	3	2	2	2	3	24/02/2023	MECH	5
236036	ME8594	3	3	3	2	3	3	24/02/2023	MECH	5
236037	ME8594	3	3	2	3	3	3	24/02/2023	MECH	5
236038	ME8594	3	3	3	3	3	3	24/02/2023	MECH	5
236039	ME8594	3	3	2	2	3	3	24/02/2023	MECH	5
236040	ME8594	3	3	2	3	3	3	24/02/2023	MECH	5

236041	ME8594	3	3	2	3	2	3	24/02/2023	MECH	5
236042	ME8594	3	3	2	2	2	3	24/02/2023	MECH	5
236043	ME8594	3	3	2	2	3	3	24/02/2023	MECH	5
236044	ME8594	3	3	2	3	3	3	24/02/2023	MECH	5
236045	ME8594	3	3	2	2	3	3	24/02/2023	MECH	5
236046	ME8594	3	3	3	3	3	3	24/02/2023	MECH	5
236047	ME8594	3	3	3	3	2	3	24/02/2023	MECH	5
236049	ME8594	3	3	3	2	2	3	24/02/2023	MECH	5
236050	ME8594	3	3	3	2	2	3	24/02/2023	MECH	5
236051	ME8594	3	3	2	3	3	3	24/02/2023	MECH	5
236052	ME8594	3	3	2	2	3	3	24/02/2023	MECH	5
236053	ME8594	3	3	2	3	3	3	24/02/2023	MECH	5
236054	ME8594	3	3	3	3	3	3	24/02/2023	MECH	5
236055	ME8594	3	3	3	2	2	3	24/02/2023	MECH	5
236056	ME8594	3	3	3	2	2	3	24/02/2023	MECH	5
236057	ME8594	3	3	2	3	2	3	24/02/2023	MECH	5
236058	ME8594	3	3	2	2	2	3	24/02/2023	MECH	5
236059	ME8594	3	3	2	2	2	3	24/02/2023	MECH	5
236060	ME8594	3	3	3	3	3	3	24/02/2023	MECH	5
236061	ME8594	3	3	2	2	2	3	24/02/2023	MECH	5
236062	ME8594	3	3	3	3	2	3	24/02/2023	MECH	5
236063	ME8594	3	3	2	3	2	3	24/02/2023	MECH	5
236064	ME8594	3	3	2	2	3	3	24/02/2023	MECH	5
236065	ME8594	3	3	3	2	3	3	24/02/2023	MECH	5
236066	ME8594	3	3	2	2	3	3	24/02/2023	MECH	5
236067	ME8594	3	3	2	2	3	3	24/02/2023	MECH	5
236068	ME8594	3	3	3	3	2	3	24/02/2023	MECH	5
236069	ME8594	3	3	3	3	3	3	24/02/2023	MECH	5
236070	ME8594	3	3	3	3	2	3	24/02/2023	MECH	5

236071	ME8594	3	3	3	2	3	3	24/02/2023	MECH	5
236072	ME8594	3	3	3	3	3	3	24/02/2023	MECH	5
236073	ME8594	3	3	2	3	3	3	24/02/2023	MECH	5
236074	ME8594	3	3	2	2	2	3	24/02/2023	MECH	5
236075	ME8594	3	3	2	3	3	3	24/02/2023	MECH	5
236076	ME8594	3	3	3	3	2	3	24/02/2023	MECH	5
236077	ME8594	3	3	3	3	3	3	24/02/2023	MECH	5
236078	ME8594	3	3	2	3	3	3	24/02/2023	MECH	5
236079	ME8594	3	3	2	3	3	3	24/02/2023	MECH	5
Attained Level		3.0	3.0	2.51	2.52	2.6	3.0			
%		100.00	100.00	83.67	84.00	86.67	100.00			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23ODD** Semester : **5** Programme: **B.E/B.Tech (MECH)**
Subject Code : **ME8595** NBA Code : **C301** Title **THERMAL ENGINEERING- II**
Faculty: Dr.A.Mercy Vasan

Cos	CO Description	Attained Level	%
C301.1	Apply thermodynamic concepts and solve problems in Steam Nozzles	3.0	100.00
C301.2	Explain the functioning and features of different types of Boilers and auxiliaries and calculate performance parameters	3.0	100.00
C301.3	Explain the flow in steam turbines, draw velocity diagrams for steam turbines and solve problems	2.43	81.00
C301.4	Understand the concept of Co-generation and the concept of utilizing residual heat in thermal systems like Heat pumps and Heat exchangers	2.44	81.33
C301.5	Apply thermodynamic concepts to refrigeration systems and solve problems using refrigerant table / charts	2.42	80.67
C301.6	Apply thermodynamic concepts to air conditioning systems and solve problems using psychrometric charts	3.0	100.00

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 77

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
236001	ME8595	3	3	2	3	3	3	24/02/2023	MECH	5
236002	ME8595	3	3	3	2	3	3	24/02/2023	MECH	5
236003	ME8595	3	3	2	3	2	3	24/02/2023	MECH	5
236004	ME8595	3	3	3	3	3	3	24/02/2023	MECH	5
236005	ME8595	3	3	3	2	3	3	24/02/2023	MECH	5
236006	ME8595	3	3	2	2	3	3	24/02/2023	MECH	5
236007	ME8595	3	3	2	3	2	3	24/02/2023	MECH	5
236008	ME8595	3	3	3	2	2	3	24/02/2023	MECH	5
236009	ME8595	3	3	3	2	2	3	24/02/2023	MECH	5

236010	ME8595	3	3	3	2	3	3	24/02/2023	MECH	5
236011	ME8595	3	3	2	2	3	3	24/02/2023	MECH	5
236012	ME8595	3	3	3	2	2	3	24/02/2023	MECH	5
236013	ME8595	3	3	3	2	2	3	24/02/2023	MECH	5
236014	ME8595	3	3	3	2	2	3	24/02/2023	MECH	5
236015	ME8595	3	3	2	3	3	3	24/02/2023	MECH	5
236017	ME8595	3	3	2	3	2	3	24/02/2023	MECH	5
236018	ME8595	3	3	2	2	3	3	24/02/2023	MECH	5
236019	ME8595	3	3	3	2	2	3	24/02/2023	MECH	5
236020	ME8595	3	3	2	2	3	3	24/02/2023	MECH	5
236021	ME8595	3	3	2	3	2	3	24/02/2023	MECH	5
236022	ME8595	3	3	3	3	2	3	24/02/2023	MECH	5
236023	ME8595	3	3	2	2	2	3	24/02/2023	MECH	5
236024	ME8595	3	3	2	2	3	3	24/02/2023	MECH	5
236025	ME8595	3	3	2	3	2	3	24/02/2023	MECH	5
236026	ME8595	3	3	3	2	2	3	24/02/2023	MECH	5
236027	ME8595	3	3	2	3	3	3	24/02/2023	MECH	5
236028	ME8595	3	3	3	3	2	3	24/02/2023	MECH	5
236029	ME8595	3	3	2	2	3	3	24/02/2023	MECH	5
236030	ME8595	3	3	2	3	2	3	24/02/2023	MECH	5
236031	ME8595	3	3	2	2	2	3	24/02/2023	MECH	5
236032	ME8595	3	3	2	2	2	3	24/02/2023	MECH	5
236033	ME8595	3	3	3	2	2	3	24/02/2023	MECH	5
236034	ME8595	3	3	2	3	3	3	24/02/2023	MECH	5
236035	ME8595	3	3	3	3	2	3	24/02/2023	MECH	5
236036	ME8595	3	3	2	2	2	3	24/02/2023	MECH	5
236037	ME8595	3	3	3	2	2	3	24/02/2023	MECH	5
236038	ME8595	3	3	2	2	2	3	24/02/2023	MECH	5
236039	ME8595	3	3	2	2	2	3	24/02/2023	MECH	5

236040	ME8595	3	3	3	2	3	3	24/02/2023	MECH	5
236041	ME8595	3	3	2	3	3	3	24/02/2023	MECH	5
236042	ME8595	3	3	2	2	2	3	24/02/2023	MECH	5
236043	ME8595	3	3	3	2	3	3	24/02/2023	MECH	5
236044	ME8595	3	3	3	2	2	3	24/02/2023	MECH	5
236045	ME8595	3	3	3	3	3	3	24/02/2023	MECH	5
236046	ME8595	3	3	2	3	2	3	24/02/2023	MECH	5
236047	ME8595	3	3	2	3	2	3	24/02/2023	MECH	5
236049	ME8595	3	3	2	3	3	3	24/02/2023	MECH	5
236050	ME8595	3	3	2	2	2	3	24/02/2023	MECH	5
236051	ME8595	3	3	3	2	3	3	24/02/2023	MECH	5
236052	ME8595	3	3	3	2	2	3	24/02/2023	MECH	5
236053	ME8595	3	3	2	3	2	3	24/02/2023	MECH	5
236054	ME8595	3	3	3	3	3	3	24/02/2023	MECH	5
236055	ME8595	3	3	3	2	2	3	24/02/2023	MECH	5
236056	ME8595	3	3	3	3	3	3	24/02/2023	MECH	5
236057	ME8595	3	3	2	3	3	3	24/02/2023	MECH	5
236058	ME8595	3	3	2	2	3	3	24/02/2023	MECH	5
236059	ME8595	3	3	2	2	2	3	24/02/2023	MECH	5
236060	ME8595	3	3	3	3	2	3	24/02/2023	MECH	5
236061	ME8595	3	3	2	2	2	3	24/02/2023	MECH	5
236062	ME8595	3	3	2	2	3	3	24/02/2023	MECH	5
236063	ME8595	3	3	2	3	2	3	24/02/2023	MECH	5
236064	ME8595	3	3	2	3	2	3	24/02/2023	MECH	5
236065	ME8595	3	3	3	2	2	3	24/02/2023	MECH	5
236066	ME8595	3	3	2	2	2	3	24/02/2023	MECH	5
236067	ME8595	3	3	2	3	2	3	24/02/2023	MECH	5
236068	ME8595	3	3	3	2	2	3	24/02/2023	MECH	5
236069	ME8595	3	3	2	2	3	3	24/02/2023	MECH	5

236070	ME8595	3	3	2	3	3	3	24/02/2023	MECH	5
236071	ME8595	3	3	2	3	3	3	24/02/2023	MECH	5
236072	ME8595	3	3	2	3	3	3	24/02/2023	MECH	5
236073	ME8595	3	3	3	3	2	3	24/02/2023	MECH	5
236074	ME8595	3	3	3	3	2	3	24/02/2023	MECH	5
236075	ME8595	3	3	3	2	3	3	24/02/2023	MECH	5
236076	ME8595	3	3	3	3	2	3	24/02/2023	MECH	5
236077	ME8595	3	3	2	2	3	3	24/02/2023	MECH	5
236078	ME8595	3	3	2	2	3	3	24/02/2023	MECH	5
236079	ME8595	3	3	3	3	2	3	24/02/2023	MECH	5
Attained Level		3.0	3.0	2.43	2.44	2.42	3.0			
%		100.00	100.00	81.00	81.33	80.67	100.00			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23ODD** Semester : **5** Programme: **B.E/B.Tech (MECH)**
Subject Code : **OAT552** NBA Code : **C305-OE9** Title **INTERNAL COMBUSTION ENGINES**
Faculty: Mr.S.Paramaguru

Cos	CO Description	Attained Level	%
C305-OE9.1	Analyse air standard cycles and construction and working principles of IC engines	3.0	100.00
C305-OE9.2	Understand stages of combustion in S.I engines , combustion chambers,ignition system and S.I knocking	3.0	100.00
C305-OE9.3	Construction and working principles of diesel engines and types of injection system,types of injection nozzles	2.6	86.67
C305-OE9.4	Perceive the stages of combustion process,types of injection, combustion chambers in C.I engines	2.45	81.67
C305-OE9.5	Study of lubricants properties, Types of lubricants and cooling systems for IC engines	2.42	80.67
C305-OE9.6	Have exposure with modern concepts like CRDI,HCCI,GDI and Hybrid technology	3.0	100.00

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 77

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
236001	OAT552	3	3	3	3	2	3	24/02/2023	MECH	5
236002	OAT552	3	3	2	2	2	3	24/02/2023	MECH	5
236003	OAT552	3	3	3	2	2	3	24/02/2023	MECH	5
236004	OAT552	3	3	3	2	3	3	24/02/2023	MECH	5
236005	OAT552	3	3	2	2	3	3	24/02/2023	MECH	5
236006	OAT552	3	3	3	2	3	3	24/02/2023	MECH	5
236007	OAT552	3	3	3	2	2	3	24/02/2023	MECH	5

236008	OAT552	3	3	2	3	3	3	24/02/2023	MECH	5
236009	OAT552	3	3	3	2	2	3	24/02/2023	MECH	5
236010	OAT552	3	3	2	2	2	3	24/02/2023	MECH	5
236011	OAT552	3	3	3	2	3	3	24/02/2023	MECH	5
236012	OAT552	3	3	2	2	3	3	24/02/2023	MECH	5
236013	OAT552	3	3	2	2	2	3	24/02/2023	MECH	5
236014	OAT552	3	3	2	3	2	3	24/02/2023	MECH	5
236015	OAT552	3	3	2	2	3	3	24/02/2023	MECH	5
236017	OAT552	3	3	2	2	3	3	24/02/2023	MECH	5
236018	OAT552	3	3	3	3	3	3	24/02/2023	MECH	5
236019	OAT552	3	3	3	2	2	3	24/02/2023	MECH	5
236020	OAT552	3	3	2	2	2	3	24/02/2023	MECH	5
236021	OAT552	3	3	3	3	2	3	24/02/2023	MECH	5
236022	OAT552	3	3	3	2	2	3	24/02/2023	MECH	5
236023	OAT552	3	3	3	2	3	3	24/02/2023	MECH	5
236024	OAT552	3	3	3	2	2	3	24/02/2023	MECH	5
236025	OAT552	3	3	2	2	2	3	24/02/2023	MECH	5
236026	OAT552	3	3	3	3	3	3	24/02/2023	MECH	5
236027	OAT552	3	3	2	3	2	3	24/02/2023	MECH	5
236028	OAT552	3	3	3	3	3	3	24/02/2023	MECH	5
236029	OAT552	3	3	3	2	2	3	24/02/2023	MECH	5
236030	OAT552	3	3	3	2	2	3	24/02/2023	MECH	5
236031	OAT552	3	3	2	3	3	3	24/02/2023	MECH	5
236032	OAT552	3	3	2	3	3	3	24/02/2023	MECH	5
236033	OAT552	3	3	3	2	3	3	24/02/2023	MECH	5
236034	OAT552	3	3	3	2	2	3	24/02/2023	MECH	5
236035	OAT552	3	3	3	3	3	3	24/02/2023	MECH	5
236036	OAT552	3	3	2	3	2	3	24/02/2023	MECH	5
236037	OAT552	3	3	3	3	2	3	24/02/2023	MECH	5

236038	OAT552	3	3	3	3	2	3	24/02/2023	MECH	5
236039	OAT552	3	3	3	2	2	3	24/02/2023	MECH	5
236040	OAT552	3	3	3	2	2	3	24/02/2023	MECH	5
236041	OAT552	3	3	3	2	2	3	24/02/2023	MECH	5
236042	OAT552	3	3	2	2	2	3	24/02/2023	MECH	5
236043	OAT552	3	3	3	3	2	3	24/02/2023	MECH	5
236044	OAT552	3	3	3	3	3	3	24/02/2023	MECH	5
236045	OAT552	3	3	3	3	3	3	24/02/2023	MECH	5
236046	OAT552	3	3	2	2	3	3	24/02/2023	MECH	5
236047	OAT552	3	3	2	2	2	3	24/02/2023	MECH	5
236049	OAT552	3	3	2	3	2	3	24/02/2023	MECH	5
236050	OAT552	3	3	3	3	3	3	24/02/2023	MECH	5
236051	OAT552	3	3	2	2	2	3	24/02/2023	MECH	5
236052	OAT552	3	3	2	3	3	3	24/02/2023	MECH	5
236053	OAT552	3	3	2	2	3	3	24/02/2023	MECH	5
236054	OAT552	3	3	3	2	2	3	24/02/2023	MECH	5
236055	OAT552	3	3	2	2	3	3	24/02/2023	MECH	5
236056	OAT552	3	3	2	3	2	3	24/02/2023	MECH	5
236057	OAT552	3	3	3	3	2	3	24/02/2023	MECH	5
236058	OAT552	3	3	2	3	2	3	24/02/2023	MECH	5
236059	OAT552	3	3	3	3	2	3	24/02/2023	MECH	5
236060	OAT552	3	3	3	2	2	3	24/02/2023	MECH	5
236061	OAT552	3	3	3	3	2	3	24/02/2023	MECH	5
236062	OAT552	3	3	2	3	2	3	24/02/2023	MECH	5
236063	OAT552	3	3	3	3	3	3	24/02/2023	MECH	5
236064	OAT552	3	3	3	3	3	3	24/02/2023	MECH	5
236065	OAT552	3	3	3	2	3	3	24/02/2023	MECH	5
236066	OAT552	3	3	3	2	2	3	24/02/2023	MECH	5
236067	OAT552	3	3	2	2	3	3	24/02/2023	MECH	5

236068	OAT552	3	3	3	2	3	3	24/02/2023	MECH	5
236069	OAT552	3	3	3	3	2	3	24/02/2023	MECH	5
236070	OAT552	3	3	3	2	3	3	24/02/2023	MECH	5
236071	OAT552	3	3	2	3	2	3	24/02/2023	MECH	5
236072	OAT552	3	3	3	3	2	3	24/02/2023	MECH	5
236073	OAT552	3	3	2	3	2	3	24/02/2023	MECH	5
236074	OAT552	3	3	3	2	3	3	24/02/2023	MECH	5
236075	OAT552	3	3	2	2	3	3	24/02/2023	MECH	5
236076	OAT552	3	3	3	3	2	3	24/02/2023	MECH	5
236077	OAT552	3	3	2	2	2	3	24/02/2023	MECH	5
236078	OAT552	3	3	3	3	2	3	24/02/2023	MECH	5
236079	OAT552	3	3	3	3	3	3	24/02/2023	MECH	5
Attained Level		3.0	3.0	2.6	2.45	2.42	3.0			
%		100.00	100.00	86.67	81.67	80.67	100.00			

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Course End Survey - Consolidated Report

Academic Year : **2022-23ODD** Semester : **5** Programme: **B.E/B.Tech (MECH)**
Subject Code : **ORO551** NBA Code : **C305-OE19** Title **RENEWABLE ENERGY SOURCES**
Faculty: Mr.M.Sriram Prasanth

Cos	CO Description	Attained Level	%
C305-OE19.1	Understanding the physics of solar radiation	3.0	100.00
C305-OE19.2	Understanding the solar radiation and its environmental impact to power.	3.0	100.00
C305-OE19.3	Understanding the solar energy collectors and methodologies of storing solar energy.	2.55	85.00
C305-OE19.4	Understanding the solar pv methodologies of storing solar energy.	2.57	85.67
C305-OE19.5	Knowledge in wind energy and biomass with its economic aspects.	2.61	87.00
C305-OE19.6	Knowledge in capturing and applying other forms of energy sources like wave,Tidal,OTEC and geothermal energies	3.0	100.00

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 77

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
236001	ORO551	3	3	3	3	3	3	24/02/2023	MECH	5
236002	ORO551	3	3	2	2	2	3	24/02/2023	MECH	5
236003	ORO551	3	3	2	3	2	3	24/02/2023	MECH	5
236004	ORO551	3	3	2	2	2	3	24/02/2023	MECH	5
236005	ORO551	3	3	3	3	3	3	24/02/2023	MECH	5
236006	ORO551	3	3	3	3	2	3	24/02/2023	MECH	5
236007	ORO551	3	3	2	2	3	3	24/02/2023	MECH	5

236008	ORO551	3	3	3	2	3	3	24/02/2023	MECH	5
236009	ORO551	3	3	3	2	3	3	24/02/2023	MECH	5
236010	ORO551	3	3	3	3	3	3	24/02/2023	MECH	5
236011	ORO551	3	3	3	3	3	3	24/02/2023	MECH	5
236012	ORO551	3	3	3	3	2	3	24/02/2023	MECH	5
236013	ORO551	3	3	2	2	3	3	24/02/2023	MECH	5
236014	ORO551	3	3	2	3	2	3	24/02/2023	MECH	5
236015	ORO551	3	3	3	3	3	3	24/02/2023	MECH	5
236017	ORO551	3	3	3	2	2	3	24/02/2023	MECH	5
236018	ORO551	3	3	2	2	3	3	24/02/2023	MECH	5
236019	ORO551	3	3	3	3	3	3	24/02/2023	MECH	5
236020	ORO551	3	3	3	3	3	3	24/02/2023	MECH	5
236021	ORO551	3	3	3	3	3	3	24/02/2023	MECH	5
236022	ORO551	3	3	3	2	2	3	24/02/2023	MECH	5
236023	ORO551	3	3	2	3	3	3	24/02/2023	MECH	5
236024	ORO551	3	3	3	3	3	3	24/02/2023	MECH	5
236025	ORO551	3	3	3	2	3	3	24/02/2023	MECH	5
236026	ORO551	3	3	3	3	2	3	24/02/2023	MECH	5
236027	ORO551	3	3	2	3	3	3	24/02/2023	MECH	5
236028	ORO551	3	3	2	2	3	3	24/02/2023	MECH	5
236029	ORO551	3	3	2	2	3	3	24/02/2023	MECH	5
236030	ORO551	3	3	3	3	2	3	24/02/2023	MECH	5
236031	ORO551	3	3	2	3	2	3	24/02/2023	MECH	5
236032	ORO551	3	3	3	3	3	3	24/02/2023	MECH	5
236033	ORO551	3	3	3	3	3	3	24/02/2023	MECH	5
236034	ORO551	3	3	2	3	2	3	24/02/2023	MECH	5
236035	ORO551	3	3	2	3	2	3	24/02/2023	MECH	5
236036	ORO551	3	3	3	2	3	3	24/02/2023	MECH	5
236037	ORO551	3	3	2	3	3	3	24/02/2023	MECH	5

236038	ORO551	3	3	2	3	3	3	24/02/2023	MECH	5
236039	ORO551	3	3	3	2	2	3	24/02/2023	MECH	5
236040	ORO551	3	3	2	2	3	3	24/02/2023	MECH	5
236041	ORO551	3	3	3	2	3	3	24/02/2023	MECH	5
236042	ORO551	3	3	2	3	2	3	24/02/2023	MECH	5
236043	ORO551	3	3	3	2	3	3	24/02/2023	MECH	5
236044	ORO551	3	3	2	3	2	3	24/02/2023	MECH	5
236045	ORO551	3	3	2	3	3	3	24/02/2023	MECH	5
236046	ORO551	3	3	2	3	3	3	24/02/2023	MECH	5
236047	ORO551	3	3	2	2	3	3	24/02/2023	MECH	5
236049	ORO551	3	3	2	3	3	3	24/02/2023	MECH	5
236050	ORO551	3	3	3	2	2	3	24/02/2023	MECH	5
236051	ORO551	3	3	2	3	2	3	24/02/2023	MECH	5
236052	ORO551	3	3	3	3	3	3	24/02/2023	MECH	5
236053	ORO551	3	3	2	3	3	3	24/02/2023	MECH	5
236054	ORO551	3	3	3	2	2	3	24/02/2023	MECH	5
236055	ORO551	3	3	3	2	2	3	24/02/2023	MECH	5
236056	ORO551	3	3	2	3	3	3	24/02/2023	MECH	5
236057	ORO551	3	3	3	3	2	3	24/02/2023	MECH	5
236058	ORO551	3	3	2	3	3	3	24/02/2023	MECH	5
236059	ORO551	3	3	3	3	3	3	24/02/2023	MECH	5
236060	ORO551	3	3	3	3	2	3	24/02/2023	MECH	5
236061	ORO551	3	3	2	2	3	3	24/02/2023	MECH	5
236062	ORO551	3	3	3	2	3	3	24/02/2023	MECH	5
236063	ORO551	3	3	3	2	2	3	24/02/2023	MECH	5
236064	ORO551	3	3	2	2	3	3	24/02/2023	MECH	5
236065	ORO551	3	3	3	2	2	3	24/02/2023	MECH	5
236066	ORO551	3	3	3	3	3	3	24/02/2023	MECH	5
236067	ORO551	3	3	2	2	3	3	24/02/2023	MECH	5

236068	ORO551	3	3	2	2	3	3	24/02/2023	MECH	5
236069	ORO551	3	3	2	3	2	3	24/02/2023	MECH	5
236070	ORO551	3	3	3	2	3	3	24/02/2023	MECH	5
236071	ORO551	3	3	2	2	3	3	24/02/2023	MECH	5
236072	ORO551	3	3	3	3	3	3	24/02/2023	MECH	5
236073	ORO551	3	3	3	2	2	3	24/02/2023	MECH	5
236074	ORO551	3	3	2	2	2	3	24/02/2023	MECH	5
236075	ORO551	3	3	3	3	2	3	24/02/2023	MECH	5
236076	ORO551	3	3	3	3	3	3	24/02/2023	MECH	5
236077	ORO551	3	3	3	3	3	3	24/02/2023	MECH	5
236078	ORO551	3	3	2	2	2	3	24/02/2023	MECH	5
236079	ORO551	3	3	3	3	2	3	24/02/2023	MECH	5
Attained Level		3.0	3.0	2.55	2.57	2.61	3.0			
%		100.00	100.00	85.00	85.67	87.00	100.00			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23ODD** Semester : **7** Programme: **B.E/B.Tech (MECH)**
Subject Code : **GE8077** NBA Code : **c403** Title **TOTAL QUALITY MANAGEMENT**
Faculty: Dr.G.Mahesh / Dr.G.Mahesh

Cos	CO Description	Attained Level	%
c403.1	Student will be able to describe the principles of quality management and to explain how these principles can be applied within quality management system	3.0	100.00
c403.2	Student will be able to identify the key aspects of the quality improvement cycle and to select and use appropriate tools and techniques for controlling, improving and measuring quality.	3.0	100.00
c403.3	Student will be to apprise the organizational, communication and team wrok requirements for effective quality management	2.5	83.33
c403.4	Student will be able to describe the strategic issues in quality management, including current issues and developments, and to devise and evaluate quality improvement plans	2.54	84.67
c403.5	Student will be able to describe the use of old and new quality management tools.	2.58	86.00
c403.6	Student will be able to apply the tools and techniques of quality management to manufacturing and services process	3.0	100.00

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 129

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
226001	GE8077	3	3	2	3	3	3	24/02/2023	MECH	7
226002	GE8077	3	3	2	2	3	3	24/02/2023	MECH	7
226003	GE8077	3	3	2	2	2	3	24/02/2023	MECH	7
226004	GE8077	3	3	3	2	3	3	24/02/2023	MECH	7
226005	GE8077	3	3	3	3	3	3	24/02/2023	MECH	7
226006	GE8077	3	3	3	3	3	3	24/02/2023	MECH	7
226007	GE8077	3	3	3	2	3	3	24/02/2023	MECH	7
226008	GE8077	3	3	2	3	2	3	24/02/2023	MECH	7

226009	GE8077	3	3	3	3	2	3	24/02/2023	MECH	7
226010	GE8077	3	3	3	3	3	3	24/02/2023	MECH	7
226011	GE8077	3	3	3	3	3	3	24/02/2023	MECH	7
226012	GE8077	3	3	2	3	3	3	24/02/2023	MECH	7
226013	GE8077	3	3	2	3	3	3	24/02/2023	MECH	7
226014	GE8077	3	3	2	2	3	3	24/02/2023	MECH	7
226015	GE8077	3	3	3	2	2	3	24/02/2023	MECH	7
226016	GE8077	3	3	2	2	3	3	24/02/2023	MECH	7
226017	GE8077	3	3	2	2	3	3	24/02/2023	MECH	7
226018	GE8077	3	3	3	2	3	3	24/02/2023	MECH	7
226019	GE8077	3	3	2	3	2	3	24/02/2023	MECH	7
226020	GE8077	3	3	3	3	3	3	24/02/2023	MECH	7
226021	GE8077	3	3	3	2	2	3	24/02/2023	MECH	7
226022	GE8077	3	3	3	2	2	3	24/02/2023	MECH	7
226023	GE8077	3	3	3	3	3	3	24/02/2023	MECH	7
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226025	GE8077	3	3	3	3	3	3	24/02/2023	MECH	7
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226027	GE8077	3	3	3	2	2	3	24/02/2023	MECH	7
226028	GE8077	3	3	3	3	3	3	24/02/2023	MECH	7
226030	GE8077	3	3	3	3	3	3	24/02/2023	MECH	7
226031	GE8077	3	3	3	3	3	3	24/02/2023	MECH	7
226032	GE8077	3	3	3	2	2	3	24/02/2023	MECH	7
226033	GE8077	3	3	2	2	2	3	24/02/2023	MECH	7
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226035	GE8077	3	3	2	2	3	3	24/02/2023	MECH	7
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226037	GE8077	3	3	2	2	3	3	24/02/2023	MECH	7
226038	GE8077	3	3	3	3	3	3	24/02/2023	MECH	7

226039	GE8077	3	3	3	3	3	3	24/02/2023	MECH	7
226040	GE8077	3	3	2	3	2	3	24/02/2023	MECH	7
226041	GE8077	3	3	3	3	3	3	24/02/2023	MECH	7
226042	GE8077	3	3	2	3	3	3	24/02/2023	MECH	7
226043	GE8077	3	3	3	2	3	3	24/02/2023	MECH	7
226044	GE8077	3	3	2	2	2	3	24/02/2023	MECH	7
226045	GE8077	3	3	2	3	2	3	24/02/2023	MECH	7
226046	GE8077	3	3	3	3	2	3	24/02/2023	MECH	7
226048	GE8077	3	3	2	2	3	3	24/02/2023	MECH	7
226049	GE8077	3	3	2	3	3	3	24/02/2023	MECH	7
226051	GE8077	3	3	2	3	3	3	24/02/2023	MECH	7
226052	GE8077	3	3	2	3	3	3	24/02/2023	MECH	7
226053	GE8077	3	3	2	3	3	3	24/02/2023	MECH	7
226054	GE8077	3	3	2	3	2	3	24/02/2023	MECH	7
226055	GE8077	3	3	2	3	3	3	24/02/2023	MECH	7
226056	GE8077	3	3	2	3	2	3	24/02/2023	MECH	7
226057	GE8077	3	3	2	3	3	3	24/02/2023	MECH	7
226058	GE8077	3	3	2	3	3	3	24/02/2023	MECH	7
226059	GE8077	3	3	2	2	3	3	24/02/2023	MECH	7
226060	GE8077	3	3	2	2	2	3	24/02/2023	MECH	7
226061	GE8077	3	3	2	2	2	3	24/02/2023	MECH	7
226062	GE8077	3	3	3	3	3	3	24/02/2023	MECH	7
226063	GE8077	3	3	2	2	2	3	24/02/2023	MECH	7
226064	GE8077	3	3	2	2	2	3	24/02/2023	MECH	7
226066	GE8077	3	3	2	3	3	3	24/02/2023	MECH	7
226067	GE8077	3	3	3	3	3	3	24/02/2023	MECH	7
226068	GE8077	3	3	3	3	3	3	24/02/2023	MECH	7
226069	GE8077	3	3	3	3	3	3	24/02/2023	MECH	7
226070	GE8077	3	3	3	2	3	3	24/02/2023	MECH	7

226071	GE8077	3	3	3	2	3	3	24/02/2023	MECH	7
226072	GE8077	3	3	3	3	2	3	24/02/2023	MECH	7
226073	GE8077	3	3	2	2	3	3	24/02/2023	MECH	7
226074	GE8077	3	3	3	2	2	3	24/02/2023	MECH	7
226075	GE8077	3	3	3	3	2	3	24/02/2023	MECH	7
226076	GE8077	3	3	3	3	3	3	24/02/2023	MECH	7
226077	GE8077	3	3	2	3	2	3	24/02/2023	MECH	7
226078	GE8077	3	3	2	2	3	3	24/02/2023	MECH	7
226079	GE8077	3	3	2	2	3	3	24/02/2023	MECH	7
226080	GE8077	3	3	3	3	2	3	24/02/2023	MECH	7
226082	GE8077	3	3	2	3	3	3	24/02/2023	MECH	7
226083	GE8077	3	3	2	2	3	3	24/02/2023	MECH	7
226084	GE8077	3	3	2	2	2	3	24/02/2023	MECH	7
226085	GE8077	3	3	2	2	2	3	24/02/2023	MECH	7
226086	GE8077	3	3	3	3	2	3	24/02/2023	MECH	7
226087	GE8077	3	3	2	2	2	3	24/02/2023	MECH	7
226088	GE8077	3	3	2	3	2	3	24/02/2023	MECH	7
226089	GE8077	3	3	2	3	3	3	24/02/2023	MECH	7
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226091	GE8077	3	3	3	2	2	3	24/02/2023	MECH	7
226092	GE8077	3	3	2	2	2	3	24/02/2023	MECH	7
226093	GE8077	3	3	3	3	2	3	24/02/2023	MECH	7
226094	GE8077	3	3	3	3	3	3	24/02/2023	MECH	7
226095	GE8077	3	3	2	3	2	3	24/02/2023	MECH	7
226096	GE8077	3	3	3	3	3	3	24/02/2023	MECH	7
226097	GE8077	3	3	2	2	3	3	24/02/2023	MECH	7
226098	GE8077	3	3	3	3	2	3	24/02/2023	MECH	7
226099	GE8077	3	3	2	2	2	3	24/02/2023	MECH	7
226100	GE8077	3	3	3	2	2	3	24/02/2023	MECH	7

226101	GE8077	3	3	3	3	2	3	24/02/2023	MECH	7
226102	GE8077	3	3	2	3	3	3	24/02/2023	MECH	7
226103	GE8077	3	3	3	3	2	3	24/02/2023	MECH	7
226104	GE8077	3	3	2	2	3	3	24/02/2023	MECH	7
226105	GE8077	3	3	3	2	3	3	24/02/2023	MECH	7
226106	GE8077	3	3	2	3	3	3	24/02/2023	MECH	7
226107	GE8077	3	3	2	2	3	3	24/02/2023	MECH	7
226108	GE8077	3	3	3	2	2	3	24/02/2023	MECH	7
226109	GE8077	3	3	3	2	2	3	24/02/2023	MECH	7
226110	GE8077	3	3	3	3	2	3	24/02/2023	MECH	7
226111	GE8077	3	3	2	2	3	3	24/02/2023	MECH	7
226112	GE8077	3	3	3	2	3	3	24/02/2023	MECH	7
226113	GE8077	3	3	2	2	3	3	24/02/2023	MECH	7
226114	GE8077	3	3	3	3	3	3	24/02/2023	MECH	7
226115	GE8077	3	3	3	3	2	3	24/02/2023	MECH	7
226116	GE8077	3	3	3	3	2	3	24/02/2023	MECH	7
226117	GE8077	3	3	2	3	3	3	24/02/2023	MECH	7
226119	GE8077	3	3	3	3	2	3	24/02/2023	MECH	7
226120	GE8077	3	3	3	2	2	3	24/02/2023	MECH	7
226121	GE8077	3	3	3	3	3	3	24/02/2023	MECH	7
226122	GE8077	3	3	3	2	3	3	24/02/2023	MECH	7
226123	GE8077	3	3	3	2	3	3	24/02/2023	MECH	7
226124	GE8077	3	3	3	2	3	3	24/02/2023	MECH	7
226125	GE8077	3	3	2	2	2	3	24/02/2023	MECH	7
226126	GE8077	3	3	2	2	2	3	24/02/2023	MECH	7
226127	GE8077	3	3	3	2	3	3	24/02/2023	MECH	7
226128	GE8077	3	3	3	3	3	3	24/02/2023	MECH	7
226129	GE8077	3	3	2	3	2	3	24/02/2023	MECH	7
226130	GE8077	3	3	2	2	2	3	24/02/2023	MECH	7

226131	GE8077	3	3	2	2	2	3	24/02/2023	MECH	7
226132	GE8077	3	3	3	2	3	3	24/02/2023	MECH	7
226133	GE8077	3	3	2	3	2	3	24/02/2023	MECH	7
226134	GE8077	3	3	3	3	3	3	24/02/2023	MECH	7
226135	GE8077	3	3	3	3	3	3	24/02/2023	MECH	7
Attained Level		3.0	3.0	2.5	2.54	2.58	3.0			
%		100.00	100.00	83.33	84.67	86.00	100.00			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23ODD** Semester : **7** Programme: **B.E/B.Tech (MECH)**
Subject Code : **IE8693[8]** NBA Code : **C411** Title **PRODUCTION PLANNING AND CONTROL**
Faculty: Dr.M.Ganesan / Mr.P.V.Rajesh

Cos	CO Description	Attained Level	%
C411.1	Distinguish the role of design and Break even analysis in Production process.	3.0	100.00
C411.2	Apply the various techniques of work study and method study.	3.0	100.00
C411.3	Explain the role of balancing in product and process planning.	2.56	85.33
C411.4	Relate the basic scheduling problems in production planning.	2.48	82.67
C411.5	Identify the role of Inventory control in an industry.	2.61	87.00
C411.6	Distinguish the application of MRP II and ERP.	3.0	100.00

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 64

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
226001	IE8693[8]	3	3	2	3	2	3	24/02/2023	MECH	7
226002	IE8693[8]	3	3	3	2	3	3	24/02/2023	MECH	7
226003	IE8693[8]	3	3	3	3	3	3	24/02/2023	MECH	7
226004	IE8693[8]	3	3	3	2	3	3	24/02/2023	MECH	7
226005	IE8693[8]	3	3	2	3	2	3	24/02/2023	MECH	7
226006	IE8693[8]	3	3	2	3	3	3	24/02/2023	MECH	7
226007	IE8693[8]	3	3	2	3	2	3	24/02/2023	MECH	7
226008	IE8693[8]	3	3	3	2	2	3	24/02/2023	MECH	7
226009	IE8693[8]	3	3	2	2	2	3	24/02/2023	MECH	7
226010	IE8693[8]	3	3	3	3	2	3	24/02/2023	MECH	7
226011	IE8693[8]	3	3	2	3	2	3	24/02/2023	MECH	7
226012	IE8693[8]	3	3	3	2	3	3	24/02/2023	MECH	7

226013	IE8693[8]	3	3	2	2	2	3	24/02/2023	MECH	7
226014	IE8693[8]	3	3	2	3	3	3	24/02/2023	MECH	7
226015	IE8693[8]	3	3	3	3	2	3	24/02/2023	MECH	7
226016	IE8693[8]	3	3	3	3	3	3	24/02/2023	MECH	7
226017	IE8693[8]	3	3	2	2	2	3	24/02/2023	MECH	7
226018	IE8693[8]	3	3	3	2	3	3	24/02/2023	MECH	7
226019	IE8693[8]	3	3	2	3	2	3	24/02/2023	MECH	7
226020	IE8693[8]	3	3	2	2	3	3	24/02/2023	MECH	7
226021	IE8693[8]	3	3	2	2	3	3	24/02/2023	MECH	7
226022	IE8693[8]	3	3	2	3	3	3	24/02/2023	MECH	7
226023	IE8693[8]	3	3	3	2	3	3	24/02/2023	MECH	7
226024	IE8693[8]	3	3	2	3	3	3	24/02/2023	MECH	7
226025	IE8693[8]	3	3	2	3	3	3	24/02/2023	MECH	7
226026	IE8693[8]	3	3	3	3	3	3	24/02/2023	MECH	7
226027	IE8693[8]	3	3	3	2	2	3	24/02/2023	MECH	7
226028	IE8693[8]	3	3	3	3	2	3	24/02/2023	MECH	7
226030	IE8693[8]	3	3	2	3	3	3	24/02/2023	MECH	7
226031	IE8693[8]	3	3	2	2	3	3	24/02/2023	MECH	7
226032	IE8693[8]	3	3	3	3	3	3	24/02/2023	MECH	7
226033	IE8693[8]	3	3	2	2	3	3	24/02/2023	MECH	7
226034	IE8693[8]	3	3	3	2	3	3	24/02/2023	MECH	7
226035	IE8693[8]	3	3	3	2	2	3	24/02/2023	MECH	7
226036	IE8693[8]	3	3	3	3	2	3	24/02/2023	MECH	7
226037	IE8693[8]	3	3	3	3	2	3	24/02/2023	MECH	7
226038	IE8693[8]	3	3	2	2	2	3	24/02/2023	MECH	7
226039	IE8693[8]	3	3	3	2	3	3	24/02/2023	MECH	7
226040	IE8693[8]	3	3	3	2	3	3	24/02/2023	MECH	7
226041	IE8693[8]	3	3	3	2	3	3	24/02/2023	MECH	7
226042	IE8693[8]	3	3	2	2	3	3	24/02/2023	MECH	7

226043	IE8693[8]	3	3	3	2	2	3	24/02/2023	MECH	7
226044	IE8693[8]	3	3	3	3	3	3	24/02/2023	MECH	7
226045	IE8693[8]	3	3	2	2	3	3	24/02/2023	MECH	7
226046	IE8693[8]	3	3	3	3	3	3	24/02/2023	MECH	7
226048	IE8693[8]	3	3	2	3	2	3	24/02/2023	MECH	7
226049	IE8693[8]	3	3	3	3	2	3	24/02/2023	MECH	7
226051	IE8693[8]	3	3	2	3	3	3	24/02/2023	MECH	7
226052	IE8693[8]	3	3	3	2	3	3	24/02/2023	MECH	7
226053	IE8693[8]	3	3	3	3	3	3	24/02/2023	MECH	7
226054	IE8693[8]	3	3	3	2	3	3	24/02/2023	MECH	7
226055	IE8693[8]	3	3	3	2	2	3	24/02/2023	MECH	7
226056	IE8693[8]	3	3	2	3	3	3	24/02/2023	MECH	7
226057	IE8693[8]	3	3	2	2	3	3	24/02/2023	MECH	7
226058	IE8693[8]	3	3	3	3	2	3	24/02/2023	MECH	7
226059	IE8693[8]	3	3	3	2	3	3	24/02/2023	MECH	7
226060	IE8693[8]	3	3	3	2	3	3	24/02/2023	MECH	7
226061	IE8693[8]	3	3	3	2	3	3	24/02/2023	MECH	7
226062	IE8693[8]	3	3	2	3	2	3	24/02/2023	MECH	7
226127	IE8693[8]	3	3	2	3	3	3	24/02/2023	MECH	7
226128	IE8693[8]	3	3	3	3	2	3	24/02/2023	MECH	7
226130	IE8693[8]	3	3	3	2	3	3	24/02/2023	MECH	7
226133	IE8693[8]	3	3	3	2	3	3	24/02/2023	MECH	7
226134	IE8693[8]	3	3	2	2	2	3	24/02/2023	MECH	7
Attained Level		3.0	3.0	2.56	2.48	2.61	3.0			
%		100.00	100.00	85.33	82.67	87.00	100.00			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23ODD** Semester : **7** Programme: **B.E/B.Tech (MECH)**
Subject Code : **ME8072** NBA Code : **C405-E7** Title **RENEWABLE SOURCES OF ENERGY**
Faculty: Mr.M.Sriram Prasanth / Mr.M.Sriram Prasanth

Cos	CO Description	Attained Level	%
C405-E7.1	Discuss the importance and Economics of renewable Energy	3.0	100.00
C405-E7.2	The students will acquire the knowledge of power generation from Solar thermal Energy	3.0	100.00
C405-E7.3	The students will acquire the knowledge of power generation from Solar PV Energy	2.51	83.67
C405-E7.4	The students will acquire the knowledge of method of power generation from Wind Energy	2.49	83.00
C405-E7.5	The students will acquire the knowledge of method of power generation from Bio Energy	2.42	80.67
C405-E7.6	The students will acquire the knowledge of Tidal energy, Wave Energy, OTEC, Hydro energy, Geothermal Energy, Fuel Cells and Hybrid Systems.	3.0	100.00

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 129

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
226001	ME8072	3	3	3	3	3	3	24/02/2023	MECH	7
226002	ME8072	3	3	2	3	2	3	24/02/2023	MECH	7
226003	ME8072	3	3	2	2	2	3	24/02/2023	MECH	7
226004	ME8072	3	3	3	2	2	3	24/02/2023	MECH	7
226005	ME8072	3	3	3	2	2	3	24/02/2023	MECH	7
226006	ME8072	3	3	2	3	3	3	24/02/2023	MECH	7
226007	ME8072	3	3	2	3	3	3	24/02/2023	MECH	7

226008	ME8072	3	3	3	2	2	3	24/02/2023	MECH	7
226009	ME8072	3	3	2	2	2	3	24/02/2023	MECH	7
226010	ME8072	3	3	2	2	3	3	24/02/2023	MECH	7
226011	ME8072	3	3	3	3	2	3	24/02/2023	MECH	7
226012	ME8072	3	3	2	3	3	3	24/02/2023	MECH	7
226013	ME8072	3	3	2	2	3	3	24/02/2023	MECH	7
226014	ME8072	3	3	3	2	2	3	24/02/2023	MECH	7
226015	ME8072	3	3	3	2	2	3	24/02/2023	MECH	7
226016	ME8072	3	3	3	3	2	3	24/02/2023	MECH	7
226017	ME8072	3	3	3	3	3	3	24/02/2023	MECH	7
226018	ME8072	3	3	2	2	3	3	24/02/2023	MECH	7
226019	ME8072	3	3	3	2	3	3	24/02/2023	MECH	7
226020	ME8072	3	3	2	3	2	3	24/02/2023	MECH	7
226021	ME8072	3	3	3	3	2	3	24/02/2023	MECH	7
226022	ME8072	3	3	3	3	2	3	24/02/2023	MECH	7
226023	ME8072	3	3	2	3	2	3	24/02/2023	MECH	7
226024	ME8072	3	3	3	3	2	3	24/02/2023	MECH	7
226025	ME8072	3	3	3	2	2	3	24/02/2023	MECH	7
226026	ME8072	3	3	3	3	3	3	24/02/2023	MECH	7
226027	ME8072	3	3	3	3	2	3	24/02/2023	MECH	7
226028	ME8072	3	3	3	2	3	3	24/02/2023	MECH	7
226030	ME8072	3	3	2	2	2	3	24/02/2023	MECH	7
226031	ME8072	3	3	2	3	2	3	24/02/2023	MECH	7
226032	ME8072	3	3	2	2	2	3	24/02/2023	MECH	7
226033	ME8072	3	3	2	2	2	3	24/02/2023	MECH	7
226034	ME8072	3	3	3	3	2	3	24/02/2023	MECH	7
226035	ME8072	3	3	3	2	2	3	24/02/2023	MECH	7
226036	ME8072	3	3	3	3	2	3	24/02/2023	MECH	7
226037	ME8072	3	3	2	3	2	3	24/02/2023	MECH	7

226038	ME8072	3	3	3	3	3	3	24/02/2023	MECH	7
226039	ME8072	3	3	2	3	3	3	24/02/2023	MECH	7
226040	ME8072	3	3	2	3	3	3	24/02/2023	MECH	7
226041	ME8072	3	3	2	2	2	3	24/02/2023	MECH	7
226042	ME8072	3	3	2	2	3	3	24/02/2023	MECH	7
226043	ME8072	3	3	2	2	3	3	24/02/2023	MECH	7
226044	ME8072	3	3	3	3	3	3	24/02/2023	MECH	7
226045	ME8072	3	3	3	2	3	3	24/02/2023	MECH	7
226046	ME8072	3	3	3	2	3	3	24/02/2023	MECH	7
226048	ME8072	3	3	3	3	2	3	24/02/2023	MECH	7
226049	ME8072	3	3	3	2	3	3	24/02/2023	MECH	7
226051	ME8072	3	3	3	2	2	3	24/02/2023	MECH	7
226052	ME8072	3	3	2	2	2	3	24/02/2023	MECH	7
226053	ME8072	3	3	2	2	3	3	24/02/2023	MECH	7
226054	ME8072	3	3	3	2	3	3	24/02/2023	MECH	7
226055	ME8072	3	3	3	2	2	3	24/02/2023	MECH	7
226056	ME8072	3	3	3	3	2	3	24/02/2023	MECH	7
226057	ME8072	3	3	3	2	2	3	24/02/2023	MECH	7
226058	ME8072	3	3	3	2	3	3	24/02/2023	MECH	7
226059	ME8072	3	3	2	2	3	3	24/02/2023	MECH	7
226060	ME8072	3	3	3	3	2	3	24/02/2023	MECH	7
226061	ME8072	3	3	2	2	3	3	24/02/2023	MECH	7
226062	ME8072	3	3	2	2	2	3	24/02/2023	MECH	7
226063	ME8072	3	3	2	3	2	3	24/02/2023	MECH	7
226064	ME8072	3	3	3	2	3	3	24/02/2023	MECH	7
226066	ME8072	3	3	3	2	2	3	24/02/2023	MECH	7
226067	ME8072	3	3	2	3	3	3	24/02/2023	MECH	7
226068	ME8072	3	3	3	2	2	3	24/02/2023	MECH	7
226069	ME8072	3	3	3	2	2	3	24/02/2023	MECH	7

226070	ME8072	3	3	3	3	3	3	24/02/2023	MECH	7
226071	ME8072	3	3	2	3	2	3	24/02/2023	MECH	7
226072	ME8072	3	3	3	2	3	3	24/02/2023	MECH	7
226073	ME8072	3	3	2	3	2	3	24/02/2023	MECH	7
226074	ME8072	3	3	3	3	2	3	24/02/2023	MECH	7
226075	ME8072	3	3	3	2	2	3	24/02/2023	MECH	7
226076	ME8072	3	3	3	2	2	3	24/02/2023	MECH	7
226077	ME8072	3	3	2	2	2	3	24/02/2023	MECH	7
226078	ME8072	3	3	2	3	2	3	24/02/2023	MECH	7
226079	ME8072	3	3	2	2	2	3	24/02/2023	MECH	7
226080	ME8072	3	3	3	3	3	3	24/02/2023	MECH	7
226082	ME8072	3	3	2	2	2	3	24/02/2023	MECH	7
226083	ME8072	3	3	2	3	2	3	24/02/2023	MECH	7
226084	ME8072	3	3	3	3	2	3	24/02/2023	MECH	7
226085	ME8072	3	3	3	3	2	3	24/02/2023	MECH	7
226086	ME8072	3	3	2	2	2	3	24/02/2023	MECH	7
226087	ME8072	3	3	2	3	3	3	24/02/2023	MECH	7
226088	ME8072	3	3	3	2	2	3	24/02/2023	MECH	7
226089	ME8072	3	3	2	2	3	3	24/02/2023	MECH	7
226090	ME8072	3	3	3	2	3	3	24/02/2023	MECH	7
226091	ME8072	3	3	3	2	2	3	24/02/2023	MECH	7
226092	ME8072	3	3	3	2	2	3	24/02/2023	MECH	7
226093	ME8072	3	3	2	3	3	3	24/02/2023	MECH	7
226094	ME8072	3	3	3	2	2	3	24/02/2023	MECH	7
226095	ME8072	3	3	2	2	3	3	24/02/2023	MECH	7
226096	ME8072	3	3	2	3	2	3	24/02/2023	MECH	7
226097	ME8072	3	3	2	3	3	3	24/02/2023	MECH	7
226098	ME8072	3	3	3	3	3	3	24/02/2023	MECH	7
226099	ME8072	3	3	2	2	3	3	24/02/2023	MECH	7

226100	ME8072	3	3	3	3	3	3	24/02/2023	MECH	7
226101	ME8072	3	3	3	2	2	3	24/02/2023	MECH	7
226102	ME8072	3	3	3	3	2	3	24/02/2023	MECH	7
226103	ME8072	3	3	2	2	3	3	24/02/2023	MECH	7
226104	ME8072	3	3	2	3	2	3	24/02/2023	MECH	7
226105	ME8072	3	3	3	3	3	3	24/02/2023	MECH	7
226106	ME8072	3	3	3	3	3	3	24/02/2023	MECH	7
226107	ME8072	3	3	3	2	2	3	24/02/2023	MECH	7
226108	ME8072	3	3	2	2	3	3	24/02/2023	MECH	7
226109	ME8072	3	3	2	3	2	3	24/02/2023	MECH	7
226110	ME8072	3	3	2	2	2	3	24/02/2023	MECH	7
226111	ME8072	3	3	2	2	3	3	24/02/2023	MECH	7
226112	ME8072	3	3	3	2	3	3	24/02/2023	MECH	7
226113	ME8072	3	3	3	2	2	3	24/02/2023	MECH	7
226114	ME8072	3	3	2	3	3	3	24/02/2023	MECH	7
226115	ME8072	3	3	2	3	2	3	24/02/2023	MECH	7
226116	ME8072	3	3	2	2	3	3	24/02/2023	MECH	7
226117	ME8072	3	3	2	3	2	3	24/02/2023	MECH	7
226119	ME8072	3	3	2	3	2	3	24/02/2023	MECH	7
226120	ME8072	3	3	3	3	2	3	24/02/2023	MECH	7
226121	ME8072	3	3	2	2	2	3	24/02/2023	MECH	7
226122	ME8072	3	3	3	3	3	3	24/02/2023	MECH	7
226123	ME8072	3	3	3	3	2	3	24/02/2023	MECH	7
226124	ME8072	3	3	3	3	2	3	24/02/2023	MECH	7
226125	ME8072	3	3	3	2	3	3	24/02/2023	MECH	7
226126	ME8072	3	3	2	2	3	3	24/02/2023	MECH	7
226127	ME8072	3	3	2	3	3	3	24/02/2023	MECH	7
226128	ME8072	3	3	3	3	3	3	24/02/2023	MECH	7
226129	ME8072	3	3	3	3	2	3	24/02/2023	MECH	7

226130	ME8072	3	3	2	2	2	3	24/02/2023	MECH	7
226131	ME8072	3	3	2	3	3	3	24/02/2023	MECH	7
226132	ME8072	3	3	2	3	3	3	24/02/2023	MECH	7
226133	ME8072	3	3	2	3	2	3	24/02/2023	MECH	7
226134	ME8072	3	3	2	2	2	3	24/02/2023	MECH	7
226135	ME8072	3	3	2	3	2	3	24/02/2023	MECH	7
Attained Level		3.0	3.0	2.51	2.49	2.42	3.0			
%		100.00	100.00	83.67	83.00	80.67	100.00			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23ODD** Semester : **7** Programme: **B.E/B.Tech (MECH)**
Subject Code : **ME8099** NBA Code : **C405** Title **ROBOTICS**
Faculty: Mr.K.Amarnath / Mr.P.Jothi Palavasam

Cos	CO Description	Attained Level	%
C405.1	Explain the concepts of industrial robots, classification, specifications and coordinate systems. Also summarize the need and application of robots in different sectors.	3.0	100.00
C405.2	Illustrate the different types of robot drive systems as well as robot end effectors.	3.0	100.00
C405.3	Apply the different sensors and image processing techniques in robotics to improve the ability of robots.	2.49	83.00
C405.4	Develop robotic programs for different tasks	2.49	83.00
C405.5	Familiarize with the kinematics motions of robot.	2.43	81.00
C405.6	Examine the implementation of robots in various industrial sectors and interpolate the economic analysis of robots.	3.0	100.00

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 129

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
226001	ME8099	3	3	3	3	3	3	24/02/2023	MECH	7
226002	ME8099	3	3	2	3	3	3	24/02/2023	MECH	7
226003	ME8099	3	3	2	3	3	3	24/02/2023	MECH	7
226004	ME8099	3	3	2	2	2	3	24/02/2023	MECH	7
226005	ME8099	3	3	2	3	3	3	24/02/2023	MECH	7
226006	ME8099	3	3	3	3	3	3	24/02/2023	MECH	7
226007	ME8099	3	3	3	3	2	3	24/02/2023	MECH	7
226008	ME8099	3	3	3	2	3	3	24/02/2023	MECH	7
226009	ME8099	3	3	2	2	2	3	24/02/2023	MECH	7
226010	ME8099	3	3	2	3	3	3	24/02/2023	MECH	7

226011	ME8099	3	3	2	3	2	3	24/02/2023	MECH	7
226012	ME8099	3	3	2	2	2	3	24/02/2023	MECH	7
226013	ME8099	3	3	2	3	3	3	24/02/2023	MECH	7
226014	ME8099	3	3	2	3	3	3	24/02/2023	MECH	7
226015	ME8099	3	3	2	3	2	3	24/02/2023	MECH	7
226016	ME8099	3	3	3	2	2	3	24/02/2023	MECH	7
226017	ME8099	3	3	3	3	2	3	24/02/2023	MECH	7
226018	ME8099	3	3	3	2	2	3	24/02/2023	MECH	7
226019	ME8099	3	3	2	2	3	3	24/02/2023	MECH	7
226020	ME8099	3	3	2	2	2	3	24/02/2023	MECH	7
226021	ME8099	3	3	3	2	3	3	24/02/2023	MECH	7
226022	ME8099	3	3	3	2	2	3	24/02/2023	MECH	7
226023	ME8099	3	3	2	3	2	3	24/02/2023	MECH	7
226024	ME8099	3	3	3	3	3	3	24/02/2023	MECH	7
226025	ME8099	3	3	3	3	2	3	24/02/2023	MECH	7
226026	ME8099	3	3	2	3	3	3	24/02/2023	MECH	7
226027	ME8099	3	3	3	2	2	3	24/02/2023	MECH	7
226028	ME8099	3	3	3	3	3	3	24/02/2023	MECH	7
226030	ME8099	3	3	2	2	2	3	24/02/2023	MECH	7
226031	ME8099	3	3	3	3	2	3	24/02/2023	MECH	7
226032	ME8099	3	3	2	3	3	3	24/02/2023	MECH	7
226033	ME8099	3	3	3	3	2	3	24/02/2023	MECH	7
226034	ME8099	3	3	3	2	3	3	24/02/2023	MECH	7
226035	ME8099	3	3	2	3	3	3	24/02/2023	MECH	7
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226041	ME8099	3	3	2	2	3	3	24/02/2023	MECH	7
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226100	ME8099	3	3	3	2	2	3	24/02/2023	MECH	7
226101	ME8099	3	3	3	2	3	3	24/02/2023	MECH	7
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226111	ME8099	3	3	2	2	2	3	24/02/2023	MECH	7
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226113	ME8099	3	3	2	3	2	3	24/02/2023	MECH	7
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226117	ME8099	3	3	2	3	2	3	24/02/2023	MECH	7
226119	ME8099	3	3	2	3	3	3	24/02/2023	MECH	7
226120	ME8099	3	3	2	3	3	3	24/02/2023	MECH	7
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226133	ME8099	3	3	3	2	2	3	24/02/2023	MECH	7
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226135	ME8099	3	3	3	3	3	3	24/02/2023	MECH	7
Attained Level		3.0	3.0	2.49	2.49	2.43	3.0			
%		100.00	100.00	83.00	83.00	81.00	100.00			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23ODD** Semester : **7** Programme: **B.E/B.Tech (MECH)**
Subject Code : **ME8791** NBA Code : **C403** Title **MECHATRONICS**
Faculty: Mr.P.Vigneshwar / Dr.R.Rekha

Cos	CO Description	Attained Level	%
C403.1	Discuss the interdisciplinary applications of electronics, electrical and computer system for the control of mechanical, electronic system and sensor technology.	3.0	100.00
C403.2	Outline appropriate sensors and actuators for an engineering application.	3.0	100.00
C403.3	Discuss the architecture, pin diagram and addressing modes of microprocessor and microcontroller	2.57	85.67
C403.4	Discuss programmable peripheral interface, Architecture of 8255 and various device interfacing	2.47	82.33
C403.5	Explain the architecture, programming and application of PLC to problems and challenges in the areas of mechatronic engineering	2.51	83.67
C403.6	Discuss various actuators and mechatronic system using the knowledge and acquired through the course and also from the given case studies	3.0	100.00

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 129

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
226001	ME8791	3	3	3	2	2	3	24/02/2023	MECH	7
226002	ME8791	3	3	2	2	2	3	24/02/2023	MECH	7
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226004	ME8791	3	3	2	2	3	3	24/02/2023	MECH	7
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226007	ME8791	3	3	2	3	3	3	24/02/2023	MECH	7
226008	ME8791	3	3	3	2	2	3	24/02/2023	MECH	7
226009	ME8791	3	3	3	2	2	3	24/02/2023	MECH	7

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226012	ME8791	3	3	3	2	2	3	24/02/2023	MECH	7
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226101	ME8791	3	3	3	3	3	3	24/02/2023	MECH	7

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226104	ME8791	3	3	2	3	2	3	24/02/2023	MECH	7
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226108	ME8791	3	3	2	3	2	3	24/02/2023	MECH	7
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226111	ME8791	3	3	3	3	3	3	24/02/2023	MECH	7
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226131	ME8791	3	3	3	2	2	3	24/02/2023	MECH	7

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226135	ME8791	3	3	3	2	2	3	24/02/2023	MECH	7
Attained Level		3.0	3.0	2.57	2.47	2.51	3.0			
%		100.00	100.00	85.67	82.33	83.67	100.00			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23ODD** Semester : **7** Programme: **B.E/B.Tech (MECH)**
Subject Code : **ME8792** NBA Code : **401** Title **POWER PLANT ENGINEERING**
Faculty: Mr.S.Paramaguru / Mr.K.Amarnath

Cos	CO Description	Attained Level	%
401.1	Analyse thermodynamic cycles in coal based thermal power plant	3.0	100.00
401.2	Analyse thermodynamic cycles in air, diesel and dual cycles	3.0	100.00
401.3	Perceive different stages in nuclear power plants	2.5	83.33
401.4	Interpret the necessity on the role of renewable energy based power plants	2.52	84.00
401.5	Have exposure with energy and economic issues associated with power plants	2.47	82.33
401.6	Study pollutant formation and their controlling measures from power plants	3.0	100.00

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 129

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
226001	ME8792	3	3	3	3	2	3	24/02/2023	MECH	7
226002	ME8792	3	3	2	3	3	3	24/02/2023	MECH	7
226003	ME8792	3	3	3	3	3	3	24/02/2023	MECH	7
226004	ME8792	3	3	3	3	3	3	24/02/2023	MECH	7
226005	ME8792	3	3	3	2	2	3	24/02/2023	MECH	7
226006	ME8792	3	3	3	2	2	3	24/02/2023	MECH	7
226007	ME8792	3	3	2	3	3	3	24/02/2023	MECH	7
226008	ME8792	3	3	3	2	3	3	24/02/2023	MECH	7
226009	ME8792	3	3	2	2	2	3	24/02/2023	MECH	7
226010	ME8792	3	3	3	2	3	3	24/02/2023	MECH	7
226011	ME8792	3	3	2	3	3	3	24/02/2023	MECH	7
226012	ME8792	3	3	2	2	2	3	24/02/2023	MECH	7

226013	ME8792	3	3	3	2	3	3	24/02/2023	MECH	7
226014	ME8792	3	3	3	3	2	3	24/02/2023	MECH	7
226015	ME8792	3	3	3	3	3	3	24/02/2023	MECH	7
226016	ME8792	3	3	2	3	3	3	24/02/2023	MECH	7
226017	ME8792	3	3	2	3	2	3	24/02/2023	MECH	7
226018	ME8792	3	3	2	3	3	3	24/02/2023	MECH	7
226019	ME8792	3	3	2	3	2	3	24/02/2023	MECH	7
226020	ME8792	3	3	2	2	2	3	24/02/2023	MECH	7
226021	ME8792	3	3	3	2	3	3	24/02/2023	MECH	7
226022	ME8792	3	3	2	3	3	3	24/02/2023	MECH	7
226023	ME8792	3	3	3	2	3	3	24/02/2023	MECH	7
226024	ME8792	3	3	2	3	2	3	24/02/2023	MECH	7
226025	ME8792	3	3	2	2	3	3	24/02/2023	MECH	7
226026	ME8792	3	3	3	2	2	3	24/02/2023	MECH	7
226027	ME8792	3	3	3	3	2	3	24/02/2023	MECH	7
226028	ME8792	3	3	2	3	3	3	24/02/2023	MECH	7
226030	ME8792	3	3	2	2	2	3	24/02/2023	MECH	7
226031	ME8792	3	3	2	2	3	3	24/02/2023	MECH	7
226032	ME8792	3	3	2	3	3	3	24/02/2023	MECH	7
226033	ME8792	3	3	3	3	3	3	24/02/2023	MECH	7
226034	ME8792	3	3	2	2	3	3	24/02/2023	MECH	7
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226036	ME8792	3	3	3	2	2	3	24/02/2023	MECH	7
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226038	ME8792	3	3	2	3	3	3	24/02/2023	MECH	7
226039	ME8792	3	3	3	3	3	3	24/02/2023	MECH	7
226040	ME8792	3	3	3	2	2	3	24/02/2023	MECH	7
226041	ME8792	3	3	3	2	2	3	24/02/2023	MECH	7
226042	ME8792	3	3	3	2	2	3	24/02/2023	MECH	7

226043	ME8792	3	3	3	2	2	3	24/02/2023	MECH	7
226044	ME8792	3	3	3	2	3	3	24/02/2023	MECH	7
226045	ME8792	3	3	3	2	2	3	24/02/2023	MECH	7
226046	ME8792	3	3	3	2	2	3	24/02/2023	MECH	7
226048	ME8792	3	3	2	2	2	3	24/02/2023	MECH	7
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226052	ME8792	3	3	2	3	3	3	24/02/2023	MECH	7
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226055	ME8792	3	3	3	3	3	3	24/02/2023	MECH	7
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226062	ME8792	3	3	2	2	3	3	24/02/2023	MECH	7
226063	ME8792	3	3	3	2	2	3	24/02/2023	MECH	7
226064	ME8792	3	3	2	2	3	3	24/02/2023	MECH	7
226066	ME8792	3	3	3	3	2	3	24/02/2023	MECH	7
226067	ME8792	3	3	3	2	2	3	24/02/2023	MECH	7
226068	ME8792	3	3	3	3	3	3	24/02/2023	MECH	7
226069	ME8792	3	3	3	2	3	3	24/02/2023	MECH	7
226070	ME8792	3	3	3	3	2	3	24/02/2023	MECH	7
226071	ME8792	3	3	3	2	2	3	24/02/2023	MECH	7
226072	ME8792	3	3	2	3	3	3	24/02/2023	MECH	7
226073	ME8792	3	3	3	3	3	3	24/02/2023	MECH	7
226074	ME8792	3	3	3	3	2	3	24/02/2023	MECH	7

226075	ME8792	3	3	2	3	2	3	24/02/2023	MECH	7
226076	ME8792	3	3	2	2	2	3	24/02/2023	MECH	7
226077	ME8792	3	3	3	2	2	3	24/02/2023	MECH	7
226078	ME8792	3	3	2	2	2	3	24/02/2023	MECH	7
226079	ME8792	3	3	3	2	3	3	24/02/2023	MECH	7
226080	ME8792	3	3	3	3	2	3	24/02/2023	MECH	7
226082	ME8792	3	3	2	3	2	3	24/02/2023	MECH	7
226083	ME8792	3	3	3	2	2	3	24/02/2023	MECH	7
226084	ME8792	3	3	2	2	2	3	24/02/2023	MECH	7
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226086	ME8792	3	3	3	3	2	3	24/02/2023	MECH	7
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226089	ME8792	3	3	2	2	3	3	24/02/2023	MECH	7
226090	ME8792	3	3	2	3	2	3	24/02/2023	MECH	7
226091	ME8792	3	3	3	3	2	3	24/02/2023	MECH	7
226092	ME8792	3	3	2	2	2	3	24/02/2023	MECH	7
226093	ME8792	3	3	3	2	2	3	24/02/2023	MECH	7
226094	ME8792	3	3	3	2	2	3	24/02/2023	MECH	7
226095	ME8792	3	3	2	3	2	3	24/02/2023	MECH	7
226096	ME8792	3	3	2	3	3	3	24/02/2023	MECH	7
226097	ME8792	3	3	2	3	2	3	24/02/2023	MECH	7
226098	ME8792	3	3	2	3	2	3	24/02/2023	MECH	7
226099	ME8792	3	3	2	3	3	3	24/02/2023	MECH	7
226100	ME8792	3	3	2	3	3	3	24/02/2023	MECH	7
226101	ME8792	3	3	3	2	2	3	24/02/2023	MECH	7
226102	ME8792	3	3	3	3	2	3	24/02/2023	MECH	7
226103	ME8792	3	3	3	3	2	3	24/02/2023	MECH	7
226104	ME8792	3	3	3	2	3	3	24/02/2023	MECH	7

226105	ME8792	3	3	2	2	3	3	24/02/2023	MECH	7
226106	ME8792	3	3	3	2	2	3	24/02/2023	MECH	7
226107	ME8792	3	3	2	3	3	3	24/02/2023	MECH	7
226108	ME8792	3	3	2	3	3	3	24/02/2023	MECH	7
226109	ME8792	3	3	2	3	2	3	24/02/2023	MECH	7
226110	ME8792	3	3	2	2	2	3	24/02/2023	MECH	7
226111	ME8792	3	3	2	2	3	3	24/02/2023	MECH	7
226112	ME8792	3	3	3	2	3	3	24/02/2023	MECH	7
226113	ME8792	3	3	3	3	2	3	24/02/2023	MECH	7
226114	ME8792	3	3	2	2	3	3	24/02/2023	MECH	7
226115	ME8792	3	3	2	2	2	3	24/02/2023	MECH	7
226116	ME8792	3	3	3	2	2	3	24/02/2023	MECH	7
226117	ME8792	3	3	2	3	3	3	24/02/2023	MECH	7
226119	ME8792	3	3	2	2	2	3	24/02/2023	MECH	7
226120	ME8792	3	3	3	3	3	3	24/02/2023	MECH	7
226121	ME8792	3	3	2	2	3	3	24/02/2023	MECH	7
226122	ME8792	3	3	3	2	2	3	24/02/2023	MECH	7
226123	ME8792	3	3	2	2	2	3	24/02/2023	MECH	7
226124	ME8792	3	3	2	2	3	3	24/02/2023	MECH	7
226125	ME8792	3	3	2	3	3	3	24/02/2023	MECH	7
226126	ME8792	3	3	2	3	3	3	24/02/2023	MECH	7
226127	ME8792	3	3	3	3	3	3	24/02/2023	MECH	7
226128	ME8792	3	3	2	3	2	3	24/02/2023	MECH	7
226129	ME8792	3	3	3	2	3	3	24/02/2023	MECH	7
226130	ME8792	3	3	3	2	3	3	24/02/2023	MECH	7
226131	ME8792	3	3	3	2	2	3	24/02/2023	MECH	7
226132	ME8792	3	3	3	3	3	3	24/02/2023	MECH	7
226133	ME8792	3	3	2	3	3	3	24/02/2023	MECH	7
226134	ME8792	3	3	2	3	2	3	24/02/2023	MECH	7

226135	ME8792	3	3	2	3	3	3	24/02/2023	MECH	7
Attained Level		3.0	3.0	2.5	2.52	2.47	3.0			
%		100.00	100.00	83.33	84.00	82.33	100.00			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23ODD** Semester : **7** Programme: **B.E/B.Tech (MECH)**
Subject Code : **ME8793** NBA Code : **C402** Title **PROCESS PLANNING AND COST ESTIMATION**
Faculty: Dr.N.Baskar / Dr.M.Ganesan

Cos	CO Description	Attained Level	%
C402.1	select the process, equipment and tools for various industrial products.	3.0	100.00
C402.2	prepare process planning activity chart.	3.0	100.00
C402.3	explain the concept of cost estimation.	2.48	82.67
C402.4	compute the job order cost for different type of shop floor.	2.54	84.67
C402.5	calculate the machining time for various machining operations - Lathe, Drilling & Boring	2.49	83.00
C402.6	calculate the machining time for various machining operations - Milling, Shaping, Planning & Grinding	3.0	100.00

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 129

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
226001	ME8793	3	3	3	2	2	3	24/02/2023	MECH	7
226002	ME8793	3	3	2	3	2	3	24/02/2023	MECH	7
226003	ME8793	3	3	2	3	2	3	24/02/2023	MECH	7
226004	ME8793	3	3	2	2	2	3	24/02/2023	MECH	7
226005	ME8793	3	3	3	2	3	3	24/02/2023	MECH	7
226006	ME8793	3	3	2	2	3	3	24/02/2023	MECH	7
226007	ME8793	3	3	2	3	3	3	24/02/2023	MECH	7
226008	ME8793	3	3	3	3	3	3	24/02/2023	MECH	7
226009	ME8793	3	3	3	2	2	3	24/02/2023	MECH	7
226010	ME8793	3	3	3	3	3	3	24/02/2023	MECH	7
226011	ME8793	3	3	3	3	2	3	24/02/2023	MECH	7
226012	ME8793	3	3	3	2	2	3	24/02/2023	MECH	7

226013	ME8793	3	3	3	3	3	3	24/02/2023	MECH	7
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226015	ME8793	3	3	2	2	2	3	24/02/2023	MECH	7
226016	ME8793	3	3	2	3	2	3	24/02/2023	MECH	7
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226018	ME8793	3	3	3	2	2	3	24/02/2023	MECH	7
226019	ME8793	3	3	2	3	2	3	24/02/2023	MECH	7
226020	ME8793	3	3	3	2	3	3	24/02/2023	MECH	7
226021	ME8793	3	3	2	3	2	3	24/02/2023	MECH	7
226022	ME8793	3	3	2	3	3	3	24/02/2023	MECH	7
226023	ME8793	3	3	2	3	3	3	24/02/2023	MECH	7
226024	ME8793	3	3	3	3	3	3	24/02/2023	MECH	7
226025	ME8793	3	3	3	3	3	3	24/02/2023	MECH	7
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226043	ME8793	3	3	3	3	2	3	24/02/2023	MECH	7
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226053	ME8793	3	3	3	2	2	3	24/02/2023	MECH	7
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226058	ME8793	3	3	2	3	2	3	24/02/2023	MECH	7
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226064	ME8793	3	3	2	3	2	3	24/02/2023	MECH	7
226066	ME8793	3	3	3	2	2	3	24/02/2023	MECH	7
226067	ME8793	3	3	3	3	2	3	24/02/2023	MECH	7
226068	ME8793	3	3	2	3	2	3	24/02/2023	MECH	7
226069	ME8793	3	3	2	2	3	3	24/02/2023	MECH	7
226070	ME8793	3	3	3	3	2	3	24/02/2023	MECH	7
226071	ME8793	3	3	2	2	2	3	24/02/2023	MECH	7
226072	ME8793	3	3	3	3	3	3	24/02/2023	MECH	7
226073	ME8793	3	3	2	3	3	3	24/02/2023	MECH	7
226074	ME8793	3	3	2	2	3	3	24/02/2023	MECH	7

226075	ME8793	3	3	3	3	3	3	24/02/2023	MECH	7
226076	ME8793	3	3	2	3	2	3	24/02/2023	MECH	7
226077	ME8793	3	3	2	3	3	3	24/02/2023	MECH	7
226078	ME8793	3	3	2	3	2	3	24/02/2023	MECH	7
226079	ME8793	3	3	3	2	3	3	24/02/2023	MECH	7
226080	ME8793	3	3	3	2	2	3	24/02/2023	MECH	7
226082	ME8793	3	3	2	3	3	3	24/02/2023	MECH	7
226083	ME8793	3	3	3	3	3	3	24/02/2023	MECH	7
226084	ME8793	3	3	2	2	3	3	24/02/2023	MECH	7
226085	ME8793	3	3	2	3	3	3	24/02/2023	MECH	7
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226087	ME8793	3	3	2	3	2	3	24/02/2023	MECH	7
226088	ME8793	3	3	2	2	2	3	24/02/2023	MECH	7
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226092	ME8793	3	3	2	2	2	3	24/02/2023	MECH	7
226093	ME8793	3	3	2	2	2	3	24/02/2023	MECH	7
226094	ME8793	3	3	2	2	3	3	24/02/2023	MECH	7
226095	ME8793	3	3	2	2	2	3	24/02/2023	MECH	7
226096	ME8793	3	3	2	3	3	3	24/02/2023	MECH	7
226097	ME8793	3	3	3	3	2	3	24/02/2023	MECH	7
226098	ME8793	3	3	3	3	2	3	24/02/2023	MECH	7
226099	ME8793	3	3	2	3	2	3	24/02/2023	MECH	7
226100	ME8793	3	3	3	2	3	3	24/02/2023	MECH	7
226101	ME8793	3	3	3	2	2	3	24/02/2023	MECH	7
226102	ME8793	3	3	2	3	2	3	24/02/2023	MECH	7
226103	ME8793	3	3	3	3	3	3	24/02/2023	MECH	7
226104	ME8793	3	3	3	2	2	3	24/02/2023	MECH	7

226105	ME8793	3	3	3	2	2	3	24/02/2023	MECH	7
226106	ME8793	3	3	2	3	2	3	24/02/2023	MECH	7
226107	ME8793	3	3	3	3	2	3	24/02/2023	MECH	7
226108	ME8793	3	3	3	3	3	3	24/02/2023	MECH	7
226109	ME8793	3	3	3	3	2	3	24/02/2023	MECH	7
226110	ME8793	3	3	2	3	2	3	24/02/2023	MECH	7
226111	ME8793	3	3	3	3	3	3	24/02/2023	MECH	7
226112	ME8793	3	3	2	2	2	3	24/02/2023	MECH	7
226113	ME8793	3	3	3	2	3	3	24/02/2023	MECH	7
226114	ME8793	3	3	2	2	2	3	24/02/2023	MECH	7
226115	ME8793	3	3	3	2	3	3	24/02/2023	MECH	7
226116	ME8793	3	3	3	2	3	3	24/02/2023	MECH	7
226117	ME8793	3	3	2	2	2	3	24/02/2023	MECH	7
226119	ME8793	3	3	3	3	3	3	24/02/2023	MECH	7
226120	ME8793	3	3	2	3	2	3	24/02/2023	MECH	7
226121	ME8793	3	3	2	2	2	3	24/02/2023	MECH	7
226122	ME8793	3	3	3	2	3	3	24/02/2023	MECH	7
226123	ME8793	3	3	3	2	2	3	24/02/2023	MECH	7
226124	ME8793	3	3	3	3	2	3	24/02/2023	MECH	7
226125	ME8793	3	3	2	2	3	3	24/02/2023	MECH	7
226126	ME8793	3	3	3	2	3	3	24/02/2023	MECH	7
226127	ME8793	3	3	3	3	3	3	24/02/2023	MECH	7
226128	ME8793	3	3	3	3	3	3	24/02/2023	MECH	7
226129	ME8793	3	3	2	3	2	3	24/02/2023	MECH	7
226130	ME8793	3	3	2	3	3	3	24/02/2023	MECH	7
226131	ME8793	3	3	2	3	3	3	24/02/2023	MECH	7
226132	ME8793	3	3	3	2	3	3	24/02/2023	MECH	7
226133	ME8793	3	3	3	2	2	3	24/02/2023	MECH	7
226134	ME8793	3	3	2	3	3	3	24/02/2023	MECH	7

226135	ME8793	3	3	2	3	3	3	24/02/2023	MECH	7
Attained Level		3.0	3.0	2.48	2.54	2.49	3.0			
%		100.00	100.00	82.67	84.67	83.00	100.00			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23ODD** Semester : **7** Programme: **B.E/B.Tech (MECH)**
Subject Code : **OMF751** NBA Code : **C406** Title **LEAN SIX SIGMA**
Faculty: Mr.P.V.Rajesh / Dr.M.R.Anantha Padmanaban

Cos	CO Description	Attained Level	%
C406.1	Understand the history of evolution and fundamental terminologies used in lean manufacturing and six sigma.	3.0	100.00
C406.2	Evaluate the perfect implementation of lean six sigma by using various novel tools and techniques.	3.0	100.00
C406.3	Design six sigma methodologies like FMEA and CAP.	2.57	85.67
C406.4	Understand the importance of QFD in quality management.	2.55	85.00
C406.5	Analyze various challenges faced during the effective implementation of six sigma in an organization.	2.59	86.33
C406.6	Understand the vitality of continuous improvement in lean manufacturing systems.	3.0	100.00

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 129

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
226001	OMF751	3	3	2	3	3	3	24/02/2023	MECH	7
226002	OMF751	3	3	2	3	2	3	24/02/2023	MECH	7
226003	OMF751	3	3	2	3	3	3	24/02/2023	MECH	7
226004	OMF751	3	3	2	2	2	3	24/02/2023	MECH	7
226005	OMF751	3	3	3	2	3	3	24/02/2023	MECH	7
226006	OMF751	3	3	3	3	3	3	24/02/2023	MECH	7
226007	OMF751	3	3	3	3	2	3	24/02/2023	MECH	7
226008	OMF751	3	3	3	3	3	3	24/02/2023	MECH	7
226009	OMF751	3	3	3	2	3	3	24/02/2023	MECH	7
226010	OMF751	3	3	2	3	3	3	24/02/2023	MECH	7
226011	OMF751	3	3	2	2	2	3	24/02/2023	MECH	7
226012	OMF751	3	3	3	3	3	3	24/02/2023	MECH	7

226013	OMF751	3	3	3	3	2	3	24/02/2023	MECH	7
226014	OMF751	3	3	2	2	3	3	24/02/2023	MECH	7
226015	OMF751	3	3	2	2	2	3	24/02/2023	MECH	7
226016	OMF751	3	3	2	2	3	3	24/02/2023	MECH	7
226017	OMF751	3	3	2	2	3	3	24/02/2023	MECH	7
226018	OMF751	3	3	2	2	2	3	24/02/2023	MECH	7
226019	OMF751	3	3	3	2	3	3	24/02/2023	MECH	7
226020	OMF751	3	3	3	3	2	3	24/02/2023	MECH	7
226021	OMF751	3	3	3	3	3	3	24/02/2023	MECH	7
226022	OMF751	3	3	2	3	2	3	24/02/2023	MECH	7
226023	OMF751	3	3	3	3	3	3	24/02/2023	MECH	7
226024	OMF751	3	3	2	3	2	3	24/02/2023	MECH	7
226025	OMF751	3	3	3	3	2	3	24/02/2023	MECH	7
226026	OMF751	3	3	3	3	3	3	24/02/2023	MECH	7
226027	OMF751	3	3	3	3	3	3	24/02/2023	MECH	7
226028	OMF751	3	3	3	2	2	3	24/02/2023	MECH	7
226030	OMF751	3	3	3	2	2	3	24/02/2023	MECH	7
226031	OMF751	3	3	2	3	3	3	24/02/2023	MECH	7
226032	OMF751	3	3	2	3	3	3	24/02/2023	MECH	7
226033	OMF751	3	3	2	2	3	3	24/02/2023	MECH	7
226034	OMF751	3	3	3	3	3	3	24/02/2023	MECH	7
226035	OMF751	3	3	2	3	2	3	24/02/2023	MECH	7
226036	OMF751	3	3	3	3	2	3	24/02/2023	MECH	7
226037	OMF751	3	3	3	3	3	3	24/02/2023	MECH	7
226038	OMF751	3	3	2	2	2	3	24/02/2023	MECH	7
226039	OMF751	3	3	2	3	2	3	24/02/2023	MECH	7
226040	OMF751	3	3	2	2	2	3	24/02/2023	MECH	7
226041	OMF751	3	3	2	3	3	3	24/02/2023	MECH	7
226042	OMF751	3	3	2	2	2	3	24/02/2023	MECH	7

226043	OMF751	3	3	2	2	2	3	24/02/2023	MECH	7
226044	OMF751	3	3	3	3	3	3	24/02/2023	MECH	7
226045	OMF751	3	3	2	3	2	3	24/02/2023	MECH	7
226046	OMF751	3	3	3	3	3	3	24/02/2023	MECH	7
226048	OMF751	3	3	2	2	2	3	24/02/2023	MECH	7
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226054	OMF751	3	3	3	2	2	3	24/02/2023	MECH	7
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226062	OMF751	3	3	2	2	3	3	24/02/2023	MECH	7
226063	OMF751	3	3	2	3	3	3	24/02/2023	MECH	7
226064	OMF751	3	3	2	3	3	3	24/02/2023	MECH	7
226066	OMF751	3	3	3	3	2	3	24/02/2023	MECH	7
226067	OMF751	3	3	3	2	3	3	24/02/2023	MECH	7
226068	OMF751	3	3	3	2	3	3	24/02/2023	MECH	7
226069	OMF751	3	3	3	2	3	3	24/02/2023	MECH	7
226070	OMF751	3	3	2	3	3	3	24/02/2023	MECH	7
226071	OMF751	3	3	3	2	3	3	24/02/2023	MECH	7
226072	OMF751	3	3	3	2	3	3	24/02/2023	MECH	7
226073	OMF751	3	3	3	3	3	3	24/02/2023	MECH	7
226074	OMF751	3	3	2	3	2	3	24/02/2023	MECH	7

226075	OMF751	3	3	2	2	2	3	24/02/2023	MECH	7
226076	OMF751	3	3	3	2	3	3	24/02/2023	MECH	7
226077	OMF751	3	3	3	2	2	3	24/02/2023	MECH	7
226078	OMF751	3	3	3	3	2	3	24/02/2023	MECH	7
226079	OMF751	3	3	3	3	2	3	24/02/2023	MECH	7
226080	OMF751	3	3	2	3	3	3	24/02/2023	MECH	7
226082	OMF751	3	3	3	2	2	3	24/02/2023	MECH	7
226083	OMF751	3	3	3	2	2	3	24/02/2023	MECH	7
226084	OMF751	3	3	3	2	3	3	24/02/2023	MECH	7
226085	OMF751	3	3	3	3	3	3	24/02/2023	MECH	7
226086	OMF751	3	3	3	2	2	3	24/02/2023	MECH	7
226087	OMF751	3	3	3	2	3	3	24/02/2023	MECH	7
226088	OMF751	3	3	3	3	2	3	24/02/2023	MECH	7
226089	OMF751	3	3	3	2	3	3	24/02/2023	MECH	7
226090	OMF751	3	3	3	3	3	3	24/02/2023	MECH	7
226091	OMF751	3	3	2	2	3	3	24/02/2023	MECH	7
226092	OMF751	3	3	2	2	3	3	24/02/2023	MECH	7
226093	OMF751	3	3	2	3	3	3	24/02/2023	MECH	7
226094	OMF751	3	3	3	2	2	3	24/02/2023	MECH	7
226095	OMF751	3	3	3	3	2	3	24/02/2023	MECH	7
226096	OMF751	3	3	2	2	3	3	24/02/2023	MECH	7
226097	OMF751	3	3	3	2	3	3	24/02/2023	MECH	7
226098	OMF751	3	3	3	3	2	3	24/02/2023	MECH	7
226099	OMF751	3	3	3	3	2	3	24/02/2023	MECH	7
226100	OMF751	3	3	3	2	3	3	24/02/2023	MECH	7
226101	OMF751	3	3	2	3	2	3	24/02/2023	MECH	7
226102	OMF751	3	3	3	3	3	3	24/02/2023	MECH	7
226103	OMF751	3	3	3	3	2	3	24/02/2023	MECH	7
226104	OMF751	3	3	2	3	2	3	24/02/2023	MECH	7

226105	OMF751	3	3	2	3	3	3	24/02/2023	MECH	7
226106	OMF751	3	3	2	3	3	3	24/02/2023	MECH	7
226107	OMF751	3	3	3	2	3	3	24/02/2023	MECH	7
226108	OMF751	3	3	3	2	2	3	24/02/2023	MECH	7
226109	OMF751	3	3	3	3	2	3	24/02/2023	MECH	7
226110	OMF751	3	3	2	2	2	3	24/02/2023	MECH	7
226111	OMF751	3	3	2	2	3	3	24/02/2023	MECH	7
226112	OMF751	3	3	3	2	3	3	24/02/2023	MECH	7
226113	OMF751	3	3	2	3	2	3	24/02/2023	MECH	7
226114	OMF751	3	3	2	3	3	3	24/02/2023	MECH	7
226115	OMF751	3	3	3	3	3	3	24/02/2023	MECH	7
226116	OMF751	3	3	2	3	3	3	24/02/2023	MECH	7
226117	OMF751	3	3	2	2	3	3	24/02/2023	MECH	7
226119	OMF751	3	3	2	3	3	3	24/02/2023	MECH	7
226120	OMF751	3	3	2	3	3	3	24/02/2023	MECH	7
226121	OMF751	3	3	3	3	3	3	24/02/2023	MECH	7
226122	OMF751	3	3	3	3	3	3	24/02/2023	MECH	7
226123	OMF751	3	3	3	2	2	3	24/02/2023	MECH	7
226124	OMF751	3	3	2	3	3	3	24/02/2023	MECH	7
226125	OMF751	3	3	3	3	3	3	24/02/2023	MECH	7
226126	OMF751	3	3	3	2	2	3	24/02/2023	MECH	7
226127	OMF751	3	3	3	3	3	3	24/02/2023	MECH	7
226128	OMF751	3	3	3	3	3	3	24/02/2023	MECH	7
226129	OMF751	3	3	3	3	2	3	24/02/2023	MECH	7
226130	OMF751	3	3	3	2	2	3	24/02/2023	MECH	7
226131	OMF751	3	3	3	2	3	3	24/02/2023	MECH	7
226132	OMF751	3	3	3	2	3	3	24/02/2023	MECH	7
226133	OMF751	3	3	2	3	2	3	24/02/2023	MECH	7
226134	OMF751	3	3	2	3	3	3	24/02/2023	MECH	7

226135	OMF751	3	3	2	3	3	3	24/02/2023	MECH	7
Attained Level		3.0	3.0	2.57	2.55	2.59	3.0			
%		100.00	100.00	85.67	85.00	86.33	100.00			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23EVEN** Semester : **4** Programme: **B.E/B.Tech (MECH)**
Subject Code : **CE3491** NBA Code : **C214** Title **STRENGTH OF MATERIALS**
Faculty: Dr.R.Rekha

Cos	CO Description	Attained Level	%
C214.1	To understand the concepts of stress and strain in simple and compound bars.	2.52	84.00
C214.2	To understand the concepts of principal stresses and principal planes.	2.61	87.00
C214.3	To understand the load transferring mechanism in beams and stress distribution due to shearing force and bending moment.	2.36	78.67
C214.4	To apply basic equation of simple torsion in designing of shafts and helical spring	2.64	88.00
C214.5	To calculate the slope and deflection in beams using different methods.	2.59	86.33
C214.6	To analyze and design thin and thick shells for the applied internal and external pressures.	2.49	83.00

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 61

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
246001	CE3491	3	3	2	2	2	2	20/09/2023	MECH	4
246002	CE3491	3	3	2	3	3	2	20/09/2023	MECH	4
246003	CE3491	3	3	2	3	2	3	20/09/2023	MECH	4
246004	CE3491	3	2	2	3	2	2	20/09/2023	MECH	4
246005	CE3491	3	3	2	3	3	2	20/09/2023	MECH	4
246006	CE3491	3	3	2	2	2	2	20/09/2023	MECH	4
246007	CE3491	2	3	3	2	2	3	20/09/2023	MECH	4
246008	CE3491	3	3	2	3	3	3	20/09/2023	MECH	4
246009	CE3491	3	3	3	3	2	2	20/09/2023	MECH	4
246010	CE3491	2	2	2	3	2	3	20/09/2023	MECH	4
246011	CE3491	2	3	2	2	2	3	20/09/2023	MECH	4
246012	CE3491	3	2	3	3	3	2	20/09/2023	MECH	4
246013	CE3491	3	3	2	3	2	3	20/09/2023	MECH	4
246014	CE3491	3	2	3	3	3	3	20/09/2023	MECH	4
246015	CE3491	2	3	3	2	3	2	20/09/2023	MECH	4
246016	CE3491	3	3	2	3	3	3	20/09/2023	MECH	4
246017	CE3491	3	3	3	2	3	2	20/09/2023	MECH	4
246018	CE3491	3	3	2	3	2	3	20/09/2023	MECH	4

246019	CE3491	2	2	3	3	3	3	20/09/2023	MECH	4
246020	CE3491	3	3	2	3	3	2	20/09/2023	MECH	4
246021	CE3491	2	3	3	3	2	2	20/09/2023	MECH	4
246022	CE3491	2	3	2	3	3	2	20/09/2023	MECH	4
246023	CE3491	2	3	2	3	3	2	20/09/2023	MECH	4
246024	CE3491	3	2	3	2	2	3	20/09/2023	MECH	4
246025	CE3491	3	3	2	2	2	2	20/09/2023	MECH	4
246026	CE3491	2	3	2	3	3	2	20/09/2023	MECH	4
246027	CE3491	3	2	2	3	3	2	20/09/2023	MECH	4
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246029	CE3491	3	2	2	3	3	2	20/09/2023	MECH	4
246030	CE3491	3	2	2	2	2	3	20/09/2023	MECH	4
246032	CE3491	3	2	2	2	3	3	20/09/2023	MECH	4
246033	CE3491	2	2	2	2	3	2	20/09/2023	MECH	4
246034	CE3491	2	2	3	3	3	2	20/09/2023	MECH	4
246035	CE3491	3	3	3	3	2	2	20/09/2023	MECH	4
246036	CE3491	2	3	3	2	3	2	20/09/2023	MECH	4
246037	CE3491	3	2	3	3	2	2	20/09/2023	MECH	4
246038	CE3491	3	3	3	2	3	2	20/09/2023	MECH	4
246039	CE3491	2	2	2	2	3	3	20/09/2023	MECH	4
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246041	CE3491	3	3	2	2	3	3	20/09/2023	MECH	4
246044	CE3491	2	3	2	3	3	3	20/09/2023	MECH	4
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246047	CE3491	3	2	2	3	2	3	20/09/2023	MECH	4
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246053	CE3491	3	2	3	3	3	3	20/09/2023	MECH	4
246054	CE3491	2	3	3	3	2	3	20/09/2023	MECH	4
246055	CE3491	2	2	2	3	3	2	20/09/2023	MECH	4
246056	CE3491	2	2	2	3	2	2	20/09/2023	MECH	4
246057	CE3491	2	3	3	3	3	3	20/09/2023	MECH	4
246059	CE3491	3	3	2	2	2	3	20/09/2023	MECH	4
246060	CE3491	2	2	2	2	2	2	20/09/2023	MECH	4
246061	CE3491	2	3	2	3	2	2	20/09/2023	MECH	4

246062	CE3491	2	2	2	2	2	2	20/09/2023	MECH	4
246063	CE3491	2	3	2	2	2	2	20/09/2023	MECH	4
246064	CE3491	2	2	2	2	2	3	20/09/2023	MECH	4
246065	CE3491	2	3	3	3	3	3	20/09/2023	MECH	4
Attained Level		2.52	2.61	2.36	2.64	2.59	2.49			
%		84.00	87.00	78.67	88.00	86.33	83.00			

Saranathan College of Engineering
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Course End Survey - Consolidated Report

Academic Year : **2022-23EVEN** Semester : **4** Programme: **B.E/B.Tech (MECH)**
Subject Code : **GE3451** NBA Code : **215** Title **ENVIRONMENTAL SCIENCES AND SUSTAINABILITY**
Faculty: Mr.A.Lakshmanan

Cos	CO Description	Attained Level	%
215.1	Infer the importance of environment and explain the concept, types, structure and function of ecosystem	2.36	78.67
215.2	Recall the various functions, values, levels, threats and conservation of biodiversity	2.54	84.67
215.3	Explain the different types of pollution and propose the suitable methods to prevent the same to enhance the environment	2.52	84.00
215.4	Discuss of conservation different energy sources, optimal usage and the importance	2.39	79.67
215.5	Discuss the aspect of sustainability and the means of sustainability management to realize the sustainable development goals	2.46	82.00
215.6	Lists the various environment management systems, protection and discuss the green solutions for energy to materials for sustainability	2.49	83.00

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 61

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
246001	GE3451	3	3	3	2	2	3	20/09/2023	MECH	4
246002	GE3451	2	3	2	3	3	3	20/09/2023	MECH	4
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246013	GE3451	2	2	3	2	3	2	20/09/2023	MECH	4
246014	GE3451	3	3	2	3	2	3	20/09/2023	MECH	4
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246022	GE3451	3	3	3	2	3	2	20/09/2023	MECH	4
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246039	GE3451	2	3	3	3	3	2	20/09/2023	MECH	4
246040	GE3451	2	2	2	3	3	3	20/09/2023	MECH	4
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246045	GE3451	2	3	3	2	2	3	20/09/2023	MECH	4
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246047	GE3451	3	3	3	2	3	2	20/09/2023	MECH	4
246048	GE3451	2	2	2	2	3	2	20/09/2023	MECH	4
246049	GE3451	2	2	3	2	2	2	20/09/2023	MECH	4
246050	GE3451	2	3	2	3	2	2	20/09/2023	MECH	4
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246053	GE3451	2	3	2	2	3	2	20/09/2023	MECH	4
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246056	GE3451	2	3	3	2	3	2	20/09/2023	MECH	4
246057	GE3451	2	3	2	2	3	2	20/09/2023	MECH	4

246059	GE3451	2	3	2	3	3	2	20/09/2023	MECH	4
246060	GE3451	2	3	2	2	3	2	20/09/2023	MECH	4
246061	GE3451	3	2	3	3	2	3	20/09/2023	MECH	4
246062	GE3451	2	3	3	3	2	2	20/09/2023	MECH	4
246063	GE3451	2	3	2	3	3	3	20/09/2023	MECH	4
246064	GE3451	2	3	2	2	2	3	20/09/2023	MECH	4
246065	GE3451	3	2	3	2	2	2	20/09/2023	MECH	4
Attained Level		2.36	2.54	2.52	2.39	2.46	2.49			
%		78.67	84.67	84.00	79.67	82.00	83.00			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23EVEN** Semester : **4** Programme: **B.E/B.Tech (MECH)**
Subject Code : **ME3451** NBA Code : **C211** Title **THERMAL ENGINEERING**
Faculty: Mr.K.Amarnath

Cos	CO Description	Attained Level	%
C211.1	Apply thermodynamic concepts to different air standard cycles and solve problems	2.57	85.67
C211.2	To solve problems in steam nozzle and calculate critical pressure ratio.	2.44	81.33
C211.3	Explain the flow in steam turbines, draw velocity diagrams	2.48	82.67
C211.4	Explain the flow in Gas turbines and solve problems.	2.54	84.67
C211.5	Explain the functioning and features of IC engine, components and auxiliaries.	2.51	83.67
C211.6	Calculate the various performance parameters of IC engines	2.61	87.00

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 61

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
246001	ME3451	2	3	2	3	3	3	20/09/2023	MECH	4
246002	ME3451	3	2	3	3	2	3	20/09/2023	MECH	4
246003	ME3451	3	3	3	3	3	3	20/09/2023	MECH	4
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246014	ME3451	2	2	2	3	3	3	20/09/2023	MECH	4
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246017	ME3451	2	3	2	2	3	3	20/09/2023	MECH	4
246018	ME3451	3	3	3	3	3	3	20/09/2023	MECH	4
246019	ME3451	2	2	3	2	3	3	20/09/2023	MECH	4

246020	ME3451	3	3	3	2	2	2	20/09/2023	MECH	4
246021	ME3451	2	3	3	2	3	2	20/09/2023	MECH	4
246022	ME3451	2	2	2	3	3	2	20/09/2023	MECH	4
246023	ME3451	3	2	3	2	2	2	20/09/2023	MECH	4
246024	ME3451	2	2	2	3	2	2	20/09/2023	MECH	4
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246027	ME3451	2	2	3	3	2	2	20/09/2023	MECH	4
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246032	ME3451	3	2	2	2	3	3	20/09/2023	MECH	4
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246034	ME3451	3	3	2	2	3	2	20/09/2023	MECH	4
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246057	ME3451	2	2	3	2	2	3	20/09/2023	MECH	4
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246061	ME3451	3	2	3	3	2	2	20/09/2023	MECH	4
246062	ME3451	2	3	2	2	3	2	20/09/2023	MECH	4

246063	ME3451	3	2	2	2	2	2	20/09/2023	MECH	4
246064	ME3451	2	2	3	3	2	3	20/09/2023	MECH	4
246065	ME3451	3	3	3	3	3	3	20/09/2023	MECH	4
Attained Level		2.57	2.44	2.48	2.54	2.51	2.61			
%		85.67	81.33	82.67	84.67	83.67	87.00			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23EVEN** Semester : **4** Programme: **B.E/B.Tech (MECH)**
Subject Code : **ME3491** NBA Code : **C210** Title **THEORY OF MACHINES**
Faculty: Mr.P.Vigneshwar

Cos	CO Description	Attained Level	%
C210.1	Discuss the basics of mechanism	2.56	85.33
C210.2	Design cam mechanisms for specified output motions	2.54	84.67
C210.3	Study the basic concepts of toothed gearing and kinematics of gear trains	2.59	86.33
C210.4	Analyze the effects of friction in machine elements	2.51	83.67
C210.5	Predict the force-motion relationship in components subjected to external forces and analyzing of standard mechanisms	2.54	84.67
C210.6	Analyse the undesirable effects of unbalances resulting from prescribed motions in mechanism and the effect of dynamics of undesirable vibrations	2.54	84.67

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 61

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
246001	ME3491	2	2	2	2	2	2	20/09/2023	MECH	4
246002	ME3491	2	3	2	2	2	3	20/09/2023	MECH	4
246003	ME3491	3	2	3	2	2	3	20/09/2023	MECH	4
246004	ME3491	2	3	2	2	2	3	20/09/2023	MECH	4
246005	ME3491	3	3	2	3	3	3	20/09/2023	MECH	4
246006	ME3491	2	2	3	3	3	3	20/09/2023	MECH	4
246007	ME3491	3	3	2	3	3	3	20/09/2023	MECH	4
246008	ME3491	3	2	2	3	2	3	20/09/2023	MECH	4
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246017	ME3491	3	3	3	2	2	2	20/09/2023	MECH	4
246018	ME3491	2	2	3	2	2	3	20/09/2023	MECH	4
246019	ME3491	3	3	3	2	2	2	20/09/2023	MECH	4

246020	ME3491	3	3	3	2	2	2	20/09/2023	MECH	4
246021	ME3491	3	2	3	2	3	2	20/09/2023	MECH	4
246022	ME3491	2	3	3	3	3	3	20/09/2023	MECH	4
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246056	ME3491	2	3	2	3	3	2	20/09/2023	MECH	4
246057	ME3491	2	3	3	2	2	3	20/09/2023	MECH	4
246059	ME3491	3	2	3	3	2	3	20/09/2023	MECH	4
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246061	ME3491	3	3	3	3	3	3	20/09/2023	MECH	4
246062	ME3491	3	3	3	3	3	3	20/09/2023	MECH	4

246063	ME3491	3	2	3	2	3	2	20/09/2023	MECH	4
246064	ME3491	3	2	3	2	3	2	20/09/2023	MECH	4
246065	ME3491	2	2	3	2	3	3	20/09/2023	MECH	4
Attained Level		2.56	2.54	2.59	2.51	2.54	2.54			
%		85.33	84.67	86.33	83.67	84.67	84.67			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23EVEN** Semester : **4** Programme: **B.E/B.Tech (MECH)**
Subject Code : **ME3492** NBA Code : **C212** Title **HYDRALICS AND PNEUMATICS**
Faculty: Mr.S.Vinoth Kumar

Cos	CO Description	Attained Level	%
C212.1	apply the working principles of fluid power systems and hydraulic pumps.	2.54	84.67
C212.2	apply the working principles of hydraulic actuators and control components.	2.54	84.67
C212.3	design and develop hydraulic circuits and systems.	2.57	85.67
C212.4	apply the working principles of pneumatic circuits and power system and its components.	2.41	80.33
C212.5	identify various troubles shooting methods in fluid power systems.	2.48	82.67
C212.6	apply the principles of IOT in hydraulics and pneumatics for various applications.	2.52	84.00

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 61

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
246001	ME3492	3	2	2	2	2	3	20/09/2023	MECH	4
246002	ME3492	3	3	3	3	2	2	20/09/2023	MECH	4
246003	ME3492	3	3	3	2	3	3	20/09/2023	MECH	4
246004	ME3492	3	2	2	2	2	3	20/09/2023	MECH	4
246005	ME3492	3	3	2	3	2	2	20/09/2023	MECH	4
246006	ME3492	2	3	2	2	3	3	20/09/2023	MECH	4
246007	ME3492	3	3	2	3	2	2	20/09/2023	MECH	4
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246017	ME3492	3	2	2	2	3	2	20/09/2023	MECH	4
246018	ME3492	2	3	3	2	2	3	20/09/2023	MECH	4
246019	ME3492	2	3	2	3	3	3	20/09/2023	MECH	4

246020	ME3492	2	2	3	2	3	3	20/09/2023	MECH	4
246021	ME3492	3	3	3	2	3	2	20/09/2023	MECH	4
246022	ME3492	2	3	3	2	2	3	20/09/2023	MECH	4
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246025	ME3492	3	3	2	2	3	3	20/09/2023	MECH	4
246026	ME3492	2	3	3	3	3	2	20/09/2023	MECH	4
246027	ME3492	2	2	3	2	3	3	20/09/2023	MECH	4
246028	ME3492	3	3	3	2	2	2	20/09/2023	MECH	4
246029	ME3492	3	3	3	2	2	2	20/09/2023	MECH	4
246030	ME3492	3	2	2	3	3	2	20/09/2023	MECH	4
246032	ME3492	2	3	2	2	2	2	20/09/2023	MECH	4
246033	ME3492	3	3	2	3	3	2	20/09/2023	MECH	4
246034	ME3492	3	2	2	2	3	3	20/09/2023	MECH	4
246035	ME3492	3	2	3	3	3	3	20/09/2023	MECH	4
246036	ME3492	3	3	3	2	2	2	20/09/2023	MECH	4
246037	ME3492	2	3	2	3	3	3	20/09/2023	MECH	4
246038	ME3492	3	2	3	3	2	2	20/09/2023	MECH	4
246039	ME3492	3	2	3	3	3	3	20/09/2023	MECH	4
246040	ME3492	3	2	3	2	3	2	20/09/2023	MECH	4
246041	ME3492	3	2	3	2	3	3	20/09/2023	MECH	4
246044	ME3492	2	2	3	3	3	3	20/09/2023	MECH	4
246045	ME3492	2	2	2	3	2	3	20/09/2023	MECH	4
246046	ME3492	2	3	3	2	3	2	20/09/2023	MECH	4
246047	ME3492	3	3	2	2	2	2	20/09/2023	MECH	4
246048	ME3492	2	2	3	2	3	3	20/09/2023	MECH	4
246049	ME3492	2	3	3	2	2	3	20/09/2023	MECH	4
246050	ME3492	3	2	3	2	3	3	20/09/2023	MECH	4
246051	ME3492	3	3	2	3	2	2	20/09/2023	MECH	4
246052	ME3492	2	3	3	2	2	2	20/09/2023	MECH	4
246053	ME3492	3	2	2	3	3	3	20/09/2023	MECH	4
246054	ME3492	2	3	3	2	2	2	20/09/2023	MECH	4
246055	ME3492	2	3	2	3	2	2	20/09/2023	MECH	4
246056	ME3492	3	3	2	3	2	3	20/09/2023	MECH	4
246057	ME3492	2	3	2	3	2	2	20/09/2023	MECH	4
246059	ME3492	3	2	3	2	3	2	20/09/2023	MECH	4
246060	ME3492	2	3	2	3	2	3	20/09/2023	MECH	4
246061	ME3492	3	2	3	2	2	3	20/09/2023	MECH	4
246062	ME3492	2	2	2	2	3	3	20/09/2023	MECH	4

246063	ME3492	2	2	3	3	3	2	20/09/2023	MECH	4
246064	ME3492	3	3	3	3	2	2	20/09/2023	MECH	4
246065	ME3492	2	3	3	2	2	3	20/09/2023	MECH	4
Attained Level		2.54	2.54	2.57	2.41	2.48	2.52			
%		84.67	84.67	85.67	80.33	82.67	84.00			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23EVEN** Semester : **4** Programme: **B.E/B.Tech (MECH)**
Subject Code : **ME3493** NBA Code : **C212** Title **MANUFACTURING TECHNOLOGY**
Faculty: Dr.M.R.Anantha Padmanaban

Cos	CO Description	Attained Level	%
C212.1	To study the concepts and basic mechanics of metal cutting and the factors affecting machinability	2.52	84.00
C212.2	To learn working of basic and advanced turning machines.	2.48	82.67
C212.3	To teach the basics of machine tools with reciprocating and rotating motions and abrasive finishing processes.	2.48	82.67
C212.4	To teach the basics of machine tools with reciprocating and rotating motions and abrasive finishing processes.	2.48	82.67
C212.5	To study the basic concepts of CNC of machine tools and constructional features of CNC.	2.52	84.00
C212.6	To study the basic concepts of CNC of machine tools and constructional features of CNC.	2.49	83.00

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 61

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
246001	ME3493	2	2	3	2	3	2	20/09/2023	MECH	4
246002	ME3493	2	2	3	2	2	3	20/09/2023	MECH	4
246003	ME3493	3	3	2	3	3	2	20/09/2023	MECH	4
246004	ME3493	3	2	3	3	2	2	20/09/2023	MECH	4
246005	ME3493	2	2	2	3	3	3	20/09/2023	MECH	4
246006	ME3493	3	2	2	2	2	3	20/09/2023	MECH	4
246007	ME3493	2	2	2	2	2	2	20/09/2023	MECH	4
246008	ME3493	2	3	3	2	3	3	20/09/2023	MECH	4
246009	ME3493	3	3	2	2	3	2	20/09/2023	MECH	4
246010	ME3493	2	3	2	2	2	3	20/09/2023	MECH	4
246011	ME3493	3	2	3	2	3	3	20/09/2023	MECH	4
246012	ME3493	3	2	3	2	3	3	20/09/2023	MECH	4
246013	ME3493	2	3	3	3	2	2	20/09/2023	MECH	4
246014	ME3493	2	3	2	3	2	2	20/09/2023	MECH	4
246015	ME3493	3	2	3	3	3	3	20/09/2023	MECH	4
246016	ME3493	2	2	3	3	3	3	20/09/2023	MECH	4
246017	ME3493	3	3	3	3	3	3	20/09/2023	MECH	4

246018	ME3493	3	2	3	2	3	3	20/09/2023	MECH	4
246019	ME3493	2	2	2	2	3	2	20/09/2023	MECH	4
246020	ME3493	2	3	3	3	2	2	20/09/2023	MECH	4
246021	ME3493	3	2	2	3	2	3	20/09/2023	MECH	4
246022	ME3493	3	2	3	3	2	3	20/09/2023	MECH	4
246023	ME3493	3	3	2	3	3	3	20/09/2023	MECH	4
246024	ME3493	2	2	3	2	2	2	20/09/2023	MECH	4
246025	ME3493	3	3	2	2	2	3	20/09/2023	MECH	4
246026	ME3493	3	3	3	2	2	3	20/09/2023	MECH	4
246027	ME3493	2	2	2	2	3	2	20/09/2023	MECH	4
246028	ME3493	3	2	3	2	2	3	20/09/2023	MECH	4
246029	ME3493	2	2	2	2	3	2	20/09/2023	MECH	4
246030	ME3493	3	3	3	3	2	2	20/09/2023	MECH	4
246032	ME3493	2	3	3	3	3	3	20/09/2023	MECH	4
246033	ME3493	3	3	3	2	2	3	20/09/2023	MECH	4
246034	ME3493	3	2	2	3	3	2	20/09/2023	MECH	4
246035	ME3493	2	3	2	2	3	2	20/09/2023	MECH	4
246036	ME3493	3	3	2	3	3	2	20/09/2023	MECH	4
246037	ME3493	2	2	3	2	2	3	20/09/2023	MECH	4
246038	ME3493	3	3	2	3	3	2	20/09/2023	MECH	4
246039	ME3493	2	3	3	3	3	3	20/09/2023	MECH	4
246040	ME3493	2	3	2	3	2	3	20/09/2023	MECH	4
246041	ME3493	2	3	2	3	2	3	20/09/2023	MECH	4
246044	ME3493	2	3	2	2	3	2	20/09/2023	MECH	4
246045	ME3493	2	3	3	3	2	3	20/09/2023	MECH	4
246046	ME3493	3	2	3	3	2	3	20/09/2023	MECH	4
246047	ME3493	2	2	3	3	2	2	20/09/2023	MECH	4
246048	ME3493	2	2	2	2	3	2	20/09/2023	MECH	4
246049	ME3493	2	2	2	2	3	2	20/09/2023	MECH	4
246050	ME3493	3	3	3	3	2	2	20/09/2023	MECH	4
246051	ME3493	3	3	2	2	2	2	20/09/2023	MECH	4
246052	ME3493	3	2	2	3	2	3	20/09/2023	MECH	4
246053	ME3493	3	2	2	2	3	2	20/09/2023	MECH	4
246054	ME3493	3	2	3	2	3	2	20/09/2023	MECH	4
246055	ME3493	2	2	2	3	2	2	20/09/2023	MECH	4
246056	ME3493	3	3	2	3	3	3	20/09/2023	MECH	4
246057	ME3493	2	3	3	2	2	2	20/09/2023	MECH	4
246059	ME3493	3	3	3	3	3	2	20/09/2023	MECH	4
246060	ME3493	3	2	3	3	3	2	20/09/2023	MECH	4

246061	ME3493	2	3	2	2	3	3	20/09/2023	MECH	4
246062	ME3493	3	2	2	2	3	2	20/09/2023	MECH	4
246063	ME3493	2	2	2	2	3	3	20/09/2023	MECH	4
246064	ME3493	3	2	2	2	2	3	20/09/2023	MECH	4
246065	ME3493	3	3	2	2	2	2	20/09/2023	MECH	4
Attained Level		2.52	2.48	2.48	2.48	2.52	2.49			
%		84.00	82.67	82.67	82.67	84.00	83.00			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23EVEN** Semester : **6** Programme: **B.E/B.Tech (MECH)**
Subject Code : **ME8651** NBA Code : **C309** Title **DESIGN OF TRANSMISSION SYSTEMS**
Faculty: Mr.R.Suresh Babu

Cos	CO Description	Attained Level	%
C309.1	Understand the basic concepts of transmission systems.	2.52	84.00
C309.2	Able to design flexible transmission components used in Engine and machines.	2.47	82.33
C309.3	Able to design spur gears and Helical gears used in Engine and machines.	2.42	80.67
C309.4	Able to design Bevel gears and worm gears used in Engine and machines.	2.45	81.67
C309.5	Understand the function of a gear box and its components and able to design gear boxes.	2.47	82.33
C309.6	Able to design cam, clutches and brakes for transmission system.	2.4	80.00

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 77

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
236001	ME8651	2	2	3	3	3	2	20/09/2023	MECH	6
236002	ME8651	3	3	2	2	3	2	20/09/2023	MECH	6
236003	ME8651	2	3	2	3	2	3	20/09/2023	MECH	6
236004	ME8651	3	3	2	3	2	3	20/09/2023	MECH	6
236005	ME8651	3	2	2	2	2	2	20/09/2023	MECH	6
236006	ME8651	3	3	3	2	3	2	20/09/2023	MECH	6
236007	ME8651	3	3	2	2	3	3	20/09/2023	MECH	6
236008	ME8651	2	2	3	3	2	2	20/09/2023	MECH	6
236009	ME8651	2	2	3	2	3	2	20/09/2023	MECH	6
236010	ME8651	3	3	2	3	2	3	20/09/2023	MECH	6
236011	ME8651	3	3	3	2	3	3	20/09/2023	MECH	6
236012	ME8651	3	2	2	2	3	2	20/09/2023	MECH	6
236013	ME8651	2	2	3	2	2	2	20/09/2023	MECH	6
236014	ME8651	3	3	2	3	3	2	20/09/2023	MECH	6
236015	ME8651	2	2	2	3	3	2	20/09/2023	MECH	6
236017	ME8651	2	3	2	3	2	3	20/09/2023	MECH	6
236018	ME8651	2	3	3	3	2	3	20/09/2023	MECH	6
236019	ME8651	2	2	2	3	2	2	20/09/2023	MECH	6
236020	ME8651	2	2	3	2	3	2	20/09/2023	MECH	6

236021	ME8651	3	2	3	2	2	2	20/09/2023	MECH	6
236022	ME8651	3	3	2	3	2	2	20/09/2023	MECH	6
236023	ME8651	3	2	2	3	3	3	20/09/2023	MECH	6
236024	ME8651	2	2	2	3	3	3	20/09/2023	MECH	6
236025	ME8651	2	3	3	2	2	2	20/09/2023	MECH	6
236026	ME8651	2	2	2	2	3	3	20/09/2023	MECH	6
236027	ME8651	3	3	3	3	3	2	20/09/2023	MECH	6
236028	ME8651	2	2	2	2	2	2	20/09/2023	MECH	6
236029	ME8651	3	2	3	3	3	2	20/09/2023	MECH	6
236030	ME8651	3	2	2	3	2	2	20/09/2023	MECH	6
236031	ME8651	2	3	3	2	3	2	20/09/2023	MECH	6
236032	ME8651	3	3	2	3	2	2	20/09/2023	MECH	6
236033	ME8651	3	2	2	2	2	2	20/09/2023	MECH	6
236034	ME8651	3	2	2	2	3	2	20/09/2023	MECH	6
236035	ME8651	3	3	2	2	3	2	20/09/2023	MECH	6
236036	ME8651	3	2	3	2	2	2	20/09/2023	MECH	6
236037	ME8651	2	2	3	2	2	3	20/09/2023	MECH	6
236038	ME8651	3	3	3	2	2	3	20/09/2023	MECH	6
236039	ME8651	3	3	3	2	2	2	20/09/2023	MECH	6
236040	ME8651	2	2	3	2	2	3	20/09/2023	MECH	6
236041	ME8651	2	3	3	3	2	3	20/09/2023	MECH	6
236042	ME8651	3	2	3	2	3	2	20/09/2023	MECH	6
236043	ME8651	2	2	2	3	2	3	20/09/2023	MECH	6
236044	ME8651	2	2	3	2	2	2	20/09/2023	MECH	6
236045	ME8651	2	2	2	2	3	2	20/09/2023	MECH	6
236046	ME8651	2	3	2	3	2	3	20/09/2023	MECH	6
236047	ME8651	2	2	2	3	2	2	20/09/2023	MECH	6
236049	ME8651	2	3	2	3	3	3	20/09/2023	MECH	6
236050	ME8651	3	3	2	2	2	3	20/09/2023	MECH	6
236051	ME8651	3	3	2	2	2	3	20/09/2023	MECH	6
236052	ME8651	3	2	3	3	3	2	20/09/2023	MECH	6
236053	ME8651	3	3	3	2	3	3	20/09/2023	MECH	6
236054	ME8651	3	2	2	3	3	2	20/09/2023	MECH	6
236055	ME8651	3	2	3	3	3	3	20/09/2023	MECH	6
236056	ME8651	2	2	2	3	2	2	20/09/2023	MECH	6
236057	ME8651	2	2	2	2	3	3	20/09/2023	MECH	6
236058	ME8651	2	2	2	3	2	2	20/09/2023	MECH	6
236059	ME8651	2	3	3	2	2	2	20/09/2023	MECH	6
236060	ME8651	3	3	3	2	2	2	20/09/2023	MECH	6

236061	ME8651	3	2	2	2	3	3	20/09/2023	MECH	6
236062	ME8651	3	2	3	2	3	2	20/09/2023	MECH	6
236063	ME8651	3	2	2	3	3	2	20/09/2023	MECH	6
236064	ME8651	3	2	2	3	2	2	20/09/2023	MECH	6
236065	ME8651	2	3	2	2	3	2	20/09/2023	MECH	6
236066	ME8651	2	2	2	3	2	2	20/09/2023	MECH	6
236067	ME8651	3	3	2	2	3	3	20/09/2023	MECH	6
236068	ME8651	3	3	2	2	3	3	20/09/2023	MECH	6
236069	ME8651	2	2	3	2	2	2	20/09/2023	MECH	6
236070	ME8651	2	3	3	2	2	2	20/09/2023	MECH	6
236071	ME8651	3	3	2	2	3	3	20/09/2023	MECH	6
236072	ME8651	2	2	2	3	2	3	20/09/2023	MECH	6
236073	ME8651	2	2	3	2	3	2	20/09/2023	MECH	6
236074	ME8651	3	3	3	3	2	2	20/09/2023	MECH	6
236075	ME8651	2	3	2	2	2	3	20/09/2023	MECH	6
236076	ME8651	3	3	3	3	3	3	20/09/2023	MECH	6
236077	ME8651	3	3	2	2	3	2	20/09/2023	MECH	6
236078	ME8651	2	3	2	3	2	3	20/09/2023	MECH	6
236079	ME8651	2	2	2	3	2	3	20/09/2023	MECH	6
Attained Level		2.52	2.47	2.42	2.45	2.47	2.4			
%		84.00	82.33	80.67	81.67	82.33	80.00			

Saranathan College of Engineering
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Course End Survey - Consolidated Report

Academic Year : **2022-23EVEN** Semester : **6** Programme: **B.E/B.Tech (MECH)**
Subject Code : **ME8691** NBA Code : **C310** Title **COMPUTER AIDED DESIGN AND MANUFACTURING**
Faculty: Dr.S.Karthikeyan

Cos	CO Description	Attained Level	%
C310.1	Describe the product life cycle and design process and the role of CAD/CAM in it.	2.45	81.67
C310.2	Distinguish the various geometric modeling concepts and techniques in CAD.	2.36	78.67
C310.3	Choose the appropriate CAD standards in neutral file format and transfer.	2.53	84.33
C310.4	Formulate the G codes and M codes for Milling and Turning CNC part programming.	2.42	80.67
C310.5	Identify the group technology concepts and the coding schemes in it.	2.52	84.00
C310.6	Describe the formation of FMS and perform quantitative analysis in it.	2.45	81.67

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 77

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
236001	ME8691	2	2	3	2	2	3	20/09/2023	MECH	6
236002	ME8691	3	2	2	2	2	3	20/09/2023	MECH	6
236003	ME8691	3	2	3	3	3	2	20/09/2023	MECH	6
236004	ME8691	2	3	2	2	3	2	20/09/2023	MECH	6
236005	ME8691	3	2	3	2	2	2	20/09/2023	MECH	6
236006	ME8691	2	2	3	3	2	2	20/09/2023	MECH	6
236007	ME8691	2	3	2	2	2	2	20/09/2023	MECH	6
236008	ME8691	3	2	2	3	2	2	20/09/2023	MECH	6
236009	ME8691	2	3	3	2	2	3	20/09/2023	MECH	6
236010	ME8691	2	2	2	2	2	3	20/09/2023	MECH	6
236011	ME8691	3	3	2	3	3	3	20/09/2023	MECH	6
236012	ME8691	2	3	3	3	2	2	20/09/2023	MECH	6
236013	ME8691	3	3	3	3	3	2	20/09/2023	MECH	6
236014	ME8691	2	3	3	2	3	3	20/09/2023	MECH	6
236015	ME8691	2	3	2	2	2	3	20/09/2023	MECH	6
236017	ME8691	3	2	2	2	2	3	20/09/2023	MECH	6
236018	ME8691	3	3	3	2	3	2	20/09/2023	MECH	6
236019	ME8691	2	3	2	2	2	2	20/09/2023	MECH	6

236020	ME8691	3	2	2	2	3	3	20/09/2023	MECH	6
236021	ME8691	2	3	2	3	2	3	20/09/2023	MECH	6
236022	ME8691	2	2	3	2	2	2	20/09/2023	MECH	6
236023	ME8691	2	3	2	3	3	3	20/09/2023	MECH	6
236024	ME8691	2	2	3	2	3	3	20/09/2023	MECH	6
236025	ME8691	3	2	2	2	2	3	20/09/2023	MECH	6
236026	ME8691	3	2	2	3	3	2	20/09/2023	MECH	6
236027	ME8691	3	2	3	3	2	3	20/09/2023	MECH	6
236028	ME8691	3	2	2	3	3	3	20/09/2023	MECH	6
236029	ME8691	3	2	3	3	2	2	20/09/2023	MECH	6
236030	ME8691	3	3	3	2	3	3	20/09/2023	MECH	6
236031	ME8691	3	3	2	3	3	2	20/09/2023	MECH	6
236032	ME8691	3	3	3	2	2	2	20/09/2023	MECH	6
236033	ME8691	3	2	3	2	3	2	20/09/2023	MECH	6
236034	ME8691	3	2	2	3	2	3	20/09/2023	MECH	6
236035	ME8691	2	2	3	2	2	3	20/09/2023	MECH	6
236036	ME8691	3	2	2	3	2	2	20/09/2023	MECH	6
236037	ME8691	2	3	2	2	3	2	20/09/2023	MECH	6
236038	ME8691	3	2	2	3	3	2	20/09/2023	MECH	6
236039	ME8691	3	2	2	2	2	2	20/09/2023	MECH	6
236040	ME8691	2	3	2	2	3	3	20/09/2023	MECH	6
236041	ME8691	3	3	3	3	2	3	20/09/2023	MECH	6
236042	ME8691	2	3	3	3	2	3	20/09/2023	MECH	6
236043	ME8691	2	2	3	3	3	2	20/09/2023	MECH	6
236044	ME8691	2	2	3	2	2	2	20/09/2023	MECH	6
236045	ME8691	3	2	3	2	2	2	20/09/2023	MECH	6
236046	ME8691	2	3	2	2	3	3	20/09/2023	MECH	6
236047	ME8691	3	2	2	2	3	2	20/09/2023	MECH	6
236049	ME8691	2	2	3	2	3	3	20/09/2023	MECH	6
236050	ME8691	2	3	3	3	2	2	20/09/2023	MECH	6
236051	ME8691	2	3	2	3	2	2	20/09/2023	MECH	6
236052	ME8691	3	3	3	2	2	2	20/09/2023	MECH	6
236053	ME8691	3	2	3	3	3	2	20/09/2023	MECH	6
236054	ME8691	2	2	2	2	2	2	20/09/2023	MECH	6
236055	ME8691	2	2	3	3	3	2	20/09/2023	MECH	6
236056	ME8691	3	2	3	2	3	3	20/09/2023	MECH	6
236057	ME8691	3	2	3	3	2	3	20/09/2023	MECH	6
236058	ME8691	2	3	2	3	2	3	20/09/2023	MECH	6
236059	ME8691	2	2	2	2	2	3	20/09/2023	MECH	6

236060	ME8691	2	2	2	2	3	2	20/09/2023	MECH	6
236061	ME8691	2	2	3	3	3	2	20/09/2023	MECH	6
236062	ME8691	2	2	2	2	3	3	20/09/2023	MECH	6
236063	ME8691	2	2	3	3	3	2	20/09/2023	MECH	6
236064	ME8691	2	2	2	2	3	3	20/09/2023	MECH	6
236065	ME8691	2	3	2	3	3	2	20/09/2023	MECH	6
236066	ME8691	2	3	2	2	3	2	20/09/2023	MECH	6
236067	ME8691	3	2	3	2	3	2	20/09/2023	MECH	6
236068	ME8691	3	2	3	3	2	2	20/09/2023	MECH	6
236069	ME8691	2	2	3	3	3	3	20/09/2023	MECH	6
236070	ME8691	3	2	3	2	2	2	20/09/2023	MECH	6
236071	ME8691	3	3	2	2	3	3	20/09/2023	MECH	6
236072	ME8691	3	2	3	2	3	3	20/09/2023	MECH	6
236073	ME8691	2	2	2	2	3	2	20/09/2023	MECH	6
236074	ME8691	2	2	2	2	2	2	20/09/2023	MECH	6
236075	ME8691	2	2	3	3	3	3	20/09/2023	MECH	6
236076	ME8691	2	3	3	2	3	3	20/09/2023	MECH	6
236077	ME8691	3	2	3	3	2	3	20/09/2023	MECH	6
236078	ME8691	2	2	3	2	3	2	20/09/2023	MECH	6
236079	ME8691	2	2	3	2	3	2	20/09/2023	MECH	6
Attained Level		2.45	2.36	2.53	2.42	2.52	2.45			
%		81.67	78.67	84.33	80.67	84.00	81.67			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23EVEN** Semester : **6** Programme: **B.E/B.Tech (MECH)**
Subject Code : **ME8692** NBA Code : **C312** Title **FINITE ELEMENT ANALYSIS**
Faculty: Dr.N.Baskar

Cos	CO Description	Attained Level	%
C312.1	understand the principles and concepts of Finite Element Methods.	2.49	83.00
C312.2	implement the Finite Element Methods for simple 1-D problems such as Solid Mechanics, Heat Transfer and Vibration.	2.43	81.00
C312.3	appraise the second order 2-D equations involving Scalar Variable Functions.	2.52	84.00
C312.4	describe the application of field problems such as Thermal, Torsion and Higher Order Elements.	2.52	84.00
C312.5	exposure the 2-D Vector Variable Problems, Plane Stress, Plane Strain and Axi-Symmetric Elements.	2.49	83.00
C312.6	learn the Isoparametric Elements for 1-D and 2-D Problems and Solution techniques to Dynamic Problems.	2.7	90.00

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 77

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
236001	ME8692	3	2	3	3	3	2	20/09/2023	MECH	6
236002	ME8692	3	3	2	3	2	3	20/09/2023	MECH	6
236003	ME8692	2	3	2	2	3	2	20/09/2023	MECH	6
236004	ME8692	2	2	2	2	2	3	20/09/2023	MECH	6
236005	ME8692	3	3	3	3	3	2	20/09/2023	MECH	6
236006	ME8692	2	2	2	2	2	2	20/09/2023	MECH	6
236007	ME8692	3	3	3	3	2	3	20/09/2023	MECH	6
236008	ME8692	3	3	3	3	3	3	20/09/2023	MECH	6
236009	ME8692	2	2	3	3	2	3	20/09/2023	MECH	6
236010	ME8692	2	2	3	2	2	2	20/09/2023	MECH	6
236011	ME8692	2	2	2	2	2	3	20/09/2023	MECH	6
236012	ME8692	2	2	3	3	3	3	20/09/2023	MECH	6
236013	ME8692	2	2	2	3	3	2	20/09/2023	MECH	6
236014	ME8692	3	2	3	2	2	3	20/09/2023	MECH	6
236015	ME8692	3	2	3	3	3	3	20/09/2023	MECH	6
236017	ME8692	3	2	3	3	3	3	20/09/2023	MECH	6
236018	ME8692	3	2	2	2	2	3	20/09/2023	MECH	6
236019	ME8692	3	3	3	3	2	3	20/09/2023	MECH	6

236020	ME8692	2	3	3	3	3	3	20/09/2023	MECH	6
236021	ME8692	2	2	3	3	2	2	20/09/2023	MECH	6
236022	ME8692	2	2	3	2	3	3	20/09/2023	MECH	6
236023	ME8692	2	3	2	3	3	2	20/09/2023	MECH	6
236024	ME8692	3	2	2	2	2	2	20/09/2023	MECH	6
236025	ME8692	3	2	2	3	3	3	20/09/2023	MECH	6
236026	ME8692	2	2	2	2	2	3	20/09/2023	MECH	6
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236028	ME8692	2	2	3	2	2	3	20/09/2023	MECH	6
236029	ME8692	2	3	2	2	2	2	20/09/2023	MECH	6
236030	ME8692	3	2	2	3	2	3	20/09/2023	MECH	6
236031	ME8692	2	3	2	2	2	2	20/09/2023	MECH	6
236032	ME8692	2	2	2	3	2	3	20/09/2023	MECH	6
236033	ME8692	2	2	3	2	3	3	20/09/2023	MECH	6
236034	ME8692	2	2	2	2	3	3	20/09/2023	MECH	6
236035	ME8692	3	2	2	3	3	3	20/09/2023	MECH	6
236036	ME8692	3	2	3	3	3	3	20/09/2023	MECH	6
236037	ME8692	2	2	3	3	3	3	20/09/2023	MECH	6
236038	ME8692	3	3	2	3	2	3	20/09/2023	MECH	6
236039	ME8692	3	2	2	2	3	3	20/09/2023	MECH	6
236040	ME8692	2	2	2	2	3	2	20/09/2023	MECH	6
236041	ME8692	3	3	2	3	3	2	20/09/2023	MECH	6
236042	ME8692	2	2	3	2	3	3	20/09/2023	MECH	6
236043	ME8692	3	2	3	2	3	3	20/09/2023	MECH	6
236044	ME8692	2	3	3	2	2	3	20/09/2023	MECH	6
236045	ME8692	2	3	2	3	2	3	20/09/2023	MECH	6
236046	ME8692	3	3	2	3	3	3	20/09/2023	MECH	6
236047	ME8692	3	2	3	3	3	3	20/09/2023	MECH	6
236049	ME8692	2	2	3	3	2	3	20/09/2023	MECH	6
236050	ME8692	3	3	3	3	3	3	20/09/2023	MECH	6
236051	ME8692	3	3	3	2	3	3	20/09/2023	MECH	6
236052	ME8692	3	2	3	3	2	3	20/09/2023	MECH	6
236053	ME8692	2	2	3	2	3	3	20/09/2023	MECH	6
236054	ME8692	3	3	2	2	2	2	20/09/2023	MECH	6
236055	ME8692	3	3	3	2	3	3	20/09/2023	MECH	6
236056	ME8692	2	3	3	2	2	3	20/09/2023	MECH	6
236057	ME8692	2	2	3	3	3	3	20/09/2023	MECH	6
236058	ME8692	3	2	3	3	2	3	20/09/2023	MECH	6
236059	ME8692	2	2	2	2	2	2	20/09/2023	MECH	6

236060	ME8692	2	2	3	3	2	2	20/09/2023	MECH	6
236061	ME8692	3	3	3	3	2	2	20/09/2023	MECH	6
236062	ME8692	2	3	3	2	2	2	20/09/2023	MECH	6
236063	ME8692	3	2	2	2	2	3	20/09/2023	MECH	6
236064	ME8692	2	3	2	2	2	3	20/09/2023	MECH	6
236065	ME8692	2	2	2	2	2	3	20/09/2023	MECH	6
236066	ME8692	3	2	2	2	2	3	20/09/2023	MECH	6
236067	ME8692	2	3	3	3	3	3	20/09/2023	MECH	6
236068	ME8692	3	2	3	3	2	2	20/09/2023	MECH	6
236069	ME8692	3	2	2	2	3	3	20/09/2023	MECH	6
236070	ME8692	3	3	2	3	3	2	20/09/2023	MECH	6
236071	ME8692	2	3	3	2	3	3	20/09/2023	MECH	6
236072	ME8692	3	2	2	2	3	3	20/09/2023	MECH	6
236073	ME8692	2	3	2	2	3	3	20/09/2023	MECH	6
236074	ME8692	3	3	3	3	3	3	20/09/2023	MECH	6
236075	ME8692	3	3	2	3	2	2	20/09/2023	MECH	6
236076	ME8692	2	3	3	3	3	3	20/09/2023	MECH	6
236077	ME8692	2	3	2	2	3	2	20/09/2023	MECH	6
236078	ME8692	2	3	2	3	2	3	20/09/2023	MECH	6
236079	ME8692	3	3	3	2	2	3	20/09/2023	MECH	6
Attained Level		2.49	2.43	2.52	2.52	2.49	2.7			
%		83.00	81.00	84.00	84.00	83.00	90.00			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23EVEN** Semester : **6** Programme: **B.E/B.Tech (MECH)**
Subject Code : **ME8693** NBA Code : **311** Title **HEAT AND MASS TRANSFER**
Faculty: Mr.M.Sriram Prasanth

Cos	CO Description	Attained Level	%
311.1	Students will be able to understand the mechanism of steady state conduction in Cartesian and polar coordinates	2.49	83.00
311.2	Students will be able to evaluate transient heat conduction for lumped analysis, semi-infinite and finite surfaces	2.48	82.67
311.3	Students will be able to understand both free and forced convective heat transfer on plates, cylinder and sphere	2.44	81.33
311.4	Students will be able to analyze the heat transfer concepts in phase changing process and able to design and evaluate the performance of heat exchangers	2.62	87.33
311.5	Students will be able to understand and evaluate the radiation heat transfer in various applications	2.58	86.00
311.6	Students will be able to apply mass diffusion concepts in several applications	2.49	83.00

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 77

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
236001	ME8693	2	2	3	2	2	3	20/09/2023	MECH	6
236002	ME8693	3	3	3	2	3	3	20/09/2023	MECH	6
236003	ME8693	3	2	3	3	3	3	20/09/2023	MECH	6
236004	ME8693	2	2	2	3	3	2	20/09/2023	MECH	6
236005	ME8693	2	2	2	3	3	2	20/09/2023	MECH	6
236006	ME8693	3	3	2	3	2	2	20/09/2023	MECH	6
236007	ME8693	3	3	2	2	2	2	20/09/2023	MECH	6
236008	ME8693	3	2	2	3	3	3	20/09/2023	MECH	6
236009	ME8693	2	3	2	2	2	2	20/09/2023	MECH	6
236010	ME8693	3	3	3	2	3	3	20/09/2023	MECH	6
236011	ME8693	2	2	3	2	2	3	20/09/2023	MECH	6
236012	ME8693	2	2	2	3	3	2	20/09/2023	MECH	6
236013	ME8693	3	3	2	2	3	3	20/09/2023	MECH	6
236014	ME8693	2	3	3	2	2	2	20/09/2023	MECH	6
236015	ME8693	3	2	2	3	3	2	20/09/2023	MECH	6
236017	ME8693	2	2	2	3	3	3	20/09/2023	MECH	6
236018	ME8693	2	2	2	2	2	3	20/09/2023	MECH	6

236019	ME8693	3	2	3	2	3	2	20/09/2023	MECH	6
236020	ME8693	3	3	2	3	2	2	20/09/2023	MECH	6
236021	ME8693	3	3	2	3	2	3	20/09/2023	MECH	6
236022	ME8693	3	2	3	2	2	3	20/09/2023	MECH	6
236023	ME8693	3	2	2	3	3	2	20/09/2023	MECH	6
236024	ME8693	2	3	2	3	3	3	20/09/2023	MECH	6
236025	ME8693	2	3	3	3	3	2	20/09/2023	MECH	6
236026	ME8693	2	2	2	3	3	3	20/09/2023	MECH	6
236027	ME8693	3	2	3	3	3	3	20/09/2023	MECH	6
236028	ME8693	2	3	2	3	3	2	20/09/2023	MECH	6
236029	ME8693	2	2	3	2	2	2	20/09/2023	MECH	6
236030	ME8693	3	2	3	2	2	3	20/09/2023	MECH	6
236031	ME8693	2	3	3	3	2	3	20/09/2023	MECH	6
236032	ME8693	3	2	2	3	3	2	20/09/2023	MECH	6
236033	ME8693	2	3	3	2	2	2	20/09/2023	MECH	6
236034	ME8693	3	3	2	2	3	3	20/09/2023	MECH	6
236035	ME8693	2	3	2	3	3	3	20/09/2023	MECH	6
236036	ME8693	3	3	3	2	3	3	20/09/2023	MECH	6
236037	ME8693	3	2	2	3	2	2	20/09/2023	MECH	6
236038	ME8693	2	2	2	2	3	2	20/09/2023	MECH	6
236039	ME8693	2	3	3	3	3	2	20/09/2023	MECH	6
236040	ME8693	2	3	3	3	2	3	20/09/2023	MECH	6
236041	ME8693	3	2	2	2	3	2	20/09/2023	MECH	6
236042	ME8693	3	3	2	3	2	2	20/09/2023	MECH	6
236043	ME8693	3	2	2	2	3	3	20/09/2023	MECH	6
236044	ME8693	3	3	3	2	2	3	20/09/2023	MECH	6
236045	ME8693	2	2	2	3	2	3	20/09/2023	MECH	6
236046	ME8693	3	2	3	3	2	3	20/09/2023	MECH	6
236047	ME8693	3	2	2	2	3	3	20/09/2023	MECH	6
236049	ME8693	3	3	2	3	3	2	20/09/2023	MECH	6
236050	ME8693	2	2	3	3	3	2	20/09/2023	MECH	6
236051	ME8693	2	3	3	3	3	2	20/09/2023	MECH	6
236052	ME8693	3	3	2	2	2	2	20/09/2023	MECH	6
236053	ME8693	3	3	3	2	2	2	20/09/2023	MECH	6
236054	ME8693	2	2	3	3	3	2	20/09/2023	MECH	6
236055	ME8693	3	2	2	3	3	3	20/09/2023	MECH	6
236056	ME8693	3	2	2	3	2	2	20/09/2023	MECH	6
236057	ME8693	2	3	2	3	2	3	20/09/2023	MECH	6
236058	ME8693	3	3	2	3	2	2	20/09/2023	MECH	6

236059	ME8693	2	2	3	3	3	3	20/09/2023	MECH	6
236060	ME8693	2	3	2	2	2	3	20/09/2023	MECH	6
236061	ME8693	2	3	3	3	2	2	20/09/2023	MECH	6
236062	ME8693	3	2	2	3	3	3	20/09/2023	MECH	6
236063	ME8693	3	2	2	2	2	2	20/09/2023	MECH	6
236064	ME8693	3	3	2	3	3	2	20/09/2023	MECH	6
236065	ME8693	3	2	2	2	3	3	20/09/2023	MECH	6
236066	ME8693	2	2	3	3	2	2	20/09/2023	MECH	6
236067	ME8693	2	2	2	3	2	2	20/09/2023	MECH	6
236068	ME8693	2	2	2	3	3	3	20/09/2023	MECH	6
236069	ME8693	2	3	3	2	3	3	20/09/2023	MECH	6
236070	ME8693	2	3	3	3	2	3	20/09/2023	MECH	6
236071	ME8693	3	3	3	2	3	2	20/09/2023	MECH	6
236072	ME8693	2	3	3	3	3	3	20/09/2023	MECH	6
236073	ME8693	2	3	3	3	3	2	20/09/2023	MECH	6
236074	ME8693	2	3	3	3	3	3	20/09/2023	MECH	6
236075	ME8693	3	2	2	2	3	2	20/09/2023	MECH	6
236076	ME8693	2	2	2	3	3	2	20/09/2023	MECH	6
236077	ME8693	2	2	3	3	3	2	20/09/2023	MECH	6
236078	ME8693	3	3	2	3	2	3	20/09/2023	MECH	6
236079	ME8693	2	2	3	3	3	3	20/09/2023	MECH	6
Attained Level		2.49	2.48	2.44	2.62	2.58	2.49			
%		83.00	82.67	81.33	87.33	86.00	83.00			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23EVEN** Semester : **6** Programme: **B.E/B.Tech (MECH)**
Subject Code : **ME8694** NBA Code : **C313** Title **HYDRAULICS AND PNEUMATICS**
Faculty: Mr.P.Jothi Palavasam

Cos	CO Description	Attained Level	%
C313.1	Explain the fluid power and operation of different types of pumps	2.51	83.67
C313.2	Summarize the features and functions of hydraulic motors,actuators and flow control valves	2.52	84.00
C313.3	Explain the different types of hydraulic circuits and systems	2.49	83.00
C313.4	Explain the working of different pneumatic circuits and systems	2.42	80.67
C313.5	Summarize the various trouble shooting methods and application of hydraulic and pneumatic sytems	2.57	85.67
C313.6	Design of hydraulic and pneumatic circuits for various applications	2.51	83.67

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 77

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
236001	ME8694	2	3	3	3	3	3	20/09/2023	MECH	6
236002	ME8694	2	3	3	3	3	3	20/09/2023	MECH	6
236003	ME8694	3	2	2	3	3	3	20/09/2023	MECH	6
236004	ME8694	3	2	3	2	2	3	20/09/2023	MECH	6
236005	ME8694	3	2	2	3	3	2	20/09/2023	MECH	6
236006	ME8694	2	3	2	2	2	2	20/09/2023	MECH	6
236007	ME8694	2	2	3	2	2	3	20/09/2023	MECH	6
236008	ME8694	3	3	3	2	3	3	20/09/2023	MECH	6
236009	ME8694	2	2	2	3	3	2	20/09/2023	MECH	6
236010	ME8694	2	3	3	3	3	2	20/09/2023	MECH	6
236011	ME8694	2	2	2	3	3	2	20/09/2023	MECH	6
236012	ME8694	3	3	2	3	3	3	20/09/2023	MECH	6
236013	ME8694	2	2	2	2	2	2	20/09/2023	MECH	6
236014	ME8694	3	3	3	2	3	3	20/09/2023	MECH	6
236015	ME8694	3	2	2	2	3	3	20/09/2023	MECH	6
236017	ME8694	3	3	2	3	2	2	20/09/2023	MECH	6
236018	ME8694	2	2	3	3	3	2	20/09/2023	MECH	6
236019	ME8694	2	2	2	3	2	2	20/09/2023	MECH	6
236020	ME8694	3	3	3	3	3	2	20/09/2023	MECH	6

236021	ME8694	3	2	2	3	3	3	20/09/2023	MECH	6
236022	ME8694	3	3	2	3	3	3	20/09/2023	MECH	6
236023	ME8694	2	2	2	2	3	2	20/09/2023	MECH	6
236024	ME8694	3	3	3	2	3	3	20/09/2023	MECH	6
236025	ME8694	2	3	2	2	2	2	20/09/2023	MECH	6
236026	ME8694	3	3	2	2	2	2	20/09/2023	MECH	6
236027	ME8694	3	3	2	2	3	3	20/09/2023	MECH	6
236028	ME8694	3	2	3	2	2	2	20/09/2023	MECH	6
236029	ME8694	2	3	3	3	3	2	20/09/2023	MECH	6
236030	ME8694	3	3	3	3	3	3	20/09/2023	MECH	6
236031	ME8694	2	3	3	2	2	3	20/09/2023	MECH	6
236032	ME8694	2	2	3	2	2	2	20/09/2023	MECH	6
236033	ME8694	3	3	2	2	3	3	20/09/2023	MECH	6
236034	ME8694	3	2	2	3	3	3	20/09/2023	MECH	6
236035	ME8694	3	3	3	3	2	2	20/09/2023	MECH	6
236036	ME8694	2	2	2	3	2	3	20/09/2023	MECH	6
236037	ME8694	2	3	3	3	3	2	20/09/2023	MECH	6
236038	ME8694	2	3	2	3	2	3	20/09/2023	MECH	6
236039	ME8694	2	3	2	2	3	3	20/09/2023	MECH	6
236040	ME8694	2	2	2	2	3	3	20/09/2023	MECH	6
236041	ME8694	3	3	3	2	2	3	20/09/2023	MECH	6
236042	ME8694	2	2	3	2	2	2	20/09/2023	MECH	6
236043	ME8694	3	3	2	3	2	2	20/09/2023	MECH	6
236044	ME8694	2	3	3	3	2	3	20/09/2023	MECH	6
236045	ME8694	3	2	2	3	2	3	20/09/2023	MECH	6
236046	ME8694	3	3	2	3	3	2	20/09/2023	MECH	6
236047	ME8694	2	3	2	2	3	2	20/09/2023	MECH	6
236049	ME8694	3	3	2	3	2	2	20/09/2023	MECH	6
236050	ME8694	3	2	2	2	2	3	20/09/2023	MECH	6
236051	ME8694	2	2	3	2	2	3	20/09/2023	MECH	6
236052	ME8694	2	3	2	3	3	2	20/09/2023	MECH	6
236053	ME8694	3	3	2	2	3	3	20/09/2023	MECH	6
236054	ME8694	3	2	3	3	2	3	20/09/2023	MECH	6
236055	ME8694	2	2	2	2	3	3	20/09/2023	MECH	6
236056	ME8694	2	3	3	2	3	2	20/09/2023	MECH	6
236057	ME8694	2	2	3	2	3	2	20/09/2023	MECH	6
236058	ME8694	3	3	2	3	3	2	20/09/2023	MECH	6
236059	ME8694	2	3	3	2	3	2	20/09/2023	MECH	6
236060	ME8694	2	2	2	2	2	3	20/09/2023	MECH	6

236061	ME8694	3	2	3	2	3	3	20/09/2023	MECH	6
236062	ME8694	2	3	3	3	3	3	20/09/2023	MECH	6
236063	ME8694	2	3	3	2	2	2	20/09/2023	MECH	6
236064	ME8694	3	2	2	2	2	3	20/09/2023	MECH	6
236065	ME8694	2	2	3	2	2	2	20/09/2023	MECH	6
236066	ME8694	2	3	2	2	3	3	20/09/2023	MECH	6
236067	ME8694	2	2	2	2	2	3	20/09/2023	MECH	6
236068	ME8694	3	2	2	2	3	3	20/09/2023	MECH	6
236069	ME8694	2	2	2	2	2	3	20/09/2023	MECH	6
236070	ME8694	3	3	3	2	2	2	20/09/2023	MECH	6
236071	ME8694	3	2	3	2	3	2	20/09/2023	MECH	6
236072	ME8694	2	2	3	2	3	2	20/09/2023	MECH	6
236073	ME8694	3	2	3	2	2	2	20/09/2023	MECH	6
236074	ME8694	3	3	3	2	3	2	20/09/2023	MECH	6
236075	ME8694	3	3	3	2	2	3	20/09/2023	MECH	6
236076	ME8694	3	2	3	3	3	2	20/09/2023	MECH	6
236077	ME8694	3	3	3	3	2	2	20/09/2023	MECH	6
236078	ME8694	2	2	2	2	3	3	20/09/2023	MECH	6
236079	ME8694	3	2	3	2	3	2	20/09/2023	MECH	6
Attained Level		2.51	2.52	2.49	2.42	2.57	2.51			
%		83.67	84.00	83.00	80.67	85.67	83.67			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23EVEN** Semester : **8** Programme: **B.E/B.Tech (MECH)**
Subject Code : **IE8693** NBA Code : **C411** Title **PRODUCTION PLANNING AND CONTROL**
Faculty: Dr.M.Ganesan / Dr.M.Ganesan

Cos	CO Description	Attained Level	%
C411.1	distinguish the role of design and Break Even Analysis in Production process.	2.58	86.00
C411.2	apply the various techniques of work study and method study.	2.46	82.00
C411.3	explain the role of balancing in product and process planning.	2.44	81.33
C411.4	relate the basic scheduling problems in production planning.	2.48	82.67
C411.5	identify the role of Inventory control in an industry.	2.4	80.00
C411.6	distinguish the application of MRP II and ERP.	2.48	82.67

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 129

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
226001	IE8693	3	2	3	2	2	2	20/09/2023	MECH	8
226002	IE8693	2	2	3	3	3	2	20/09/2023	MECH	8
226003	IE8693	3	3	2	2	2	3	20/09/2023	MECH	8
226004	IE8693	2	2	2	2	2	2	20/09/2023	MECH	8
226005	IE8693	2	2	2	2	3	2	20/09/2023	MECH	8
226006	IE8693	3	2	3	2	2	3	20/09/2023	MECH	8
226007	IE8693	2	2	2	2	2	3	20/09/2023	MECH	8
226008	IE8693	3	2	3	2	2	2	20/09/2023	MECH	8
226009	IE8693	2	2	3	2	2	2	20/09/2023	MECH	8
226010	IE8693	2	2	2	2	2	2	20/09/2023	MECH	8
226011	IE8693	3	3	2	2	2	3	20/09/2023	MECH	8
226012	IE8693	3	2	3	2	2	2	20/09/2023	MECH	8
226013	IE8693	3	2	2	2	3	2	20/09/2023	MECH	8
226014	IE8693	3	2	2	2	2	2	20/09/2023	MECH	8
226015	IE8693	3	3	2	2	2	2	20/09/2023	MECH	8
226016	IE8693	2	2	2	2	2	2	20/09/2023	MECH	8
226017	IE8693	3	3	2	3	2	2	20/09/2023	MECH	8
226018	IE8693	3	3	3	3	2	3	20/09/2023	MECH	8
226019	IE8693	3	3	3	3	2	2	20/09/2023	MECH	8
226020	IE8693	2	3	3	3	2	2	20/09/2023	MECH	8

226021	IE8693	2	3	2	2	3	3	20/09/2023	MECH	8
226022	IE8693	2	3	2	2	2	2	20/09/2023	MECH	8
226023	IE8693	3	2	2	2	2	2	20/09/2023	MECH	8
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226027	IE8693	2	2	3	3	2	2	20/09/2023	MECH	8
226028	IE8693	3	2	3	3	2	3	20/09/2023	MECH	8
226030	IE8693	3	2	2	2	3	2	20/09/2023	MECH	8
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226057	IE8693	3	3	2	2	3	3	20/09/2023	MECH	8
226058	IE8693	2	2	3	3	2	2	20/09/2023	MECH	8
226059	IE8693	3	3	2	2	3	3	20/09/2023	MECH	8
226060	IE8693	2	3	3	3	3	3	20/09/2023	MECH	8
226061	IE8693	2	2	3	3	3	3	20/09/2023	MECH	8
226062	IE8693	3	3	3	3	2	3	20/09/2023	MECH	8

226063	IE8693	3	3	3	3	2	3	20/09/2023	MECH	8
226064	IE8693	3	2	3	3	2	2	20/09/2023	MECH	8
226066	IE8693	3	3	3	3	2	2	20/09/2023	MECH	8
226067	IE8693	3	2	3	2	3	3	20/09/2023	MECH	8
226068	IE8693	2	3	3	2	3	3	20/09/2023	MECH	8
226069	IE8693	2	2	3	2	3	2	20/09/2023	MECH	8
226070	IE8693	3	3	2	3	2	3	20/09/2023	MECH	8
226071	IE8693	3	3	2	2	2	3	20/09/2023	MECH	8
226072	IE8693	3	2	3	3	3	2	20/09/2023	MECH	8
226073	IE8693	3	3	2	3	2	2	20/09/2023	MECH	8
226074	IE8693	2	2	2	2	3	3	20/09/2023	MECH	8
226075	IE8693	3	3	3	2	3	3	20/09/2023	MECH	8
226076	IE8693	2	3	3	2	2	3	20/09/2023	MECH	8
226077	IE8693	3	2	2	2	3	3	20/09/2023	MECH	8
226078	IE8693	3	2	2	2	3	3	20/09/2023	MECH	8
226079	IE8693	3	3	3	3	2	2	20/09/2023	MECH	8
226080	IE8693	3	3	2	2	2	2	20/09/2023	MECH	8
226082	IE8693	2	3	3	2	3	2	20/09/2023	MECH	8
226083	IE8693	2	2	2	3	3	2	20/09/2023	MECH	8
226084	IE8693	2	2	2	2	2	2	20/09/2023	MECH	8
226085	IE8693	3	2	2	3	3	3	20/09/2023	MECH	8
226086	IE8693	2	3	2	3	2	2	20/09/2023	MECH	8
226087	IE8693	2	2	2	3	3	3	20/09/2023	MECH	8
226088	IE8693	2	2	3	2	3	3	20/09/2023	MECH	8
226089	IE8693	3	3	2	2	2	3	20/09/2023	MECH	8
226090	IE8693	3	2	3	3	2	3	20/09/2023	MECH	8
226091	IE8693	3	3	3	2	2	2	20/09/2023	MECH	8
226092	IE8693	2	2	2	2	2	3	20/09/2023	MECH	8
226093	IE8693	3	2	2	2	3	2	20/09/2023	MECH	8
226094	IE8693	2	3	3	3	2	2	20/09/2023	MECH	8
226095	IE8693	3	3	2	3	2	2	20/09/2023	MECH	8
226096	IE8693	2	2	3	3	2	3	20/09/2023	MECH	8
226097	IE8693	3	2	3	2	2	2	20/09/2023	MECH	8
226098	IE8693	2	2	2	3	2	3	20/09/2023	MECH	8
226099	IE8693	3	3	3	2	2	2	20/09/2023	MECH	8
226100	IE8693	3	3	2	2	3	2	20/09/2023	MECH	8
226101	IE8693	3	3	2	2	3	3	20/09/2023	MECH	8
226102	IE8693	2	2	3	2	2	3	20/09/2023	MECH	8
226103	IE8693	2	2	3	3	2	3	20/09/2023	MECH	8

226104	IE8693	2	3	2	2	2	2	20/09/2023	MECH	8
226105	IE8693	3	2	3	3	3	2	20/09/2023	MECH	8
226106	IE8693	3	2	3	3	2	2	20/09/2023	MECH	8
226107	IE8693	3	2	3	3	3	3	20/09/2023	MECH	8
226108	IE8693	3	3	2	3	2	2	20/09/2023	MECH	8
226109	IE8693	3	3	2	3	2	2	20/09/2023	MECH	8
226110	IE8693	3	2	3	2	3	3	20/09/2023	MECH	8
226111	IE8693	3	3	3	3	3	3	20/09/2023	MECH	8
226112	IE8693	2	3	3	3	3	3	20/09/2023	MECH	8
226113	IE8693	2	3	2	2	2	3	20/09/2023	MECH	8
226114	IE8693	3	2	2	2	2	2	20/09/2023	MECH	8
226115	IE8693	2	3	3	3	3	2	20/09/2023	MECH	8
226116	IE8693	2	2	2	3	2	3	20/09/2023	MECH	8
226117	IE8693	3	2	2	3	3	2	20/09/2023	MECH	8
226119	IE8693	2	2	3	3	2	2	20/09/2023	MECH	8
226120	IE8693	3	2	3	3	2	2	20/09/2023	MECH	8
226121	IE8693	3	3	3	3	2	3	20/09/2023	MECH	8
226122	IE8693	2	2	3	3	3	2	20/09/2023	MECH	8
226123	IE8693	3	2	2	3	2	3	20/09/2023	MECH	8
226124	IE8693	3	3	3	3	3	3	20/09/2023	MECH	8
226125	IE8693	2	2	3	2	2	2	20/09/2023	MECH	8
226126	IE8693	3	3	2	3	2	3	20/09/2023	MECH	8
226127	IE8693	3	2	3	3	2	2	20/09/2023	MECH	8
226128	IE8693	3	2	3	3	2	3	20/09/2023	MECH	8
226129	IE8693	3	3	3	2	3	2	20/09/2023	MECH	8
226130	IE8693	2	2	3	2	3	2	20/09/2023	MECH	8
226131	IE8693	2	3	2	2	3	2	20/09/2023	MECH	8
226132	IE8693	3	3	2	2	3	2	20/09/2023	MECH	8
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226134	IE8693	3	2	3	3	2	2	20/09/2023	MECH	8
226135	IE8693	3	2	2	2	2	2	20/09/2023	MECH	8
Attained Level		2.58	2.46	2.44	2.48	2.4	2.48			
%		86.00	82.00	81.33	82.67	80.00	82.67			

Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : **2022-23EVEN** Semester : **8** Programme: **B.E/B.Tech (MECH)**
Subject Code : **MG8591** NBA Code : **C410** Title **PRINCIPLES OF MANAGEMENT**
Faculty: Mr.P.V.Rajesh / Mr.P.V.Rajesh

Cos	CO Description	Attained Level	%
C410.1	To understand the fundamentals of management principles and practices in the organizations.	2.51	83.67
C410.2	To know the various types of planning and decision making in the context of organizations.	2.51	83.67
C410.3	To learn the significance of organizing resources, jobs and manpower for effective management.	2.5	83.33
C410.4	To understand the various motivational techniques influencing and directing the human behaviour in the organization.	2.48	82.67
C410.5	To measure the performance of organization and suggest suitable actions for improving productivity.	2.5	83.33
C410.6	To identify the various controlling techniques used by managers in the business world.	2.49	83.00

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 129

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
226001	MG8591	3	3	2	2	2	2	20/09/2023	MECH	8
226002	MG8591	2	3	2	2	3	2	20/09/2023	MECH	8
226003	MG8591	3	2	2	2	2	3	20/09/2023	MECH	8
226004	MG8591	2	3	3	3	2	3	20/09/2023	MECH	8
226005	MG8591	2	3	2	2	2	2	20/09/2023	MECH	8
226006	MG8591	2	2	3	3	3	2	20/09/2023	MECH	8
226007	MG8591	3	2	3	2	3	2	20/09/2023	MECH	8
226008	MG8591	2	3	3	3	2	3	20/09/2023	MECH	8
226009	MG8591	3	3	2	3	2	2	20/09/2023	MECH	8
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226012	MG8591	2	2	3	3	2	2	20/09/2023	MECH	8
226013	MG8591	2	2	3	3	3	3	20/09/2023	MECH	8
226014	MG8591	2	3	3	2	3	2	20/09/2023	MECH	8
226015	MG8591	2	2	3	3	3	2	20/09/2023	MECH	8
226016	MG8591	3	2	3	3	2	2	20/09/2023	MECH	8

226017	MG8591	2	2	3	2	3	2	20/09/2023	MECH	8
226018	MG8591	3	3	2	3	2	3	20/09/2023	MECH	8
226019	MG8591	3	2	2	2	2	2	20/09/2023	MECH	8
226020	MG8591	2	3	3	3	3	3	20/09/2023	MECH	8
226021	MG8591	2	3	2	2	3	3	20/09/2023	MECH	8
226022	MG8591	2	2	3	3	3	2	20/09/2023	MECH	8
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226030	MG8591	2	2	2	2	3	3	20/09/2023	MECH	8
226031	MG8591	3	3	3	3	3	2	20/09/2023	MECH	8
226032	MG8591	3	2	2	2	3	2	20/09/2023	MECH	8
226033	MG8591	2	2	3	2	3	3	20/09/2023	MECH	8
226034	MG8591	3	2	3	2	2	3	20/09/2023	MECH	8
226035	MG8591	3	2	3	2	2	3	20/09/2023	MECH	8
226036	MG8591	2	3	3	2	2	2	20/09/2023	MECH	8
226037	MG8591	2	2	3	3	2	2	20/09/2023	MECH	8
226038	MG8591	3	2	2	3	3	2	20/09/2023	MECH	8
226039	MG8591	3	2	2	2	2	2	20/09/2023	MECH	8
226040	MG8591	2	2	3	2	2	3	20/09/2023	MECH	8
226041	MG8591	2	2	3	2	3	2	20/09/2023	MECH	8
226042	MG8591	2	2	2	3	3	3	20/09/2023	MECH	8
226043	MG8591	3	3	2	3	2	3	20/09/2023	MECH	8
226044	MG8591	3	2	2	2	2	3	20/09/2023	MECH	8
226045	MG8591	2	3	2	2	3	3	20/09/2023	MECH	8
226046	MG8591	3	2	2	3	3	3	20/09/2023	MECH	8
226048	MG8591	2	2	3	2	3	2	20/09/2023	MECH	8
226049	MG8591	2	2	2	3	3	3	20/09/2023	MECH	8
226051	MG8591	2	2	3	3	2	3	20/09/2023	MECH	8
226052	MG8591	2	2	2	2	3	2	20/09/2023	MECH	8
226053	MG8591	3	2	3	2	3	3	20/09/2023	MECH	8
226054	MG8591	3	2	3	3	2	2	20/09/2023	MECH	8
226055	MG8591	2	3	3	2	2	2	20/09/2023	MECH	8
226056	MG8591	3	2	2	2	2	2	20/09/2023	MECH	8
226057	MG8591	2	2	3	2	2	2	20/09/2023	MECH	8
226058	MG8591	2	2	2	2	3	3	20/09/2023	MECH	8

226059	MG8591	3	3	2	3	3	2	20/09/2023	MECH	8
226060	MG8591	2	2	2	2	2	2	20/09/2023	MECH	8
226061	MG8591	2	2	2	2	2	3	20/09/2023	MECH	8
226062	MG8591	3	3	3	3	3	2	20/09/2023	MECH	8
226063	MG8591	3	3	3	2	2	2	20/09/2023	MECH	8
226064	MG8591	2	2	3	3	2	2	20/09/2023	MECH	8
226066	MG8591	3	2	3	3	3	2	20/09/2023	MECH	8
226067	MG8591	3	2	2	2	3	2	20/09/2023	MECH	8
226068	MG8591	3	3	3	2	2	3	20/09/2023	MECH	8
226069	MG8591	3	3	2	2	3	3	20/09/2023	MECH	8
226070	MG8591	3	3	3	3	2	2	20/09/2023	MECH	8
226071	MG8591	2	3	2	3	3	3	20/09/2023	MECH	8
226072	MG8591	2	2	3	3	3	3	20/09/2023	MECH	8
226073	MG8591	3	3	2	3	2	3	20/09/2023	MECH	8
226074	MG8591	2	3	2	2	3	3	20/09/2023	MECH	8
226075	MG8591	2	3	3	3	2	3	20/09/2023	MECH	8
226076	MG8591	3	3	3	2	3	2	20/09/2023	MECH	8
226077	MG8591	3	2	3	2	2	3	20/09/2023	MECH	8
226078	MG8591	3	2	3	3	3	3	20/09/2023	MECH	8
226079	MG8591	3	3	2	2	3	3	20/09/2023	MECH	8
226080	MG8591	2	2	2	2	3	2	20/09/2023	MECH	8
226082	MG8591	2	3	3	2	3	3	20/09/2023	MECH	8
226083	MG8591	2	3	3	2	2	2	20/09/2023	MECH	8
226084	MG8591	2	2	2	3	2	3	20/09/2023	MECH	8
226085	MG8591	3	3	3	2	2	2	20/09/2023	MECH	8
226086	MG8591	3	3	2	2	2	3	20/09/2023	MECH	8
226087	MG8591	2	2	3	3	3	2	20/09/2023	MECH	8
226088	MG8591	2	2	3	3	2	3	20/09/2023	MECH	8
226089	MG8591	2	3	2	2	2	2	20/09/2023	MECH	8
226090	MG8591	3	3	2	3	3	3	20/09/2023	MECH	8
226091	MG8591	2	3	3	3	3	2	20/09/2023	MECH	8
226092	MG8591	2	3	3	3	2	3	20/09/2023	MECH	8
226093	MG8591	2	3	2	3	2	2	20/09/2023	MECH	8
226094	MG8591	3	3	3	3	3	2	20/09/2023	MECH	8
226095	MG8591	2	2	3	2	3	3	20/09/2023	MECH	8
226096	MG8591	3	3	3	3	3	2	20/09/2023	MECH	8
226097	MG8591	2	2	3	2	2	2	20/09/2023	MECH	8
226098	MG8591	3	2	2	3	2	3	20/09/2023	MECH	8
226099	MG8591	2	2	3	3	2	2	20/09/2023	MECH	8

226100	MG8591	3	3	3	2	2	2	20/09/2023	MECH	8
226101	MG8591	3	3	2	3	3	2	20/09/2023	MECH	8
226102	MG8591	3	3	2	2	2	2	20/09/2023	MECH	8
226103	MG8591	2	3	2	3	2	3	20/09/2023	MECH	8
226104	MG8591	2	3	2	2	2	3	20/09/2023	MECH	8
226105	MG8591	3	2	2	2	2	2	20/09/2023	MECH	8
226106	MG8591	3	3	3	2	2	2	20/09/2023	MECH	8
226107	MG8591	2	2	2	2	3	3	20/09/2023	MECH	8
226108	MG8591	3	3	2	2	2	3	20/09/2023	MECH	8
226109	MG8591	2	3	2	3	3	3	20/09/2023	MECH	8
226110	MG8591	2	2	3	3	2	3	20/09/2023	MECH	8
226111	MG8591	3	3	3	3	3	2	20/09/2023	MECH	8
226112	MG8591	3	3	2	2	3	2	20/09/2023	MECH	8
226113	MG8591	3	3	3	2	2	2	20/09/2023	MECH	8
226114	MG8591	2	3	3	3	3	2	20/09/2023	MECH	8
226115	MG8591	3	3	2	2	2	2	20/09/2023	MECH	8
226116	MG8591	3	3	2	3	3	3	20/09/2023	MECH	8
226117	MG8591	2	2	2	3	3	3	20/09/2023	MECH	8
226119	MG8591	3	3	2	3	3	2	20/09/2023	MECH	8
226120	MG8591	3	3	3	2	3	2	20/09/2023	MECH	8
226121	MG8591	3	2	3	3	3	2	20/09/2023	MECH	8
226122	MG8591	3	2	3	2	2	2	20/09/2023	MECH	8
226123	MG8591	2	3	3	3	3	3	20/09/2023	MECH	8
226124	MG8591	2	2	2	2	3	3	20/09/2023	MECH	8
226125	MG8591	2	3	2	2	3	3	20/09/2023	MECH	8
226126	MG8591	3	2	2	2	3	2	20/09/2023	MECH	8
226127	MG8591	3	3	2	2	2	3	20/09/2023	MECH	8
226128	MG8591	3	2	2	2	2	3	20/09/2023	MECH	8
226129	MG8591	3	3	3	2	3	2	20/09/2023	MECH	8
226130	MG8591	3	3	2	3	2	3	20/09/2023	MECH	8
226131	MG8591	2	2	2	3	3	2	20/09/2023	MECH	8
226132	MG8591	3	2	3	2	3	3	20/09/2023	MECH	8
226133	MG8591	3	2	2	2	3	3	20/09/2023	MECH	8
226134	MG8591	2	3	3	3	3	3	20/09/2023	MECH	8
226135	MG8591	3	2	2	3	2	2	20/09/2023	MECH	8
Attained Level		2.51	2.51	2.5	2.48	2.5	2.49			
%		83.67	83.67	83.33	82.67	83.33	83.00			

C 1.1.1

1. College Academic Planner

SAHANATHAN COLLEGE OF ENGINEERING, TRICHY-12

Academic Planner for 2022 - 23 Odd Semester - III and IV YEAR UG

AUG'22	DAY	DETAILS	Day order	working days	SEP'22	DAY	DETAILS	Day order	working days	OCT'22	DAY	DETAILS	Day order	working days	NOV'22	DAY	DETAILS	Day order	working days	DEC'22	DAY	DETAILS	Day order	working days
01	MON				01	THU		IV	11	01	SAT	**Holiday**			01	TUE		II	38	01	THU	Univ. Theory Exam commences		
02	TUE				02	FRI		V	12	02	SUN	Gandhi Jayanthi Holiday			02	WED		III	39	02	FRI			
03	WED				03	SAT		III	13	03	MON	**Holiday**			03	THU		IV	40	03	SAT	**Holiday**		
04	THU				04	SUN	**Holiday**			04	TUE	Ayudha Pooja - Holiday			04	FRI		V	41	04	SUN	**Holiday**		
05	FRI				05	MON	Teacher's Day	I	14	05	WED	Vijayadasami Holiday			05	SAT	**Holiday**			05	MON			
06	SAT	**Holiday**			06	TUE		II	15	06	THU		IV	36	06	SUN	**Holiday**			06	TUE			
07	SUN	**Holiday**			07	WED		III	16	07	FRI		V	37	07	MON		I	35	07	WED	**Flag Day**		
08	MON				08	THU		IV	17	08	SAT		III	38	08	TUE		II	40	08	THU			
09	TUE				09	FRI		V	18	09	SUN	Milad-un-Nabi Holiday			09	WED		III	41	09	FRI			
10	WED				10	SAT	**Holiday**			10	MON	IA Test 2	I	39	10	THU	IA Test 3	IV	42	10	SAT	**Holiday**		
11	THU	Avani Avittam			11	SUN	**Holiday**			11	TUE	IA Test 2	II	40	11	FRI	National Education Day IA Test 3	V	43	11	SUN	**Holiday**		
12	FRI	International Youth Day			12	MON	IA Test 1	I	19	12	WED	IA Test 2	III	41	12	SAT	IA Test 3	I	44	12	MON			
13	SAT				13	TUE	IA Test 1	II	20	13	THU	IA Test 2	IV	42	13	SUN	**Holiday**			13	TUE			
14	SUN	**Holiday**			14	WED	IA Test 1	III	21	14	FRI	IA Test 2	V	43	14	MON	Children's Day IA Test 3	I	45	14	WED			
15	MON	Independence Day Holiday			15	THU	Engineer's Day IA Test 1	IV	22	15	SAT	IA Test 2	I	44	15	TUE	IA Test 3	II	46	15	THU			
16	TUE				16	FRI	IA Test 1	V	23	16	SUN	**Holiday**			16	WED	IA Test 3	III	47	16	FRI			
17	WED	Classes commence for I & VII semester	III	I	17	SAT	IA Test 1	I	24	17	MON		I	45	17	THU		IV	48	17	SAT	**Holiday**		
18	THU		IV	2	18	SUN	**Holiday**			18	TUE		II	46	18	FRI	Syllabus Completion	V	49	18	SUN	**Holiday**		
19	FRI	Krishna Jayanthi Holiday			19	MON		I	25	19	WED		III	47	19	SAT		II	50	19	MON			
20	SAT	**Holiday**			20	TUE		II	26	20	THU		IV	48	20	SUN	**Holiday**			20	TUE			
21	SUN	**Holiday**			21	WED		III	27	21	FRI		V	49	21	MON	Univ. Practical Exam commences			21	WED			
22	MON		I	3	22	THU	Student Feedback-I	IV	28	22	SAT	**Holiday**			22	TUE				22	THU	National Mathematics Day		
23	TUE		II	4	23	FRI		V	29	23	SUN	**Holiday**			23	WED				23	FRI			
24	WED		III	5	24	SAT	SSS Day	II	30	24	MON	Deepavali Holiday			24	THU				24	SAT	**Holiday**		
25	THU		IV	6	25	SUN	**Holiday**			25	TUE	**Holiday**			25	FRI				25	SUN	Christmas Holiday		
26	FRI		V	7	26	MON		I	31	26	WED		III	50	26	SAT	**Holiday**			26	MON			
27	SAT		V	8	27	TUE		II	32	27	THU		IV	51	27	SUN	**Holiday**			27	TUE			
28	SUN	**Holiday**			28	WED		III	33	28	FRI	Student Feedback-I	V	52	28	MON				28	WED			
29	MON		I	9	29	THU		IV	34	29	SAT		II	53	29	TUE				29	THU			
30	TUE		II	10	30	FRI		V	35	30	SUN	**Holiday**			30	WED				30	FRI			
31	WED	Vinayagar Chaturthi								31	MON	National Unity Day	I	Sat						31	SAT	**Holiday**		
	No. of Working days		10	10				22	25				19	24				10	10					

Total No. of working days for the semester : 70

Prepared by: Mrs.N.Bhuvana & Dr.R.Aadhavan(Staff)

PRINCIPAL

SARANATHAN COLLEGE OF ENGINEERING, TRICHY-12

Academic Planner for Even Semester(2022-23) - II, III & IV UG

JAN	DAY	DETAILS	working days	JULY	DAY	DETAILS	working days	AUG	DAY	DETAILS	working days	SEPT	DAY	DETAILS	working days
01	WED	Classes commence for IV & VI semester T&T Training for III	1	01	WED		21	01	SAT	Holiday		01	MON	May Day Holiday	
02	THU	T&T Training for III Year	2	02	THU	Sports Day	22	02	SUN	Holiday		02	TUE		02
03	FRI	Pounder's day T&T Training for III Year	3	03	FRI	College Day	23	03	MON		14	03	WED		03
04	SAT	T&T Training for III Year Holiday		04	SAT	Graduation Day Holiday		04	TUE		15	04	THU	IA test-2	04
05	SUN	Holiday		05	SUN	Holiday		05	WED		16	05	FRI	IA test-2	05
06	MON		4	06	MON		24	06	THU		17	06	SAT	IA test-2	06
07	TUE		5	07	TUE		25	07	FRI	Good Friday Holiday		07	SUN	Holiday	
08	WED		6	08	WED	Womens 2023 Women's Day	26	08	SAT	Holiday		08	MON	IA test-2	07
09	THU		7	09	THU	IA test-1	27	09	SUN	Holiday		09	TUE	IA test-2	08
10	FRI		8	10	FRI	IA test-1	28	10	MON	IA test-2	18	10	WED	IA test-2	09
11	SAT	Holiday		11	SAT	IA test-1	29	11	TUE	IA test-2	19	11	THU		10
12	SUN	Holiday		12	SUN	Holiday		12	WED	IA test-2	20	12	FRI	Syllabus completion	11
13	MON		9	13	MON	IA test-1	30	13	THU	IA test-2	21	13	SAT	Holiday	
14	TUE		10	14	TUE	IA test-1	31	14	FRI	Tamil New Year Day Holiday		14	SUN	Holiday	
15	WED		11	15	WED	IA test-1	32	15	SAT	Holiday		15	MON	Commencement of University Practical exams	
16	THU		12	16	THU		33	16	SUN	Holiday		16	TUE		
17	FRI		13	17	FRI		34	17	MON	IA test-2	22	17	WED		
18	SAT	Holiday		18	SAT	Holiday		18	TUE	IA test-2	23	18	THU		
19	SUN	Holiday		19	SUN	Holiday		19	WED		24	19	FRI		
20	MON	Classes commence for VIII semester	14	20	MON	Students Feedback1	35	20	THU		25	20	SAT		
21	TUE		15	21	TUE		36	21	FRI		26	21	SUN		
22	WED		16	22	WED	Telugu New Year Day Holiday		22	SAT	Ramzan Holiday		22	MON		
23	THU		17	23	THU		37	23	SUN	Holiday		23	TUE		
24	FRI		18	24	FRI		38	24	MON	Students Feedback-II	27	24	WED		
25	SAT	Holiday		25	SAT	Holiday		25	TUE		28	25	THU		
26	SUN	Holiday		26	SUN	Holiday		26	WED		29	26	FRI	Commencement of University Theory exams	
27	MON		19	27	MON		39	27	THU	Pounder's Memorial day	30	27	SAT		
28	TUE		20	28	TUE		40	28	FRI		31	28	SUN		
				29	WED		41	29	SAT	Holiday		29	MON		
				30	THU		42	30	SUN	Holiday		30	TUE		
				31	FRI		43					31	WED		
		No. of Working days	20				23				18				10
														Total No of working days for the semester :	71

Prepared by

Mr. S. Bharani, Asso.Prof/IT dept

Dr. R. Santhosh Babu, Asso. Prof/CSE Dept

Principal

2. Department academic planner

SARANATHAN COLLEGE OF ENGINEERING

ACADEMIC PLANNER - II Year MBA - ODD Semester (III SEMESTER) - (2022 - 23)

August	Day	DETAILS	DAY ORDER	September	Day	DETAILS	DAY ORDER	October	Day	DETAILS	DAY ORDER	November	Day	DETAILS	DAY ORDER	December	Day	DETAILS	DAY ORDER
1	Mon			1	Thu			1	Sat	HOLIDAY		1	Tue	IA TEST - II	47	1	Thu	MODEL EXAM	71
2	Tue			2	Fri			2	Sun	Gandhi Jayanthi - Pakidu		2	Wed	IA TEST - II	48	2	Fri	MODEL EXAM	72
3	Wed			3	Sat			3	Mon	HOLIDAY		3	Thu	IA TEST - II	49	3	Sat	HOLIDAY	
4	Thu			4	Sun	HOLIDAY		4	Tue	Ayudha Pooja		4	Fri	IA TEST - II	50	4	Sun	HOLIDAY	
5	Fri			5	Mon	TEACHERS DAY		5	Wed	Vijayadasami		5	Sat	HOLIDAY		5	Mon	MODEL EXAM	73
6	Sat	HOLIDAY		6	Tue			6	Thu		28	6	Sun	HOLIDAY		6	Tue	MODEL EXAM	74
7	Sun	HOLIDAY		7	Wed			7	Fri		29	7	Mon	IA TEST - II	51	7	Wed	MODEL EXAM	75
8	Mon			8	Thu			8	Sat		30	8	Tue	IA TEST - II	52	8	Thu	MODEL EXAM	76
9	Tue			9	Fri			9	Sun	Milad-un-nabi		9	Wed	IA TEST - II	53	9	Fri	MODEL EXAM	77
10	Wed			10	Sat	HOLIDAY		10	Mon		31	10	Thu		54	10	Sat	HOLIDAY	
11	Thu	Avani-Avittam		11	Sun	HOLIDAY		11	Tue		32	11	Fri	NATIONAL EMOTION DAY	55	11	Sun	HOLIDAY	
12	Fri	International Youth Day		12	Mon			12	Wed		33	12	Sat		56	12	Mon	MODEL EXAM	78
13	Sat			13	Tue			13	Thu		34	13	Sun	HOLIDAY		13	Tue		
14	Sun	HOLIDAY		14	Wed			14	Fri		35	14	Mon	CHILDREN'S DAY	57	14	Wed		
15	Mon	INDEPENDENCE DAY		15	Thu			15	Sat		36	15	Tue		58	15	Thu		
16	Tue			16	Fri			16	Sun	HOLIDAY		16	Wed		59	16	Fri		
17	Wed			17	Sat			17	Mon		37	17	Thu		60	17	Sat	HOLIDAY	
18	Thu			18	Sun	HOLIDAY		18	Tue		38	18	Fri		61	18	Sun	HOLIDAY	
19	Fri	KRISHNA JAYANTHI		19	Mon	IA TEST - I	17	19	Wed		39	19	Sat		62	19	Mon		
20	Sat	HOLIDAY		20	Tue	IA TEST - I	18	20	Thu		40	20	Sun	HOLIDAY		20	Tue		
21	Sun	HOLIDAY		21	Wed	IA TEST - I	19	21	Fri		41	21	Mon		63	21	Wed	Univ Theory Exam	
22	Mon			22	Thu	IA TEST - I	20	22	Sat	HOLIDAY		22	Tue		64	22	Thu		
23	Tue			23	Fri	IA TEST - I	21	23	Sun	HOLIDAY		23	Wed		65	23	Fri		
24	Wed			24	Sat	IA TEST - I	22	24	Mon	Deepavali		24	Thu		66	24	Sat	HOLIDAY	
25	Thu			25	Sun	HOLIDAY		25	Tue	HOLIDAY		25	Fri	Sylabus Completion	67	25	Sun	Christmas	
26	Fri			26	Mon	IA TEST - I	23	26	Wed		42	26	Sat	HOLIDAY		26	Mon		
27	Sat			27	Tue	IA TEST - I	24	27	Thu	IA TEST - II	43	27	Sun	HOLIDAY		27	Tue		
28	Sun	HOLIDAY		28	Wed	IA TEST - I	25	28	Fri	IA TEST - II	44	28	Mon	MODEL EXAM	68	28	Wed		
29	Mon	COMMENCEMENT OF ANNUAL SESSIONS	1	29	Thu	IA TEST - I	26	29	Sat	IA TEST - II	45	29	Tue	MODEL EXAM	69	29	Thu		
30	Tue		2	30	Fri	IA TEST - I	27	30	Sun	HOLIDAY		30	Wed	MODEL EXAM	70	30	Fri		
31	Wed	Vinayagar Chaturthi						31	Mon	IA TEST - II	46	1				31	Sat	HOLIDAY	

Total Working Days : 78

Every Fortnight there will be a special Lecture

HOD/MBA

PRINCIPAL

Scanned with CamScanner

SARANATHAN COLLEGE OF ENGINEERING

DEPARTMENT OF MANAGEMENT STUDIES

ACADEMIC PLANNER - I Year MBA (II SEMESTER) - EVEN Semester - 2023

March	Day	DETAILS	Working Day	April	Day	DETAILS	Working Day	May	Day	DETAILS	Working Day	June	Day	DETAILS	Working Day	July	Day	DETAILS	Working Day
1	Wed			1	Sat	HOLIDAY		1	Mon	May day - Holiday		1	Thu		62	1	Sat	HOLIDAY	
2	Thu	Sports Day		2	Sun	HOLIDAY		2	Tue		59	2	Fri		63	2	Sun	HOLIDAY	
3	Fri	College Day		3	Mon		21	3	Wed		60	3	Sat	HOLIDAY		3	Mon		
4	Sat	Graduation Day		4	Tue		22	4	Thu		61	4	Sun	HOLIDAY		4	Tue		
5	Sun	HOLIDAY		5	Wed		23	5	Fri		62	5	Mon		64	5	Wed		
6	Mon	CLASS COMMENCES	1	6	Thu		24	6	Sat		63	6	Tue		65	6	Thu	Practical Exam	
7	Tue		2	7	Fri	Good Friday - Holiday		7	Sun	HOLIDAY		7	Wed		66	7	Fri		
8	Wed	Womania 2023	3	8	Sat	HOLIDAY		8	Mon		64	8	Thu		67	8	Sat	HOLIDAY	
9	Thu		4	9	Sun	HOLIDAY		9	Tue		65	9	Fri		68	9	Sun	HOLIDAY	
10	Fri		5	10	Mon		25	10	Wed		66	10	Sat	HOLIDAY		10	Mon		
11	Sat		6	11	Tue		26	11	Thu		67	11	Sun	HOLIDAY		11	Tue		
12	Sun	HOLIDAY		12	Wed		27	12	Fri		68	12	Mon		69	12	Wed		
13	Mon		7	13	Thu		28	13	Sat	HOLIDAY		13	Tue		70	13	Thu		
14	Tue		8	14	Fri	Tamil New Year - Holiday		14	Sun	HOLIDAY		14	Wed		71	14	Fri		
15	Wed		9	15	Sat	HOLIDAY		15	Mon		69	15	Thu		72	15	Sat	HOLIDAY	
16	Thu		10	16	Sun	HOLIDAY		16	Tue		70	16	Fri		73	16	Sun	HOLIDAY	
17	Fri		11	17	Mon		29	17	Wed		71	17	Sat	HOLIDAY		17	Mon	University Exam	
18	Sat	LAKSHYA'23		18	Tue	I.A TEST - I	30	18	Thu		72	18	Sun	HOLIDAY		18	Tue		
19	Sun	HOLIDAY		19	Wed	I.A TEST - I	31	19	Fri		73	19	Mon		74	19	Wed		
20	Mon		12	20	Thu	I.A TEST - I	32	20	Sat	HOLIDAY		20	Tue		75	20	Thu		
21	Tue		13	21	Fri	I.A TEST - I	33	21	Sun	HOLIDAY		21	Wed	Syllabus Completion	76	21	Fri		
22	Wed	Telugu New Year		22	Sat	Ramzan - Holiday		22	Mon	I.A TEST - II	34	22	Thu	MODEL EXAM	77	22	Sat	HOLIDAY	
23	Thu		14	23	Sun	HOLIDAY		23	Tue	I.A TEST - II	35	23	Fri	MODEL EXAM	78	23	Sun	HOLIDAY	
24	Fri		15	24	Mon	I.A TEST - I	34	24	Wed	I.A TEST - II	36	24	Sat	HOLIDAY		24	Mon		
25	Sat	HOLIDAY		25	Tue	I.A TEST - I	35	25	Thu	I.A TEST - II	37	25	Sun	HOLIDAY		25	Tue		
26	Sun	HOLIDAY		26	Wed	I.A TEST - I	36	26	Fri	I.A TEST - II	38	26	Mon	MODEL EXAM	79	26	Wed		
27	Mon		16	27	Thu	Pondicherry Memorial Day	37	27	Sat	HOLIDAY		27	Tue	MODEL EXAM	80	27	Thu		
28	Tue		17	28	Fri		38	28	Sun	HOLIDAY		28	Wed	MODEL EXAM	81	28	Fri		
29	Wed		18	29	Sat	HOLIDAY		29	Mon	I.A TEST - II	39	29	Thu	MODEL EXAM	82	29	Sat	HOLIDAY	
30	Thu		19	30	Sun	HOLIDAY		30	Tue	I.A TEST - II	40	30	Fri	MODEL EXAM	83	30	Sun	HOLIDAY	
31	Fri		20					31	Wed		41					31	Mon		

Total Working Days : 83

1. Every Fortnight there will be a special Lecture
2. One Industrial Visit will be organised in this Semester

HOD/MBA

01/3/23

PRINCIPAL

3. Faculty workload:-

SARANATHAN COLLEGE OF ENGINEERING					
DEPARTMENT OF MANAGEMENT STUDIES					
INDIVIDUAL WORKLOAD ODD AUGUST-2022					
S.NO	NAME OF THE FACULTY	Designation	Subject		
			Theory	YEAR/SEMESTER	TOTAL SUBJECTS
1	Dr.A.KARTHIKEYAN	Prof & Head	Management Concepts and Organizational Behavior	II	3 (Theory)
			Integrated Marketing Communication	III I	
			Industrial relations and labour legislations	III I	
2	PROF.R.CHANDRASEKHAR	Professor	Entrepreneurship Development	II	3 (Theory)
			Security Analysis and Portfolio Management	III I	
			Banking and Financial Services	III I	
3	Dr.V.MALAIARASAN	Assistant Professor	Accounting for Decision Making	II	3 (Theory) + 1 Laboratory Paper Sharing
			Financial Markets	II II	
			Reward and Compensation management	II II	
			Creativity and Innovation (Laboratory)	II II	
4	M.K.ARUNPRASAD	Assistant Professor	Information Management	II	3 (Theory) + 1 Seminar Paper Sharing
			Supply Chain Management	II II	
			International Business	II II	
			Indian ethos (Seminar)	II	
5	Mr.S.SYED MUTHALIB	Assistant Professor	Legal Aspects of Business	II	3 (Theory) + 1 Laboratory Paper Sharing
			Rural Marketing	II II	
			Strategic Management	II II	
			Creativity and Innovation (Laboratory)	II II	
6	M.J.NAVANEETHA KRISHNAN	Assistant Professor	Managerial Economics	I	3 (Theory) + 1 Seminar Paper Sharing
			Services Marketing	II I	
			Strategic Human Resource Management	II I	
			Indian ethos (Seminar)	II	

TOTAL DEPARTMENT SUBJECTS	23
SUPPORT REQUIRED FROM OTHER DEPT	4
SUMMER INTERNSHIP GUIDANCE	ALL FACULTY (9 Students Per Faculty)

SARANATHAN COLLEGE OF ENGINEERING
Venkateswara Nagar, Panjappur, Tiruchirappalli - 620012
Department of Management Studies
WORKLOAD -ALLOCATION FOR THE ACADEMIC YEAR 2021-2022(EVEN)

S.NO.	NAME	SUBJECT	SUBJECT	YEAR / SEM	THEORY/LAB	HOURS	TOTAL HOURS
1	Dr.K.KARTHIKEYAN	Human Resource Management	BA4203	I/II	THEORY	3	6
		Project Work	BA5411	II/IV	PROJECT	3	
2	PROF.B.S.CHANDRAMOULI	Financial Management	BA4202	I/II	THEORY	3	6
		Project Work	BA5411	II/IV	PROJECT	3	
3	Dr.V.MAHALAKSHMI	Business Research Methods	BA4205	I/II	THEORY	3	10
		Data analysis and Business Modelling	BA4212	I/II	LAB	4	
		Project Work	BA5411	II/IV	PROJECT	3	
4	Mr.K.ARUNPRASAD	Operations Management	BA4204	I/II	THEORY	3	10
		Principles of Management	MG 6851	III/VI (ECE)	THEORY	3	
		Business ethics	BA4211	I/II	THEORY	1	
		Project Work	BA5411	II/IV	PROJECT	3	
5	Mr.S.SYED MUTHALIFF	Marketing Management	BA4207	I/II	THEORY	3	13
		Principles of Management	MG 6851	IV/VIII (MECH)	THEORY	3	
		Data analysis and Business Modelling	BA4212	I/II	LAB	4	
		Project Work	BA5411	II/IV	PROJECT	3	
6	Mr. J. NAVANEETHA KRISHNAN	Principles of Management	MG 6851	IV/VIII (MECH)	THEORY	3	10
		Principles of Management	MG 6851	III/VI (ECE)	THEORY	3	
		Business ethics	BA4211	I/II	THEORY	1	
		Project Work	BA5411	II/IV	PROJECT	3	
						Total	55

Timetable Coordinator

HoD/MBA 02/03/22

Principal 2/3/22

* Each Faculty members will be allocated with 8 students for supervising the project work

4. Review of Course file:-

SARANATHAN COLLEGE OF ENGINEERING
(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)
DEPARTMENT OF MANAGEMENT STUDIES

REVIEW OF COURSE FILE

S.No.	Details Date:	R-I-*	R-II-#	R-III-$	R-IV-&	R-V-@
1.	Vision, Mission, PEOs, POs, PSOs, Blooms taxonomy *	✓				
2.	Timetable/Workload of the staff Distribution of teaching load – Roles and Responsibilities*	✓				
3.	Syllabus signed by staff &HoD*	✓				
4.	Lecture Schedule signed by staff &HoD*	✓				
5.	Course Committee meeting circular and minutes*	✓				
6.	Identification of Curricular gap and Content Beyond the syllabus*	✓				
7.	Previous AU Question papers(at least 5)*	✓				
8.	Unit wise Q&A and Objective type questions-20 questions in each unit with answers*	✓				
9.	Unit wise course material *	✓				
10.	Assignment question paper with sample answer sheets (at least 3)and mark entry*&#		✓	✓	✓	
11.	Tutorial questionpaper with key (minimum 3 Tutorials per unit, 15 Tutorials per course)and mark entry*&#		✓	✓	✓	
12.	IA test Q Paper with Key, sample answer papers (at least 3) and mark entry*^		✓	✓	✓	
13.	IA Test- Performance analysis-CAP-evidence-root cause analysis.*&#		✓	✓	✓	
14.	Makeup Test –Q paper-Attendance-marks -sample answer papers*&#		✓	✓	✓	
15.	Remedial Test–Q paper-Attendance-marks - sample answer papers*&#		✓	✓	✓	
16.	AU Web portal entry sheet*^&		✓	✓	✓	
17.	Very poor performance in first two tests-action taken - communication to parents-evidence.*^					
18.	Absence for two tests-action taken-communication to parents-evidence.*$					
19.	Indiscipline of student reported, if any*&@					
20.	Special class/coaching class/remedial class/attendance-CAP*&@		✓	✓	✓	
21.	Conduct of Seminar, Quizzes - proof*&@		✓	✓	✓	
22.	Content beyond the syllabus – proof*&@		✓	✓	✓	
23.	Course end survey*					
24.	Internal Assessment sheet*					
25.	AU question paper with students feedback*				✓	
26.	Discrepancy of the question paper and correspondence, if any*					
27.	AU result analysis-Details of arrear students.*@					✓
28.	AU grade sheet*@					✓
29.	CO – PO & PSO attainment sheet*	—	—	—	—	—
	Signature of Course handling faculty					
	Signature of HoD					

SARANATHAN COLLEGE OF ENGINEERING
(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)
DEPARTMENT OF MANAGEMENT STUDIES

REVIEW OF COURSE FILE

S.No.	Details Date:	R-I-*	R-II-#	R-III-$	R-IV-&	R-V-@
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4.	Lecture Schedule signed by staff &HoD*	✓				
5.	Course Committee meeting circular and minutes*	✓				
6.	Identification of Curricular gap and Content Beyond the syllabus*	✓				
7.	Previous AU Question papers(at least 5)*	✓				
8.	Unit wise Q&A and Objective type questions-20 questions in each unit with answers*	✓				
9.	Unit wise course material *	✓				
10.	Assignment question paper with sample answer sheets (at least 3)and mark entry*&#		✓	✓	✓	
11.	Tutorial questionpaper with key (minimum 3 Tutorials per unit, 15 Tutorials per course)and mark entry*&#		✓	✓	✓	
12.	IA test Q Paper with Key, sample answer papers (at least 3) and mark entry*#@		✓	✓	✓	
13.	IA Test- Performance analysis-CAP-evidence-root cause analysis.*&#		✓	✓	✓	
14.	Makeup Test –Q paper-Attendance-marks -sample answer papers*&$		✓	✓	✓	
15.	Remedial Test Q paper-Attendance-marks - sample answer papers*&@		✓	✓	✓	
16.	AU Web portal entry sheet*#&		✓	✓	✓	
17.	Very poor performance in first two tests-action taken - communication to parents-evidence.*$					
18.	Absence for two tests-action taken-communication to parents-evidence.*@					
19.	Indiscipline of student reported, if any*&@					
20.	Special class/coaching class/remedial class/attendance-CAP*#@		✓	✓	✓	
21.	Conduct of Seminar, Quizzes - proof*#&		✓	✓	✓	
22.	Content beyond the syllabus – proof*#&		✓	✓	✓	
23.	Course end survey&					
24.	Internal Assessment sheet&					
25.	AU question paper with students feedback@				✓	
26.	Discrepancy of the question paper and correspondence, if any@					
27.	AU result analysis-Details of arrear students.@					✓
28.	AU grade sheet@					✓
29.	CO – PO & PSO attainment sheet$					
	Signature of Course handling faculty					
	Signature of HoD					

SARANATHAN COLLEGE OF ENGINEERING
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DEPARTMENT OF MANAGEMENT STUDIES

REVIEW OF COURSE FILE

S.No.	Details Date:	R-I-*	R-II-#	R-III-$	R-IV-&	R-V-@
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4.	Lecture Schedule signed by staff &HoD*	✓				
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6.	Identification of Curricular gap and Content Beyond the syllabus*	✓				
7.	Previous AU Question papers(at least 5)*	✓				
8.	Unit wise Q&A and Objective type questions-20 questions in each unit with answers*	✓				
9.	Unit wise course material *	✓				
10.	Assignment question paper with sample answer sheets (at least 3)and mark entry#&@		✓	✓	✓	
11.	Tutorial questionpaper with key (minimum 3 Tutorials per unit, 15 Tutorials per course)and mark entry#&@		✓	✓	✓	
12.	IA test Q Paper with Key, sample answer papers (at least 3) and mark entry#&@		✓	✓	✓	
13.	IA Test- Performance analysis-CAP-evidence-root cause analysis.#&@		✓	✓	✓	
14.	Makeup Test –Q paper-Attendance-marks -sample answer papers#&@		✓	✓	✓	
15.	Remedial Test–Q paper-Attendance-marks - sample answer papers#&@		✓	✓	✓	
16.	AU Web portal entry sheet#$@		✓	✓	✓	
17.	Very poor performance in first two tests-action taken - communication to parents-evidence.#&					
18.	Absence for two tests-action taken-communication to parents-evidence.#&					
19.	Indiscipline of student reported, if any#&@					
20.	Special class/coaching class/remedial class/attendance-CAP#&@		✓	✓	✓	
21.	Conduct of Seminar, Quizzes - proof#&@		✓	✓	✓	
22.	Content beyond the syllabus – proof#&@		✓	✓	✓	
23.	Course end survey@					
24.	Internal Assessment sheet&					
25.	AU question paper with students feedback@				✓	
26.	Discrepancy of the question paper and correspondence, if any@					
27.	AU result analysis-Details of arrear students.@					✓
28.	AU grade sheet@					✓
29.	CO – PO & PSO attainment sheet@	–	–	–	–	–
	Signature of Course handling faculty	✓	✓	✓	✓	✓
	Signature of HoD	✓	✓	✓	✓	✓

SARANATHAN COLLEGE OF ENGINEERING
(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)
DEPARTMENT OF MANAGEMENT STUDIES

REVIEW OF COURSE FILE

S.No.	Details Date:	R-I-*	R-II-$	R-III-$	R-IV-&	R-V-@
1.	Vision, Mission, PEOs, POs, PSOs, Blooms taxonomy *	✓				
2.	Timetable/Workload of the staff – Distribution of teaching load – Roles and Responsibilities*	✓				
3.	Syllabus signed by staff &HoD*	✓				
4.	Lecture Schedule signed by staff &HoD*	✓				
5.	Course Committee meeting circular and minutes*	✓				
6.	Identification of Curricular gap and Content Beyond the syllabus*	✓				
7.	Previous AU Question papers(at least 5)*	✓				
8.	Unit wise Q&A and Objective type questions-20 questions in each unit with answers*	✓				
9.	Unit wise course material *	✓				
10.	Assignment question paper with sample answer sheets (at least 3)and mark entry*&@		✓	✓	✓	
11.	Tutorial questionpaper with key (minimum 3 Tutorials per unit, 15 Tutorials per course)and mark entry*&@		✓	✓	✓	
12.	IA test Q Paper with Key, sample answer papers (at least 3) and mark entry*&@		✓	✓	✓	
13.	IA Test- Performance analysis-CAP-evidence-root cause analysis.*&@		✓	✓	✓	
14.	Makeup Test –Q paper-Attendance-marks -sample answer papers*&@		✓	✓	✓	
15.	Remedial Test–Q paper-Attendance-marks - sample answer papers*&@		✓	✓	✓	
16.	AU Web portal entry sheet*&@		✓	✓	✓	
17.	Very poor performance in first two tests-action taken - communication to parents-evidence.*@					
18.	Absence for two tests-action taken-communication to parents-evidence.*@					
19.	Indiscipline of student reported, if any*@					
20.	Special class/coaching class/remedial class/attendance-CAP*@		✓	✓	✓	
21.	Conduct of Seminar, Quizzes - proof*@		✓	✓	✓	
22.	Content beyond the syllabus - proof*@		✓	✓	✓	
23.	Course end survey*					
24.	Internal Assessment sheet*					
25.	AU question paper with students feedback*				✓	
26.	Discrepancy of the question paper and correspondence, if any*					
27.	AU result analysis-Details of arrear students.@					✓
28.	AU grade sheet@					✓
29.	CO – PO & PSO attainment sheet*	—	—	—	—	—
	Signature of Course handling faculty					
	Signature of HoD					

5. Lecture schedule

COURSE LOG

Branch: MBA

Subject: BA4202 – FINANCIAL MANAGEMENT

Date	Day Order	Period	Particulars of Portions Covered		Teaching Methods : PPT/e-resources etc.
			Unit	Topics	
07.03.23	2	2		Introduction to Financial Management	
10.03.23	5	4		Concepts in Financial Management	
11.03.23	3	6		" " " " " "	
13.03.23	1	5		" " " " " "	
14.03.23	2	2		" " " " " "	
15.03.23	3	6		Functions of financial management	
16.03.23	4	1		Role of finance managers	
20.03.23	1	5		Goal of financial management	
21.03.23	2	2		Concept of return and risk	
23.03.23	4	1		Time Value of money	
24.03.23	5	4		Problems in Time Value of Money	
27.03.23	1	4		" " " " "	
28.03.23	2	2		" " " " "	
29.03.23	3	6		Case Study	
30.03.23	4	1		Valuation of bonds and Shares	
05.04.23	3	5		Problems in valuation of bonds and shares	
06.04.23	4	1		Introduction to capital investment decisions	
10.04.23	1	5		Importance of capital budgeting	
17.04.23	1	4		Techniques of capital budgeting	
[illegible]	1	6		" " " " "	
18.04.23	4	3		Problems in capital budgeting	
19.04.23	5	3		" " " "	
	5	7		" " " "	
24.04.23	1	4		Case Study	
25.04.23	2	6		" "	
26.04.23	3	1		Internal Assessment Test- I	
	3	2		" " " " "	
	3	4		Problems in capital budgeting	
28.04.23	5	3		Introduction to Cost of Capital	
02.05.23	2	2		Significance of Cost of Capital	
03.05.23	3	3		Specific and weighted average cost of Capital	

(8)

COURSE LOG

Branch: MBA

Subject: BA4202 - FINANCIAL MANAGEMENT.

Date	Day Order	Period	Particulars of Portions Covered		Teaching Methods : PPT/e-resources etc.
			Unit	Topics	
04.05.23	4	1		Problems in cost of capital	
05.05.23	5	3		" " " " "	
08.05.23	1	4		" " " " "	
09.05.23	2	6		" " " " "	
10.05.23	3	4		Introduction to operating and financial leverage.	
	3	5		Significance of leverage in financial decision making	
11.05.23	4	1		Problems in leverage	
	4	6		" " "	
12.05.23	5	3		" " "	
15.05.23	1	4		Introduction to EBIT-EPS Analysis	
16.05.23	2	6		Problems in EBIT-EPS Analysis	
17.05.23	3	1		" " " " "	
18.05.23	4	1		" " " " "	
19.05.23	5	3		Capital Structure Theories	
22.05.23	1	2		Problems in capital Structure	
		5		" " " " "	
23.05.23	2	6		" " " " "	
24.05.23	3	6		" " " " "	
25.05.23	4	1		Internal Assessment Test - II	
		2		" " " " "	
		7		Introduction to dividend policy	
26.05.23	5	3		Types of dividend and payout policy	
27.05.23	1	4		Dividend Theories	
29.05.23	1	4		Problems in Dividend Policy	
30.05.23	2	7		" " " " "	
31.05.23	3	6		" " " " "	
01.06.23	4	1		" " " " "	
02.06.23	5	3		" " " " "	
05.06.23	1	4		" " " " "	
06.06.23	2	6		Introduction to working capital	
07.06.23	3	6		Factors determining working capital	

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COURSE LOG

Branch: MBA

Subject: BA4202 – FINANCIAL MANAGEMENT

Date	Day Order	Period	Particulars of Portions Covered		Teaching Methods : PPT/e-resources etc.
			Unit	Topics	
08.06.23	4	1		Problems in working capital estimation	
09.06.23	5	5		" " " " " " "	
10.06.23	2	1		" " " " " " "	
12.06.23	1	4		" " " " " " "	
13.06.23	2	5		Receivables Management	
14.06.23	3	4		Factoring	
15.06.23	4	1		Inventory Management	
16.06.23	5	3		Cash Management	
19.06.23	1	4		Indian Capital Market	
20.06.23	2	6		Primary market and Secondary market	
21.06.23	3	6		Long term finance	
22.06.23	4	1		Leasing and hire purchase	
27.06.23	2	5		Model examination	
		6		" " " "	
		7		" " " "	
		8		" " " "	

(10)

6. Assignment question

SARANATHAN COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

DEPARTMENT OF MANAGEMENT STUDIES

Assignment – 01			Date of Issue: 01.02.2023	Marks	20
Course code	BA4106	Course Title	Information Management		
Year	I	Semester/Section	I	Date of Submission:	11.02.2023

Q.No	Questions	CO	PO	PSO
1	Comment on the applications of ERP software.	C402.3	1,2,3	1,2
2	Draw an E-R diagram for hospital management system. Draw a Data flow diagram for Library management system.	C402.3	4,5	1,2

(K. ARUN PRASAD)

Name and Signature of the Faculty In charge

HoD/MBA

SARANATHAN COLLEGE OF ENGINEERING

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DEPARTMENT OF MANAGEMENT STUDIES

Assignment – 01			Date of Issue:	11.11.2022	Marks	20
Course code	BA4302	Course Title	International Business			
Year	II	Semester/Section	III	Date of Submission:	22.11.2022	

Q.No	Questions	CO	PO	PSO
1	Production linked incentives scheme, introduced by Government of India helps promote Indian exports. Discuss.	C402.3	1,2,3	1,2
2	Expanding into overseas markets requires lots of research. Choose any Indian company which has succeeded in globalising its product/service and also highlight its global strategies.	C402.3	4,5	1,2

(K. ARUN PRASAD)

Name and Signature of the Faculty In charge

HoD/MBA

8.Lab cycle and log Book

COURSE LOG

Branch :

Subject :

Date	Day Order	Period	Particulars of Portions Covered	Remarks
21/04/22	IV	04	Basics of Excel.	
		05	CGPA calculator	
~~22/04/22~~		06	Payroll using excel	
26/04/22	III	04	Mean, Standard, Range, Fun I	
		05	Chi I Square, Histogram	
		06	Non-Parametric test.	
06/05/22	III	04	Correlation	
		05	Regression	
		06	Forecasting	
12/05/22	III	04	Portfolio Selection	
		05	Risk Analysis	
		06	Sensitivity Analysis.	
18/05/22	III	04	Revenue Management	
		05	Transportation & Assignment	
		06	Transportation & Assignment	
20/05/22	III	04	Net house model.	
		05	Queuing Theory.	
		06	Inventory model	

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9. Syllabus completion of theory

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPALLI - 620 012.

Date: 05-12-2022

Ref: SCE/Syllabus/ Theory/2022-23 - Odd Sem/

STATEMENT FOR SYLLABUS COMPLETION

I have handled the subject Financial Markets, code BA 4002 for II year, III semester, department of M.B.A B.E/B.Tech/MBA during the academic year 2022 – 23, odd semester.

In this regard, I confirm, that I have taught all the topics mentioned in the syllabus, and took lectures for 65 periods, revised syllabus for 4 periods and discussed the Anna University Examination question papers of the last 3 years.

Signature :

Name : Dr. V. Mahalakshmi.

Designation : Assistant Professor

Department : M.B.A

Date : 05-12-2022

Signature of HoD :

Principal :

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPALLI - 620 012.

Date: 12-01-2023

Ref : SCE/Syllabus/ Theory/2022-23 - Odd Sem/

STATEMENT FOR SYLLABUS COMPLETION

I have handled the subject Accounting for Decision making code BA4104 for Iyear year, I semester, department of M.B.A B.E/B.Tech/MBA during the academic year 2022 – 23, odd semester.

In this regard, I confirm , that I have taught all the topics mentioned in the syllabus, and took lectures for 85 periods, revised syllabus for 7 periods and discussed the Anna University Examination question papers of the last 2 years.

Signature :

Name : Dr. V. Mahalakshmi.

Designation : Assistant Professor

Department : M.B.A.

Date : 12-01-2023.

Signature of HoD :

Principal :

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPALLI - 620 012.

Date: 26-06-2023

Ref : SCE/Syllabus/ Theory/2022-23 – Even Sem/

STATEMENT FOR SYLLABUS COMPLETION

I have handled the subject Business Research Methods code BA4205 for 2 year, II semester, department of M.B.A B.E/B.Tech/MBA during the academic year 2022 – 23, even semester.

In this regard, I confirm , that I have taught all the topics mentioned in the syllabus, and took lectures for 65 periods, revised syllabus for 4 periods and discussed the Anna University Examination question papers of the last 3 years.

Signature :

Name : Dr. V. Mahalakshmi.

Designation : Assistant Professor

Department : M.B.A

Date : 26-06-2023

Signature of HoD :

Principal :

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPALLI - 620 012.

Date: 5.12.2022

Ref : SCE/Syllabus/ Theory/2022-23 - Odd Sem/

STATEMENT FOR SYLLABUS COMPLETION

I have handled the subject SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT, code BA4001 for II year, III semester, department of ~~B.E/B.Tech~~/MBA during the academic year 2022 – 23, odd semester.

In this regard, I confirm , that I have taught all the topics mentioned in the syllabus and took lectures for 45 periods, revised syllabus for 5 periods and discussed the Anna University Examination question papers of the last 5 years.

Signature : B.Chandramouli

Name : B.S.CHANDRA MOULI

Designation : PROFESSOR

Department : MANAGEMENT STUDIES.

Date : 05.12.2022

Signature of HoD :

Principal :

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPALLI - 620 012.

Date: 05/12/22

Ref : SCE/Syllabus/ Theory/2022-23 - Odd Sem/

STATEMENT FOR SYLLABUS COMPLETION

I have handled the subject STRATEGIC MANAGEMENT code BA4301 for II year, III semester, department of MBA B.E/B.Tech/MBA during the academic year 2022 - 23, odd semester.

In this regard, I confirm , that I have taught all the topics mentioned in the syllabus, and took lectures for 52 periods, revised syllabus for 06 periods and discussed the Anna University Examination question papers of the last 05 years.

Signature : S. Syed Muth

Name : S. SYED MUHALIFF

Designation : ASSISTANT PROFESSOR

Department : MANAGEMENT STUDIES

Date : 05/12/22

Signature of HoD :

Principal :

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPALLI - 620 012.

Date: 12/01/23

Ref : SCE/Syllabus/ Theory/2022-23 - Odd Sem/

STATEMENT FOR SYLLABUS COMPLETION

I have handled the subject LEGAL ASPECTS OF BUSINESS, code BA4105 for I year, I semester, department of MBA B.E/B.Tech/MBA during the academic year 2022 – 23, odd semester.

In this regard, I confirm , that I have taught all the topics mentioned in the syllabus, and took lectures for 56 periods, revised syllabus for 07 periods and discussed the Anna University Examination question papers of the last 05 years.

Signature : S. Syed Muthal

Name : S. SYED MUTHALIFF

Designation : ASSISTANT PROFESSOR

Department : MANAGEMENT STUDIES

Date : 12/01/2023

Signature of HoD :

Principal :

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPALLI - 620 012.

Date: 26/06/23

Ref : SCE/Syllabus/ Theory/2022-23 - Even sem/

STATEMENT FOR SYLLABUS COMPLETION

I have handled the subject MARKETING MANAGEMENT , code BA4207 for I year II semester, department of MBA B.E/B.Tech/MBA during the academic year 2022 – 23, even semester.

In this regard, I confirm , that I have taught all the topics mentioned in the syllabus, and took lectures for 60 periods, revised syllabus for 05 periods and discussed the Anna University Examination question papers of the last 05 years.

Signature : S. Syed Mutha

Name : S. SYED MUTHAHIFF

Designation : ASSISTANT PROFESSOR

Department : MANAGEMENT STUDIES.

Date : 26/06/2023

Signature of HoD :

Principal :

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPALLI - 620 012.

Date: 12/01/2023

Ref : SCE/Syllabus/ Theory/2022-23 - Odd Sem/

STATEMENT FOR SYLLABUS COMPLETION

I have handled the subject Managerial Economics, code BA4103 for I year, I semester, department of ~~B.E/B.Tech~~/MBA during the academic year 2022 – 23, odd semester.

In this regard, I confirm , that I have taught all the topics mentioned in the syllabus, and took lectures for 51 periods, revised syllabus for 4 periods and discussed the Anna University Examination question papers of the last 5 years.

Signature :

Name : K. ARUN PRASAD

Designation : AP/ MBA

Department : MBA

Date : 12.01.2023

Signature of HoD :

Principal :

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPALLI - 620 012.

Date: 12.01.2023

Ref : SCE/Syllabus/ Theory/2022-23 – Odd Sem/

STATEMENT FOR SYLLABUS COMPLETION

I have handled the subject ENTREPRENEURSHIP DEVELOPMENT, code BAA032 for I year, I semester, department of ~~B.E./B.Tech~~/MBA during the academic year 2022 – 23, odd semester.

In this regard, I confirm , that I have taught all the topics mentioned in the syllabus, and took lectures for 45 periods, revised syllabus for 5 periods and discussed the Anna University Examination question papers of the last 5 years.

Signature : B.S Chandrahouli

Name : B.S CHANDRA MOULI

Designation : PROFESSOR

Department : MANAGEMENT STUDIES

Date : 12.01.2023

Signature of HoD :

Principal :

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPALLI - 620 012.

Date: 26 06 2023

Ref : SCE/Syllabus/ Theory/2022-23 - Even sem/

STATEMENT FOR SYLLABUS COMPLETION

I have handled the subject FINANCIAL MANAGEMENT code BA4202 for I year II semester, department of ~~B.E/B.Tech~~/MBA during the academic year 2022 - 23, even semester.

In this regard, I confirm , that I have taught all the topics mentioned in the syllabus, and took lectures for 70 periods, revised syllabus for 8 periods and discussed the Anna University Examination question papers of the last 5 years.

Signature : B Chandrahaul

Name : B. S. CHANDRA MOULI

Designation : PROFESSOR

Department : MANAGEMENT STUDIES.

Date : 26.06.2023

Signature of HoD :

Principal :

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPALLI - 620 012.

Date: 05/12/2022

Ref: SCE/Syllabus/ Theory/2022-23 - Odd Sem/

STATEMENT FOR SYLLABUS COMPLETION

I have handled the subject International Bussiness, code BA4302 for II year, III semester, department of _____ B.E/B.Tech/MBA during the academic year 2022 – 23, odd semester.

In this regard, I confirm , that I have taught all the topics mentioned in the syllabus, and took lectures for 52 periods, revised syllabus for 3 periods and discussed the Anna University Examination question papers of the last 5 years.

Signature :

Name : K. ARUN PRASAD

Designation : AP/ MBA

Department : MBA

Date : 05. 12. 2022

Signature of HoD :

Principal :

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPALLI - 620 012.

Date: 26/06/2023

Ref : SCE/Syllabus/ Theory/2022-23 - Even sem/

STATEMENT FOR SYLLABUS COMPLETION

I have handled the subject Operations Management, code BA4204 for I year, II semester, department of ~~B.E/B.Tech~~/MBA during the academic year 2022 – 23, even semester.

In this regard, I confirm , that I have taught all the topics mentioned in the syllabus, and took lectures for 56 periods, revised syllabus for 4 periods and discussed the Anna University Examination question papers of the last 5 years.

Signature : CA-

Name : K. ARUN PRASAD

Designation : AP - MBA

Department : MBA

Date : 26. 06. 2023

Signature of HoD :

Principal :

10. Syllabus completion for lab

SARANATHAN COLLEGEOF ENGINEERING

TIRUCHIRAPALLI-620 012.

Date: 26/06/23

Ref:SCE/Syllabus/Laboratory/2018-19- Even Sem/

STATEMENT FORLABORATORY EXPERIMENTCOMPLETION

I hereby affirm that all the experiments listed in the next page, have been actually performed by the students as part of the prescribed course work by Anna University (mention details). In cases where the experiments could not be conducted, the same has been listed separately with reasons.

I confirm that the experiments were done by me in the beginning of this semester, and the readings were recorded.

I confirm that the students submitted the laboratory record of the experiments performed by them, and that I have also corrected them every week and awarded appropriate marks. I also confirm that the completed laboratory record was submitted by each student.

Signature : Signature :

Name : Dr. V. Mahalakshmi. Name : S. SYED MOHIDHEEN

Designation : Assistant Professor Designation : ASSISTANT PROFESSOR

Department : M.B.A MBA

Signaturecof HoD:

Principal

Note: List of the students who have not got bonafide, if any, to be enclosed.

13. Faculty feedback report

SARANATHAN COLLEGE OF ENGINEERING
(Affiliated to Anna University Chennai)
Panjappur, Tiruchirapalli-620 012

DEPARTMENT OF MANAGEMENT STUDIES

Date: 01-12-2022

Ref No: SCE/MBA/2022-2023/ODD Sem./Faculty feedback – reg.

Students' feedback about teachers regarding the efficacy of their teaching styles is collected every semester. The various parameters based on which the students assess the faculty are preparation of the faculty for the classes, subject knowledge and clarity of the faculty, impartiality and fairness of the faculty, student-faculty interaction, valuable/extra information given the faculty, enthusiasm for teaching, display of care and concern, punctuality in evaluation of assignments and test papers, steady completion of syllabus, ability to speak loudly and clearly etc. The total composite faculty feedback score is 100 and it is the summation of faculty scores on the specified parameters.

For the period during September-November 2022, the faculty feedback from students was collected on 21st November 2022. Based on individual staff feedback reports, it was found that the feedback score of 78.91% obtained by Prof. J. Navaneethakrishnan for the subject, Rewards and Compensation Management handled for II MBA/III Semester students was the lowest score.

The message was personally communicated by the HOD to Prof. J. Navaneethakrishnan and HOD sought to know if the faculty had faced difficulties in the specific class. In the explanation sought from the faculty concerned, it was reasoned that the subject was newly introduced one and there were limited reference books on this new subject. Also, the subject nature was such that it talked about many new concepts and there was very limited scope for offering it in a more lucid manner than how it was discussed in the prescribed textbook. There was only one standard prescribed textbook which also made it difficult for the students to grasp the subject concepts. The HOD suggested that the topics need to be delivered in creative ways which will make the learning process enjoyable for the students and also increase the effectiveness of the learning outcomes.

HOD-MBA