



INDEX

Criterion 2.5.1

**Mechanism to deal with internal examination related grievances
is transparent, time- bound and efficient**

S. No	STUDENT CENTRIC METHOD	Page NO
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THEORY



Saranathan College of Engineering

Tiruchirappalli

Internal Assessment Test - III			Date/ Session	19.05.2021/ AN	Marks	50
Course code	CS8602	Course Title	Compiler Design			
Batch No.		Duration	90 mins	Academic Year	2020-2021(Even Semester)	
Year/	III	Semester/ Section	VI/ A&B	Department	CSE	

Part – A

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

Q. No.	Questions	CO	Skills
1	Compare Synthesized and Inherited attributes	C308.5	AZ
2	Define S attributed and L attributed definition.	C308.5	U
3	Define Dependency graph. Give example.	C308.5	U
4	What do you meant by annotated parse tree? Give example.	C308.5	U
5	Define widening and narrowing.	C308.5	R
6	Draw the schematic diagram of activation record.	C308.6	R
7	What is the use of Access link and control link fields in activation record?	C308.6	U
8	Define address descriptor and register descriptor.	C308.6	R
9	Define dangling reference with example	C308.6	U
10	What are all the issues to be considered while designing code generator?	C308.6	U

Part – B

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

Q. No.	Questions	CO	Skills
11	Generate intermediate code for the following code segment along with the required syntax directed translation scheme: <pre> if(a>b) x=a+b else x=a-b where a and x are of real and b of int type data.</pre>	C308.5	E
OR			
12	Explain Translation of expressions to address array elements for c+a[2][3]	C308.5	E
13	Explain stack allocation with quick sort example and neat sketch.	C308.6	AZ
OR			

14	Explain static allocation and limitations of static allocation method	C308.6	U, A
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Part – C

(Answer all the questions 1 x 10 = 10 marks)

Q. No.	Questions	CO	Skills
15	Generate three-address code and Machine code for the following statements assuming a and b are arrays whose elements are 4-byte values. x = a[i] y = b[j] a[i] = y b[j] = x	C308.5	E
OR			
16	Generate intermediate code for the following code segment along with the required syntax directed translation scheme: i=1;s=0; while(i<=10) s=s+a[i] i=i+1	C308.5	E

Bloom's Skills: Remember (R), Understand (U), Apply (A), Analyze (AZ), Evaluate (E) and Create (C).

Dr.R.Thillaikarasi/Associate Professor & Dr.R.Senthamil Selvi/Associate Professor



SARANATHAN COLLEGE OF ENGINEERING

Tiruchirapalli - 620 012

ANSWER BOOK

Name	M.I. - Hidhayath Nisha.			Year / Semester / Section	III / VII / A
Batch No.	211030	Date / Session	20/5/21 / FN	Department	CSE
Course Code	CS8602	Course Title	Amplifier Design.		
Internal Assessment Test	I ☐	II ☐	III ☒	Model ☐	No. of pages used :
Name and Signature of the Invigilator with date					

INSTRUCTIONS TO THE CANDIDATES:

- Answers for Part-A must be written in pages 2-6. Answers for Part-B must be written from page 7 onwards.
- Write your Batch Number in the Question Paper.
- Use both sides of the paper for answering questions.
- The answer book contains sufficient pages and no additional sheets will be given.
- Possession of any incriminating material and malpractice of any nature shall be punishable as per rules.
- Answer must be legibly written in pen (blue or black colour)

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
2		2	12					
3		2	13					
4		2	14					10
5		2	15					10
6		2	16					
7		2	Total					
8		2	47/50 Grand Total					R. Thillaiarasu Name and Signature of the Examiner with date
9		2						
10		2						
Total		20						27

R. Thillaiarasu
Name and Signature of the Examiner with date

To be filled by the examiner

to be filled by the examinee.							
Course Outcomes	1	2	3	4	5	6	Total
Marks allotted					60	40	100
Marks Obtained					54	40	94
QAC Audit - Remarks						G. Narayan Dr. G. S. G. Narayan Name and Signature of the QAC member	



SARANATHAN COLLEGE OF ENGINEERING

Tiruchirapalli - 620 012

ANSWER BOOK

Name	SEM BARUTHI, RD			Year / Semester / Section	V / VII / B
Batch No.	201076	Date / Session	01/03/21	Department	C.S.E
Course Code	CE8076	Course Title	Professional Ethics in Engineering		
Internal Assessment Test	I ☒	II ☐	III ☐	Model ☐	No. of pages used :
Name and Signature of the Invigilator with date			R. Mohan Kumar R. Mohan Kumar		

INSTRUCTIONS TO THE CANDIDATES:

- Answers for Part-A must be written in pages 2-6. Answers for Part-B must be written from page 7 onwards.
- Write your Batch Number in the Question Paper.
- Use both sides of the paper for answering questions.
- The answer book contains sufficient pages and no additional sheets will be given.
- Possession of any incriminating material and malpractice of any nature shall be punishable as per rules.
- 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	✓	08			08
2	✓	2	12					
3	✓	2	13	✓	05		02	07
4	✓	2	14					
5	✓	2	15					
6	✓	2	16	✓	8 1/2			8 1/2
7	✓	2	Total					23 1/2
8	✓	1	81. / (40 1/2 / 50)					3/3/21
9	✓	2						
10	✓	0						
Total		17	Grand Total					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	50	50					100
Marks Obtained	46	23 1/2					81
QAC Audit - Remarks							(A. Sarath Kumar) (A. Sarath Kumar) NP / CSE Name and Signature of the QAC member

Saranathan College of Engineering
Subject Wise Internal Assessment Tests Mark Report

Class:CSE Semester:6 Section:A & B Subject Code:CS8602 Title : Compiler Design

Subject Handled by: 1. Dr.R.Thillaikarasi , 2. Dr.R.Senthamilselvi

S.no	Regno	Batchno	Name	IATEST-A3
				20/05/2021
1	813818104001	211001	ABARAJITHA VARMAN. M A	88
2	813818104002	211002	ABINANDHAN. D	92
3	813818104003	211003	ABITHA. I	86
4	813818104004	211004	ADAIKALA RAJ. A J	86
5	813818104005	211005	ADHIE. S	86
6	813818104006	211006	AISHWARYA. E	94
7	813818104007	211007	AJITHA. M	76
8	813818104008	211008	AKASH KUMAR. R	76
9	813818104009	211009	AKSHAY. S	76
10	813818104010	211010	ANUPAMA. S L	72
11	813818104011	211011	ARUN KUMAR. G	84
12	813818104012	211012	ARUN KUMAR. S	82
13	813818104013	211013	BALACHANDRAN. G	82
14	813818104014	211014	BASHEER AHMED. Y	93
15	813818104015	211015	BHARATHI. R	74
16	813818104016	211016	CHARAN JEETH. S	78
17	813818104017	211017	CHARUMATHI. P	90
18	813818104018	211018	DEEPIKA. K	86
19	813818104019	211019	DEVADHARSHINI. M	92
20	813818104020	211020	DHANUSH KUMAR. R	78
21	813818104021	211021	DHARSHINI. R	90
22	813818104022	211022	DINESH KUMAR. S	78

Saranathan College of Engineering
Subject Wise Internal Assessment Tests Mark Report

Class:CSE Semester:6 Section:A & B Subject Code:CS8602 Title : Compiler Design

Subject Handled by: 1. Dr.R.Thillaikarasi , 2. Dr. R. Senthamilselvi

S.no	Regno	Batchno	Name	IATEST-A3
				20/05/2021
23	813818104023	211023	GIRIDHAR. B	80
24	813818104024	211024	GRITYKA. S R	88
25	813818104025	211025	HARINI. R	86
26	813818104026	211026	HARINI. S	90
27	813818104027	211027	HARISH. V	88
28	813818104028	211028	HARSHINI. S	90
29	813818104029	211029	HEARTINA LANCY. L X	92
30	813818104030	211030	HIDHAYATH NISHA. M I	94
31	813818104031	211031	JANANI. A S	86
32	813818104032	211032	JEEVAN ROHITH. A M	86
33	813818104033	211033	JESURIYA. D	88
34	813818104034	211034	JIM PATRICK. K	90
35	813818104035	211035	KANIMOZHI. C	90
36	813818104036	211036	KARTIK RAJ. T.S	74
37	813818104037	211037	KAVEYA. G	86
38	813818104038	211038	KAVI KUMARAN. S	86
39	813818104039	211039	KAVISWETHA. L	92
40	813818104040	211040	KAVIYA. P	92
41	813818104042	211041	KEERTHANA. M	88
42	813818104043	211042	KISHORE KUMAR. S	84
43	813818104045	211043	KRISHNA KUMAR. V	90
44	813818104044	211044	KRISHNA KUMAR. V	92

Saranathan College of Engineering
Subject Wise Internal Assessment Tests Mark Report

Class:CSE Semester:6 Section:A & B Subject Code:CS8602 Title : Compiler Design

Subject Handled by: 1. Dr.R.Thillaikarasi , 2. Dr. S. Senthamilselvi

S.no	Regno	Batchno	Name	IATEST-A3
				20/05/2021
45	813818104046	211045	KUMARAVEL. K	88
46	813818104047	211046	LAKSHWANATH SABARISH. T	84
47	813818104048	211047	LOGITHA. B	84
48	813818104049	211048	MANIKANDAN. G	82
49	813818104050	211049	MANOJ MICHAEL RAJ. A	88
50	813818104051	211050	MARIYAMMAL. M	82
51	813818104052	211051	MOHAMED AARIF. S	88
52	813818104053	211052	MOHAMED JASIM. M	82
53	813818104054	211053	MOHAMED OMAR JAFRAN. M	90
54	813818104056	211055	MOSHMI. C S	86
55	813818104057	211056	MUTHURAJA. M	90
56	813818104058	211057	NAGESHWARAN. S	92
57	813818104059	211059	NAVEENA. S	86
58	813818104061	211060	NITHISH RAM. R	88
59	813818104062	211061	NIVEDHA. K	90
60	813818104063	211062	PRADEEPA. J	71
61	813818104064	211063	PRASANNA VENKATESHWAR. D.B	66
62	813818104065	211064	PRASHANTHI. B	77
63	813818104066	211065	PRIYADHARSAN. A S	74
64	813818104067	211066	PRIYANKA. P	80
65	813818104068	211067	PRIYANKA. S	77
66	813818104070	211069	RAM PRASATH. S	80

Saranathan College of Engineering
Subject Wise Internal Assessment Tests Mark Report

Class:CSE Semester:6 Section:A & B Subject Code:CS8602 Title : Compiler Design

Subject Handled by: 1. Dr.R.Thillaikarasi , 2. Dr.P.Senthamilselvi

S.no	Regno	Batchno	Name	IATEST-A3
				20/05/2021
67	813818104071	211070	RAM PRASATH. S	88
68	813818104073	211071	RESHMA BANU. L	77
69	813818104072	211072	RESHMA. M	88
70	813818104074	211073	RINUSHA BANU. H	78
71	813818104075	211074	SAKTHI SUBRAMANIAM. K	78
72	813818104076	211075	SANJAY. R	66
73	813818104077	211076	SANJAY. S P	89
74	813818104078	211077	SANMUGI. A	78
75	813818104079	211078	SANTOSH KUMAR. R	64
76	813818104080	211079	SARAN. S	76
77	813818104081	211080	SARAN. T	80
78	813818104082	211081	SARATHKUMAR. C	90
79	813818104083	211082	SHARMILA. R	90
80	813818104084	211083	SHERWIN HAROLD . F	79
81	813818104085	211084	SHIFA SHUJAUDIN. .	90
82	813818104086	211085	SHUBA SHWETHA. K	88
83	813818104087	211086	SHUGEERTHA. D S	77
84	813818104091	211090	SONALI. P	91
85	813818104092	211091	SOWMIYA. S	90
86	813818104093	211093	SRINITHI. K	77
87	813818104094	211094	SRIRAM. S	74
88	813818104096	211095	SRIVATSAN. S	77

Saranathan College of Engineering
Subject Wise Internal Assessment Tests Mark Report

Class:CSE Semester:6 Section:A & B Subject Code:CS8602 Title : Compiler Design

Subject Handled by: 1. Dr.R.Thillaikarasi , 2. Dr. V. Senthamilselvi

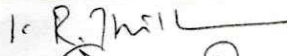
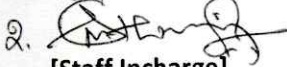
S.no	Regno	Batchno	Name	IATEST-A3
				20/05/2021
89	813818104097	211096	STEVE PHILIP. S	69
90	813818104098	211097	SUJITHA. T	88
91	813818104100	211098	SURYA PRAKASH. R	79
92	813818104099	211099	SURYAPRAKASH. S	77
93	813818104101	211100	SWATHI MEENAKSHI. M	81
94	813818104102	211101	SWETHA. R	92
95	813818104103	211102	THAMARAİKANI. J	65
96	813818104106	211104	VAISHNAVI DEVI. V	92
97	813818104105	211105	VAISHNAVI.A.R	72
98	813818104107	211106	VARSHINI. M	78
99	813818104108	211107	VARTHIHAHARSNI. M	82
100	813818104109	211108	VELUGANES. V S	81
101	813818104110	211109	VIDHYABHARATHI. V	81
102	813818104112	211110	VIGNESH MUTHU. K	83
103	813818104111	211111	VIGNESH. S	91
104	813818104113	211112	VINITH KARTHICK. V	76
105	813818104114	211113	VISHNU. C	82
106	813818104115	211114	VISHNU. M	90
107	813818104116	211115	VYKUNTH. S	80
108	813818104117	211116	YAMUNA. R	88
109	813818104118	211117	YAZHINI. R	76
110	813818104119	211118	YOGALAKSHMI. P	76

Saranathan College of Engineering
Subject Wise Internal Assessment Tests Mark Report

Class:CSE Semester:6 Section:A & B Subject Code:CS8602 Title : Compiler Design

Subject Handled by: 1. Dr.R.Thillaikarasi , 2. Dr.R.Senthamilselvi

S.no	Regno	Batchno	Name	IATEST-A3
				20/05/2021
111	813818104120	211119	YUVANKARRTIK. A B	87
112	813818104041	211120	KAVIYA. V	76
113	813818104121	211121	PRAVEEN KUMAR. S	74
114	813818104302	211122	TUFAIL AHAMED . A R	69
115	813818104301	211123	MUSHARAF HUSSAIN. A	69

1. 
2. 
[Staff Incharge]


[HOD]



SARANATHAN COLLEGE OF ENGINEERING

CIRCULAR

21/12/2020

Internal Assessment Test – 1 (Online mode) for First YEAR B.E. / B.TECH classes will commence from 24-12-2020 (Thursday) as per the Time Table attached.

Test duration : 10.00 a.m. to 11.00 a.m. (1 Hour)

11.00 a.m. - 11.30 a.m. Break

11.30 a.m. – 12.30 p.m. 2nd Hour (Duration: one hour)

Afternoon classes will be held as per regular timetable.

Question Paper Pattern

PART- A 30*1 = 30 Marks

PART – B 10*2 = 20 Marks

As per the instructions from Anna University Chennai, the Internal Assessment test Marks will be entered in the “Anna University WEB Portal “ as soon as the tests are over. The internal marks will be awarded by Anna University Chennai based on your performance in I.A. Tests. Students are advised to take the I.A. Tests seriously and score more marks.




PRINCIPAL.

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TRICHY - 12.



SARANATHAN COLLEGE OF ENGINEERING

19.01.2021

CIRCULAR

Internal Assessment Test – II (Online mode) for First YEAR B.E. / B.TECH classes will commence from 23-01-2021 (Saturday) as per the Time Table .

Test duration:

10.00 a.m. to 11.00 a.m. (1 Hour)

Class timings after the I.A.Test

11.00 a.m. - 11.30 a.m. : Break

11.30 a.m. – 12.30 p.m. : 2nd Hour

Afternoon classes will be held as per regular timetable.

Question Paper Pattern

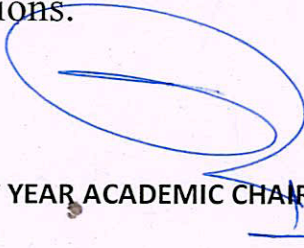
PART- A 30*1 = 30 Marks

PART – B 10*2 = 20 Marks

Staff members handling subjects for the above classes are requested to set the online question link for each subject. The question link should be posted in their respective Google class room FIVE minutes before commence of the online test.

Note:

1. Common Question Paper should be followed for Common Subjects of various sections.


FIRST YEAR ACADEMIC CHAIRPERSON


PRINCIPAL

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TRICHY - 12.



SARANATHAN COLLEGE OF ENGINEERING

25.06.2021

CIRCULAR

Internal Assessment Test- III for I Year B.E / B.Tech classes will commence from 28-06-2021 (Monday) as per the Academic schedule.

Test duration:

9.30 a.m. to 11.00 a.m. (1½ Hours)

Class timings after the I.A. Test

11.00 a.m. - 11.30 a.m. : Break

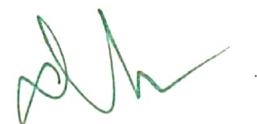
11.30 a.m. – 12.30 p.m. : 2nd Hour

Afternoon classes will be held as per regular timetable.

Question Paper Pattern will be informed by the respective subject handling Staff Members

As per the instructions from Anna University Chennai, the Internal Assessment Test Marks will be entered in the “Anna University WEB Portal “as soon as the tests are over. The internal marks will be awarded by Anna University Chennai based on your performance in I.A. Tests. Students are advised to take the I.A. Tests seriously and score more marks. All Students must be available in their respective Google Class Room Fifteen minutes before the commencement of the test.




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TRICHY - 12.

SARANATHAN COLLEGE OF ENGINEERING

TIME TABLE FOR INTERNAL ASSESSMENT -II FIRST YEAR U.G 2021

DATES	SUBJECT CODE	SUBJECT
23-01-2021	HS8151	COMMUNICATIVE ENGLISH
25-01-2021	MA8151	ENGINEERING MATHEMATICS-I
27-01-2021	CY8151	ENGINEERING CHEMISTRY
29-01-2021	GE8151	PROBLEM SOLVING AND PYTHON PROGRAMMING
30-01-2021	PH8151	ENGINEERING PHYSICS
01-02-2021	GE8152	ENGINEERING GRAPHICS


FIRST YEAR ACADEMIC
CHAIRPERSON


PRINCIPAL
PRINCIPAL
Saranathan College of Engineering
TRICHY - 12,



SARANATHAN COLLEGE OF ENGINEERING

29.04.2021

CIRCULAR

Internal Assessment Test- I for I Year B.E / B.Tech classes will commence from 03.05.2021 (Monday) as per the Academic schedule.

Test duration:

9.30 a.m. to 11.00 a.m. (1½ Hours)

Remaining classes will be held as per regular timetable from 11.30 a.m.

Question Paper Pattern will be informed by the respective subject handling Staff Members

As per the instructions from Anna University Chennai, the Internal Assessment Test Marks will be entered in the “Anna University WEB Portal “as soon as the tests are over. The internal marks will be awarded by Anna University Chennai based on your performance in I.A. Tests. Students are advised to take the I.A. Tests seriously and score more marks. Students must be available in their respective Google Class Room 15 Minutes before the commencement of the Test.



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SARANATHAN COLLEGE OF ENGINEERING

21.10.2021

CIRCULAR

Internal Assessment Test- II for II and III Year B.E / B.Tech classes will commence from 27-10-2021 (Wednesday) in regular offline mode (Pen and Paper mode).

Test duration:

9.15 a.m. to 10.45 a.m. (1½ Hours)

Class timings after the I.A. Test

10.45 a.m. – 11.00 am : Break

11.00 a.m. – 12.00 noon : 2nd Hour

12.00 noon - 1.00 pm : 3rd Hour

Afternoon classes will be held as per regular timetable.

Question Paper Pattern will be informed by the respective subject handling Staff Members

As per the instructions from Anna University Chennai, the Internal Assessment Test Marks will be entered in the “Anna University WEB Portal “as soon as the tests are over. The internal marks will be awarded by Anna University Chennai based on your performance in I.A. Tests. Students are advised to take the I.A. Tests seriously and score more marks. All Students must be seated in their respective allotted place 10 minutes before the commencement of the test.



PRINCIPAL

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TRICHY - 12.

DATES	II CSE - A & B	II ECE - A & B	II EEE - A & B	II IT	II ICE	II MECH - A & B	II CIVIL
27.10.2021	MA8351 DISCRETE MATHEMATICS	MA8352 LINEAR ALGEBRA & PARTIAL DIFFERENTIAL EQUATION.	MA8353 TRANSFORMS & PARTIAL DIFFERENTIAL EQUATION.	MA8351 DISCRETE MATHEMATICS	MA8353 TRANSFORMS & PARTIAL DIFFERENTIAL EQUATION.	MA8353 TRANSFORMS & PARTIAL DIFFERENTIAL EQUATION.	MA8353 TRANSFORMS & PARTIAL DIFFERENTIAL EQUATION.
28.10.2021	CS8351 DIGITAL PRINCIPLES & SYSTEM DESIGN	EC8393 FUNDAMENTALS OF DATA STRUCTURES IN C	EE8351 DIGITAL LOGIC CIRCUITS	CS8351 DIGITAL PRINCIPLES & SYSTEM DESIGN	EE8351 DIGITAL LOGIC CIRCUITS	ME8351 MANUFACTURING TECHNOLOGY-I	CE8301 STRENGTH OF MATERIALS
29.10.2021	EC8395 COMMUNICATION ENGINEERING	EC8351 ELECTRONICS CIRCUITS -I	EE8391 ELECTROMAGNETIC THEORY	EC8394 ANALOG & DIGITAL COMMUNICATION	EC8353 ELECTRON DEVICES & CIRCUITS	EE8353 ELECTRICAL DRIVES & CONTROL	CE8302 FLUID MECHANICS
30.10.2021	CS8391 DATASTRUCTURES	EC8391 CONTROL SYSTEM ENGINEERING	ME 8792 POWER PLANT ENGINEERING	CS8391 DATA STRUCTURES	CS8392 OBJECT ORIENTED PROGRAMMING	CE8394 FLUID MECHANICS & MACHINERY	CE8351 SURVEYING
01.11.2021	CS8392 OBJECT ORIENTED PROGRAMMING	EC8352 SIGNALS & SYSTEMS	EC8353 ELECTRON DEVICES & CIRCUITS	CS8392 OBJECT ORIENTED PROGRAMMING	EI8351 ELECTRICAL MEASUREMENTS	ME8391 ENGG. THERMODYNAMICS	CE8391 CONSTRUCTION MATERIALS
02.11.2021		EC8392 DIGITAL ELECTRONICS	EE8301 ELECTRICAL MACHINES -1		EI8352 TRANSDUCER ENGINEERING		CE8392 ENGINEERING GEOLOGY

DATES	III CSE - A & B	III ECE - A & B	III EEE - A & B	III IT	III ICE	III MECH- A & B	III CIVIL
27.10.2021	CS8592 COMPUTER NETWORKS	EC8501 Digital Communication	EE8551 MICROPROCESSORS & MICROCONTROLLERS	OCE552 GEOGRAPHIC INFORMATION SYSTEM	EI8552 Industrial Instrumentation - II	OAT552 INTERNAL COMBUSTION ENGINES	GE8071 DISASTER MANAGEMENT
28.10.2021	CS8592 OBJECT ORIENTED ANALYSIS & DESIGN	EC8551 Communication Networks	EE8501 POWER SYSTEM ANALYSIS	CS8494 Software Engineering	EI8551 Analytical Instruments	ME8501 METROLOGY & MEASUREMENTS	CE8502 STRUCTURAL ANALYSIS-I
29.10.2021	EC8691 Microprocessors and Microcontrollers	EC8552 Computer Architecture and Organization	OMD551 BASICS OF BIOMEDICAL INSTRUMENTATION	EC8691 Microprocessors and Microcontrollers	EI8553 Process Control	ME8595 Thermal Engineering- II	CE8591 FOUNDATION ENGINEERING
30.10.2021	OCE552 GEOGRAPHIC INFORMATION SYSTEM	EC8553 Discrete-Time Signal Processing	CS8392 Object Oriented Programming	CS8591 Computer Networks	EE8551 Microprocessors and Microcontrollers	ME8594 DYNAMICS OF MACHINES	CE8501 DESIGN OF REINFORCED CONCRETE ELEMENTS
01.11.2021	MA8551 Algebra and Number Theory	EC8073 MEDICAL ELECTRONICS	EE8591 Digital Signal Processing	MA8551 Algebra and Number Theory	OCE551 AIR POLLUTION AND CONTROL ENGINEERING	ME8593 DESIGN OF MACHINE ELEMENTS	OAI551 ENVIRONMENT AND AGRICULTURE
02.11.2021	CS8501 THEORY OF COMPUTATION	OTL552 DIGITAL AUDIO ENGINEERING	EE8552 POWER ELECTRONICS	IT8501 Web Technology	EI8093 Unit Operation and Control		EN8491 WATER SUPPLY ENGINEERING

SARANATHAN COLLEGE OF ENGINEERING - TRICHY-12

INTERNAL ASSESSMENT TEST -I FOR II AND III YEAR BE/B.TECH - ODD SEM 2021

SEATING ARRANGEMENT

S.No	ROOM NO	BRANCH	SECTION	YEAR	Batch No - (From - To)
1	RV 301	CIVIL	A	II	237001 - 237016
2	RV 302	CIVIL	A	II	237017- 237026
3	RV 303	CIVIL	A	III	227001 - 227003
4	RV 304	CIVIL	A	III	227004 - 227020
5	RV 305	CIVIL	A	III	227021 - 227038
6	RV 306	CIVIL	A	III	227039 - 227042
7	RV 404	CSE	A	II	231001 - 231010
8	RV 405	CSE	A	II	231011 - 231026
9	RV 406	CSE	A	II	231027 - 231042
10	RV 407	CSE	A	II	231043 - 231058
11	RV 409	CSE	A	II	231059 - 231060
12	RV 414	CSE	A	III	221001 - 221007
13	RV 415	CSE	A	III	221008 - 221024
14	KS 109	CSE	A	III	221025-221041
15	KS 110	CSE	A	III	221042-221059
16	KS 111	CSE	A	III	221060-221123
17	KS 111	CSE	B	III	221061-221075
18	KS 113	CSE	B	III	221076-221093
19	KS 114	CSE	B	II	231061-231075
20	KS 114	CSE	B	III	221094-221112
21	KS 213	CSE	B	III	221113-221124
22	KS 213	CSE	B	II	231076-231088
23	KS 214	CSE	B	II	231089-231108
24	KS 215	CSE	B	II	231109-231114
25	KS 312	CSE	B	II	231115-231120
26	RV 402	ECE	A	III	222001 - 222016
27	RV 403	ECE	A	III	222017 - 222032
28	RV 404	ECE	A	III	222033 - 222049
29	RV 405	ECE	A	III	222050 - 222061
30	RV 409	ECE	A	II	232001 - 232015
31	RV 410	ECE	A	II	232016 - 232031
32	RV 412	ECE	A	II	232032 - 232048
33	RV 413	ECE	A	II	232049 - 232054 & 232108
34	RV 413	ECE	B	II	232055 - 232064
35	RV 414	ECE	B	II	232065 - 232081
36	RV 415	ECE	B	II	232082 - 232097
37	KS 109	ECE	B	II	232098-232107
38	KS 307	ECE	B	III	222062-222076
39	KS 311	ECE	B	III	222077-222096
40	KS 312	ECE	B	III	222097-222121
41	RV 301	EEE		III	223001 - 223018

SARANATHAN COLLEGE OF ENGINEERING - TRICHY-12

INTERNAL ASSESSMENT TEST -I FOR II AND III YEAR BE/B.TECH - ODD SEM 2021

SEATING ARRANGEMENT

42	RV 302	EEE	A	III	223019 - 223034
43	RV 303	EEE	A	III	223035 - 223046, 223094,95 & 98
44	RV 306	EEE	B	III	223047 - 223059
45	RV 307	EEE	B	III	223060 - 223076
46	RV 316	EEE	B	III	223077 - 223097
47	KS 109	EEE	A	II	233001-233007
48	KS 110	EEE	A	II	233008-233025
49	KS 111	EEE	A	II	233026-233045
50	KS 113	EEE	A	II	233046-233064
51	KS 114	EEE	A	II	233065-233069
52	RV 305	ICE	A	II	235001 - 235008
53	RV 306	ICE	A	II	235009 - 235024
54	RV 307	ICE	A	II	235025 ,235026
55	RV 410	ICE	A	III	225001 - 225004
56	RV 412	ICE	A	III	225005 - 225020
57	RV 413	ICE	A	III	225021 - 225038
58	RV 414	ICE	A	III	225039 - 225047
59	RV 302	IT	A	II	234001 - 234006
60	RV 303	IT	A	II	234007 - 234022
61	RV 304	IT	A	II	234023 - 204038
62	RV 305	IT	A	II	234040 - 234047
63	KS 215	IT	A	III	224001-224014
64	KS 307	IT	A	III	224015-224035
65	KS 311	IT	A	III	224036-224055
66	KS 312	IT	A	III	224056-224062
67	RV 307	MECH	A	II	236001 - 236014
68	RV 316	MECH	A	II	236015 - 236033
69	RV 402	MECH	A	II	236034 - 236050
70	RV 403	MECH	A	II	236051 - 236066
71	RV 404	MECH	A	II	236067 - 236072
72	RV 405	MECH	A	III	226001 - 226004
73	RV 406	MECH	A	III	226005 - 226020
74	RV 407	MECH	A	III	226021 - 226037
75	RV 409	MECH	A	III	226038 - 226054
76	RV 410	MECH	A	III	226055 - 226134
77	KS 213	MECH	B	III	226063-226084
78	KS 214	MECH	B	III	226085-226104
79	KS 215	MECH	B	III	226105-226125
80	KS 307	MECH	B	III	226126-226135



SARANATHAN COLLEGE OF ENGINEERING

04.09.2020

CIRCULAR

Internal Assessment Test- I for II, III, IV B.E / B.Tech classes will commence from 11.09.2020 as per the Academic schedule.

Test duration:

9.30 a.m. to 11.00 a.m. (1½ Hours)

3.00 p.m to 4.30p.m (1½ Hours)

Question Paper Pattern will be informed by the respective subject handling Staff Members

As per the instructions from Anna University Chennai, the Internal Assessment Test Marks will be entered in the “Anna University WEB Portal “as soon as the tests are over. The internal marks will be awarded by Anna University Chennai based on your performance in I.A. Tests. Students are advised to take the I.A. Tests seriously and score more marks. All Students must be available in their respective Google Class Room and Google Meet Fifteen minutes before the commencement of the test.

PRINCIPAL

SARANATHAN COLLEGE OF ENGINEERING
TIME TABLE FOR ONLINE ASSESSMENT TEST - ODD SEM 2020

Department of Information Technology

Year / Sem: II / III

DATES	TIME: 9.30 AM TO 11.00 AM	TIME: 3.00 PM TO 4.30 PM
11.09.2020	CS8392-Object Oriented Programming	EC8394- Analog and Digital Communication
12.9.2020	CS8351-Digital Principles and System Design	CS8391-Data Structures
14.9.2020	MA8351-Discrete Mathematics	Regular Classes will be Conducted in the AN Session

IA test1 **Class : III year(5th sem)**

DATES	Timings(FN) 9.30 am to 11am	Timings(AN): 3.00 to 4.30pm
11.9.2020	CS8591-Computer Networks	EC8691-Microprocessors and Microcontrollers
12.9.2020	OCE552-Geographic Information System	IT8501-Web Technology
14.9.2020	MA8551-Algebra and Number Theory	CS8494-Software Engineering

IATEST -1 FOR FINAL YEARS

TIMING:9:00PM-9:30PM

Date	SubCode	Sub name
11/9/2020	MG8591	Principles of Management
12/9/2020(FN)	CS8792	Cryptography and Network Security
12/9/2020(AN)	CS8791	Cloud Computing
14/09/2020	OBM752	Hospital Management
15/09/2020	IT8075	Software Project Management
16/09/2020	CS8073	C# & .Net Programming


HoD-IT


Principal



Saranathan College of Engineering
Tiruchirappalli - 620012

Internal Assessment Test - II			Date/Session	6.10.20 / AN	Marks	50
Course code	EC8552	Course Title	COMPUTER ARCHITECTURE AND ORGANISATION			
Batch No.		Duration	90 mins	Academic Year	2020-2021/ODD	
Year	III	Semester	V	Department	ECE - A & B	

Part - A (20 Marks)

(10x1=10 Marks)

I. Choose the correct Answer for the following Questions

Q. No.	Questions	CO	Skills
1.(a)	How many bits of information can handle by half adder circuit? a. 16 b. 10 c. 8 d. 2	C503.2	U
1.(b)	The m-bit parallel adder consists of- a. (m+1) full adders b. m/2 full adders c. m-1 full adders d. m full adders e. None of the above	C503.2	U
2.(a)	When 1101 is used to divide 100010010 the remainder is _____. a) 101 b) 11 c) 0 d) 1	C503.2	U
2.(b)	How can we represent the following sign magnitude representation of binary number + 1101.011 A) 01101.011 B) 11101.011 C) 00110.100 D) 10010.100	C503.2	U
3.(a)	A computer with a 32-bit word size uses 2's complement to represent numbers. The range of integers that can be represented by this computer is A) -2^{32} to 2^{32} B) -2^{32} to 2^{31} C) -2^{31} to $2^{31}-1$ D) -2^{32} to 2^{31}	C503.2	R
3.(b)	Which of the following binary numbers is the same as its 2's complement? a) 1010 b) 0101 c) 1000 d) 1001	C503.2	R
4.(a)	Find the result for $(0011\ 1000)_2$ by $(1000)_2$? a) $(1100)_2$ b) $(1110)_2$ c) $(0011)_2$ d) $(00111)_2$	C503.2	E
4.(b)	The longest delay of 16 bit carry look ahead adder is a. 16 gate delays b. 34 gate delays c. 32 gate delays	C503.2	R

5.(a)	d. 4 gate delays	C503.2	U
	In Booth's algorithm, if $Q_0=1$ and $Q_{-1}=0$ then it will perform which operation. a. $A=A-M$ b. $A=A+M$ c. Arithmetic right shift of A, Q and Q_{-1} d. $A=M-A$		
5.(b)	The most efficient method to multiply two unsigned numbers are a) Booth algorithm b) Bit pair recording of multipliers c) Restoring algorithm d) Non restoring algorithm	C503.2	R

(5x2=10 Marks)

II. Answer all the Questions			
Q.No.	Questions	CO	Skills
6	What is Carry Save Addition?	C503.2	R
7	What are the advantages of Booth algorithm?	C503.2	U
8	Draw the full adder circuit and give the truth table.	C503.2	C
9	Name two techniques for speeding up the multiplication operations.	C503.2	R
10	When can overflow occurs in addition?	C503.2	U

Part – B

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

Q.No.	Questions	CO	Skills
11	i. Design Binary addition subtraction logic unit using control lines. ii. Perform $X + Y$ and $Y - X$ using 2's complement for the given two binary numbers $X = 0000\ 1011\ 1110\ 1111$ $Y = 1111\ 0010\ 1001\ 1101$	C503.2	C
	Or		
12	Explain non restoring division algorithm and using this algorithm perform the division on the following 5-bit unsigned integer, $15 / 3$.	C503.1	E
13	Dividend = 01110, Divisor = 10001 find the Remainder using Restoring method	C503.2	E
	Or		
14	Explain about Carry Save Addition method for unsigned numbers in detail.	C503.2	R

Part – C

(Answer all the questions 1 x 10 = 10marks)

Q.No.	Questions	CO	Skills
15	Multiply $A = 001110$ and $B = 111001$ for given signed 2's complement numbers using modified booth algorithm, where A is the multiplicand and B is the multiplier.	C503.2	E
16	Or	C503.2	AZ
	Multiply 14 times with -5 using 5-bit number. Find 10 bit Result.		

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

Name of the Faculty In-charge: J.Sangeetha Priya-IT / A.Sheelavathi-IT

Saranathan College of Engineering

Tiruchirapalli

Internal Assessment Test – II			Date/Session	27/04/2021/FN	Marks	50
Course code	CS8091	Course Title	BIG DATA ANALYTICS			
Batch No.		Duration	90 mins	Academic Year	2020 – 2021	
Year/	III	Semester/Section	VI/A	Department	IT	

Part – A

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

Q. No.	Questions	CO	Skills
1	Is recommendation systems is personalized information retrieval systems? Justify.	C313.4	U
2	Analyze the Pros and Cons of content based recommendation systems?	C313.4	U
3	Derive Pearson coefficient and what is the other similarity measures used in recommendation systems?	C313.4	R,U
4	Distinguish between classification and clustering	C313.2	U
5	Analyze the categorization of clustering Methods	C313.2	U

Part – B

(Answer all the questions 5 x 8 = 40marks)

Q. No.	Questions	CO	Skills												
6	Analyze about memory based collaborative recommendation systems and reason about pros and Cons	C313.4	A												
Or															
7	Derive the features of knowledge based recommendation systems with neat diagram.	C313.4	U												
Or															
8	Illustrate the value of Cosine similarity and how it is used in Recommendation Systems.	C313.4	R,U												
Or															
9	Compare and Contrast the different types of recommendation systems	C313.4	U												
10	Illustrate with an example of how A-priori algorithms used in finding frequent itemsets	C313.3	U												
Or															
11	Apply A-priori Algorithm to Find all frequent itemsets for the following data set.Use Min_sup = 2 <table><tr><td>Tid</td><td>Items</td></tr><tr><td>1</td><td>M,O,N,K,E,Y</td></tr><tr><td>2</td><td>D,O,N,K,E,Y</td></tr><tr><td>3</td><td>M,A,K,E</td></tr><tr><td>4</td><td>M.U,C,K,Y</td></tr><tr><td>5</td><td>C,O,O,K,I,E</td></tr></table>	Tid	Items	1	M,O,N,K,E,Y	2	D,O,N,K,E,Y	3	M,A,K,E	4	M.U,C,K,Y	5	C,O,O,K,I,E	C313.3	A
Tid	Items														
1	M,O,N,K,E,Y														
2	D,O,N,K,E,Y														
3	M,A,K,E														
4	M.U,C,K,Y														
5	C,O,O,K,I,E														
12	Apply FP Growth Algorithm for the below data set	C313.3	A												

	<table> <tr> <th>Tid</th><th>Items</th><th>Tid</th><th>Items</th></tr> <tr> <td>1</td><td>I1,I2,I5</td><td>6</td><td>I2,I3</td></tr> <tr> <td>2</td><td>I2,I4</td><td>7</td><td>I1,I3</td></tr> <tr> <td>3</td><td>I2,I3</td><td>8</td><td>I1,I2,I3,I5</td></tr> <tr> <td>4</td><td>I1,I2,I4</td><td>9</td><td>I1,I2,I3</td></tr> <tr> <td>5</td><td>I1,I3</td><td></td><td></td></tr> </table>	Tid	Items	Tid	Items	1	I1,I2,I5	6	I2,I3	2	I2,I4	7	I1,I3	3	I2,I3	8	I1,I2,I3,I5	4	I1,I2,I4	9	I1,I2,I3	5	I1,I3				
Tid	Items	Tid	Items																								
1	I1,I2,I5	6	I2,I3																								
2	I2,I4	7	I1,I3																								
3	I2,I3	8	I1,I2,I3,I5																								
4	I1,I2,I4	9	I1,I2,I3																								
5	I1,I3																										
Or																											
13	Derive the Features of FP Growth algorithm for finding frequent items sets	C313.3	AZ																								
14	Consider five points$\{X_1, X_2, X_3, X_4, X_5\}$ with the following coordinates as a two dimensional sample for clustering $X_1-(0,2), X_2-(0,0), X_3-(1.5,0), X_4-(5,0), X_5-(5,2)$ Illustrate the K-Means Partitioning algorithm using the above data set	C313.2	A																								
Or																											
15	Analyze the features of K-Means algorithm with an example	C313.2	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

Name of the Staff: P.ANAND, AP/IT



SARANATHAN COLLEGE OF ENGINEERING

Tiruchirapalli - 620 012

ANSWER BOOK

Name	Keruthika . K			Year / Semester / Section	II / IV
Batch No.	224032	Date / Session	29/4/21 FN	Department	IT
Course Code	CS8451	Course Title	Design & Analysis of Algorithm		
Internal Assessment Test	I ☐	II ☒	III ☐	Model ☐	No. of pages used :
Name and Signature of the Invigilator with date					

INSTRUCTIONS TO THE CANDIDATES :

- Answers for Part-A must be written in pages 2-6. Answers for Part-B must be written from page 7 onwards.
- Write your Batch Number in the Question Paper.
- Use both sides of the paper for answering questions.
- The answer book contains sufficient pages and no additional sheets will be given.
- Possession of any incriminating material and malpractice of any nature shall be punishable as per rules.
- 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	16				8	8
2		1	17		7			7
3		2	18		8		8	8
4		0	19		6			6
5		1	10		8			8
6			16					
7			Total					37
8			43					
9								
10								
Total		6	Grand Total				N. BHAVANI Name and Signature of the Examiner with date: 29/4/21	

To be filled by the examiner

Course Outcomes	1	2	3	4	5	6	Total
Marks allotted		10	20	20			50
Marks Obtained		10	18	15			43
QAC Audit - Remarks							P. Anand Name and Signature of the QAC member

SARANATHAN COLLEGE OF ENGINEERING

Tiruchirapalli - 620 012

ANSWER BOOK



Name	V. Manodurga			Year / Semester / Section	III / 5th
Batch No.	212057	Date / Session	12/9/20	Department	ECE
Course Code	EC8552	Course Title	CAO		
Internal Assessment Test	I ☒	II ☐	III ☐	Model ☐	No. of pages used :
Name and Signature of the Invigilator with date					

INSTRUCTIONS TO THE CANDIDATES :

- Answers for Part-A must be written in pages 2-6. Answers for Part-B must be written from page 7 onwards.
- Write your Batch Number in the Question Paper.
- Use both sides of the paper for answering questions.
- The answer book contains sufficient pages and no additional sheets will be given.
- Possession of any incriminating material and malpractice of any nature shall be punishable as per rules.
- 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		1/1	11		9		9
2		1/1	12				
3		1/1	13		9		9
4		1/1	14				
5		1/1	15		8		8
6		2	16				
7		2	Total				26
8		2	$\frac{46}{50} = 92\%$				
9		2					
10		2					
Total		20	Grand Total				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	100						100
Marks Obtained	92						92

QAC Audit - Remarks

Name and Signature of the QAC member

Staff Code: jspriya-it,Assessment Test -1 [Date of Exam -31/03/21]

Branch: IT Semester: 4 Subject Code: CS8491 - Sec A ,ShortTitle: CA

1. For All tests,Please Enter Marks Secured for 100.
2. Total Marks for Absentees Should be marked only as -1. COs for Absentees should be entered as Zero.
3. Do not Prefix 0 for Single Digit Marks Eg: If the mark to be entered is 8,put the entry as 8.
4. Mark entry in this screen is Applicable only for UG-Assessment Tests.

S.no	Batchno	Register Number	Name	C1 out of [70]	C2 out of [30]	Total MarksSecured [out of 100]
1	224001	813819205001	AARTHIKHA. R	68	28	96
2	224002	813819205002	ABIMANYU. T	61	20	81
3	224003	813819205003	ABINAYA. S	60	20	80
4	224004	813819205004	ABISHEK. A S	68	28	96
5	224005	813819205005	AJET GANAPATHY. A	60	20	80
6	224006	813819205006	AMRESH. K	58	20	78
7	224007	813819205007	ANUVARSHINI . G	55	20	75
8	224008	813819205008	ARSAH. A	66	28	94
9	224009	813819205009	ARUN KUMAR. S	62	22	84
10	224010	813819205010	ASWINI DEVI. B	66	28	94
11	224011	813819205011	BOWSHIYA RANI.	58	20	78

			R			
12	224012	813819205012	CHANDRU. S	58	28	86
13	224013	813819205013	DEVI. E	60	20	80
14	224014	813819205014	DHARUN UDHAYA. K	50	22	72
15	224015	813819205015	DHIVAGAR. P	51	22	73
16	224016	813819205016	DIVYAA. S K	60	20	80
17	224017	813819205017	GANESH. V	60	25	85
18	224019	813819205018	HARINI. S	60	20	80
19	224020	813819205019	HARISH. R	50	15	65
20	224021	813819205020	HARSHAVARTHAN. S R	50	19	69
21	224022	813819205021	INDHUMATHI. A	65	25	90
22	224023	813819205022	INFANT SIBI. S	50	10	60
23	224024	813819205023	JAI KRISHNA. N	50	12	62
24	224025	813819205024	KAAVYA. R	65	24	89
25	224026	813819205025	KALAIARASU. T	68	28	96
26	224027	813819205026	KALPANA. S	50	25	75
27	224028	813819205027	KAROLIN KIRUBA. R	64	28	92
28	224029	813819205028	KAVIYA THARSINI. L	62	28	90
29	224030	813819205029	KEERTHANA. M	62	21	83
30	224031	813819205030	KEERTHANA. S	62	22	84
31	224032	813819205031	KIRUTHIKA. K	68	28	96
32	224033	813819205032	KISHAN. I	58	28	86
33	224034	813819205033	KISHORE. M.G	61	25	86
34	224035	813819205034	MALOLAN. B A	60	20	80
35	224036	813819205035	MANOJ DEEPAK.	60	22	82

			S			
36	224037	813819205036	MOHAMED AMEEN. A	68	26	94
37	224038	813819205037	MOHAN RAM. M	61	20	81
38	224039	813819205038	MUKESH BALAJI. N	60	23	83
39	224040	813819205039	NARAESH ARCHUN. K	67	25	92
40	224041	813819205040	NAVEEN. T	65	27	92
41	224042	813819205041	NEEKITHA. C	64	24	88
42	224043	813819205042	NISHA. M	65	27	92
43	224044	813819205043	NISHANTHINI. S	63	28	91
44	224045	813819205044	PRAJITH. R	62	25	87
45	224046	813819205045	PRITHIKA. T	64	24	88
46	224047	813819205046	RABEKA. S	61	21	82
47	224048	813819205047	RAHUL. R	63	22	85
48	224049	813819205048	RAJAMURUGAN. M	62	22	84
49	224050	813819205049	RAMACHANDRAN. A	61	28	89
50	224051	813819205050	RATNAKUMAR. A	68	28	96
51	224052	813819205051	SABARISHAN. M	63	28	91
52	224053	813819205052	SAMYUKTHA. C	66	28	94
53	224054	813819205053	SEENI ARIVAZHAKAN	64	26	90
54	224055	813819205054	SHAHIN ASHRA. S	65	28	93
55	224056	813819205055	SINDHUJA. J	63	24	87
56	224057	813819205056	SRI JANE. A	67	25	92
57	224058	813819205057	SRINIVASAN. M A	63	22	85

58	224059	813819205058	SURIYANAD. S	61	21	82
59	224060	813819205059	VAITHEESWARAN. L M	68	28	96
60	224061	813819205060	VENNKAT BHARATHI. S	68	27	95
61	224062	813819205061	VIWIN ROJAN. P	64	26	90

You have already submitted marks for this subject. Sorry No More Correction Possible.



SARANATHAN COLLEGE OF ENGINEERING

1.10.2020

CIRCULAR

Internal Assessment Test – II (online mode) for Final Year B.Tech classes will commence from 5/10/2020(Monday) as per the timetable attached.

-Test Duration:

9.30 a.m. to 11.00 am (1 ½ Hours)

3.00 p.m. – 04.30 p.m

As per the instructions from Anna University Chennai, the Internal Assessment Test Marks will be entered in the “Anna University WEB Portal “as soon as the tests are over. The internal marks will be awarded by Anna University Chennai based on your performance in I.A. Tests. Students are advised to take the I.A. Tests seriously and score more marks. All Students must be available in their respective Google Class Room and Google Meet Fifteen minutes before the commencement of Online Examination.

R. Srinivasan

HoD -IT

SARANATHAN COLLEGE OF ENGINEERING

DEPARTMENT OF INFORMATION TECHNOLOGY

IATEST -2 Schedule

Final Year

Date	Session	Subject Code	Subject Name
05-11-2020	FN	MG8591	PRINCIPLES OF MANAGEMENT
05-11-2020	AN	CS8792	CRYPTOGRAPHY AND NETWORK SECURITY
06-11-2020	FN	CS8791	CLOUD COMPUTING
06-11-2020	AN	OBM752	HOSPITAL MANAGEMENT
07-11-2020	FN	IT8075	SOFTWARE PROJECT MGMT
07-11-2020	AN	CS8073	C# AND .NET PROGRAMMING

Third Year

Date	Session	Subject Code	Subject Name
05-11-2020	FN	CS8591	Computer Networks
05-11-2020	AN	EC8691	Microprocessors and Microcontrollers
06-11-2020	FN	OCE552	Geographic Information System
06-11-2020	AN	IT8501	Web Technology
07-11-2020	FN	MA8551	Algebra and Number Theory
07-11-2020	AN	CS8494	Software Engineering

Second Year

Date	Session	Subject Code	Subject Name
05-11-2020	FN	CS8392	Object Oriented Programming
05-11-2020	AN	EC8394	Analog and Digital Communication
06-11-2020	FN	CS8351	Digital Principles and System Design
06-11-2020	AN	CS8391	Data Structures
07-11-2020	FN	MA8351	Discrete Mathematics
07-11-2020	AN	Regular Classes will be Conducted in the AN Session	

R. Suresh

Hod-IT



SARANATHAN COLLEGE OF ENGINEERING

29.10.2020

CIRCULAR

Internal Assessment Test – III (online mode) for Final Year B.Tech classes will commence from 2/11/2020(Monday) as per the timetable attached.

-Test Duration:

9.30 a.m. to 11.00 am (1 ½ Hours)

3.00 p.m. – 04.30 p.m (1 ½ Hours)

As per the instructions from Anna University Chennai, the Internal Assessment Test Marks will be entered in the “Anna University WEB Portal “as soon as the tests are over. The internal marks will be awarded by Anna University Chennai based on your performance in I.A. Tests. Students are advised to take the I.A. Tests seriously and score more marks. All Students must be available in their respective Google Class Room and Google Meet Fifteen minutes before the commencement of Online Examination.

R. Srinivasan

HoD -IT

SARANATHAN COLLEGE OF ENGINEERING

DEPARTMENT OF INFORMATION TECHNOLOGY

IATEST -3 Schedule

Final Year

Date	Session	Subject Code	Subject Name
02-11-2020	FN	MG8591	PRINCIPLES OF MANAGEMENT
02-11-2020	AN	CS8792	CRYPTOGRAPHY AND NETWORK SECURITY
03-11-2020	FN	CS8791	CLOUD COMPUTING
03-11-2020	AN	OBM752	HOSPITAL MANAGEMENT
04-11-2020	FN	IT8075	SOFTWARE PROJECT MGMT
04-11-2020	AN	CS8073	C# AND .NET PROGRAMMING

Third Year

Date	Session	Subject Code	Subject Name
02-11-2020	FN	CS8591	Computer Networks
02-11-2020	AN	EC8691	Microprocessors and Microcontrollers
03-11-2020	FN	OCE552	Geographic Information System
03-11-2020	AN	IT8501	Web Technology
04-11-2020	FN	MA8551	Algebra and Number Theory
04-11-2020	AN	CS8494	Software Engineering

Second Year

Date	Session	Subject Code	Subject Name
02-11-2020	FN	CS8392	Object Oriented Programming
02-11-2020	AN	EC8394	Analog and Digital Communication
03-11-2020	FN	CS8351	Digital Principles and System Design
03-11-2020	AN	CS8391	Data Structures
04-11-2020	FN	MA8351	Discrete Mathematics
04-11-2020	AN	Regular Classes will be Conducted in the AN Session	

R. Suresh

Hod-IT

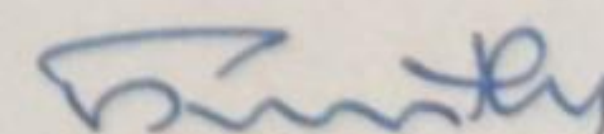
SARANATHAN COLLEGE OF ENGINEERING

DEPARTMENT OF INFORMATION TECHNOLOGY

IA TEST 1 – SCHEDULE

Timings: 10.00 am to 11. 00 am

Sno	Date & Day	Second Year	Third Year
1	29-03-2021 & Monday	MA8391-Probability and Statistics Dr. R Neelambari	IT8076-Software Testing Ms.M.Padmapriya
2	30-03-2021& Tuesday	GE8291-Environmental Science and Engineering Dr. V Balamurugan	IT8602-Mobile Communication Mr. V. Manoj Kumar
3	31-03-2021 & Wednesday	CS8491-Computer Architecture Ms.J.Sangeethapriya	IT8601 -Computational Intelligence Dr.V.Punitha
4	01-03-2021& Thursday	CS8492-Database Management Systems Mr.R.Rangaraj	CS8592-Object Oriented Analysis and Design Mr.V.Senthilbalaji
5	02-03-2021 & Friday	CS8451-Design and analysis of algorithms Ms.N.Bhavani	CS8092-Computer Graphics and Multimedia Ms.J.Sangeethapriya
6	03-03-2021 & Saturday	CS8493-Operating Systems Ms.M.Padmapriya	CS8091-Big Data Analytics Mr.P.Anand



HoD -IT

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Saranathan College of Engg.,
Trichirapalli - 620 012.



SARANATHAN COLLEGE OF ENGINEERING

25.03.2021

CIRCULAR

Internal Assessment Test – I (online mode) for Second and Third Year B.Tech classes will commence from 29-03-2021(Monday) as per the timetable attached.

-Test Duration:

10.00 a.m to 11.00 a.m (1 Hour)

Class Timings after the I.A.Test

11.00a.m. – 11.30 a.m: Break

11.30 a.m – 12.30 pm : 2nd Hour (Duration: one hour)

Afternoon Classes will be held as per regular timetable.

Staff members handling subjects for the above classes are requested to set 2 sets of Question paper and create the online question link for each subject (In the attached format). **The question link should be posted in their respective Google class room FIVE minutes before the commencement of Online Examination.**

HoD -IT

H.O.D. (IT)

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Trichirapalli - 620 012.**



SARANATHAN COLLEGE OF ENGINEERING

21.04.2021

CIRCULAR

-Test Duration:

09.30 a.m to 11.00 a.m

Class Timings after the I.A. Test

11.00a.m. – 11.30 a.m: Break

11.30 a.m – 12.30 pm : 2nd Hour (Duration: one hour)

Afternoon Classes will be held as per regular timetable.

Question Paper Pattern

- Part A shall have 5 questions (5 X 2 = 10 Marks)
- Part B shall have 5 questions (5 X 8 = 40 Marks)

As per the instruction from Anna University Chennai, the internal Assessment Test Marks will be entered in the “Anna University WEB Portal” as soon as the tests are over. The internal marks will be awarded by Anna University Chennai based on your performance in I.A. Tests. Students are advised to take the I.A. Tests seriously and score good marks.


HoD / IT 21/4/2021
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Trichirapalli - 620 012.

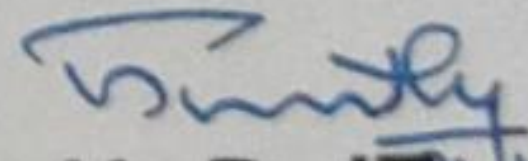
SARANATHAN COLLEGE OF ENGINEERING

DEPARTMENT OF INFORMATION TECHNOLOGY

IA TEST II- SCHEDULE

Timings: 09.30 am to 11. 00 am

Sno	Date & Day	Second Year	Third Year
1	24-04-2021 & Saturday	MA8391-Probability and Statistics Dr. R Neelambari	IT8076-Software Testing Ms.M.Padmapriya
2	26-04-2021 & Monday	GE8291-Environmental Science and Engineering Dr. V Balamurugan	CS8592-Object Oriented Analysis and Design Mr.V.Senthilbalaji
3	27-04-2021 & Tuesday	CS8491-Computer Architecture Ms.J.Sangeethapriya	CS8091-Big Data Analytics Mr.P.Anand
4	28-04-2021 & Wednesday	CS8492-Database Management Systems Mr.R.Rangaraj	IT8602-Mobile Communication Mr. V. Manoj Kumar
5	29-04-2021 & Thursday	CS8451-Design and analysis of algorithms Ms.N.Bhavani	CS8092-Computer Graphics and Multimedia Ms.J.Sangeethapriya
6	30-04-2021 & Friday	CS8493-Operating Systems Ms.M.Padmapriya	IT8601 -Computational Intelligence Dr.V.Punitha


HoD -IT 21/4/2021
H.O.D. (IT)
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Trichirapalli - 620 012.



SARANATHAN COLLEGE OF ENGINEERING

14.05.2021

CIRCULAR

- Test Duration:

09.30 a.m to 11.00 a.m

Class Timings after the I.A. Test

11.00a.m. – 11.30 a.m: Break

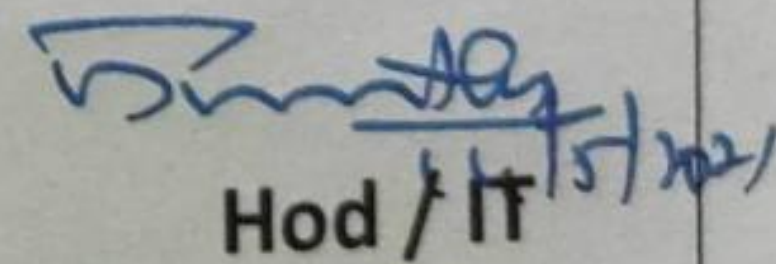
11.30 a.m – 12.30 pm : 2nd Hour (Duration: one hour)

Afternoon Classes will be held as per regular timetable.

Question Paper Pattern

- Part A shall have 5 questions (5 X 2 = 10 Marks)
- Part B shall have 5 questions (5 X 8 = 40 Marks)

As per the instruction from Anna University Chennai, the internal Assessment Test Marks will be entered in the “Anna University WEB Portal” as soon as the tests are over. The internal marks will be awarded by Anna University Chennai based on your performance in I.A. Tests. Students are advised to take the I.A. Tests seriously and score good marks.


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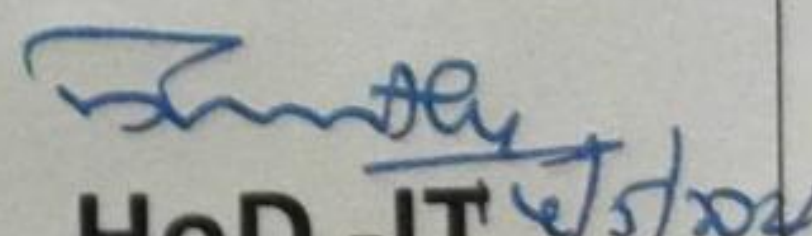
SARANATHAN COLLEGE OF ENGINEERING

DEPARTMENT OF INFORMATION TECHNOLOGY

IA TEST III– SCHEDULE

Timings: 09.30 am to 11. 00 am

Sno	Date & Day	Second Year	Third Year
1	17-05-2021 & Monday	MA8391-Probability and Statistics Dr. R Neelambari	IT8076-Software Testing Ms.M.Padmapriya
2	18-05-2021 & Tuesday	GE8291-Environmental Science and Engineering Dr. V Balamurugan	CS8592-Object Oriented Analysis and Design Mr.V.Senthilbalaji
3	19-05-2021 & Wednesday	CS8491-Computer Architecture Ms.J.Sangeethapriya	CS8091-Big Data Analytics Mr.P.Anand
4	20-05-2021 & Thursday	CS8492-Database Management Systems Mr.R.Rangaraj	IT8602-Mobile Communication Mr. V. Manoj Kumar
5	21-05-2021 & Friday	CS8451-Design and analysis of algorithms Ms.N.Bhavani	CS8092-Computer Graphics and Multimedia Ms.J.Sangeethapriya
6	22-05-2021 & Saturday	CS8493-Operating Systems Ms.M.Padmapriya	IT8601 -Computational Intelligence Dr.V.Punitha


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Trichirapalli - 621112



SARANATHAN COLLEGE OF ENGINEERING

Tiruchirapalli - 620 012

ANSWER BOOK

Name	AISHWARYA .W			Year / Semester / Section	III / VI / A
Batch No.	214001	Date / Session		Department	IT
Course Code	IT8602	Course Title	Mobile Communications		
Internal Assessment Test	I ☒	II ☐	III ☐	Model ☐	No. of pages used :
Name and Signature of the Invigilator with date					

INSTRUCTIONS TO THE CANDIDATES :

- Answers for Part-A must be written in pages 2-6. Answers for Part-B must be written from page 7 onwards.
- Write your Batch Number in the Question Paper.
- Use both sides of the paper for answering questions.
- The answer book contains sufficient pages and no additional sheets will be given.
- Possession of any incriminating material and malpractice of any nature shall be punishable as per rules.
- 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			11					
2			12					
3			13					
4			14					
5			15					
6			16					
7			Total					
8			68			Name and Signature of the Examiner with date		
9								
10								
Total			Grand Total					

To be filled by the examiner

Course Outcomes	1	2	3	4	5	6	Total
Marks allotted	65	35					
Marks Obtained	46	22					

QAC Audit - Remarks

P. Anand
Name and Signature
of the QAC member



SARANATHAN COLLEGE OF ENGINEERING

Tiruchirapalli - 620 012

ANSWER BOOK

Name	Kareeghini . S			Year / Semester / Section	IV / I / A
Batch No.	214019	Date / Session	28/4/21 / RN	Department	IT
Course Code	IT8602	Course Title	Mobile Communications		
Internal Assessment Test	I ☐	II ☒	III ☐	Model ☐	No. of pages used :
Name and Signature of the Invigilator with date					

INSTRUCTIONS TO THE CANDIDATES :

- Answers for Part-A must be written in pages 2-6. Answers for Part-B must be written from page 7 onwards.
- Write your Batch Number in the Question Paper.
- Use both sides of the paper for answering questions.
- The answer book contains sufficient pages and no additional sheets will be given.
- Possession of any incriminating material and malpractice of any nature shall be punishable as per rules.
- 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				8	8
3	✓	2	13				7	7
4	✓	2	14				7	7
5	✓	2	15				7	7
6			16					
7			Total					36
8			46					Name and Signature of the Examiner with date Manojathra . V [Signature]
9								
10								
Total		10	Grand Total					

To be filled by the examiner							
Course Outcomes	1	2	3	4	5	6	Total
Marks allotted			14	36			50 / 100
Marks Obtained			13	33			46 / 92
QAC Audit - Remarks							Name and Signature of the QAC member [Signature]



SARANATHAN COLLEGE OF ENGINEERING

Tiruchirapalli - 620 012

ANSWER BOOK

Name	Janani R.S			Year / Semester / Section	21/VI/A
Batch No.	214016	Date / Session	20/5/24	Department	ET
Course Code	ET8602	Course Title	Mobile Communications		
Internal Assessment Test	I ☐	II ☐	III ☒	Model ☐	No. of pages used :
Name and Signature of the Invigilator with date					

INSTRUCTIONS TO THE CANDIDATES :

- Answers for Part-A must be written in pages 2-6. Answers for Part-B must be written from page 7 onwards.
- Write your Batch Number in the Question Paper.
- Use both sides of the paper for answering questions.
- The answer book contains sufficient pages and no additional sheets will be given.
- Possession of any incriminating material and malpractice of any nature shall be punishable as per rules.
- 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		8			8
3		2	13		9			9
4		2	14					
5		2	15					
6		2	16					
7		2	Total					25
8		2	45					Name and Signature of the Examiner with date
9		2						
10		2						
Total		20	Grand Total					

To be filled by the examiner

Course Outcomes	1	2	3	4	5	6	Total
Marks allotted				44	6		50
Marks Obtained				44	6		50

QAC Audit - Remarks

P. A. ...
Name and Signature
of the QAC member

Subject Wise Internal Assessment Tests Mark Report

Class:IT Semester:6 Section:A Subject Code:IT8602 Title : Mobile Communication Subject Handled by: manojkumar-it

S.no	Regno	Batchno	Name	Quota	Arrearcount	CGPA	IATEST-A1 30/03/2021	IATEST-A2 24/04/2021	IATEST-A3 17/05/2021	Hours Absent	Total Hours Attended Percentage
1	813818205001	214001	AISHWARYA. W	GQ	NIL	7.3529	68	74	78	6	8
2	813818205002	214002	AKSHAYA. V	MQ	2	*	50	64	76	2	9
3	813818205003	214003	ANTONY OBENA. A	MQ	6	*	85	62	74	2	9
4	813818205004	214004	AZHAGUMEENATCHI. C	MQ	NIL	7.8455	92	84	78	1	9
5	813818205005	214005	DEEPTHA SREE. S	MQ	2	*	87	90	84	2	9
6	813818205006	214006	DHILIBAN. R	GQ	NIL	8.6585	77	94	90	1	9
7	813818205007	214007	DHINUSHREE. K	GQ	4	*	72	86	92	4	8
8	813818205008	214008	DINESH. S	GQ	NIL	7.6098	88	80	74	4	8
9	813818205009	214009	DURGA DEVI. R	MQ	NIL	8.0569	94	76	76	0	10
10	813818205010	214010	GOKUL. B	GQ	NIL	8.0407	92	90	92	1	9
11	813818205011	214011	GOKULAKRISHNAN. N	MQ	1	*	85	84	82	1	9
12	813818205012	214012	HEMALATHA. A	MQ	2	*	70	94	92	1	9
13	813818205013	214013	HEMAMALINI. P	MQ	12	*	45	50	62	17	5
14	813818205017	214014	JACKSON STUART. A I	MQ	2	*	80	64	72	8	7
15	813818205014	214015	JAYALAKSHMI. L	GQ	NIL	7.813	94	74	82	2	9
16	813818205015	214016	JHANANI. R.S	GQ	1	*	65	90	90	2	9
17	813818205016	214017	JOSE IMMANUVEL. J	MQ	NIL	7.4878	77	74	88	1	9
18	813818205019	214019	KAREESHINI. S	MQ	NIL	8.5854	92	92	96	1	9
19	813818205020	214020	KARPAHALAKSHMI. S	MQ	2	*	52	74	92	0	10
20	813818205021	214021	KARTHIK. R	MQ	NIL	7.5041	87	70	80	1	9
21	813818205022	214022	KARTHIKA. D.R	MQ	1	*	93	62	82	1	9
22	813818205024	214024	KEERTHANA. P	GQ	NIL	8.4228	73	72	84	0	10
23	813818205023	214025	KEERTHANA. P	GQ	2	*	63	82	84	1	9
24	813818205025	214026	KIRUTHIKA. C	GQ	NIL	8.1463	97	86	96	1	9
25	813818205026	214027	LOKEESH BHARATHI. S	GQ	NIL	7.7154	85	86	92	3	9
26	813818205027	214028	MAHESHWARAN. L	MQ	NIL	7.4553	84	90	88	1	9
27	813818205028	214029	MANASWINI. H	MQ	1	*	97	92	94	2	9
28	813818205029	214030	MOHAMED BILAL JAN. M J	MQ	NIL	7.4472	93	74	86	5	8
29	813818205030	214031	MONISHA. S	GQ	NIL	8.1382	92	72	90	1	9
30	813818205031	214032	NALINI. K G	GQ	NIL	8.1789	66	86	90	1	9
31	813818205032	214033	POOJA. M	GQ	NIL	8.2114	87	92	92	0	10
32	813818205033	214034	PRIYADARSHAN. M	MQ	3	*	85	58	82	6	8
33	813818205034	214035	RAGAVAN. R	GQ	NIL	8.2195	77	62	80	5	8
34	813818205035	214036	RAJKUMAR. V	GQ	NIL	7.7236	87	64	80	0	10
35	813818205036	214037	SABARISAN. K V	GQ	1	*	77	74	76	3	9
36	813818205037	214038	SAFRIN FATHIMA. R	MQ	2	*	87	74	80	0	10
37	813818205038	214039	SAHAYA CLEMENT. V	MQ	NIL	7.6016	90	74	76	1	9

38	813818205039	214040	SAKTHIVEL. B	MQ	NIL	7.5691	58	86	90	0	11
39	813818205040	214041	SANTHANA PRIYA. K	MQ	1	*	72	72	86	0	11
40	813818205041	214042	SARANYA. B	MQ	NIL	8.0163	97	90	90	3	9
41	813818205042	214043	SELVA PRAKASH. B	GQ	NIL	7.5772	78	72	80	3	9
42	813818205043	214044	SHERIN. R	GQ	NIL	8.4553	97	90	94	1	9
43	813818205044	214045	SIVAGIRI. V S	GQ	1	*	92	64	78	3	9
44	813818205045	214046	SNEHA. S	GQ	NIL	7.4417	93	80	74	2	9
45	813818205046	214047	SUBALAKSHMI. S	GQ	2	*	97	90	76	1	9
46	813818205047	214048	SUBHA ILAKIYA. P	GQ	1	*	95	76	80	1	9
47	813818205048	214049	SUDERSHAN. S	GQ	NIL	7.5203	88	72	82	6	8
48	813818205049	214050	THAGASIN. M	GQ	NIL	8.2195	87	80	92	1	9
49	813818205050	214051	THANGA SRI. R	GQ	1	*	95	84	92	2	9
50	813818205051	214052	VAISHNAVI. M	GQ	NIL	8.439	68	90	94	2	9
51	813818205052	214053	VALLIAMMAI. A	MQ	3	*	87	86	90	0	11
52	813818205053	214054	VIGNESH. R	MQ	NIL	7.4715	92	70	86	5	8
53	813818205054	214055	VIGNESH. S	GQ	4	*	83	66	60	12	6
54	813818205055	214056	VIGNESWAR. S	MQ	1	*	88	66	70	5	8
55	813818205056	214057	VIJAYALAKSHMI. S	GQ	NIL	7.2602	85	64	80	3	9
56	813818205057	214058	VINOTHKUMAR. M	GQ	NIL	7.6585	90	62	78	2	9
57	813818205058	214059	VISHNUVARDHAN. G	MQ	NIL	7.4228	77	66	76	1	9
58	813818205059	214060	YOGAPRIYA. S	GQ	NIL	8.2269	82	90	90	0	11
59	813818205060	214061	YUVARAJA. J	MQ	1	*	87	64	82	2	9
60	813818205302	214062	KAVI BHAARATHY. D A	GQ	1	*	83	58	80	3	9
61	813818205301	214063	ELANGO. K	GQ	1	*	83	54	78	5	8
62	813818205701	214064	SABARISHWARAN. G	MQ	1	*	88	90	96	1	9

Classwise Internal Assessment Mark Report

Class:ICE Semester:3 Section:A: Assessment Test -1 Sem Period:20-21ODD

S.no	Regno	Batchno	Name	CS8392	EC8353	EE8351	EI8351	EI8351	EI8352	MA8353	Total	Rank
1	813819112001	225001	ABARNA. R	46	68	92	52	52	92	58	460	
2	813819112003	225003	ARUNKUMAR. R	52	70	90	60	60	96	90	518	18
3	813819112004	225004	BAIRAVI. S	86	72	90	82	82	86	96	594	4
4	813819112005	225005	BHARATH SAMVEL. D	68	74	90	74	74	96	82	558	10
5	813819112006	225006	DARWIN. I	68	70	88	74	74	86	74	534	17
6	813819112007	225007	DEEPAK. B	48	74	72	72	72	88	84	510	
7	813819112008	225008	DHARSHINI. G	60	66	64	72	72	88	76	498	28
8	813819112009	225009	DHINESH. R	90	90	88	84	84	96	76	608	1
9	813819112011	225010	HARI KRISHNA. M	62	60	82	50	50	70	76	450	33
10	813819112010	225011	HARIHARAN. K	68	72	68	78	78	66	80	510	26
11	813819112012	225012	HARISH. R	82	A	74	A	A	A	80	236	
12	813819112013	225013	HEMANTH. K K	62	70	72	72	72	92	88	528	21
13	813819112014	225014	JAYAKANTHAN. G P	72	88	88	76	76	88	72	560	8
14	813819112015	225015	JAYALAKSHMI. R	72	74	84	82	82	98	84	576	6
15	813819112016	225016	KANNAPPAN. S	68	46	68	66	66	84	78	476	
16	813819112017	225017	KRISHNA KUMARAN. K	60	60	60	50	50	86	84	450	34
17	813819112018	225018	MOHAMED FAHIM. K	22	30	60	50	50	76	A	288	
18	813819112019	225019	MOHAMED YAHYA. A	82	56	64	80	80	78	76	516	24
19	813819112020	225020	MOHAN RAJ. B	72	70	82	76	76	96	84	556	11
20	813819112021	225021	MUTHUKUMARAN. K	80	76	66	78	78	88	88	554	12
21	813819112022	225022	NICOLAS NESAN. G	80	78	62	72	72	92	88	544	13
22	813819112023	225023	NITHISH. S	80	62	72	80	80	86	86	546	15
23	813819112024	225024	PARITHI KUMAR. J	56	64	62	52	52	90	88	464	30
24	813819112025	225025	PRABAHARAN. M	84	82	92	80	80	94	90	602	2
25	813819112027	225027	RAGAVANTIRAN. G	56	58	92	68	68	88	68	498	27
26	813819112028	225028	RAGHURAM. M	72	74	90	78	78	92	92	576	5
27	813819112029	225029	RATNAGIRISH. R K	50	50	68	70	70	84	70	462	35
28	813819112030	225030	REGENA ARSHNI. S	68	74	92	76	76	92	82	560	9
29	813819112031	225031	SAKTHIGANESH. K	74	62	72	60	60	92	78	498	23
30	813819112033	225033	SHANJITH KUMAR. I	66	72	88	80	80	68	84	538	20
31	813819112034	225034	SHARLENE . A	92	82	92	72	72	88	92	590	3
32	813819112035	225035	SHYAM PRAKASH. G P	72	68	68	62	62	80	88	500	22
33	813819112036	225036	SIVABALAN. D	78	62	64	60	60	84	72	480	29
34	813819112037	225037	SUBASH. NS	74	66	72	78	78	80	66	514	25
35	813819112038	225038	SUNDHARADEVAN. S	0	54	66	52	52	60	0	284	
36	813819112039	225039	SURYA. M	72	64	88	62	62	90	82	520	19
37	813819112040	225040	SWATHI. A	72	84	88	80	80	90	78	572	7
38	813819112041	225041	SYED ATHAULLAH. S	60	72	90	72	72	86	84	536	16
39	813819112042	225042	SYED FIZAL. S K	20	58	70	A	A	0	60	208	

40	813819112043	225043	THANESHWARAN. S	28	60	80	70	70	92	80	480	
41	813819112044	225044	THANGASABARI . S	68	64	60	60	60	80	74	466	31
42	813819112045	225045	VARUN. K	46	46	62	36	36	82	54	362	
43	813819112046	225046	VIGNESH. G	92	72	70	60	60	88	84	526	14
44	813819112047	225047	VIGNESWARARAJAN. K	52	60	66	58	58	78	88	460	32

Performance Analysis

Total Appeared	44	44	44	44	44	44	44
Total Passed	37	40	44	41	41	42	42
Total Failed	7	4	0	3	3	2	2
Absent	0	0	0	0	0	0	0
Above 80	10	5	20	8	8	35	25
Between 50-59	5	5	0	7	7	0	2
Pass%	84	91	100	93	93	95	95

Subcode	Title	Faculty Name
CS8392	OBJECT ORIENTED PROGRAMMING	Mr.V.Manoj Kumar
EC8353	ELECTRON DEVICES AND CIRCUITS	Mr.S.Vigneshwaran
EE8351	DIGITAL LOGIC CIRCUITS	Dr.M.Shanmugavalli
EI8351	ELECTRICAL MEASUREMENTS	Dr.P.Aravind
EI8351	ELECTRICAL MEASUREMENTS	Mr.P.Aravind
EI8352	TRANSDUCERS ENGINEERING	Ms.K.Ezhilarasi
MA8353	TRANSFORMS AND PARTIAL DIFFERENTIAL EQUATIONS	Dr.S.Revathi

[entire first semester ug marks](#)

Classwise Internal Assessment Mark Report

Class:ICE Semester:3 Section:A: Assessment Test -2 Sem Period:20-21ODD

S.no	Regno	Batchno	Name	CS8392	EC8353	EE8351	EI8351	EI8351	EI8352	MA8353	Total	Rank
1	813819112001	225001	ABARNA. R	60	60	76	54	54	56	74	434	35
2	813819112003	225003	ARUNKUMAR. R	78	70	92	72	72	80	68	532	13
3	813819112004	225004	BAIRAVI. S	90	90	88	84	84	98	90	624	1
4	813819112005	225005	BHARATH SAMVEL. D	80	86	92	86	86	90	88	608	4
5	813819112006	225006	DARWIN. I	70	74	90	68	68	86	64	520	17
6	813819112007	225007	DEEPAK. B	68	72	66	72	72	84	68	502	25
7	813819112008	225008	DHARSHINI. G	66	70	84	84	84	84	60	532	18
8	813819112009	225009	DHINESH. R	94	90	76	88	88	96	94	626	2
9	813819112011	225010	HARI KRISHNA. M	52	42	76	64	64	68	58	424	
10	813819112010	225011	HARIHARAN. K	68	76	68	82	82	80	82	538	16
11	813819112012	225012	HARISH. R	72	76	74	84	84	60	60	510	26
12	813819112013	225013	HEMANTH. K K	72	86	68	76	76	64	58	500	27
13	813819112014	225014	JAYAKANTHAN. G P	92	70	76	78	78	84	90	568	7
14	813819112015	225015	JAYALAKSHMI. R	78	72	74	A	A	94	70	388	
15	813819112016	225016	KANNAPPAN. S	66	70	64	84	84	90	60	518	24
16	813819112017	225017	KRISHNA KUMARAN. K	52	60	64	70	70	60	48	424	
17	813819112018	225018	MOHAMED FAHIM. K	54	46	64	46	46	A	52	308	
18	813819112019	225019	MOHAMED YAHYA. A	70	0	62	A	A	82	94	308	
19	813819112020	225020	MOHAN RAJ. B	82	66	94	80	80	84	78	564	9
20	813819112021	225021	MUTHUKUMARAN. K	74	82	84	84	84	74	62	544	14
21	813819112022	225022	NICOLAS NESAN. G	72	70	86	84	84	72	60	528	20
22	813819112023	225023	NITHISH. S	88	78	86	66	66	62	78	524	15
23	813819112024	225024	PARITHI KUMAR. J	72	62	64	84	84	60	58	484	33
24	813819112025	225025	PRABAHARAN. M	88	74	94	88	88	96	82	610	3
25	813819112027	225027	RAGAVANTIRAN. G	60	70	94	88	88	92	60	552	12
26	813819112028	225028	RAGHURAM. M	84	74	94	72	72	94	68	558	8
27	813819112029	225029	RATNAGIRISH. R K	52	70	64	66	66	60	60	438	36
28	813819112030	225030	REGENA ARSHNI. S	70	60	94	56	56	94	72	502	19
29	813819112031	225031	SAKTHIGANESH. K	74	70	66	72	72	64	70	488	29
30	813819112033	225033	SHANJITH KUMAR. I	90	70	76	84	84	96	76	576	6
31	813819112034	225034	SHARLENE . A	92	88	88	80	80	90	82	600	5
32	813819112035	225035	SHYAM PRAKASH. G P	64	66	64	86	86	76	56	498	30
33	813819112036	225036	SIVABALAN. D	0	48	86	52	52	56	50	344	
34	813819112037	225037	SUBASH. NS	66	76	64	82	82	68	82	520	21
35	813819112038	225038	SUNDHARADEVAN. S	64	70	64	72	72	66	56	464	34
36	813819112039	225039	SURYA. M	84	68	74	72	72	60	60	490	28
37	813819112040	225040	SWATHI. A	80	58	92	84	84	72	84	554	10
38	813819112041	225041	SYED ATHAULLAH. S	80	64	92	70	70	64	64	504	23
39	813819112042	225042	SYED FIZAL. S K	A	66	66	66	66	68	A	332	

40	813819112043	225043	THANESHWARAN. S	62	80	90	78	78	80	74	542	11
41	813819112044	225044	THANGASABARI . S	72	68	64	70	70	70	66	480	32
42	813819112045	225045	VARUN. K	54	54	86	72	72	56	44	438	
43	813819112046	225046	VIGNESH. G	74	82	88	72	72	54	64	506	22
44	813819112047	225047	VIGNESWARARAJAN. K	72	80	64	76	76	54	64	486	31

Performance Analysis

Total Appeared	44	44	44	44	44	44	44
Total Passed	42	40	44	41	41	43	41
Total Failed	2	4	0	3	3	1	3
Absent	0	0	0	0	0	0	0
Above 80	13	9	20	18	18	20	10
Between 50-59	5	2	0	3	3	5	7
Pass%	95	91	100	93	93	98	93

Subcode	Title	Faculty Name
CS8392	OBJECT ORIENTED PROGRAMMING	Mr.V.Manoj Kumar
EC8353	ELECTRON DEVICES AND CIRCUITS	Mr.S.Vigneshwaran
EE8351	DIGITAL LOGIC CIRCUITS	Dr.M.Shanmugavalli
EI8351	ELECTRICAL MEASUREMENTS	Dr.P.Aravind
EI8351	ELECTRICAL MEASUREMENTS	Mr.P.Aravind
EI8352	TRANSDUCERS ENGINEERING	Ms.K.Ezhilarasi
MA8353	TRANSFORMS AND PARTIAL DIFFERENTIAL EQUATIONS	Dr.S.Revathi

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Classwise Internal Assessment Mark Report

Class:ICE Semester:3 Section:A: Assessment Test -3 Sem Period:20-21ODD

S.no	Regno	Batchno	Name	CS8392	EC8353	EE8351	EI8351	EI8351	EI8352	MA8353	Total	Rank
1	813819112001	225001	ABARNA. R	60	46	80	56	56	60	52	410	
2	813819112003	225003	ARUNKUMAR. R	74	68	92	70	70	78	74	526	28
3	813819112004	225004	BAIRAVI. S	90	88	88	90	90	85	96	627	3
4	813819112005	225005	BHARATH SAMVEL. D	84	78	92	A	A	95	96	445	
5	813819112006	225006	DARWIN. I	64	80	88	86	86	79	94	577	19
6	813819112007	225007	DEEPAK. B	70	74	72	86	86	81	74	543	27
7	813819112008	225008	DHARSHINI. G	84	78	80	94	94	77	94	601	15
8	813819112009	225009	DHINESH. R	90	84	92	92	92	97	92	639	1
9	813819112011	225010	HARI KRISHNA. M	62	74	80	76	76	93	66	527	29
10	813819112010	225011	HARIHARAN. K	70	64	80	92	92	67	96	561	22
11	813819112012	225012	HARISH. R	70	60	80	74	74	85	92	535	23
12	813819112013	225013	HEMANTH. K K	84	82	82	88	88	81	94	599	13
13	813819112014	225014	JAYAKANTHAN. G P	84	76	88	92	92	93	98	623	4
14	813819112015	225015	JAYALAKSHMI. R	66	76	84	84	84	89	94	577	18
15	813819112016	225016	KANNAPPAN. S	80	74	80	88	88	90	86	586	16
16	813819112017	225017	KRISHNA KUMARAN. K	A	0	76	A	A	A	68	144	
17	813819112018	225018	MOHAMED FAHIM. K	50	44	78	64	64	57	38	395	
18	813819112019	225019	MOHAMED YAHYA. A	62	62	92	66	66	96	82	526	24
19	813819112020	225020	MOHAN RAJ. B	90	76	92	90	90	92	84	614	5
20	813819112021	225021	MUTHUKUMARAN. K	90	80	80	88	88	86	94	606	8
21	813819112022	225022	NICOLAS NESAN. G	70	60	82	72	72	78	96	530	25
22	813819112023	225023	NITHISH. S	92	82	88	90	90	97	90	629	2
23	813819112024	225024	PARITHI KUMAR. J	60	0	72	A	A	62	84	278	
24	813819112025	225025	PRABAHARAN. M	90	76	92	72	72	93	94	589	9
25	813819112027	225027	RAGAVANTIRAN. G	84	64	92	88	88	87	94	597	14
26	813819112028	225028	RAGHURAM. M	70	90	92	78	78	88	96	592	11
27	813819112029	225029	RATNAGIRISH. R K	52	44	76	56	56	50	68	402	
28	813819112030	225030	REGENA ARSHNI. S	84	50	92	88	88	70	96	568	20
29	813819112031	225031	SAKTHIGANESH. K	66	62	80	70	70	68	68	484	34
30	813819112033	225033	SHANJITH KUMAR. I	84	68	82	90	90	95	94	603	12
31	813819112034	225034	SHARLENE . A	90	70	90	86	86	91	92	605	7
32	813819112035	225035	SHYAM PRAKASH. G P	64	68	76	88	88	72	90	546	26
33	813819112036	225036	SIVABALAN. D	60	72	74	66	66	72	56	466	36
34	813819112037	225037	SUBASH. NS	70	60	72	72	72	70	82	498	33
35	813819112038	225038	SUNDHARADEVAN. S	60	60	76	72	72	A	70	410	
36	813819112039	225039	SURYA. M	80	70	84	74	74	76	92	550	21
37	813819112040	225040	SWATHI. A	90	68	90	90	90	86	92	606	10
38	813819112041	225041	SYED ATHAULLAH. S	72	66	92	66	66	63	72	497	32
39	813819112042	225042	SYED FIZAL. S K	A	A	76	A	A	A	A	76	

40	813819112043	225043	THANESHWARAN. S	72	84	84	88	88	75	94	585	17
41	813819112044	225044	THANGASABARI . S	70	60	76	70	70	65	70	481	35
42	813819112045	225045	VARUN. K	64	66	80	86	86	70	70	522	31
43	813819112046	225046	VIGNESH. G	80	90	84	88	88	88	92	610	6
44	813819112047	225047	VIGNESWARARAJAN. K	70	62	70	70	70	78	92	512	30

Performance Analysis

Total Appeared	44	44	44	44	44	44	44
Total Passed	42	38	44	40	40	41	42
Total Failed	2	6	0	4	4	3	2
Absent	0	0	0	0	0	0	0
Above 80	18	9	32	22	22	21	30
Between 50-59	2	1	0	2	2	2	2
Pass%	95	86	100	91	91	93	95

Subcode	Title	Faculty Name
CS8392	OBJECT ORIENTED PROGRAMMING	Mr.V.Manoj Kumar
EC8353	ELECTRON DEVICES AND CIRCUITS	Mr.S.Vigneshwaran
EE8351	DIGITAL LOGIC CIRCUITS	Dr.M.Shanmugavalli
EI8351	ELECTRICAL MEASUREMENTS	Dr.P.Aravind
EI8351	ELECTRICAL MEASUREMENTS	Mr.P.Aravind
EI8352	TRANSDUCERS ENGINEERING	Ms.K.Ezhilarasi
MA8353	TRANSFORMS AND PARTIAL DIFFERENTIAL EQUATIONS	Dr.S.Revathi

[entire first semester ug marks](#)

Classwise Internal Assessment Mark Report

Class:ICE Semester:5 Section:A: Assessment Test -1 Sem Period:20-21ODD

S.no	Regno	Batchno	Name	EE8551	EI8093	EI8551	EI8552	EI8553	OCE551	Total	Rank
1	813818112001	215001	AASHIK. G	53	88	76	90	82	68	457	18
2	813818112002	215002	ABDUL JAVITH. A	62	92	80	84	78	85	481	15
3	813818112003	215003	AJMALKHAN. S	74	86	50	84	74	66	434	27
4	813818112004	215004	AKILAN. R	76	90	68	80	74	62	450	20
5	813818112005	215005	AKSHAYAVARSHINI. V	68	94	82	96	84	92	516	2
6	813818112006	215006	ASWIN KUMAAR. R S	60	90	62	86	68	62	428	29
7	813818112007	215007	BENITO RICHARDSON. D	78	78	64	78	58	60	416	33
8	813818112008	215008	BHAVADHARANI. M B	70	84	60	82	76	70	442	24
9	813818112009	215009	DHARSAN PRABU. G K	72	76	60	76	60	62	406	37
10	813818112010	215010	GEETHA RANJANI. G	76	80	48	62	68	60	394	
11	813818112011	215011	HARIHARAN. T	82	74	60	70	80	70	436	26
12	813818112012	215012	HARINI BANUMATHI. N	74	78	72	82	71	72	449	22
13	813818112013	215013	HARISH. P K	62	94	70	84	82	90	482	14
14	813818112014	215014	ISHWARYA. M	58	92	80	90	78	90	488	11
15	813818112015	215015	KUMARAGURU. K	82	78	62	76	68	76	442	25
16	813818112016	215016	LOKESH. R	62	80	68	74	64	64	412	34
17	813818112017	215017	LOKESH. S	70	94	72	86	84	92	498	6
18	813818112018	215018	MANIKANDAN. V	78	90	86	76	72	90	492	10
19	813818112019	215019	MOHAMED JAVEED ALI . S	72	78	56	64	78	60	408	35
20	813818112020	215020	MOHAMED THASNEEM. A	66	75	68	74	76	67	426	30
21	813818112021	215021	MOHAMED THOUFEEQ. P	76	64	54	68	60	60	382	39
22	813818112022	215022	NIRMAL VEL. S	84	93	82	94	82	92	527	1
23	813818112023	215023	NITHISH ANAND. S	72	90	74	82	84	92	494	8
24	813818112024	215024	NITHISH KUMAAR. R	68	82	64	68	64	60	406	36
25	813818112025	215025	NITHS ROSHAN . E.M.	56	80	60	62	60	60	378	40
26	813818112026	215026	POOJAVARDHINI. B	60	95	60	78	80	70	443	23
27	813818112027	215027	PRANAV KUMAR. S	74	78	66	72	64	64	418	32
28	813818112028	215028	PRANAV SAJESH. S	78	86	76	82	62	70	454	19
29	813818112029	215029	PRIYADHARSHINI.	82	90	76	90	82	90	510	3

			M								
30	813818112030	215030	SANDHYA. V	70	82	82	76	74	76	460	17
31	813818112031	215031	SELVABALAJI. K P	86	90	60	60	60	62	418	31
32	813818112032	215032	SELVAKUMAR. B	56	74	60	68	56	60	374	41
33	813818112033	215033	SENTHIL ARASAN. B	80	80	60	80	60	72	432	28
34	813818112034	215034	SHARMILA RANI. A	58	86	92	86	84	92	498	5
35	813818112035	215035	SHIVAA SANKAR. A	70	72	62	62	62	67	395	38
36	813818112036	215036	SURIYA PRAKAASH. D	72	90	78	82	80	92	494	9
37	813818112037	215037	SWETHA. R	74	90	80	82	71	86	483	13
38	813818112038	215038	VASUNDRA. R	68	94	74	88	88	86	498	7
39	813818112039	215039	VICKRAM. K B	74	78	60	88	76	74	450	21
40	813818112302	215040	KAVIYARASAN. K	74	90	82	92	78	90	506	4
41	813818112303	215041	SATHISH KUMAR. M	62	90	80	90	74	90	486	12
42	813818112301	215042	KABILESHWARAN. R	82	82	84	62	68	88	466	16

Performance Analysis

Total Appeared	42	42	42	42	42	42
Total Passed	42	42	41	42	42	42
Total Failed	0	0	1	0	0	0
Absent	0	0	0	0	0	0
Above 80	7	30	11	23	12	16
Between 50-59	5	0	3	0	2	0
Pass%	100	100	98	100	100	100

Subcode	Title	Faculty Name
EE8551	Microprocessors and Microcontrollers	Mr.K.Malaisamy
EI8093	Unit Operation and Control	Dr.A.Mercy Vasan
EI8551	Analytical Instruments	Mr.R.Seetharaman
EI8552	Industrial Instrumentation - II	Dr.P.Thirumurugan
EI8553	Process Control	Dr.S.M.Giri Rajkumar
OCE551	AIR POLLUTION AND CONTROL ENGINEERING\	Mr.T.Tamilarasan

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Classwise Internal Assessment Mark Report

Class:ICE Semester:5 Section:A: Assessment Test -2 Sem Period:20-21ODD

S.no	Regno	Batchno	Name	EE8551	EI8093	EI8551	EI8552	EI8553	OCE551	Total	Rank
1	813818112001	215001	AASHIK. G	80	90	63	94	64	95	486	11
2	813818112002	215002	ABDUL JAVITH. A	84	92	75	90	84	93	518	4
3	813818112003	215003	AJMALKHAN. S	74	88	65	82	76	85	470	18
4	813818112004	215004	AKILAN. R	68	88	65	82	72	73	448	25
5	813818112005	215005	AKSHAYAVARSHINI. V	82	92	85	98	74	93	524	1
6	813818112006	215006	ASWIN KUMAAR. R S	70	90	71	74	62	65	432	31
7	813818112007	215007	BENITO RICHARDSON. D	60	78	70	62	60	63	393	40
8	813818112008	215008	BHAVADHARANI. M B	72	78	73	84	60	75	442	27
9	813818112009	215009	DHARSAN PRABU. G K	70	80	65	70	64	68	417	36
10	813818112010	215010	GEETHA RANJANI. G	74	82	60	74	60	63	413	38
11	813818112011	215011	HARIHARAN. T	80	82	84	86	72	75	479	15
12	813818112012	215012	HARINI BANUMATHI. N	82	88	67	88	68	75	468	19
13	813818112013	215013	HARISH. P K	84	90	82	90	60	87	493	8
14	813818112014	215014	ISHWARYA. M	80	84	71	90	66	93	484	12
15	813818112015	215015	KUMARAGURU. K	78	88	66	74	60	78	444	26
16	813818112016	215016	LOKESH. R	60	82	64	76	60	83	425	34
17	813818112017	215017	LOKESH. S	80	86	80	90	80	95	511	6
18	813818112018	215018	MANIKANDAN. V	82	92	91	96	66	95	522	2
19	813818112019	215019	MOHAMED JAVEED ALI . S	80	92	62	76	60	70	440	30
20	813818112020	215020	MOHAMED THASNEEM. A	70	86	76	76	66	75	449	24
21	813818112021	215021	MOHAMED THOUFEEQ. P	70	80	63	64	60	77	414	37
22	813818112022	215022	NIRMAL VEL. S	80	90	73	86	64	85	478	16
23	813818112023	215023	NITHISH ANAND. S	80	86	82	86	68	90	492	9
24	813818112024	215024	NITHISH KUMAAR. R	60	84	69	50	52	65	380	42
25	813818112025	215025	NITHS ROSHAN . E.M.	56	82	62	72	60	70	402	39
26	813818112026	215026	POOJAVARDHINI. B	70	88	66	82	64	70	440	28
27	813818112027	215027	PRANAV KUMAR. S	76	88	61	84	70	75	454	23
28	813818112028	215028	PRANAV SAJESH. S	70	86	69	80	60	75	440	29
29	813818112029	215029	PRIYADHARSHINI.	84	92	84	98	64	93	515	5

			M								
30	813818112030	215030	SANDHYA. V	76	88	83	82	64	90	483	14
31	813818112031	215031	SELVABALAJI. K P	74	86	66	72	62	70	430	32
32	813818112032	215032	SELVAKUMAR. B	70	84	62	72	60	70	418	35
33	813818112033	215033	SENTHIL ARASAN. B	64	88	60	70	68	75	425	33
34	813818112034	215034	SHARMILA RANI. A	80	90	87	96	70	95	518	3
35	813818112035	215035	SHIVAA SANKAR. A	52	80	65	68	60	63	388	41
36	813818112036	215036	SURIYA PRAKAASH. D	74	88	71	88	72	90	483	13
37	813818112037	215037	SWETHA. R	76	80	81	80	60	88	465	21
38	813818112038	215038	VASUNDRA. R	80	94	77	92	68	90	501	7
39	813818112039	215039	VICKRAM. K B	76	82	62	88	72	78	458	22
40	813818112302	215040	KAVIYARASAN. K	76	88	74	80	64	85	467	20
41	813818112303	215041	SATHISH KUMAR. M	70	92	78	90	74	85	489	10
42	813818112301	215042	KABILESHWARAN. R	78	80	75	88	64	90	475	17

Performance Analysis

Total Appeared	42	42	42	42	42	42
Total Passed	42	42	42	42	42	42
Total Failed	0	0	0	0	0	0
Absent	0	0	0	0	0	0
Above 80	15	40	10	27	2	20
Between 50-59	2	0	0	1	1	0
Pass%	100	100	100	100	100	100

Subcode	Title	Faculty Name
EE8551	Microprocessors and Microcontrollers	Mr.K.Malaisamy
EI8093	Unit Operation and Control	Dr.A.Mercy Vasan
EI8551	Analytical Instruments	Mr.R.Seetharaman
EI8552	Industrial Instrumentation - II	Dr.P.Thirumurugan
EI8553	Process Control	Dr.S.M.Giri Rajkumar
OCE551	AIR POLLUTION AND CONTROL ENGINEERING\	Mr.T.Tamilarasan

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Classwise Internal Assessment Mark Report

Class:ICE Semester:5 Section:A: Assessment Test -3 Sem Period:20-21ODD

S.no	Regno	Batchno	Name	EE8551	EI8093	EI8551	EI8552	EI8553	OCE551	Total	Rank
1	813818112001	215001	AASHIK. G	84	94	92	94	100	81	545	9
2	813818112002	215002	ABDUL JAVITH. A	76	94	89	88	100	87	534	13
3	813818112003	215003	AJMALKHAN. S	70	85	88	84	85	71	483	32
4	813818112004	215004	AKILAN. R	54	90	83	76	78	66	447	39
5	813818112005	215005	AKSHAYAVARSHINI. V	78	94	98	98	100	96	564	2
6	813818112006	215006	ASWIN KUMAAR. R S	74	84	80	84	100	66	488	29
7	813818112007	215007	BENITO RICHARDSON. D	78	80	93	82	80	71	484	30
8	813818112008	215008	BHAVADHARANI. M B	74	88	90	90	94	75	511	24
9	813818112009	215009	DHARSAN PRABU. G K	80	90	78	80	80	66	474	35
10	813818112010	215010	GEETHA RANJANI. G	74	78	74	86	75	67	454	38
11	813818112011	215011	HARIHARAN. T	82	60	98	92	100	89	521	18
12	813818112012	215012	HARINI BANUMATHI. N	78	92	60	88	74	73	465	37
13	813818112013	215013	HARISH. P K	82	85	90	92	100	96	545	8
14	813818112014	215014	ISHWARYA. M	80	92	84	94	100	96	546	7
15	813818112015	215015	KUMARAGURU. K	84	92	80	80	76	80	492	28
16	813818112016	215016	LOKESH. R	72	80	80	78	88	69	467	36
17	813818112017	215017	LOKESH. S	68	95	89	82	95	96	525	17
18	813818112018	215018	MANIKANDAN. V	86	93	100	86	100	95	560	3
19	813818112019	215019	MOHAMED JAVEED ALI . S	84	82	89	82	100	66	503	25
20	813818112020	215020	MOHAMED THASNEEM. A	84	80	90	86	94	67	501	26
21	813818112021	215021	MOHAMED THOUFEEQ. P	83	87	94	86	92	71	513	21
22	813818112022	215022	NIRMAL VEL. S	78	85	100	94	100	93	550	6
23	813818112023	215023	NITHISH ANAND. S	74	90	97	92	98	93	544	10
24	813818112024	215024	NITHISH KUMAAR. R	76	86	83	74	90	66	475	34
25	813818112025	215025	NITHS ROSHAN . E.M.	82	60	67	78	88	66	441	40
26	813818112026	215026	POOJAVARDHINI. B	82	84	87	86	100	81	520	19
27	813818112027	215027	PRANAV KUMAR. S	84	92	87	88	90	71	512	23
28	813818112028	215028	PRANAV SAJESH. S	78	86	91	84	93	81	513	22
29	813818112029	215029	PRIYADHARSHINI.	88	86	98	98	100	96	566	1

			M								
30	813818112030	215030	SANDHYA. V	84	93	90	88	100	83	538	12
31	813818112031	215031	SELVABALAJI. K P	80	60	60	75	82	66	423	41
32	813818112032	215032	SELVAKUMAR. B	50	82	63	78	70	65	408	42
33	813818112033	215033	SENTHIL ARASAN. B	80	90	73	70	100	81	494	27
34	813818112034	215034	SHARMILA RANI. A	80	92	98	96	100	93	559	4
35	813818112035	215035	SHIVAA SANKAR. A	78	85	90	82	75	71	481	33
36	813818112036	215036	SURIYA PRAKAASH. D	82	78	80	88	92	93	513	20
37	813818112037	215037	SWETHA. R	82	90	94	96	100	91	553	5
38	813818112038	215038	VASUNDRA. R	74	95	92	94	100	87	542	11
39	813818112039	215039	VICKRAM. K B	80	86	82	82	78	75	483	31
40	813818112302	215040	KAVIYARASAN. K	76	93	82	86	100	91	528	16
41	813818112303	215041	SATHISH KUMAR. M	76	90	85	90	100	91	532	14
42	813818112301	215042	KABILESHWARAN. R	74	92	95	90	88	89	528	15

Performance Analysis

Total Appeared	42	42	42	42	42	42
Total Passed	42	42	42	42	42	42
Total Failed	0	0	0	0	0	0
Absent	0	0	0	0	0	0
Above 80	21	37	35	35	35	23
Between 50-59	2	0	0	0	0	0
Pass%	100	100	100	100	100	100

Subcode	Title	Faculty Name
EE8551	Microprocessors and Microcontrollers	Mr.K.Malaisamy
EI8093	Unit Operation and Control	Dr.A.Mercy Vasan
EI8551	Analytical Instruments	Mr.R.Seetharaman
EI8552	Industrial Instrumentation - II	Dr.P.Thirumurugan
EI8553	Process Control	Dr.S.M.Giri Rajkumar
OCE551	AIR POLLUTION AND CONTROL ENGINEERING\	Mr.T.Tamilarasan

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Classwise Internal Assessment Mark Report

Class:ICE Semester:7 Section:A: Assessment Test -1 Sem Period:20-21ODD

S.no	Regno	Batchno	Name	EC8093	EI8075	EI8075	EI8091	EI8692	EI8751	OCS752	Total	Rank
1	813817112001	205001	AARTHI. R	90	77	77	20	98	96	76	534	
2	813817112002	205002	AHAMED ZUHOOR. A G	76	89	89	80	94	80	60	568	47
3	813817112003	205003	AKASH. T	95	80	80	87	86	80	72	580	37
4	813817112004	205004	AKASHSAMI. R	86	87	87	97	98	92	74	621	11
5	813817112005	205005	AKIL SANJEEV. M	76	90	90	80	90	80	54	560	52
6	813817112006	205006	ARAWINTHAN. R	90	95	95	100	94	93	68	635	5
7	813817112007	205007	ARJUN. M	96	90	90	90	76	80	74	596	30
8	813817112008	205008	ARTHIYA. M	86	93	93	85	96	93	78	624	12
9	813817112010	205010	BUVANESHWARI. S	90	90	90	100	90	80	74	614	15
10	813817112011	205011	CHARUKANTH. M S	86	89	89	80	72	80	72	568	48
11	813817112012	205012	DHANALAKSHMI. S	76	96	96	95	79	80	54	576	46
12	813817112013	205013	DHARSHINI. V. J	86	87	87	96	94	80	82	612	13
13	813817112014	205014	FAHAD. M	86	85	85	85	84	82	84	591	31
14	813817112015	205015	GOWRI. K	90	83	83	90	88	80	76	590	28
15	813817112016	205016	HARIHARAN. P	95	87	87	88	68	93	74	592	34
16	813817112017	205017	HARINI. R.M	75	88	88	85	72	80	60	548	54
17	813817112020	205021	KALKI. K	75	96	96	90	88	80	54	579	43
18	813817112021	205022	KARTHIK. K	90	87	87	95	86	80	80	605	21
19	813817112022	205023	KARTHIKEYAN. M	95	82	82	70	76	80	74	559	49
20	813817112023	205024	KARTHIKHEYEN. S	75	90	90	80	72	80	74	561	51
21	813817112024	205025	KAVIN. K V	85	79	79	70	82	80	66	541	53
22	813817112025	205026	KIRTHIKA. V	99	96	96	92	96	80	78	637	3
23	813817112026	205027	KRISHNAKUMAR. R	89	87	87	72	76	80	88	579	40
24	813817112027	205028	LAKKSHMI PRIYA. S	85	93	93	100	94	80	88	633	6
25	813817112028	205029	LAVANYA. B	95	92	92	80	98	90	80	627	10
26	813817112029	205030	LINGTAN. N	95	90	90	90	84	90	74	613	17
27	813817112030	205031	MAHALAKSHMI. S P	95	88	88	100	94	96	80	641	2
28	813817112032	205033	MANIKANDAN. S	85	87	87	85	78	90	80	592	33
29	813817112033	205034	MEENUASHWINI. R	85	82	82	92	88	90	80	599	23
30	813817112034	205035	MOHAMED NOORDEEN. J	90	87	87	88	76	80	80	588	36
31	813817112036	205037	NAZEER AHAMED. B	80	80	80	90	92	80	86	588	27
32	813817112038	205038	NISHA FRANCY. S	90	87	87	95	90	90	84	623	8
33	813817112039	205039	PRATHEEP. M	95	85	85	98	92	80	72	607	18
34	813817112040	205040	RAGAVI. S	90	87	87	94	94	80	78	610	16
35	813817112041	205041	RAHUL. J	95	92	92	90	82	90	76	617	14
36	813817112042	205042	RAVIKIRAN. B	95	87	87	95	90	90	84	628	4

37	813817112043	205043	RENUGA. S	85	92	92	90	84	80	74	597	32
38	813817112044	205045	SABTHAMI. M	75	95	95	94	92	86	76	613	22
39	813817112045	205046	SAI HARI PRASHAD. N K	85	83	83	92	78	80	66	567	42
40	813817112046	205047	SALMAN MOHAMED. J	85	89	89	80	82	80	66	571	44
41	813817112047	205048	SAM ANDREW. B	80	92	92	95	86	90	74	609	24
42	813817112049	205050	SHARVIN SHAKESH. P	90	87	87	100	90	96	72	622	9
43	813817112050	205051	SHRI HARI. S	85	89	89	92	88	80	76	599	26
44	813817112051	205052	SINDHUJA. C	85	92	92	94	92	80	76	611	20
45	813817112052	205053	SIVASUBRAMANIAN. V	85	92	92	92	80	80	74	595	35
46	813817112053	205054	SNEKA. C	80	87	87	95	88	88	74	599	25
47	813817112054	205055	SOUNTHIRIYA. G M	80	88	88	98	98	80	76	608	19
48	813817112055	205057	SURRAJ. N S	75	87	87	82	78	80	80	569	45
49	813817112056	205058	SURYA. S	95	92	92	100	96	96	84	655	1
50	813817112057	205059	SURYALAKSHMI. R	95	93	93	96	98	80	76	631	7
51	813817112058	205060	THARIK AHAMADU MOHAMED DHEEN. M	95	83	83	85	86	80	64	576	39
52	813817112059	205061	YAZHINI. C	75	90	90	94	92	80	76	597	29
53	813817112037	205062	NIRMAL KUMAR. D	75	86	86	92	72	80	66	557	50
54	813817112302	205063	SIVA PERUMAL. R	90	90	90	94	74	80	66	584	38
55	813817112301	205064	FELIXNIRMALDOSS. M	75	82	82	95	82	80	74	570	41

Performance Analysis

Total Appeared	55	55	55	55	55	55	55
Total Passed	55	55	55	54	55	55	55
Total Failed	0	0	0	1	0	0	0
Absent	0	0	0	0	0	0	0
Above 80	44	53	53	51	41	55	15
Between 50-59	0	0	0	0	0	0	3
Pass%	100	100	100	98	100	100	100

Subcode	Title	Faculty Name
EC8093	DIGITAL IMAGE PROCESSING	Mr.S.Hariprasath
EI8075	FIBRE OPTICS AND LASER INSTRUMENTATION	Dr.P.Aravind
EI8075	FIBRE OPTICS AND LASER INSTRUMENTATION	Mr.P.Aravind
EI8091	INSTRUMENTATION IN PETROCHEMICAL INDUSTRIES	Ms.K.Ezhilarasi
EI8692	ELECTRONICS INSTRUMENTATION	Dr.P.Thirumurugan
EI8751	INDUSTRIAL DATA NETWORKS	Dr.M.Shanmugavalli
OCS752	iNtroduction To C ProgramminG	Ms.J.Sathia Parkavi

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Classwise Internal Assessment Mark Report

Class:ICE Semester:7 Section:A: Assessment Test -3 Sem Period:20-21ODD

S.no	Regno	Batchno	Name	EC8093	EI8075	EI8075	EI8091	EI8692	EI8751	OCS752	Total	Rank
1	813817112001	205001	AARTHI. R	87	79	79	93	96	90	85	609	21
2	813817112002	205002	AHAMED ZUHOOR. A G	81	90	90	92	94	92	89	628	9
3	813817112003	205003	AKASH. T	84	85	85	92	92	80	83	601	41
4	813817112004	205004	AKASHSAMI. R	86	90	90	94	98	96	77	631	5
5	813817112005	205005	AKIL SANJEEV. M	83	93	93	92	90	80	82	613	31
6	813817112006	205006	ARAWINTHAN. R	81	96	96	94	94	90	84	635	7
7	813817112007	205007	ARJUN. M	86	93	93	88	88	80	81	609	40
8	813817112008	205008	ARTHIYA. M	86	94	94	96	96	90	80	636	3
9	813817112010	205010	BUVANESHWARI. S	85	95	95	96	96	80	82	629	14
10	813817112011	205011	CHARUKANTH. M S	86	90	90	88	90	90	86	620	20
11	813817112012	205012	DHANALAKSHMI. S	78	95	95	92	94	80	79	613	34
12	813817112013	205013	DHARSHINI. V. J	86	88	88	96	96	85	82	621	16
13	813817112014	205014	FAHAD. M	86	86	86	92	92	80	82	604	35
14	813817112015	205015	GOWRI. K	86	85	85	88	92	85	83	604	32
15	813817112016	205016	HARIHARAN. P	81	88	88	84	80	90	83	594	47
16	813817112017	205017	HARINI. R.M	77	86	86	80	76	80	86	571	54
17	813817112020	205021	KALKI. K	76	95	95	96	84	85	84	615	29
18	813817112021	205022	KARTHIK. K	87	88	88	92	88	85	82	610	26
19	813817112022	205023	KARTHIKEYAN. M	83	85	85	88	92	85	85	603	37
20	813817112023	205024	KARTHIKHEYEN. S	A	83	83	A	A	A	85	251	
21	813817112024	205025	KAVIN. K V	85	81	81	88	88	80	85	588	46
22	813817112025	205026	KIRTHIKA. V	84	95	95	96	98	85	77	630	12
23	813817112026	205027	KRISHNAKUMAR. R	81	88	88	84	88	80	85	594	48
24	813817112027	205028	LAKKSHMI PRIYA. S	85	93	93	94	92	85	88	630	11
25	813817112028	205029	LAVANYA. B	84	90	90	96	96	82	81	619	22
26	813817112029	205030	LINGTAN. N	81	90	90	94	96	92	82	625	13
27	813817112030	205031	MAHALAKSHMI. S P	87	93	93	96	96	90	80	635	4
28	813817112032	205033	MANIKANDAN. S	86	88	88	84	86	85	85	602	43
29	813817112033	205034	MEENUASHWINI. R	86	85	85	84	92	90	81	603	38
30	813817112034	205035	MOHAMED NOORDEEN. J	82	88	88	80	86	80	80	584	51
31	813817112036	205037	NAZEER AHAMED. B	80	83	83	88	94	82	88	598	42
32	813817112038	205038	NISHA FRANCY. S	81	88	88	96	96	92	86	627	8
33	813817112039	205039	PRATHEEP. M	85	87	87	92	98	80	89	618	18
34	813817112040	205040	RAGAVI. S	83	90	90	94	98	80	82	617	23
35	813817112041	205041	RAHUL. J	82	90	90	86	88	90	85	611	27
36	813817112042	205042	RAVIKIRAN. B	84	89	89	94	94	90	82	622	15

37	813817112043	205043	RENUGA. S	86	94	94	88	88	85	84	619	25
38	813817112044	205045	SABTHAMI. M	76	96	96	94	96	85	78	621	24
39	813817112045	205046	SAI HARI PRASHAD. N K	85	85	85	84	88	80	82	589	50
40	813817112046	205047	SALMAN MOHAMED. J	86	90	90	84	86	80	80	596	49
41	813817112047	205048	SAM ANDREW. B	80	93	93	84	92	90	80	612	33
42	813817112049	205050	SHARVIN SHAKESH. P	81	96	96	96	96	94	76	635	6
43	813817112050	205051	SHRI HARI. S	86	90	90	92	92	85	86	621	19
44	813817112051	205052	SINDHUJA. C	86	93	93	96	96	85	82	631	10
45	813817112052	205053	SIVASUBRAMANIAN. V	84	94	94	84	90	80	86	612	36
46	813817112053	205054	SNEKA. C	80	90	90	88	94	80	84	606	39
47	813817112054	205055	SOUNTHIRIYA. G M	80	90	90	96	98	82	86	622	17
48	813817112055	205057	SURRAJ. N S	76	90	90	78	84	80	86	584	53
49	813817112056	205058	SURYA. S	84	93	93	96	98	90	82	636	2
50	813817112057	205059	SURYALAKSHMI. R	88	94	94	96	98	85	86	641	1
51	813817112058	205060	THARIK AHAMADU MOHAMED DHEEN. M	87	85	85	92	94	80	82	605	30
52	813817112059	205061	YAZHINI. C	76	90	90	96	95	80	84	611	28
53	813817112037	205062	NIRMAL KUMAR. D	76	89	89	82	86	81	80	583	52
54	813817112302	205063	SIVA PERUMAL. R	81	90	90	88	88	84	80	601	45
55	813817112301	205064	FELIXNIRMALDOSS. M	77	85	85	92	90	85	82	596	44

Performance Analysis

Total Appeared	55	55	55	55	55	55	55
Total Passed	54	55	55	54	54	54	55
Total Failed	1	0	0	1	1	1	0
Absent	0	0	0	0	0	0	0
Above 80	46	54	54	53	53	54	50
Between 50-59	0	0	0	0	0	0	0
Pass%	98	100	100	98	98	98	100

Subcode	Title	Faculty Name
EC8093	DIGITAL IMAGE PROCESSING	Mr.S.Hariprasath
EI8075	FIBRE OPTICS AND LASER INSTRUMENTATION	Dr.P.Aravind
EI8075	FIBRE OPTICS AND LASER INSTRUMENTATION	Mr.P.Aravind
EI8091	INSTRUMENTATION IN PETROCHEMICAL INDUSTRIES	Ms.K.Ezhilarasi
EI8692	ELECTRONICS INSTRUMENTATION	Dr.P.Thirumurugan
EI8751	INDUSTRIAL DATA NETWORKS	Dr.M.Shanmugavalli
OCS752	iNtroduction To C ProgramminG	Ms.J.Sathia Parkavi

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Classwise Internal Assessment Mark Report

Class:ICE Semester:4 Section:A: Assessment Test -1 Sem Period:20-21EVEN

S.no	Regno	Batchno	Name	EC8395	EE8451	EI8451	EI8452	EI8452	IC8451	MA8491	Total	Rar
1	813819112001	225001	ABARNA. R	68	47	55	82	82	72	63	469	
2	813819112003	225003	ARUNKUMAR. R	96	72	79	73	73	62	42	497	
3	813819112004	225004	BAIRAVI. S	92	88	86	95	95	78	50	584	5
4	813819112005	225005	BHARATH SAMVEL. D	81	93	79	82	82	78	78	573	3
5	813819112006	225006	DARWIN. I	71	85	86	90	90	72	60	554	10
6	813819112007	225007	DEEPAK. B	57	43	55	83	83	62	58	441	
7	813819112008	225008	DHARSHINI. G	82	87	77	90	90	64	65	555	9
8	813819112009	225009	DHINESH. R	87	90	76	87	87	80	78	585	1
9	813819112011	225010	HARI KRISHNA. M	58	35	45	88	88	62	57	433	
10	813819112010	225011	HARIHARAN. K	88	80	71	85	85	76	68	553	8
11	813819112012	225012	HARISH. R	41	78	71	70	70	54	63	447	
12	813819112013	225013	HEMANTH. K K	80	77	64	77	77	54	35	464	
13	813819112014	225014	JAYAKANTHAN. G P	83	85	80	82	82	74	76	562	7
14	813819112015	225015	JAYALAKSHMI. R	65	83	60	88	88	54	57	495	15
15	813819112016	225016	KANNAPPAN. S	77	95	67	82	82	66	63	532	12
16	813819112017	225017	KRISHNA KUMARAN. K	29	22	50	40	40	54	50	285	
17	813819112018	225018	MOHAMED FAHIM. K	50	43	27	40	40	44	59	303	
18	813819112019	225019	MOHAMED YAHYA. A	75	73	73	75	75	46	45	462	
19	813819112020	225020	MOHAN RAJ. B	85	85	83	93	93	82	69	590	2
20	813819112021	225021	MUTHUKUMARAN. K	70	85	76	85	85	56	55	512	15
21	813819112022	225022	NICOLAS NESAN. G	77	72	65	83	83	74	50	504	16
22	813819112023	225023	NITHISH. S	87	92	79	93	93	74	65	583	4
23	813819112024	225024	PARITHI KUMAR. J	69	62	56	78	78	62	65	470	21
24	813819112025	225025	PRABAHARAN. M	73	83	85	88	88	80	72	569	6
25	813819112027	225027	RAGAVANTIRAN. G	54	88	79	75	75	54	42	467	
26	813819112028	225028	RAGHURAM. M	83	80	70	88	88	74	53	536	13
27	813819112029	225029	RATNAGIRISH. R K	65	43	64	72	72	58	64	438	
28	813819112030	225030	REGENA ARSHNI. S	50	58	44	60	60	40	58	370	
29	813819112031	225031	SAKTHIGANESH. K	70	67	76	77	77	60	48	475	
30	813819112033	225033	SHANJITH KUMAR. I	69	62	83	83	83	58	55	493	18
31	813819112034	225034	SHARLENE . A	71	70	79	70	70	72	56	488	17
32	813819112035	225035	SHYAM PRAKASH. G P	73	48	60	82	82	72	53	470	
33	813819112036	225036	SIVABALAN. D	62	60	70	57	57	60	57	423	23
34	813819112037	225037	SUBASH. NS	73	30	67	80	80	58	47	435	
35	813819112038	225038	SUNDHARADEVAN. S	A	80	60	80	80	68	48	416	

36	813819112039	225039	SURYA. M	83	63	77	82	82	70	72	529	14
37	813819112040	225040	SWATHI. A	73	57	80	82	82	54	55	483	20
38	813819112041	225041	SYED ATHAULLAH. S	80	27	48	78	78	70	43	424	
39	813819112042	225042	SYED FIZAL. S K	80	30	76	73	73	52	55	439	
40	813819112043	225043	THANESHWARAN. S	81	80	83	88	88	66	63	549	11
41	813819112044	225044	THANGASABARI . S	65	75	70	70	70	60	48	458	
42	813819112045	225045	VARUN. K	70	57	55	77	77	76	55	467	22
43	813819112046	225046	VIGNESH. G	80	80	90	87	87	40	57	521	
44	813819112047	225047	VIGNESWARARAJAN. K	73	35	64	82	82	54	63	453	

Performance Analysis

Total Appeared	44	44	44	44	44	44	44
Total Passed	41	33	40	42	42	40	35
Total Failed	3	11	4	2	2	4	9
Absent	0	0	0	0	0	0	0
Above 80	16	18	9	27	27	3	0
Between 50-59	5	3	5	1	1	12	18
Pass%	93	75	91	95	95	91	80

Subcode	Title	Faculty Name
EC8395	CommunicationEngineering	Mr.K.Malaisamy
EE8451	Linear Integrated Circuitsand Applications	Dr.P.Thirumurugan
EI8451	Electrical Machines	Mr.P.Ram Prakash
EI8452	Industrial Instrumentation - I	Dr.P.Aravind
EI8452	Industrial Instrumentation - I	Mr.P.Aravind
IC8451	Control Systems	Mr.S. Vigneshwaran
MA8491	Numerical Methods	Ms.N.Subashini

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Classwise Internal Assessment Mark Report

Class:ICE Semester:4 Section:A: Assessment Test -2 Sem Period:20-21EVEN

S.no	Regno	Batchno	Name	EC8395	EE8451	EI8451	EI8452	EI8452	IC8451	MA8491	Total	Rar
1	813819112001	225001	ABARNA. R	71	52	50	51	51	28	60	363	
2	813819112003	225003	ARUNKUMAR. R	98	44	66	72	72	60	80	492	
3	813819112004	225004	BAIRAVI. S	95	50	50	88	88	68	80	519	9
4	813819112005	225005	BHARATH SAMVEL. D	85	74	60	64	64	76	96	519	7
5	813819112006	225006	DARWIN. I	75	54	52	60	60	50	76	427	25
6	813819112007	225007	DEEPAK. B	60	50	50	62	62	62	82	428	30
7	813819112008	225008	DHARSHINI. G	85	52	52	60	60	60	94	463	22
8	813819112009	225009	DHINESH. R	90	84	66	64	64	74	98	540	1
9	813819112011	225010	HARI KRISHNA. M	62	56	50	52	52	40	72	384	
10	813819112010	225011	HARIHARAN. K	92	74	60	68	68	70	96	528	5
11	813819112012	225012	HARISH. R	83	64	50	52	52	50	74	425	28
12	813819112013	225013	HEMANTH. K K	83	72	66	74	74	70	96	535	4
13	813819112014	225014	JAYAKANTHAN. G P	87	74	60	68	68	66	100	523	6
14	813819112015	225015	JAYALAKSHMI. R	69	58	50	66	66	46	62	417	
15	813819112016	225016	KANNAPPAN. S	81	66	54	70	70	56	88	485	14
16	813819112017	225017	KRISHNA KUMARAN. K	31	50	76	52	52	50	66	377	
17	813819112018	225018	MOHAMED FAHIM. K	41	32	40	16	16	24	38	207	
18	813819112019	225019	MOHAMED YAHYA. A	80	50	52	66	66	54	60	428	31
19	813819112020	225020	MOHAN RAJ. B	88	84	62	76	76	60	96	542	3
20	813819112021	225021	MUTHUKUMARAN. K	73	72	66	70	70	64	76	491	10
21	813819112022	225022	NICOLAS NESAN. G	80	72	50	72	72	50	80	476	21
22	813819112023	225023	NITHISH. S	90	78	66	82	82	40	96	534	
23	813819112024	225024	PARITHI KUMAR. J	71	62	50	60	60	36	74	413	
24	813819112025	225025	PRABAHARAN. M	77	78	66	76	76	82	96	551	2
25	813819112027	225027	RAGAVANTIRAN. G	56	74	76	68	68	60	80	482	15
26	813819112028	225028	RAGHURAM. M	87	62	52	70	70	62	80	483	16
27	813819112029	225029	RATNAGIRISH. R K	69	44	50	40	40	24	80	347	
28	813819112030	225030	REGENA ARSHNI. S	54	52	50	52	52	44	76	380	
29	813819112031	225031	SAKTHIGANESH. K	69	50	50	66	66	60	84	445	26
30	813819112033	225033	SHANJITH KUMAR. I	73	86	76	66	66	70	80	517	8
31	813819112034	225034	SHARLENE . A	75	58	64	62	62	64	96	481	11
32	813819112035	225035	SHYAM PRAKASH. G P	65	50	72	50	50	68	70	425	27
33	813819112036	225036	SIVABALAN. D	77	64	66	56	56	60	84	463	18
34	813819112037	225037	SUBASH. NS	77	60	66	50	50	52	84	439	24
35	813819112038	225038	SUNDHARADEVAN. S	87	58	62	64	64	56	80	471	20

36	813819112039	225039	SURYA. M	73	68	66	64	64	64	84	483	12
37	813819112040	225040	SWATHI. A	83	58	50	66	66	60	92	475	17
38	813819112041	225041	SYED ATHAULLAH. S	83	58	50	60	60	52	82	445	25
39	813819112042	225042	SYED FIZAL. S K	85	62	A	50	50	56	96	399	
40	813819112043	225043	THANESHWARAN. S	69	58	60	62	62	62	96	469	15
41	813819112044	225044	THANGASABARI . S	73	50	64	60	60	60	84	451	23
42	813819112045	225045	VARUN. K	84	52	50	44	44	64	80	418	
43	813819112046	225046	VIGNESH. G	83	54	66	66	66	66	84	485	13
44	813819112047	225047	VIGNESWARARAJAN. K	77	54	56	68	68	18	96	437	

Performance Analysis

Total Appeared	44	44	44	44	44	44	44
Total Passed	42	41	42	41	41	35	43
Total Failed	2	3	2	3	3	9	1
Absent	0	0	0	0	0	0	0
Above 80	21	3	0	2	2	1	32
Between 50-59	2	21	20	9	9	10	0
Pass%	95	93	95	93	93	80	98

Subcode	Title	Faculty Name
EC8395	CommunicationEngineering	Mr.K.Malaisamy
EE8451	Linear Integrated Circuitsand Applications	Dr.P.Thirumurugan
EI8451	Electrical Machines	Mr.P.Ram Prakash
EI8452	Industrial Instrumentation - I	Dr.P.Aravind
EI8452	Industrial Instrumentation - I	Mr.P.Aravind
IC8451	Control Systems	Mr.S. Vigneshwaran
MA8491	Numerical Methods	Ms.N.Subashini

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Classwise Internal Assessment Mark Report

Class:ICE Semester:4 Section:A: Assessment Test -3 Sem Period:20-21EVEN

S.no	Regno	Batchno	Name	EC8395	EE8451	EI8451	EI8452	EI8452	IC8451	MA8491	Total	Rar
1	813819112001	225001	ABARNA. R	82	58	64	78	78	44	52	456	
2	813819112003	225003	ARUNKUMAR. R	96	72	62	78	78	64	72	522	24
3	813819112004	225004	BAIRAVI. S	94	88	84	98	98	82	92	636	3
4	813819112005	225005	BHARATH SAMVEL. D	83	86	90	100	100	66	98	623	5
5	813819112006	225006	DARWIN. I	73	72	70	78	78	66	72	509	27
6	813819112007	225007	DEEPAK. B	80	70	72	83	83	76	90	554	16
7	813819112008	225008	DHARSHINI. G	88	84	60	78	78	64	82	534	22
8	813819112009	225009	DHINESH. R	98	92	92	100	100	96	100	678	1
9	813819112011	225010	HARI KRISHNA. M	80	56	50	94	94	46	50	470	
10	813819112010	225011	HARIHARAN. K	90	86	84	78	78	90	96	602	4
11	813819112012	225012	HARISH. R	81	70	62	78	78	60	78	507	25
12	813819112013	225013	HEMANTH. K K	85	84	74	78	78	64	92	555	13
13	813819112014	225014	JAYAKANTHAN. G P	86	90	86	100	100	90	98	650	2
14	813819112015	225015	JAYALAKSHMI. R	88	86	72	78	78	66	76	544	18
15	813819112016	225016	KANNAPPAN. S	88	84	70	100	100	68	90	600	8
16	813819112017	225017	KRISHNA KUMARAN. K	70	80	60	78	78	44	70	480	
17	813819112018	225018	MOHAMED FAHIM. K	74	30	22	78	78	32	52	366	
18	813819112019	225019	MOHAMED YAHYA. A	77	86	58	84	84	68	72	529	23
19	813819112020	225020	MOHAN RAJ. B	87	84	84	100	100	56	88	599	9
20	813819112021	225021	MUTHUKUMARAN. K	71	86	72	81	81	60	68	519	25
21	813819112022	225022	NICOLAS NESAN. G	79	68	60	100	100	72	78	557	21
22	813819112023	225023	NITHISH. S	88	90	78	100	100	56	90	602	7
23	813819112024	225024	PARITHI KUMAR. J	70	68	50	78	78	62	76	482	38
24	813819112025	225025	PRABAHARAN. M	75	84	76	100	100	72	100	607	6
25	813819112027	225027	RAGAVANTIRAN. G	80	86	80	78	78	66	86	554	15
26	813819112028	225028	RAGHURAM. M	85	72	72	100	100	70	78	577	14
27	813819112029	225029	RATNAGIRISH. R K	80	52	46	100	100	56	62	496	
28	813819112030	225030	REGENA ARSHNI. S	80	94	56	78	78	54	62	502	31
29	813819112031	225031	SAKTHIGANESH. K	72	68	60	78	78	68	68	492	36
30	813819112033	225033	SHANJITH KUMAR. I	71	86	74	100	100	76	90	597	10
31	813819112034	225034	SHARLENE . A	73	86	66	100	100	78	80	583	12
32	813819112035	225035	SHYAM PRAKASH. G P	80	78	60	78	78	70	64	508	28
33	813819112036	225036	SIVABALAN. D	75	84	62	78	78	68	52	497	34
34	813819112037	225037	SUBASH. NS	88	82	62	78	78	60	98	546	17
35	813819112038	225038	SUNDHARADEVAN. S	71	72	68	78	78	56	82	505	30

36	813819112039	225039	SURYA. M	85	86	72	86	86	60	74	549	20
37	813819112040	225040	SWATHI. A	71	88	72	94	94	70	100	589	11
38	813819112041	225041	SYED ATHAULLAH. S	88	72	52	100	100	52	70	534	26
39	813819112042	225042	SYED FIZAL. S K	84	72	50	78	78	64	74	500	32
40	813819112043	225043	THANESHWARAN. S	83	62	68	78	78	52	64	485	37
41	813819112044	225044	THANGASABARI . S	80	70	60	78	78	64	72	502	32
42	813819112045	225045	VARUN. K	71	58	64	78	78	68	76	493	35
43	813819112046	225046	VIGNESH. G	81	90	70	78	78	64	82	543	19
44	813819112047	225047	VIGNESWARARAJAN. K	70	60	56	78	78	36	100	478	

Performance Analysis

Total Appeared	44	44	44	44	44	44	44
Total Passed	44	43	42	44	44	39	44
Total Failed	0	1	2	0	0	5	0
Absent	0	0	0	0	0	0	0
Above 80	28	24	7	20	20	4	20
Between 50-59	0	4	7	0	0	7	4
Pass%	100	98	95	100	100	89	100

Subcode	Title	Faculty Name
EC8395	CommunicationEngineering	Mr.K.Malaisamy
EE8451	Linear Integrated Circuitsand Applications	Dr.P.Thirumurugan
EI8451	Electrical Machines	Mr.P.Ram Prakash
EI8452	Industrial Instrumentation - I	Dr.P.Aravind
EI8452	Industrial Instrumentation - I	Mr.P.Aravind
IC8451	Control Systems	Mr.S. Vigneshwaran
MA8491	Numerical Methods	Ms.N.Subashini

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Classwise Internal Assessment Mark Report

Class:ICE Semester:6 Section:A: Assessment Test -1 Sem Period:20-21EVEN

S.no	Regno	Batchno	Name	CS8391	EE8071	EE8072	EI8092	EI8651	EI8651	IC8651	Total	Rar
1	813818112001	215001	AASHIK. G	88	100	95	97	83	83	90	636	4
2	813818112002	215002	ABDUL JAVITH. A	75	85	87	83	85	85	87	587	20
3	813818112003	215003	AJMALKHAN. S	87	94	93	82	72	72	87	587	12
4	813818112004	215004	AKILAN. R	80	84	93	87	82	82	85	593	16
5	813818112005	215005	AKSHAYAVARSHINI. V	92	82	92	92	92	92	72	614	9
6	813818112006	215006	ASWIN KUMAAR. R S	77	85	92	90	75	75	57	551	27
7	813818112007	215007	BENITO RICHARDSON. D	75	77	95	83	77	77	50	534	32
8	813818112008	215008	BHAVADHARANI. M B	88	94	90	88	93	93	57	603	17
9	813818112009	215009	DHARSAN PRABU. G K	73	75	88	87	67	67	44	501	
10	813818112010	215010	GEETHA RANJANI. G	82	92	85	93	85	85	79	601	11
11	813818112011	215011	HARIHARAN. T	70	89	92	95	83	83	79	591	19
12	813818112012	215012	HARINI BANUMATHI. N	83	95	90	93	93	93	57	604	15
13	813818112013	215013	HARISH. P K	80	72	93	87	80	80	67	559	24
14	813818112014	215014	ISHWARYA. M	83	100	88	90	87	87	70	605	10
15	813818112015	215015	KUMARAGURU. K	78	97	85	93	82	82	47	564	
16	813818112016	215016	LOKESH. R	70	79	90	77	68	68	57	509	33
17	813818112017	215017	LOKESH. S	75	85	92	78	72	72	74	548	26
18	813818112018	215018	MANIKANDAN. V	80	89	93	100	90	90	62	604	13
19	813818112019	215019	MOHAMED JAVEED ALI . S	72	94	88	98	80	80	47	559	
20	813818112020	215020	MOHAMED THASNEEM. A	77	100	90	95	87	87	85	621	5
21	813818112021	215021	MOHAMED THOUFEEQ. P	80	80	90	80	83	83	54	550	30
22	813818112022	215022	NIRMAL VEL. S	100	95	87	93	92	92	100	659	1
23	813818112023	215023	NITHISH ANAND. S	90	80	92	92	83	83	59	579	22
24	813818112024	215024	NITHISH KUMAAR. R	75	87	95	75	77	77	62	548	28
25	813818112025	215025	NITHS ROSHAN . E.M.	80	92	88	90	75	75	69	569	23
26	813818112026	215026	POOJAVARDHINI. B	68	74	90	82	67	67	52	500	34
27	813818112027	215027	PRANAV KUMAR. S	97	80	92	87	88	88	54	586	21
28	813818112028	215028	PRANAV SAJESH. S	80	70	93	58	63	63	42	469	
29	813818112029	215029	PRIYADHARSHINI. M	80	94	92	87	88	88	85	614	8

30	813818112030	215030	SANDHYA. V	88	97	92	93	95	95	49	609	
31	813818112031	215031	SELVABALAJI. K P	88	89	90	97	93	93	55	605	14
32	813818112032	215032	SELVAKUMAR. B	75	95	85	82	80	80	62	559	25
33	813818112033	215033	SENTHIL ARASAN. B	90	80	88	67	77	77	57	536	31
34	813818112034	215034	SHARMILA RANI. A	87	97	92	90	88	88	77	619	7
35	813818112035	215035	SHIVAA SANKAR. A	77	89	88	88	88	88	44	562	
36	813818112036	215036	SURIYA PRAKAASH. D	90	90	88	92	95	95	55	605	18
37	813818112037	215037	SWETHA. R	77	82	90	93	68	68	59	537	29
38	813818112038	215038	VASUNDRA. R	90	97	93	95	97	97	60	629	6
39	813818112039	215039	VICKRAM. K B	80	42	87	78	93	93	60	533	
40	813818112302	215040	KAVIYARASAN. K	87	94	90	87	90	90	42	580	
41	813818112303	215041	SATHISH KUMAR. M	100	95	95	93	92	92	90	657	2
42	813818112301	215042	KABILESHWARAN. R	93	95	90	98	90	90	97	653	3

Performance Analysis

Total Appeared	42	42	42	42	42	42	42
Total Passed	42	41	42	42	42	42	35
Total Failed	0	1	0	0	0	0	7
Absent	0	0	0	0	0	0	0
Above 80	27	35	42	36	30	30	9
Between 50-59	0	0	0	1	0	0	13
Pass%	100	98	100	100	100	100	83

Subcode	Title	Faculty Name
CS8391	Data Structures	Ms.A.Sheelavathi
EE8071	Applied Soft Computing	Mr.T.Tamilarasan
EE8072	MEMS and Nano Science	Ms.K.Ezhilarasi
EI8092	Thermal Power Plant Instrumentation	Dr.P.Thirumurugan
EI8651	Logic and Distributed Control System	Dr.P.Aravind
EI8651	Logic and Distributed Control System	Mr.P.Aravind
IC8651	Advanced Control System	Mr.R.Seetharaman

[entire first semester ug marks](#)

Classwise Internal Assessment Mark Report

Class:ICE Semester:6 Section:A: Assessment Test -2 Sem Period:20-21EVEN

S.no	Regno	Batchno	Name	CS8391	EE8071	EE8072	EI8092	EI8651	EI8651	IC8651	Total	Rar
1	813818112001	215001	AASHIK. G	86	90	82	84	76	76	80	574	18
2	813818112002	215002	ABDUL JAVITH. A	92	100	84	88	78	78	100	620	3
3	813818112003	215003	AJMALKHAN. S	90	92	84	88	66	66	82	568	13
4	813818112004	215004	AKILAN. R	78	80	78	72	66	66	80	520	34
5	813818112005	215005	AKSHAYAVARSHINI. V	86	100	88	88	78	78	100	618	5
6	813818112006	215006	ASWIN KUMAAR. R S	88	84	84	86	70	70	80	562	20
7	813818112007	215007	BENITO RICHARDSON. D	82	88	80	66	68	68	80	532	30
8	813818112008	215008	BHAVADHARANI. M B	90	92	84	82	60	60	80	548	23
9	813818112009	215009	DHARSAN PRABU. G K	82	80	78	74	66	66	80	526	31
10	813818112010	215010	GEETHA RANJANI. G	88	80	76	70	43	43	80	480	
11	813818112011	215011	HARIHARAN. T	78	100	58	60	36	36	100	468	
12	813818112012	215012	HARINI BANUMATHI. N	90	80	90	82	66	66	80	554	22
13	813818112013	215013	HARISH. P K	98	100	58	88	54	54	100	552	19
14	813818112014	215014	ISHWARYA. M	88	100	76	92	62	62	100	580	10
15	813818112015	215015	KUMARAGURU. K	90	86	84	88	72	72	80	572	15
16	813818112016	215016	LOKESH. R	78	80	76	64	50	50	80	478	36
17	813818112017	215017	LOKESH. S	78	80	84	84	66	66	80	538	27
18	813818112018	215018	MANIKANDAN. V	92	100	86	90	72	72	100	612	4
19	813818112019	215019	MOHAMED JAVEED ALI . S	78	80	78	84	68	68	80	536	28
20	813818112020	215020	MOHAMED THASNEEM. A	90	86	80	82	66	66	80	550	25
21	813818112021	215021	MOHAMED THOUFEEQ. P	92	80	76	58	70	70	80	526	33
22	813818112022	215022	NIRMAL VEL. S	84	100	86	90	70	70	100	600	8
23	813818112023	215023	NITHISH ANAND. S	80	80	84	80	80	80	82	566	24
24	813818112024	215024	NITHISH KUMAAR. R	70	80	82	50	36	36	80	434	
25	813818112025	215025	NITHS ROSHAN . E.M.	82	80	80	72	62	62	80	518	32
26	813818112026	215026	POOJAVARDHINI. B	88	100	82	64	40	40	100	514	
27	813818112027	215027	PRANAV KUMAR. S	86	80	86	78	58	58	80	526	29
28	813818112028	215028	PRANAV SAJESH. S	84	82	88	88	78	78	80	578	16
29	813818112029	215029	PRIYADHARSHINI. M	96	100	84	92	82	82	100	636	2

30	813818112030	215030	SANDHYA. V	96	100	80	84	74	74	100	608	7
31	813818112031	215031	SELVABALAJI. K P	84	80	86	82	62	62	80	536	26
32	813818112032	215032	SELVAKUMAR. B	86	82	56	70	54	54	80	482	37
33	813818112033	215033	SENTHIL ARASAN. B	90	100	78	80	80	80	100	608	9
34	813818112034	215034	SHARMILA RANI. A	96	80	90	88	60	60	86	560	17
35	813818112035	215035	SHIVAA SANKAR. A	78	80	56	64	44	44	100	466	
36	813818112036	215036	SURIYA PRAKAASH. D	94	80	78	92	74	74	83	575	14
37	813818112037	215037	SWETHA. R	88	100	92	86	70	70	100	606	6
38	813818112038	215038	VASUNDRA. R	82	100	90	82	56	56	100	566	12
39	813818112039	215039	VICKRAM. K B	78	80	70	78	64	64	80	514	35
40	813818112302	215040	KAVIYARASAN. K	80	82	78	84	66	66	100	556	21
41	813818112303	215041	SATHISH KUMAR. M	94	100	92	92	84	84	100	646	1
42	813818112301	215042	KABILESHWARAN. R	90	100	84	88	72	72	80	586	11

Performance Analysis

Total Appeared	42	42	42	42	42	42	42
Total Passed	42	42	42	42	37	37	42
Total Failed	0	0	0	0	5	5	0
Absent	0	0	0	0	0	0	0
Above 80	34	42	27	28	4	4	42
Between 50-59	0	0	4	2	5	5	0
Pass%	100	100	100	100	88	88	100

Subcode	Title	Faculty Name
CS8391	Data Structures	Ms.A.Sheelavathi
EE8071	Applied Soft Computing	Mr.T.Tamilarasan
EE8072	MEMS and Nano Science	Ms.K.Ezhilarasi
EI8092	Thermal Power Plant Instrumentation	Dr.P.Thirumurugan
EI8651	Logic and Distributed Control System	Dr.P.Aravind
EI8651	Logic and Distributed Control System	Mr.P.Aravind
IC8651	Advanced Control System	Mr.R.Seetharaman

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Classwise Internal Assessment Mark Report

Class:ICE Semester:6 Section:A: Assessment Test -3 Sem Period:20-21EVEN

S.no	Regno	Batchno	Name	CS8391	EE8071	EE8072	EI8092	EI8651	EI8651	IC8651	Total	Rar
1	813818112001	215001	AASHIK. G	76	76	90	80	93	93	88	596	16
2	813818112002	215002	ABDUL JAVITH. A	78	80	76	80	100	100	100	614	12
3	813818112003	215003	AJMALKHAN. S	84	80	78	86	90	90	78	586	21
4	813818112004	215004	AKILAN. R	80	62	74	72	86	86	78	538	33
5	813818112005	215005	AKSHAYAVARSHINI. V	94	92	92	88	100	100	100	666	1
6	813818112006	215006	ASWIN KUMAAR. R S	86	68	80	76	87	87	89	573	24
7	813818112007	215007	BENITO RICHARDSON. D	80	78	70	62	77	77	78	522	35
8	813818112008	215008	BHAVADHARANI. M B	88	88	80	82	80	80	78	576	20
9	813818112009	215009	DHARSAN PRABU. G K	88	76	74	82	83	83	78	564	27
10	813818112010	215010	GEETHA RANJANI. G	76	72	90	64	80	80	88	550	30
11	813818112011	215011	HARIHARAN. T	64	52	78	60	100	100	100	554	32
12	813818112012	215012	HARINI BANUMATHI. N	92	84	86	88	90	90	86	616	10
13	813818112013	215013	HARISH. P K	68	68	92	80	100	100	100	608	14
14	813818112014	215014	ISHWARYA. M	86	90	72	88	100	100	100	636	8
15	813818112015	215015	KUMARAGURU. K	88	70	88	86	87	87	92	598	13
16	813818112016	215016	LOKESH. R	88	64	76	60	77	77	96	538	31
17	813818112017	215017	LOKESH. S	80	92	72	86	83	83	93	589	15
18	813818112018	215018	MANIKANDAN. V	92	90	88	70	100	100	100	640	4
19	813818112019	215019	MOHAMED JAVEED ALI . S	76	82	70	78	80	80	92	558	29
20	813818112020	215020	MOHAMED THASNEEM. A	90	70	72	84	86	86	96	584	19
21	813818112021	215021	MOHAMED THOUFEEQ. P	50	65	70	46	77	77	83	468	
22	813818112022	215022	NIRMAL VEL. S	88	82	90	88	100	100	100	648	2
23	813818112023	215023	NITHISH ANAND. S	A	A	A	A	80	80	78	238	
24	813818112024	215024	NITHISH KUMAAR. R	70	65	70	60	77	77	86	505	39
25	813818112025	215025	NITHS ROSHAN . E.M.	84	63	66	74	77	77	78	519	36
26	813818112026	215026	POOJAVARDHINI. B	84	80	88	86	100	100	100	638	6
27	813818112027	215027	PRANAV KUMAR. S	76	84	80	78	86	86	78	568	26
28	813818112028	215028	PRANAV SAJESH. S	84	82	90	74	80	80	78	568	23
29	813818112029	215029	PRIYADHARSHINI. M	88	84	86	86	100	100	100	644	3

30	813818112030	215030	SANDHYA. V	82	84	84	82	100	100	100	632	9
31	813818112031	215031	SELVABALAJI. K P	80	70	94	70	83	83	88	568	25
32	813818112032	215032	SELVAKUMAR. B	70	64	58	74	77	77	78	498	40
33	813818112033	215033	SENTHIL ARASAN. B	74	72	84	90	100	100	100	620	11
34	813818112034	215034	SHARMILA RANI. A	52	60	84	84	100	100	100	580	28
35	813818112035	215035	SHIVAA SANKAR. A	68	72	80	58	77	77	78	510	38
36	813818112036	215036	SURIYA PRAKAASH. D	76	74	86	74	86	86	98	580	22
37	813818112037	215037	SWETHA. R	86	84	80	88	100	100	100	638	7
38	813818112038	215038	VASUNDRA. R	90	76	88	86	100	100	100	640	5
39	813818112039	215039	VICKRAM. K B	90	65	58	74	86	86	78	537	34
40	813818112302	215040	KAVIYARASAN. K	74	86	70	70	100	100	100	600	18
41	813818112303	215041	SATHISH KUMAR. M	78	84	76	62	100	100	100	600	17
42	813818112301	215042	KABILESHWARAN. R	78	65	60	76	77	77	81	514	37

Performance Analysis

Total Appeared	42	42	42	42	42	42	42
Total Passed	41	41	41	40	42	42	42
Total Failed	1	1	1	2	0	0	0
Absent	0	0	0	0	0	0	0
Above 80	24	18	22	20	34	34	30
Between 50-59	2	1	2	1	0	0	0
Pass%	98	98	98	95	100	100	100

Subcode	Title	Faculty Name
CS8391	Data Structures	Ms.A.Sheelavathi
EE8071	Applied Soft Computing	Mr.T.Tamilarasan
EE8072	MEMS and Nano Science	Ms.K.Ezhilarasi
EI8092	Thermal Power Plant Instrumentation	Dr.P.Thirumurugan
EI8651	Logic and Distributed Control System	Dr.P.Aravind
EI8651	Logic and Distributed Control System	Mr.P.Aravind
IC8651	Advanced Control System	Mr.R.Seetharaman

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Classwise Internal Assessment Mark Report

**Class:ICE Semester:8 Section:A: Assessment Test -1 Sem
Period:20-21EVEN**

S.no	Regno	Batchno	Name	GE8073	GE8076	Total	Rank
1	813817112001	205001	AARTHI. R	90	86	176	16
2	813817112002	205002	AHAMED ZUHOOR. A G	92	95	187	2
3	813817112003	205003	AKASH. T	76	85	161	52
4	813817112004	205004	AKASHSAMI. R	84	80	164	50
5	813817112005	205005	AKIL SANJEEV. M	90	88	178	8
6	813817112006	205006	ARAWINTHAN. R	88	90	178	11
7	813817112007	205007	ARJUN. M	84	78	162	51
8	813817112008	205008	ARTHIYA. M	80	84	164	49
9	813817112010	205010	BUVANESHWARI. S	86	97	183	3
10	813817112011	205011	CHARUKANTH. M S	84	84	168	42
11	813817112012	205012	DHANALAKSHMI. S	92	83	175	19
12	813817112013	205013	DHARSHINI. V. J	88	94	182	4
13	813817112014	205014	FAHAD. M	82	90	172	34
14	813817112015	205015	GOWRI. K	84	89	173	31
15	813817112016	205016	HARIHARAN. P	84	90	174	26
16	813817112017	205017	HARINI. R.M	78	89	167	46
17	813817112020	205021	KALKI. K	86	85	171	35
18	813817112021	205022	KARTHIK. K	82	86	168	43
19	813817112022	205023	KARTHIKEYAN. M	84	88	172	33
20	813817112023	205024	KARTHIKHEYEN. S	80	87	167	45
21	813817112024	205025	KAVIN. K V	82	87	169	40
22	813817112025	205026	KIRTHIKA. V	88	90	178	10
23	813817112026	205027	KRISHNAKUMAR. R	90	80	170	37
24	813817112027	205028	LAKKSHMI PRIYA. S	86	90	176	15
25	813817112028	205029	LAVANYA. B	86	90	176	14

26	813817112029	205030	LINGTAN. N	88	93	181	5
27	813817112030	205031	MAHALAKSHMI. S P	94	96	190	1
28	813817112032	205033	MANIKANDAN. S	76	83	159	53
29	813817112033	205034	MEENUASHWINI. R	90	89	179	7
30	813817112034	205035	MOHAMED NOORDEEN. J	80	94	174	25
31	813817112036	205037	NAZEER AHAMED. B	84	89	173	32
32	813817112038	205038	NISHA FRANCY. S	88	90	178	9
33	813817112039	205039	PRATHEEP. M	86	89	175	18
34	813817112040	205040	RAGAVI. S	84	89	173	29
35	813817112041	205041	RAHUL. J	86	85	171	36
36	813817112042	205042	RAVIKIRAN. B	90	89	179	6
37	813817112043	205043	RENUGA. S	88	86	174	24
38	813817112044	205045	SABTHAMI. M	84	89	173	30
39	813817112045	205046	SAI HARI PRASHAD. N K	62	89	151	55
40	813817112046	205047	SALMAN MOHAMED. J	78	88	166	47
41	813817112047	205048	SAM ANDREW. B	84	86	170	38
42	813817112049	205050	SHARVIN SHAKESH. P	86	89	175	22
43	813817112050	205051	SHRI HARI. S	68	89	157	54
44	813817112051	205052	SINDHUJA. C	86	88	174	27
45	813817112052	205053	SIVASUBRAMANIAN. V	82	87	169	41
46	813817112053	205054	SNEKA. C	84	85	169	39
47	813817112054	205055	SOUNTHIRIYA. G M	90	84	174	28
48	813817112055	205057	SURRAJ. N S	82	84	166	48
49	813817112056	205058	SURYA. S	90	87	177	13
50	813817112057	205059	SURYALAKSHMI. R	86	89	175	20
51	813817112058	205060	THARIK AHAMADU MOHAMED DHEEN. M	80	88	168	44
52	813817112059	205061	YAZHINI. C	86	89	175	21
53	813817112037	205062	NIRMAL KUMAR. D	88	88	176	17
54	813817112302	205063	SIVA PERUMAL. R	90	87	177	12

55	813817112301	205064	FELIXNIRMALDOSS. M	86	88	174	23
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Performance Analysis

Total Appeared	55	55
Total Passed	55	55
Total Failed	0	0
Absent	0	0
Above 80	49	54
Between 50-59	0	0
Pass%	100	100

Subcode	Title	Faculty Name
GE8073	Fundamentals of Nano Science	Ms.K.Ezhilarasi
GE8076	PROFESSIONAL ETHICS IN ENGINEERING	Dr.S.M.Giri Rajkumar

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Classwise Internal Assessment Mark Report

**Class:ICE Semester:8 Section:A: Assessment Test -2 Sem
Period:20-21EVEN**

S.no	Regno	Batchno	Name	GE8073	GE8076	Total	Rank
1	813817112001	205001	AARTHI. R	90	87	177	9
2	813817112002	205002	AHAMED ZUHOOR. A G	86	89	175	17
3	813817112003	205003	AKASH. T	78	83	161	53
4	813817112004	205004	AKASHSAMI. R	92	83	175	20
5	813817112005	205005	AKIL SANJEEV. M	86	84	170	31
6	813817112006	205006	ARAWINTHAN. R	92	86	178	5
7	813817112007	205007	ARJUN. M	88	87	175	19
8	813817112008	205008	ARTHIYA. M	82	84	166	45
9	813817112010	205010	BUVANESHWARI. S	88	88	176	13
10	813817112011	205011	CHARUKANTH. M S	86	87	173	26
11	813817112012	205012	DHANALAKSHMI. S	88	86	174	22
12	813817112013	205013	DHARSHINI. V. J	86	87	173	24
13	813817112014	205014	FAHAD. M	80	89	169	36
14	813817112015	205015	GOWRI. K	84	87	171	29
15	813817112016	205016	HARIHARAN. P	92	85	177	10
16	813817112017	205017	HARINI. R.M	80	83	163	51
17	813817112020	205021	KALKI. K	86	83	169	38
18	813817112021	205022	KARTHIK. K	80	80	160	54
19	813817112022	205023	KARTHIKEYAN. M	86	83	169	41
20	813817112023	205024	KARTHIKHEYEN. S	82	83	165	50
21	813817112024	205025	KAVIN. K V	78	85	163	52
22	813817112025	205026	KIRTHIKA. V	92	87	179	4
23	813817112026	205027	KRISHNAKUMAR. R	82	83	165	48
24	813817112027	205028	LAKKSHMI PRIYA. S	90	87	177	7
25	813817112028	205029	LAVANYA. B	86	88	174	23

26	813817112029	205030	LINGTAN. N	84	85	169	34
27	813817112030	205031	MAHALAKSHMI. S P	90	87	177	11
28	813817112032	205033	MANIKANDAN. S	84	85	169	40
29	813817112033	205034	MEENUASHWINI. R	92	88	180	1
30	813817112034	205035	MOHAMED NOORDEEN. J	90	86	176	12
31	813817112036	205037	NAZEER AHAMED. B	90	88	178	6
32	813817112038	205038	NISHA FRANCY. S	84	86	170	32
33	813817112039	205039	PRATHEEP. M	86	87	173	25
34	813817112040	205040	RAGAVI. S	86	86	172	27
35	813817112041	205041	RAHUL. J	90	85	175	16
36	813817112042	205042	RAVIKIRAN. B	84	87	171	30
37	813817112043	205043	RENUGA. S	82	84	166	46
38	813817112044	205045	SABTHAMI. M	84	85	169	35
39	813817112045	205046	SAI HARI PRASHAD. N K	82	86	168	43
40	813817112046	205047	SALMAN MOHAMED. J	80	87	167	44
41	813817112047	205048	SAM ANDREW. B	86	86	172	28
42	813817112049	205050	SHARVIN SHAKESH. P	92	87	179	2
43	813817112050	205051	SHRI HARI. S	84	85	169	37
44	813817112051	205052	SINDHUJA. C	88	86	174	21
45	813817112052	205053	SIVASUBRAMANIAN. V	82	87	169	39
46	813817112053	205054	SNEKA. C	90	86	176	14
47	813817112054	205055	SOUNTHIRIYA. G M	92	85	177	8
48	813817112055	205057	SURRAJ. N S	84	86	170	33
49	813817112056	205058	SURYA. S	90	86	176	15
50	813817112057	205059	SURYALAKSHMI. R	92	87	179	3
51	813817112058	205060	THARIK AHAMADU MOHAMED DHEEN. M	82	87	169	42
52	813817112059	205061	YAZHINI. C	90	85	175	18
53	813817112037	205062	NIRMAL KUMAR. D	84	81	165	47
54	813817112302	205063	SIVA PERUMAL. R	80	85	165	49

55	813817112301	205064	FELIXNIRMALDOSS. M	54	87	141	55
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Performance Analysis

Total Appeared	55	55
Total Passed	55	55
Total Failed	0	0
Absent	0	0
Above 80	52	55
Between 50-59	1	0
Pass%	100	100

Subcode	Title	Faculty Name
GE8073	Fundamentals of Nano Science	Ms.K.Ezhilarasi
GE8076	PROFESSIONAL ETHICS IN ENGINEERING	Dr.S.M.Giri Rajkumar

[entire first semester ug marks](#)

Classwise Internal Assessment Mark Report

**Class:ICE Semester:8 Section:A: Assessment Test -3 Sem
Period:20-21EVEN**

S.no	Regno	Batchno	Name	GE8073	GE8076	Total	Rank
1	813817112001	205001	AARTHI. R	90	90	180	3
2	813817112002	205002	AHAMED ZUHOOR. A G	85	87	172	31
3	813817112003	205003	AKASH. T	77	89	166	52
4	813817112004	205004	AKASHSAMI. R	89	88	177	5
5	813817112005	205005	AKIL SANJEEV. M	83	85	168	48
6	813817112006	205006	ARAWINTHAN. R	88	87	175	11
7	813817112007	205007	ARJUN. M	80	85	165	54
8	813817112008	205008	ARTHIYA. M	84	89	173	27
9	813817112010	205010	BUVANESHWARI. S	92	86	178	4
10	813817112011	205011	CHARUKANTH. M S	81	89	170	39
11	813817112012	205012	DHANALAKSHMI. S	86	82	168	47
12	813817112013	205013	DHARSHINI. V. J	89	86	175	12
13	813817112014	205014	FAHAD. M	82	85	167	49
14	813817112015	205015	GOWRI. K	87	87	174	18
15	813817112016	205016	HARIHARAN. P	80	86	166	51
16	813817112017	205017	HARINI. R.M	81	84	165	55
17	813817112020	205021	KALKI. K	90	84	174	16
18	813817112021	205022	KARTHIK. K	83	87	170	40
19	813817112022	205023	KARTHIKEYAN. M	81	88	169	41
20	813817112023	205024	KARTHIKHEYEN. S	85	88	173	23
21	813817112024	205025	KAVIN. K V	81	89	170	38
22	813817112025	205026	KIRTHIKA. V	92	88	180	1
23	813817112026	205027	KRISHNAKUMAR. R	82	85	167	50
24	813817112027	205028	LAKKSHMI PRIYA. S	91	86	177	6
25	813817112028	205029	LAVANYA. B	90	82	172	34

26	813817112029	205030	LINGTAN. N	82	87	169	43
27	813817112030	205031	MAHALAKSHMI. S P	92	82	174	14
28	813817112032	205033	MANIKANDAN. S	81	85	166	53
29	813817112033	205034	MEENUASHWINI. R	89	84	173	26
30	813817112034	205035	MOHAMED NOORDEEN. J	84	87	171	36
31	813817112036	205037	NAZEER AHAMED. B	87	86	173	25
32	813817112038	205038	NISHA FRANCY. S	87	87	174	20
33	813817112039	205039	PRATHEEP. M	91	86	177	9
34	813817112040	205040	RAGAVI. S	90	84	174	17
35	813817112041	205041	RAHUL. J	81	88	169	44
36	813817112042	205042	RAVIKIRAN. B	88	85	173	28
37	813817112043	205043	RENUGA. S	85	89	174	19
38	813817112044	205045	SABTHAMI. M	86	88	174	21
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48	813817112055	205057	SURRAJ. N S	84	88	172	32
49	813817112056	205058	SURYA. S	92	88	180	2
50	813817112057	205059	SURYALAKSHMI. R	88	89	177	7
51	813817112058	205060	THARIK AHAMADU MOHAMED DHEEN. M	80	89	169	45
52	813817112059	205061	YAZHINI. C	88	85	173	29
53	813817112037	205062	NIRMAL KUMAR. D	84	89	173	24
54	813817112302	205063	SIVA PERUMAL. R	86	86	172	33

55	813817112301	205064	FELIXNIRMALDOSS. M	86	85	171	37
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Performance Analysis

Total Appeared	55	55
Total Passed	55	55
Total Failed	0	0
Absent	0	0
Above 80	54	55
Between 50-59	0	0
Pass%	100	100

Subcode	Title	Faculty Name
GE8073	Fundamentals of Nano Science	Ms.K.Ezhilarasi
GE8076	PROFESSIONAL ETHICS IN ENGINEERING	Dr.S.M.Giri Rajkumar

[entire first semester ug marks](#)

IA TEST 1 TIMETABLE - II YEAR ICE

S.Code	Title	Name of the Staff	Date and Session
MA8353	TRANSFORMS & PARTIAL DIFFERENTIAL EQUATION	Dr. REVATHI <revathi-mat@saranathan.ac.in>	11.09.2020 9.30am to 11.00am
CS8392	OBJECT ORIENTED PROGRAMMING	Mr. MANOJKUMAR <manojkumar-it@saranathan.ac.in>	11.09.2020 3.00pm to 04.30pm
EC8353	ELECTRON DEVICES AND CIRCUITS	Mr. VIGNESHWARAN <vigneshwarans-ice@saranathan.ac.in>	12.09.2020 9.30am to 11.00am
EI8351	ELECTRICAL MEASUREMENTS	Dr. P. ARAVIND <aravind-ice@saranathan.ac.in>.	12.09.2020 3.00pm to 04.30pm
EI8352	TRANSDUCER ENGINEERING	Mrs. EZHILARASI <ezhilarasi-ice@saranathan.ac.in>.	14.09.2020 9.30am to 11.00am
EE8351	DIGITAL LOGIC CIRCUITS	Dr. SHANMUGAVALLI <shanmugavalli-ice@saranathan.ac.in>.	14.09.2020 3.00pm to 04.30pm


HOD/ICE

IA TEST 2 TIMETABLE - II YEAR ICE

S.Code	Title	Name of the Staff	Date and Session
MA8353	TRANSFORMS & PARTIAL DIFFERENTIAL EQUATION	Dr. REVATHI <revathi-mat@saranathan.ac.in>	5.10.2020 9.30am to 11.00am
CS8392	OBJECT ORIENTED PROGRAMMING	Mr. MANOJKUMAR <manojkumar-it@saranathan.ac.in>	5.10.2020 3.00pm to 04.30pm
EC8353	ELECTRON DEVICES AND CIRCUITS	Mr. VIGNESHWARAN <vigneshwarans-ice@saranathan.ac.in>	6.10.2020 9.30am to 11.00am
EI8351	ELECTRICAL MEASUREMENTS	Dr. P. ARAVIND <aravind-ice@saranathan.ac.in>	6.10.2020 3.00pm to 04.30pm
EI8352	TRANSDUCER ENGINEERING	Mrs. EZHILARASI <ezhilarasi-ice@saranathan.ac.in>	7.10.2020 9.30am to 11.00am
EE8351	DIGITAL LOGIC CIRCUITS	Dr. SHANMUGAVALLI <shanmugavalli-ice@saranathan.ac.in>	7.10.2020 3.00pm to 04.30pm


HOD/ICE

IA TEST 3 TIMETABLE - II YEAR ICE

S.Code	Title	Name of the Staff	Date and Session
MA8353	TRANSFORMS & PARTIAL DIFFERENTIAL EQUATION	Dr. REVATHI <revathi-mat@saranathan.ac.in>	02.11.2020 9.30am to 11.00am
CS8392	OBJECT ORIENTED PROGRAMMING	Mr. MANOJKUMAR <manojkumar-it@saranathan.ac.in>	02.11.2020 3.00pm to 04.30pm
EC8353	ELECTRON DEVICES AND CIRCUITS	Mr. VIGNESHWARAN <vigneshwarans-ice@saranathan.ac.in>	03.11.2020 9.30am to 11.00am
EI8351	ELECTRICAL MEASUREMENTS	Dr. P. ARAVIND <aravind-ice@saranathan.ac.in>	03.11.2020 3.00pm to 04.30pm
EI8352	TRANSDUCER ENGINEERING	Mrs. EZHILARASI <ezhilarasi-ice@saranathan.ac.in>	04.11.2020 9.30am to 11.00am
EE8351	DIGITAL LOGIC CIRCUITS	Dr. SHANMUGAVALLI <shanmugavalli-ice@saranathan.ac.in>	04.11.2020 3.00pm to 04.30pm


 HOD/ICE

IA TEST 1 TIMETABLE - III YEAR ICE

S.Code	Title	Name and Email of the Staff	Date and Session
EI8551	Analytical Instruments	Mr.R.Seetharaman <seetharaman-ice@saranathan.ac.in>	11.09.2020 9.30am to 11.00am
EI8552	Industrial Instrumentation -II	Mr.P.Thirumurugan <thirumurugan-ice@saranathan.ac.in>	11.09.2020 3.00pm to 04.30pm
EE8551	Microprocessors and Microcontrollers	Mr.K.Malaisamy <malaisamy-ece@saranathan.ac.in>	12.09.2020 9.30am to 11.00am
EI8093	Unit Operation and Control	Dr. A Mercy Vasam <mercyvasan-mech@saranathan.ac.in>	12.09.2020 3.00pm to 04.30pm
OCE551	Air Pollution and Control Engineering	Mr.T.Tamilarasan <tamilarasant-eee@saranathan.ac.in>	14.09.2020 9.30am to 11.00am
EI8553	Process Control	Dr. S. M. Girirajkumar <girirajkumar-ice@saranathan.ac.in>	14.09.2020 3.00pm to 04.30pm



IA TEST 2 TIMETABLE - III YEAR ICE

S.Code	Title	Name and Email of the Staff	Date and Session
EI8551	Analytical Instruments	Mr.R.Seetharaman <seetharaman-ice@saranathan.ac.in>	05.10.2020 9.30am to 11.00am
EI8552	Industrial Instrumentation -II	Mr.P.Thirumurugan <thirumurugan-ice@saranathan.ac.in>	05.10.2020 3.00pm to 04.30pm
EE8551	Microprocessors and Microcontrollers	Mr.K.Malaisamy <malaisamy-ece@saranathan.ac.in>	06.10.2020 9.30am to 11.00am
EI8093	Unit Operation and Control	Dr. A Mercy Vasan <mercyvasan-mech@saranathan.ac.in>	06.10.2020 3.00pm to 04.30pm
OCE551	Air Pollution and Control Engineering	Mr.T.Tamilarasan <tamilarasant-eee@saranathan.ac.in>	07.10.2020 9.30am to 11.00am
EI8553	Process Control	Dr. S. M. Girirajkumar <girirajkumar-ice@saranathan.ac.in>	07.10.2020 3.00pm to 04.30pm

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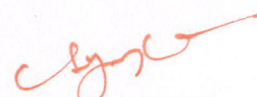
IA TEST 3 TIMETABLE - III YEAR ICE

S.Code	Title	Name and Email of the Staff	Date and Session
EI8551	Analytical Instruments	Mr.R.Seetharaman <seetharaman-ice@saranathan.ac.in>	02.11.2020 9.30am to 11.00am
EI8552	Industrial Instrumentation -II	Mr.P.Thirumurugan <thirumurugan-ice@saranathan.ac.in>	02.11.2020 3.00pm to 04.30pm
EE8551	Microprocessors and Microcontrollers	Mr.K.Malaisamy <malaisamy-ece@saranathan.ac.in>	03.11.2020 9.30am to 11.00am
EI8093	Unit Operation and Control	Dr. A Mercy Vasan <mercyvasan-mech@saranathan.ac.in>	03.11.2020 3.00pm to 04.30pm
OCE551	Air Pollution and Control Engineering	Mr.T.Tamilarasan <tamilarasant-eee@saranathan.ac.in>	04.11.2020 9.30am to 11.00am
EI8553	Process Control	Dr. S. M. Girirajkumar <girirajkumar-ice@saranathan.ac.in>	04.11.2020 3.00pm to 04.30pm

Signature

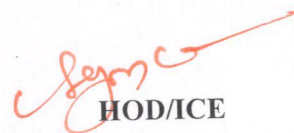
IA TEST 1 TIMETABLE - IV YEAR ICE

S.Code	Title	Name and Email of the Staff	Date and Session
OCS752	Introduction to C Programming	Ms.J.Sathiaparkavi <parkavi-cse@saranathan.ac.in>	11.09.2020 9.30am to 11.00am
EC8093	Digital Image Processing	Mr.S.Hariprasath <hariprasath-ece@saranathan.ac.in >	11.09.2020 3.00pm to 04.30pm
EI8091	Instrumentation in Petrochemical Industries	Ms.K.Ezhilarasi <ezhilarasi-ice@saranathan.ac.in>	12.09.2020 9.30am to 11.00am
EI8692	Electronic Instrumentation	Mr.P.Thirumurugan <thirumurugan-ice@saranathan.ac.in>	12.09.2020 3.00pm to 04.30pm
EI8075	Fibre Optics and Laser Instrumentation	Dr.P.Aravind <aravind-ice@saranathan.ac.in>	13.09.2020 9.30am to 11.00am
EI8751	Industrial Data Networks	Dr.M.Shanmugavalli <shanmugavalli-ice@saranathan.ac.in>	13.11.2020 3.00pm to 04.30pm


 HOD/ICE

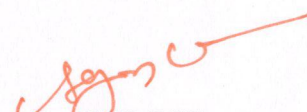
IA TEST 2 TIMETABLE - IV YEAR ICE

S.Code	Title	Name and Email of the Staff	Date and Session
OCS752	Introduction to C Programming	Ms.J.Sathiaparkavi <parkavi-cse@saranathan.ac.in>	05.10.2020 9.30am to 11.00am
EC8093	Digital Image Processing	Mr.S.Hariprasath <hariprasath-ece@saranathan.ac.in >	05.10.2020 3.00pm to 04.30pm
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EI8075	Fibre Optics and Laser Instrumentation	Dr.P.Aravind <aravind-ice@saranathan.ac.in>	07.10.2020 9.30am to 11.00am
EI8751	Industrial Data Networks	Dr.M.Shanmugavalli <shanmugavalli-ice@saranathan.ac.in>	07.10.2020 3.00pm to 04.30pm


HOD/ICE

IA TEST 3 TIMETABLE - IV YEAR ICE

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 HOD/ICE

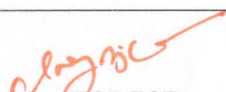
SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF INSTRUMENTATION AND CONTROL ENGINEERING
INTERNAL ASSESSMENT TEST - 1 TIME TABLE

TIME : 10.00AM TO 11.00AM

2020-2021 EVEN SEMESTER

DATE	II YEAR / IV SEM	III YEAR / VI SEM
29-Mar-21	MA8491 Numerical Methods Ms.R.Padma/Maths	IC8651 Advanced Control System Mr. R. Seetharaman
30-Mar-21	EE8451 Linear integrated Circuit and Applications Mr. P. Thirumurugan	CS8391 Data Structures Ms.A.Sheelavathy/IT
31-Mar-21	EC8395 Communication Engineering Mr.K.Malaisamy/ECE	EI8092 Thermal Power Plant Instrumentation Mr. P. Thirumurugan
1-Apr-21	EI8452 Industrial Instrumentation - I Dr. P. Aravind	EE8071 Applied soft computing Mr. T. Tamilarasan
2-Apr-21	EI8451 Electrical Machines Mr.P.Ramprakash/EEE	EE8072 Mems and Nano science Ms. K. Ezhilarasi
3-Apr-21	IC8451 Control Systems Mr. S. Vigneswaran	EI8651 Logic and Distributed Control System Dr. P. Aravind

DATE	II YEAR / IV SEM
17-Mar-21	GE8073 Fundamentals of Nanoscience Mrs. K. Ezhilarasi
18-Mar-21	GE8076 Professional Ethics in Engineering Dr. S.M Girirajkumar


HOD/ICE

SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF INSTRUMENTATION AND CONTROL ENGINEERING
INTERNAL ASSESSMENT TEST - 2 TIME TABLE

TIME : 10.00AM TO 11.00AM

2020-2021 EVEN SEMESTER

DATE	II YEAR / IV SEM	III YEAR / VI SEM
24-Apr-21	EE8451 Linear integrated Circuit and Applications Mr. P. Thirumurugan	EE8072 Mems and Nano science Ms. K. Ezhilarasi
26-Apr-21	EC8395 Communication Engineering Mr.K.Malaisamy/ECE	IC8651 Advanced Control System Mr. R. Seetharaman
27-Apr-21	MA8491 Numerical Methods Ms.R.Padma/Maths	CS8391 Data Structures Ms.A.Sheelavathy/IT
28-Apr-21	EI8452 Industrial Instrumentation - I Dr. P. Aravind	EI8092 Thermal Power Plant Instrumentation Mr. P. Thirumurugan
29-Apr-21	EI8451 Electrical Machines Mr.P.Ramprakash/EEE	EE8071 Applied soft computing Mr. T. Tamilarasan
30-Apr-21	IC8451 Control Systems Mr. S. Vigneswaran	EI8651 Logic and Distributed Control System Dr. P. Aravind

DATE	II YEAR / IV SEM
5-Apr-21	GE8073 Fundamentals of Nanoscience Mrs. K. Ezhilarasi
7-Apr-21	GE8076 Professional Ethics in Engineering Dr. S.M Girirajkumar


HOD/ICE

SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF INSTRUMENTATION AND CONTROL ENGINEERING
INTERNAL ASSESSMENT TEST - 1 TIME TABLE

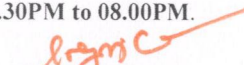
TIME : 10.00AM TO 11.00AM

2020-2021 EVEN SEMESTER

DATE	II YEAR / IV SEM	III YEAR / VI SEM
17-May-21	MA8491 Numerical Methods Ms.R.Padma/Maths	EE8072 Mems and Nano science Ms. K. Ezhilarasi
18-May-21	EC8395 Communication Engineering Mr.K.Malaisamy/ECE	EI8651 Logic and Distributed Control System Dr. P. Aravind
19-May-21	EI8451 Electrical Machines Mr.P.Ramprakash/EEE	EI8092 Thermal Power Plant Instrumentation Mr. P. Thirumurugan
20-May-21	EI8452 Industrial Instrumentation - I Dr. P. Aravind	CS8391 Data Structures Ms.A.Sheelavathy/IT
21-May-21	IC8451 Control Systems Mr. S. Vigneswaran	EE8071 Applied soft computing Mr. T. Tamilarasan
22-May-21	EE8451 Linear integrated Circuit and Applications Mr. P. Thirumurugan	IC8651 Advanced Control System Mr. R. Seetharaman

DATE	II YEAR / IV SEM
15-Apr-21	GE8073 Fundamentals of Nanoscience Mrs. K. Ezhilarasi
16-Apr-21	GE8076 Professional Ethics in Engineering Dr. S.M Girirajkumar

TIME : 06.30PM to 08.00PM.


HOD/ICE

SARANATHAN COLLEGE OF ENGINEERING, Panjapur, Trichy-12 INTERNAL ASSESSMENT TEST - 1 [29/12/2020]

CY 8151-ENGINEERING CHEMISTRY
TOTAL MARKS=50
TIME: 1 HOUR [10.00 am to 11.00 am]

Email address *

20e005seml@saranathan.ac.in

Name of the student (IN CAPITAL LETTERS, INITIALS LAST) *

ARANERI K.V.

Class *

E

Batch Number (e.g., 20A001) *

20E005

PART-A [30 x 1 = 30]

Choose the best answer

4. Which hardness can be removed by boiling? *

1 point

- ☐ non-carbonate hardness
- ☐ non-alkaline hardness
- ☐ hardness due to chloride
- ☒ hardness due to bicarbonate

5. ----- amount of CaCO_3 is needed to make 1 ppm of 1 Litre solution *

1 point

- ☐ 0.5 gram
- ☒ 10 gram
- ☐ 50 gram
- ☐ 1 gram

6. Which statement is incorrect about hard water? *

1 point

- ☒ produces lathers with soap solution
- ☐ red colour with EBT
- ☐ due to Ca and Mg salts
- ☐ consumes more soap

1. A sample of water contains 136 mgs of CaSO_4 . Hardness in terms of CaCO_3 equivalent is *

1 point

- ☐ 200 mgs/lit
- ☒ 150 mgs/lit
- ☐ 100 mgs/lit
- ☐ 60mgs/litre

2.The substance that does not cause permanent hardness *

1 point

- ☒ bicarbonates
- ☐ sulphates
- ☐ chlorides
- ☐ none of the above

3. The scale forming substance is *

1 point

- ☐ MgCl_2
- ☐ CaCl_2
- ☒ CaSO_4
- ☐ MgSO_4

7. Cracks in scales in the boiler may lead to *

1 point

- ☐ Boiler corrosion
- ☐ Boiler explosion
- ☒ Intercrystalline cracking
- ☐ Priming

8. Which one of the following is not a sludge forming substance? *

1 point

- ☐ MgCl_2
- ☐ MgSO_4
- ☐ CaCl_2
- ☒ CaSO_4

9. CaCO_3 scale can be removed by adding *

1 point

- ☐ dil.HCl
- ☐ Mg(OH)_2
- ☐ Al(OH)_3
- ☒ EDTA

10. What is permutit? *

1 point

- ☐ Natural zeolite
- ☒ Synthetic zeolite
- ☐ Cation exchange resin
- ☐ Anion exchange resin

11. Sludges can be prevented by using----- *

1 point

- ☒ softened water
- ☐ Acids
- ☐ EDTA
- ☐ None of the above

12. The exhausted anion exchange column is regenerated by passing a solution of *

1 point

- ☐ dil. NaOH
- ☒ dil. HCl
- ☐ dil. H₂SO₄
- ☐ dil. CH₃COONa

13. Which among the following is the best conditioning agent? *

1 point

- ☐ Kerosene
- ☐ Sodium hexa meta phosphate
- ☐ Sodium dihydrogen phosphate
- ☒ All the above

14. If the scales are brittle it can be removed by ----- *

1 point

- ☒ wirebrush
- ☐ blow down method
- ☐ scrappers
- ☐ thermalshock

15. Which complex is soluble in water? *

1 point

- ☐ [Ca₂(PO₃)₆]²⁺
- ☐ [Ca₂(PO₄)₆]²⁺
- ☒ [Ca₃(PO₃)₆]⁺
- ☐ [Ca₃(PO₄)₆]³⁺

16. Which of the following boiler compound is used for alkaline water? *

1 point

- ☐ Na₃PO₄
- ☐ Na₂HPO₄
- ☐ NaH₂PO₄
- ☒ Na₂CO₃

19. Brackish water contains _____ ppm of dissolved salts *

1 point

- ☐ 100 - 1000
- ☐ 1000 - 25000
- ☒ 1000 - 35000
- ☐ 1000 - 45000

17. The general formula of zeolite is ----- *

1 point

- ☐ Na₂₀.Fe₂O₃.xSiO₂.yH₂O (x=2-6; y=2-10)
- ☒ Na₂₀.Al₂O₃.xSiO₂.yH₂O (x=2-10; y=2-6)
- ☐ K₂₀.Al₂O₃.xSiO₂.yH₂O (x=2-10; y=2-6)
- ☐ K₂₀.Fe₂O₃.xSiO₂.yH₂O (x=2-6; y=2-10)

20. Water containing dissolved salts with peculiar salty taste is called _____ *

1 point

- ☐ Fresh water
- ☒ sea water
- ☐ Brackish water
- ☐ All the above

18. The process of removing a portion of concentrated water by fresh water from boiler is called as ----- *

1 point

- ☐ Flow up operation
- ☐ Flow down operation
- ☐ Blow-up operation
- ☒ Blow-down operation

21. Na₂HPO₄ is used for _____ water *

1 point

- ☐ Too alkaline
- ☐ Too acidic
- ☒ Slightly acidic
- ☐ None of the above

22. Urea formaldehyde resin can be used as-----in water treatment process 1 point *

- ☐ Cation Exchanger
- ☒ Anion Exchanger
- ☐ Semipermeable membrane
- ☐ Boiler compound

23. Semi permeable membrane used in reverse osmosis * 1 point

- ☐ Cellulose oxalate
- ☐ Cellulose butyrate
- ☒ Both
- ☐ None of these

24. An alloy is a * 1 point

- ☐ Pure metal
- ☐ Mixture of metals in any proportion
- ☒ Mixture of metals in fixed proportion
- ☐ Mixture of two non metals

25. Bronze is an alloy of * 1 point

- ☐ Copper and Nickel
- ☐ Copper and iron.
- ☒ Copper and Tin.
- ☐ Copper and Aluminium.

26. An alloy can be one of the following type * 1 point

- ☐ Homogenous
- ☐ Heterogeneous
- ☐ Intermetallic
- ☒ All of the above

27. By adding chromium to steel which of the following property is enhanced? * 1 point

- ☒ Resistance to corrosion
- ☐ Electrical characteristics
- ☐ Magnetic property
- ☐ Ductility

28. Stainless steel is so called because of its _____. * 1 point

- ☐ High strength
- ☒ High corrosion resistance
- ☐ High ductility
- ☐ Brittleness

29. Not an important heat treatment process parameter * 1 point

- ☐ Heating rate
- ☐ Temperature
- ☒ Cooling rate
- ☐ Atmosphere

30. 18/8 stainless steel contains * 1 point

- ☒ 18% Cr, 8% Ni
- ☐ 18% Fe, 8% Cr
- ☐ 18% Mn, 8% Ni
- ☐ 18% Ni, 8% Cr

PART-B [10 x 2 = 20]

Descriptive type (Answer the question not more than 50 words)

1. 100 mL of water sample requires 20 mL for EDTA solution for titration.1 mL of EDTA requires 1.1mg of CaCO_3 . Calculate Hardness * 2 points

12 ml

2. Differentiate between sludges and scales in boilers. * 2 points

Sulludge is a loss slimy and non adherent precipitate. main sludge forming mgco_3 . scale is hard adherent coating. the main scale forming substance $\text{ca}(\text{HCO}_3)_2$.

3. List out the requirements of boiler feed water. * 2 points

The boiler should be free from turbidity oil dissolved gases alkali and hardness causing substance the are the requirements of boiler feeding

4. Write the principle involved in Zeolite process with an example. * 2 points

When a hard water is passed bed of sodium zeolite kept in acylinder it exchange its sodium ion ca^{2+} and mg^{2+} ion present int hard water to form calcium and magnesium zeolite $\text{mgcl}_2 + \text{na}_2\text{ze} \rightarrow \text{caze} + 2\text{nacl}$

5. What are boiler compounds? * 2 points

Boiler compound are scale and sludges ex scale mgcl_2 sludge caso_4

6. Calgon conditioning is better than phosphate conditioning. Why? * 2 points

It does not causes any damage in boiler but phosphate condition cause scale and sludge so calgon condition is better than phosphate condition .

7. Mention the advantages of reverse osmosis. *

2 points

1.The life time of the number is high and it can be replaced within few minutes 2. It removes ionic as well as non ionic colloidal impurity.

8. Write any four significance of alloying. *

2 points

Four significant of alloying 1 high melting point 2 high densities 3 good thermal 4 ductility.

9. What is the composition of Nichrome alloy? *

2 points

Composition of nichrome alloy nickel60,chromimum12,iron26,manganese2.

10. What is carburizing? Give its Significance. *

2 points

The mid steel articles is taken in a cast iron box containig small pecies of charcoal it is then heat to about 900to950and allow to keep it as such for sufficient time steel about 0.8 to1.2 #to produce hard water surface on steel artical.

This form was created inside of SARANATHAN COLLEGE OF ENGINEERING.

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SARANATHAN COLLEGE OF ENGINEERING, Panjapur, Trichy-12 INTERNAL ASSESSMENT TEST - 1 [29/12/2020]

CY 8151-ENGINEERING CHEMISTRY
TOTAL MARKS=50
TIME: 1 HOUR [10.00 am to 11.00 am]
* Required

1. Email address *

2. Name of the student (IN CAPITAL LETTERS, INITIALS LAST) *

3. Class *

Mark only one oval.

- ☐ A
☐ B
☐ C
☐ D
☐ E
☐ F
☐ G
☐ H

8. 4. Which hardness can be removed by boiling? *

1 point

Mark only one oval.

- ☐ non-carbonate hardness
☐ non-alkaline hardness
☐ hardness due to chloride
☐ hardness due to bicarbonate

9. 5. ----- amount of CaCO_3 is needed to make 1 ppm of 1 Litre solution? *

1 point

Mark only one oval.

- ☐ 0.5 gram
☐ 10 gram
☐ 50 gram
☐ 1 gram

10. 6. Which statement is incorrect about hard water? *

1 point

Mark only one oval.

- ☐ produces lathers with soap solution
☐ red colour with EBT
☐ due to Ca and Mg salts
☐ consumes more soap

11. 7. Cracks in scales in the boiler may lead to *

1 point

Mark only one oval.

- ☐ Boiler corrosion
☐ Boiler explosion
☐ Intercrystalline cracking
☐ Priming

4. Batch Number (e.g., 20A001) *

PART-A [30 x 1 = 30]

Choose the best answer

5. 1. A sample of water contains 136 mgs of CaSO_4 . Hardness in terms of CaCO_3 equivalent is *

1 point

Mark only one oval.

- ☐ 200 mgs/lit
☐ 150 mgs/lit
☐ 100 mgs/lit
☐ 60mgs/litre

6. 2.The substance that does not cause permanent hardness *

1 point

Mark only one oval.

- ☐ bicarbonates
☐ sulphates
☐ chlorides
☐ none of the above

7. 3. The scale forming substance is *

1 point

Mark only one oval.

- ☐ MgCl_2
☐ CaCl_2
☐ CaSO_4
☐ MgSO_4

12. 8. Which one of the following is not a sludge forming substance? *

1 point

Mark only one oval.

- ☐ MgCl_2
☐ MgSO_4
☐ CaCl_2
☐ CaSO_4

13. 9. CaCO_3 scale can be removed by adding *

1 point

Mark only one oval.

- ☐ dil.HCl
☐ $\text{Mg}(\text{OH})_2$
☐ $\text{Al}(\text{OH})_3$
☐ EDTA

14. 10. What is permutit? *

1 point

Mark only one oval.

- ☐ Natural zeolite
☐ Synthetic zeolite
☐ Cation exchange resin
☐ Anion exchange resin

15. 11. Sludges can be prevented by using----- *

1 point

Mark only one oval.

- ☐ softened water
☐ Acids
☐ EDTA
☐ None of the above

16. 12. The exhausted anion exchange column is regenerated by passing a solution of * 1 point
- Mark only one oval.
- ☐ dil. NaOH
- ☐ dil. HCl
- ☐ dil. H₂SO₄
- ☐ dil. CH₃COONa
17. 13. Which among the following is the best conditioning agent? * 1 point
- Mark only one oval.
- ☐ Kerosene
- ☐ Sodium hexa meta phosphate
- ☐ Sodium dihydrogen phosphate
- ☐ All the above
18. 14. If the scales are brittle it can be removed by ----- * 1 point
- Mark only one oval.
- ☐ wirebrush
- ☐ blow down method
- ☐ scrappers
- ☐ thermalshock
19. 15. Which complex is soluble in water? * 1 point
- Mark only one oval.
- ☐ [Ca₂(PO₃)₆]²⁺
- ☐ [Ca₂(PO₄)₆]²⁺
- ☐ [Ca₃(PO₃)₆]⁺
- ☐ [Ca₃(PO₄)₆]³⁺
20. 16. Which of the following boiler compound is used for alkaline water? * 1 point
- Mark only one oval.
- ☐ Na₃PO₄
- ☐ Na₂HPO₄
- ☐ NaH₂PO₄
- ☐ Na₂CO₃
21. 17. The general formula of zeolite is ----- * 1 point
- Mark only one oval.
- ☐ Na₂O.Fe₂O₃.xSiO₂.yH₂O (x=2-6; y=2-10)
- ☐ Na₂O.Al₂O₃.xSiO₂.yH₂O (x=2-10; y=2-6)
- ☐ K₂O.Al₂O₃.xSiO₂.yH₂O (x=2-10; y=2-6)
- ☐ K₂O.Fe₂O₃.xSiO₂.yH₂O (x=2-6; y=2-10)
22. 18. The process of removing a portion of concentrated water by fresh water from boiler is called as ----- * 1 point
- Mark only one oval.
- ☐ Flow up operation
- ☐ Flow down operation
- ☐ Blow-up operation
- ☐ Blow-down operation
23. 19. Brackish water contains _____ ppm of dissolved salts * 1 point
- Mark only one oval.
- ☐ 100 - 1000
- ☐ 1000 - 25000
- ☐ 1000 - 35000
- ☐ 1000 - 45000
24. 20. Water containing dissolved salts with peculiar salty taste is called _____ * 1 point
- Mark only one oval.
- ☐ Fresh water
- ☐ sea water
- ☐ Brackish water
- ☐ All the above
25. 21. Na₂HPO₄ is used for _____ water * 1 point
- Mark only one oval.
- ☐ Too alkaline
- ☐ Too acidic
- ☐ Slightly acidic
- ☐ None of the above
26. 22. Urea formaldehyde resin can be used as-----in water treatment process * 1 point
- Mark only one oval.
- ☐ Cation Exchanger
- ☐ Anion Exchanger
- ☐ Semipermeable membrane
- ☐ Boiler compound
27. 23. Semi permeable membrane used in reverse osmosis * 1 point
- Mark only one oval.
- ☐ Cellulose oxalate
- ☐ Cellulose butyrate
- ☐ Both
- ☐ None of these
28. 24. An alloy is a * 1 point
- Mark only one oval.
- ☐ Pure metal
- ☐ Mixture of metals in any proportion
- ☐ Mixture of metals in fixed proportion
- ☐ Mixture of two non metals
29. 25. Bronze is an alloy of * 1 point
- Mark only one oval.
- ☐ Copper and Nickel
- ☐ Copper and iron.
- ☐ Copper and Tin.
- ☐ Copper and Aluminium.
30. 26. An alloy can be one of the following type * 1 point
- Mark only one oval.
- ☐ Homogenous
- ☐ Heterogeneous
- ☐ Intermetallic
- ☐ All of the above

31. 27. By adding chromium to steel which of the following property is enhanced? *

1 point

Mark only one oval.

- ☐ Resistance to corrosion
- ☐ Electrical characteristics
- ☐ Magnetic property
- ☐ Ductility

32. 28. Stainless steel is so called because of its _____. *

1 point

Mark only one oval.

- ☐ High strength
- ☐ High corrosion resistance
- ☐ High ductility
- ☐ Brittleness

33. 29. Not an important heat treatment process parameter *

1 point

Mark only one oval.

- ☐ Heating rate
- ☐ Temperature
- ☐ Cooling rate
- ☐ Atmosphere

34. 30. 18/8 stainless steel contains *

1 point

Mark only one oval.

- ☐ 18% Cr, 8% Ni
- ☐ 18% Fe, 8% Cr
- ☐ 18% Mn, 8% Ni
- ☐ 18% Ni, 8% Cr

39. 5. What are boiler compounds? *

2 points

40. 6. Calgon conditioning is better than phosphate conditioning. Why? *

2 points

41. 7. Mention the advantages of reverse osmosis. *

2 points

42. 8. Write any four significance of alloying. *

2 points

PART-B [10 x 2 = 20]

Descriptive type (Answer the question not more than 50 words)

35. 1. 100 mL of water sample requires 20 mL of EDTA solution for titration.1 mL of EDTA requires 1.1mgs of CaCO₃. Calculate Hardness *

2 points

36. 2. Differentiate between sludges and scales in boilers. *

2 points

37. 3. List out the requirements of boiler feed water. *

2 points

38. 4. Write the principle involved in Zeolite process with an example. *

2 points

43. 9. What is the composition of Nichrome alloy? *

2 points

44. 10. What is carburizing? Give its Significance. *

2 points

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SARANATHAN COLLEGE OF
ENGINEERING, Panjapur, Trichy-12
INTERNAL ASSESSMENT TEST - 3
[03/03/2021]

CY 8151-ENGINEERING CHEMISTRY
TOTAL MARKS=50
TIME: 1 HOUR [9.30 am to 10.30 am]

* Required

1. Name of the student (IN CAPITAL LETTERS, INITIALS LAST) *

2. Class *

Mark only one oval.

- ☐ A
☐ B
☐ C
☐ D

3. Batch Number (e.g., 20AD01) *

PART-A [30 x 1 = 30]

Choose the best answer

4. The energy liberated when 1gm mole of the substance is adsorbed on the solid surface is * 1 point

Mark only one oval.

- ☐ Calorie
☐ Kilocalorie
☐ Heat of adsorption
☐ Activation energy

5. Which adsorbent adsorbs non-electrolytes readily than electrolytes from a solution? * 1 point

Mark only one oval.

- ☐ Charcoal
☐ Alumina
☐ Silica
☐ Colloidal ferric hydroxide

6. Adsorption of benzene on silica gel at 50 degree centigrade explains * 1 point

Mark only one oval.

- ☐ Monomolecular layer adsorption
☐ Multilayer adsorption
☐ Capillary condensation of gas
☐ None of the above

1. Which of the following is not influencing adsorption of gases on solids? * 1 point

Mark only one oval.

- ☐ Enthalpy of adsorption
☐ Irreversible character of adsorption
☐ Effect of pressure of gas
☐ Effect of temperature of gas

2. In physical adsorption, adsorption ----- with increase of temperature * 1 point

Mark only one oval.

- ☐ increases
☐ decreases
☐ decreases and then increases
☐ increases and then decreases

3. On what factor adsorption increases by heating the solid adsorbent in superheated steam? * 1 point

Mark only one oval.

- ☐ Increasing cracks, peaks and corners
☐ Creating rough surface
☐ Increasing effective surface area
☐ Addition of promoters

7. The relationship between amount of gas adsorbed to the pressure of the gas at constant temperature is * 1 point

Mark only one oval.

- ☐ Freundlich adsorption isotherm
☐ Langmuir adsorption isotherm
☐ BET adsorption isotherm
☐ Langmuir-Hinshelwood adsorption isotherm

8. Which of the following is not limitation of Freundlich adsorption Isotherm? * 1 point

Mark only one oval.

- ☐ Purely empirical and no theoretical basis
☐ Invalid at high pressure
☐ Temperature dependent
☐ It fails, when the concentration of adsorbent is very low

9. Specific action of catalyst depends on * 1 point

Mark only one oval.

- ☐ Nature of adsorbent
☐ Nature of adsorbate
☐ Both (a) & (b)
☐ None of the above

13. 10. Alcohol is added to chloroform to prevent its oxidation to phosgene. what is the role of alcohol in this reaction? * 1 point
- Mark only one oval.
- ☐ Catalytic poison
- ☐ Catalytic promoter
- ☐ Positive catalyst
- ☐ Negative catalyst
14. 11. In the uncatalysed reaction, the energy of activation is higher than that of catalysed reaction. * 1 point
- Mark only one oval.
- ☐ True
- ☐ False
15. 12. Which of the following represents homogeneous catalysis? * 1 point
- Mark only one oval.
- ☐ Manufacture of vanaspathi in presence of Nickel
- ☐ Manufacture of ammonia in presence of Iron catalyst
- ☐ Ester hydrolysis in presence of acid
- ☐ None of the above
16. 13. In certain reactions, the rate increases with time. This phenomenon is known as * 1 point
- Mark only one oval.
- ☐ Induced catalysis
- ☐ Auto catalysis
- ☐ Catalytic inhibition
- ☐ Catalytic promotion
21. 18. Phosphorous and sulphur content in the coal tend to make a metal brittle. * 1 point
- Mark only one oval.
- ☐ True
- ☐ False
22. 19. Good quality of coal should have.....% of oxygen. * 1 point
- Mark only one oval.
- ☐ low
- ☐ high
- ☐ 100
- ☐ 0
23. 20. In ultimate analysis, %carbon is given by * 1 point
- Mark only one oval.
- ☐ $(\text{Increase in weight of KOH tube} \times 12 \times 100 / \text{weight of coal sample taken} \times 44)$
- ☐ $(\text{Increase in weight of KOH tube} \times 2 \times 100 / \text{weight of coal sample taken} \times 18)$
- ☐ $(\text{Increase in weight of CaCl}_2 \text{ tube} \times 12 \times 100 / \text{weight of coal sample taken} \times 44)$
- ☐ $(\text{Increase in weight of CaCl}_2 \text{ tube} \times 2 \times 100 / \text{weight of coal sample taken} \times 18)$
24. 21. What type of gas is LPG? * 1 point
- Mark only one oval.
- ☐ Gasoline
- ☐ Kerosene
- ☐ Uncondensed
- ☐ Heavy oil
17. 14. In titration between oxalic acid and acidified KMnO_4 , the manganous salt formed catalyses the reaction. The manganous salt is * 1 point
- Mark only one oval.
- ☐ a promotor
- ☐ a positive catalyst
- ☐ an auto catalyst
- ☐ none of these
18. 15. A catalytic poison renders the catalyst ineffective because * 1 point
- Mark only one oval.
- ☐ It adsorbs the molecules of the reactants
- ☐ It is preferentially adsorbed on the catalyst
- ☐ It combines chemically with the catalyst
- ☐ It combines with one of the reactants
19. 16. Which type of fuel is lignite? * 1 point
- Mark only one oval.
- ☐ Secondary fuel
- ☐ Primary fuel
- ☐ Liquid fuel
- ☐ Gaseous fuel
20. 17. Which of the fuel does have highest specific energy? * 1 point
- Mark only one oval.
- ☐ Diesel
- ☐ Coal
- ☐ Kerosene
- ☐ Nitromethane
25. 22. Removal of gaseous impurities like methane, ethane, propane and butane from gasoline is called as * 1 point
- Mark only one oval.
- ☐ Stabilization of gasoline
- ☐ Sweetening of gasoline
- ☐ Doping of gasoline
- ☐ Blending of gasoline
26. 23. Which type of LPG is mostly produced in Indian refineries? * 1 point
- Mark only one oval.
- ☐ Grade A
- ☐ Grade B
- ☐ Grade C
- ☐ Grade D
27. 24. Main disadvantage of the power alcohol is * 1 point
- Mark only one oval.
- ☐ starting troubles
- ☐ more cost
- ☐ increases foreign currency
- ☐ increases octane number of petrol

28. 25. On which property of fuel it's calorific value is based? *

1 point

Mark only one oval.

- ☐ Specific heat
- ☐ Efficiency
- ☐ Cost
- ☐ Ignition temperature

29. 26. What is not the unit of calorific value? *

1 point

Mark only one oval.

- ☐ Gram calorie (g cal)
- ☐ British thermal unit/Btu
- ☐ Centigrade heat unit
- ☐ None of the above

30. 27. What is the value of latent heat of condensation of water vapour? *

1 point

Mark only one oval.

- ☐ 587 Kcal/gm
- ☐ 587 cal/gm
- ☐ 578 Kcal/gm
- ☐ 578 cal/gm

31. 28. What happens to the hydrogen present in fuel for calculating gross calorific value? *

1 point

Mark only one oval.

- ☐ It combines with carbon to form methane
- ☐ It combines with chlorine to form hydrochloric acid
- ☐ It combines with oxygen to form hydrogen per oxide
- ☐ It gets converted into steam

35. 2. According to langmuir adsorption isotherm what is the equation for amount of adsorption per unit gram of adsorbent at low pressure? *

2 points

36. 3. Explain the disadvantages of downflow fixed-bed carbon contactors. *

2 points

37. 4. Explain the specificity of enzyme catalysts with suitable example. *

2 points

38. 5. Give any four applications of catalysis. *

2 points

32. 29. How does the latent heat of condensation is included in gross calorific value? *

1 point

Mark only one oval.

- ☐ By the steam produced by the combustion of hydrogen
- ☐ By the combustion of products other than carbon and hydrogen
- ☐ By the combustion of carbon
- ☐ By the total heat produced in the system

33. 30. What's the basic formulae for calculating gross calorific value? *

1 point

Mark only one oval.

- ☐ $[8080 \%C + 3450(\%H - \%O/8) + 2240 \%S]/100 \text{ cal/gm}$
- ☐ $[8080 \%C + 34500(\%H - \%O/24) + 2240 \%S]/100 \text{ cal/gm}$
- ☐ $[8080 \%C + 34500(\%H - \%O/16) + 2240 \%S]/100 \text{ cal/gm}$
- ☐ $[8080 \%C + 34500(\%H/1 - \%O/8) + 2240 \%S]/100 \text{ cal/gm}$

PART-B [10 x 2 = 20]

Descriptive type (Answer the question not more than 50 words)

34. 1. Define Freundlich adsorption isotherm. *

2 points

39. 6. What are the advantages of Otto-Hoffman's process? *

2 points

40. 7. Define Octane number of a petrol. How it can be improved? *

2 points

41. 8. What is power alcohol? Mention the advantage. *

2 points

42. 9. What is ignition temperature? *

2 points

43. 10. What are the reagents used in flue gas analysis? Indicate their function. *

2 points

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2.5.1 Timetable for all Internal Assessment Test

SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF MANAGEMENT STUDIES

TIME TABLE FOR INTERNAL ASSESSMENT TEST - I
I MBA (2020 – 2022) / SEMESTER - I

S. No	DATE	SUBJECT CODE	SUBJECT
01	18. 01. 21	BA5101	ECONOMIC ANALYSIS FOR BUSINESS
02	19. 01. 21	BA5102	PRINCIPLES OF MANAGEMENT
03	20. 01. 21	BA5103	ACCOUNTING FOR MANAGEMENT
04	21. 01. 21	BA5104	LEGAL ASPECTS OF BUSINESS
05	22. 01. 21	BA5105	ORGANIZATIONAL BEHAVIOUR
06	23. 01. 21	BA5106	STATISTICS FOR MANAGEMENT
07	25. 01. 21	BA5107	TOTAL QUALITY MANAGEMENT

NOTE:-

Multiple Choice Questions

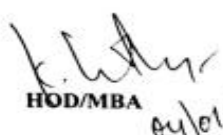
PART – A (20 x 01 = 20)

PART – B (15 x 02 = 30)

Total = 50 Marks

DURATION: 1 Hrs

FN: 03.00 PM to 04.00 PM


HOD/MBA

04/01/21

H.O.D. (MBA)
Saranathan College of Engg.,
Trichirapalli - 620 012.

SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF MANAGEMENT STUDIES

TIME TABLE FOR INTERNAL ASSESSMENT TEST - II
I MBA (2020 – 2022) / SEMESTER - I

S. No	DATE	SUBJECT CODE	SUBJECT
01	09.02.21	BA5101	ECONOMIC ANALYSIS FOR BUSINESS
02	10.02.21	BA5102	PRINCIPLES OF MANAGEMENT
03	11.02.21	BA5103	ACCOUNTING FOR MANAGEMENT
04	12.02.21	BA5104	LEGAL ASPECTS OF BUSINESS
05	13.02.21	BA5105	ORGANIZATIONAL BEHAVIOUR
06	15.02.21	BA5106	STATISTICS FOR MANAGEMENT
07	16.02.21	BA5107	TOTAL QUALITY MANAGEMENT

NOTE:-

Multiple Choice Questions

PART – A (20 x 01 = 20)

PART – B (15 x 02 = 30)

Total = 50 Marks

DURATION: 1 Hour

FN: 10.00 AM to 11.00 AM

HOD/MBA

K. V. S. S.
12/21

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Trichirapalli - 620 012.

SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF MANAGEMENT STUDIES

TIME TABLE FOR INTERNAL ASSESSMENT TEST - I
I MBA (2020 – 2022) / SEMESTER - II

S. No	DATE	SUBJECT CODE	SUBJECT
01	03.06.21	BA5201	Applied Operations Research
02	04.06.21	BA5202	Business Research Methods
03	05.06.21	BA5203	Financial Management
04	07.06.21	BA5204	Human Resource Management
05	08.06.21	BA5205	Information Management
06	09.06.21	BA5206	Operations Management
07	10.06.21	BA5207	Marketing Management

HOD/MBA

DURATION: 01 Hr & 30 Mts

FN: 9.30 AM to 11.00 AM

PATTERN OF QUESTION PAPER

1. Part A shall have 10 questions (10 X 2 = 20 Marks)
2. Part B shall have 03 questions (3 X 10 = 30 Marks), with either or type
3. All questions in Part – A and Part – B shall be of analytical type with no direct answers from the test and reference books.



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SARANATHAN COLLEGE OF ENGINEERING

DEPARTMENT OF MANAGEMENT STUDIES

TIME TABLE FOR INTERNAL ASSESSMENT TEST – I

II MBA (2019 – 2021) / SEMESTER – III

S. No	DATE	SUBJECT CODE	FN/AN	SUBJECT
1.	10.09.20	BA5301	AN	INTERNATIONAL BUSINESS MANAGEMENT
2.	11.09.20	BA5302	FN	STRATEGIC MANAGEMENT
		BA5004	AN	INTEGRATED MARKETING COMMUNICATION
3.	12.09.20	BA5005	FN	RETAIL MANAGEMENT
		BA5006	AN	SERVICES MARKETING
4.	14.09.20	BA5008	FN	BANKING FINANCIAL SERVICES MANAGEMENT
		BA5009	AN	CORPORATE FINANCE
5.	15.09.20	BA5012	FN	SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT
		BA5014/ BA5025	AN	ENTREPRENEURSHIP DEVELOPMENT/ SUPPLY CHAIN MANGEMENT
6.	16.09.20	BA5015 / BA5029	FN	INDUSTRIAL RELATIONS AND LABOUR WELFARE/ SERVICES OPERATIONS MANAGEMENT
		BA5016 / BA5030	AN	LABOUR LEGISLATION / LOGISTICS MANAGE MENT

DURATION: 1 Hrs 30 Min

FN: 10.00 AM to 11.30 AM

AN: 03.00 PM to 04.30 PM

Shandorah
for HOD/MBA 9/9/20

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SARANATHAN COLLEGE OF ENGINEERING

DEPARTMENT OF MANAGEMENT STUDIES

TIME TABLE FOR INTERNAL ASSESSMENT TEST – II

II MBA (2019 – 2021) / SEMESTER – III

S. No	DATE	SUBJECT CODE	SESSION	SUBJECT
1.	07.10.20	BA5301	AN	INTERNATIONAL BUSINESS MANAGEMENT
2.	08.10.20	BA5302	AN	STRATEGIC MANAGEMENT
3.	09.10.20	BA5004	AN	INTEGRATED MARKETING COMMUNICATION
4.	10.10.20	BA5005	AN	RETAIL MANAGEMENT
5.	12.10.20	BA5006	AN	SERVICES MARKETING
6.	13.10.20	BA5008	AN	BANKING FINANCIAL SERVICES MANAGEMENT
7.	14.10.20	BA5003	AN	CORPORATE FINANCE
8.	15.10.20	BA5012	AN	SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT
9.	16.10.20	BA5014/ BA5025	AN	ENTREPRENEURSHIP DEVELOPMENT/ SUPPLY CHAIN MANGEMENT
10.	17.10.20	BA5015 / BA5029	AN	INDUSTRIAL RELATIONS AND LABOUR WELFARE/ SERVICES OPERATIONS MANAGEMENT
11.	19.10.20	BA5016 / BA5030	AN	LABOUR LEGISLATION / LOGISTICS MANAGE MENT

NOTE:-

PART –A (10x01 = 10)

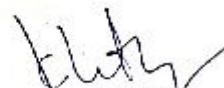
Multiple Choice Questions

PART – B (02 x 15 =30)

Total = 40 Marks

DURATION: 1 Hour

FN: 06.30 PM to 07.30 PM


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Trichirapalli - 620 012.

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SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF MANAGEMENT STUDIES
TIME TABLE FOR INTERNAL ASSESSMENT TEST – III (REVISED)
II MBA (2019 – 2021) / SEMESTER – III

S. No	DATE	SUBJECT CODE	SESSION	SUBJECT
1.	02.11.20	BA5301	FN	INTERNATIONAL BUSINESS MANAGEMENT
2.	02.11.20	BA5302	AN	STRATEGIC MANAGEMENT
3.	03.11.20	BA5004	FN	INTEGRATED MARKETING COMMUNICATION
4.	03.11.20	BA5005	AN	RETAIL MANAGEMENT
5.	04.11.20	BA5006	FN	SERVICES MARKETING
6.	04.11.20	BA5008	AN	BANKING FINANCIAL SERVICES MANAGEMENT
7.	05.11.20	BA5009	FN	CORPORATE FINANCE
8.	05.11.20	BA5012	AN	SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT
9.	06.11.20	BA5014/ BA5030	FN	ENTREPRENEURSHIP DEVELOPMENT/ SUPPLY CHAIN MANGEMENT
10.	06.11.20	BA5015 / BA5029	AN	INDUSTRIAL RELATIONS AND LABOUR WELFARE/ SERVICES OPERATIONS MANAGEMENT
11.	07.11.20	BA5016 / BA5025	FN	LABOUR LEGISLATION / LOGISTICS MANAGE MENT

NOTE:-

PART –A (10x01 = 10)

Multiple Choice Questions

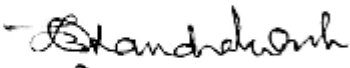
PART – B (02 x 15 =30)

Total = 40 Marks

DURATION: 1 Hour

FN: 10.00 AM to 11.00PM

AN: 03.00PM to 04.00PM


 for HOD/MBA

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SARANATHAN COLLEGE OF ENGINEERING

CIRCULAR

21/12/2020

Internal Assessment Test – 1 (Online mode) for First YEAR B.E. / B.TECH classes will commence from 24-12-2020 (Thursday) as per the Time Table attached.

Test duration : 10.00 a.m. to 11.00 a.m. (1 Hour)

11.00 a.m. - 11.30 a.m. Break

11.30 a.m. – 12.30 p.m. 2nd Hour (Duration: one hour)

Afternoon classes will be held as per regular timetable.

Question Paper Pattern

PART- A $30 \times 1 = 30$ Marks

PART – B $10 \times 2 = 20$ Marks

As per the instructions from Anna University Chennai, the Internal Assessment test Marks will be entered in the “Anna University WEB Portal “ as soon as the tests are over. The internal marks will be awarded by Anna University Chennai based on your performance in I.A. Tests. Students are advised to take the I.A. Tests seriously and score more marks.




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SARANATHAN COLLEGE OF ENGINEERING
TIME TABLE FOR INTERNAL ASSESSMENT - 1 1ST YEAR U.G 2020

DATES	SUBJECT
24-12-2020	COMMUNICATIVE ENGLISH-I
26-12-2020	ENGINEERING MATHEMATICS-I
28-12-2020	ENGINEERING PHYSICS
29-12-2020	ENGINEERING CHEMISTRY
30-12-2020	PROBLEM SOLVING & PYTHON PROGRAMMING
31-12-2020	ENGINEERING GRAPHICS



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TRICHY - 12.



SARANATHAN COLLEGE OF ENGINEERING

CIRCULAR

19/01/2021

Internal Assessment Test - II (Online mode) for First YEAR B.E. / B.TECH classes will commence from 23-01-2021 (Saturday) as per the Time Table .

Test duration : 10.00 a.m. to 11.00 a.m. (1 Hour)

11.00 a.m. - 11.30 a.m. Break

11.30 a.m. – 12.30 p.m. 2nd Hour (Duration: one hour)

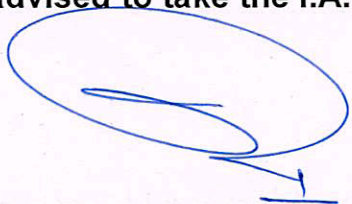
Afternoon classes will be held as per regular timetable.

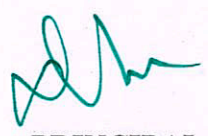
Question Paper Pattern

PART- A 30*1 = 30 Marks

PART – B 10*2 = 20 Marks

As per the instructions from Anna University Chennai, the Internal Assessment test Marks will be entered in the “Anna University WEB Portal “ as soon as the tests are over. The internal marks will be awarded by Anna University Chennai based on your performance in I.A. Tests. Students are advised to take the I.A. Tests seriously and score more marks.

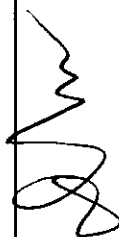

FIRST YEAR ACADEMIC CHAIRPERSON


PRINCIPAL

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TRICHY - 12.

SARANATHAN COLLEGE OF ENGINEERING
TIRUCHIRAPPALLI - 12
FIRST YEAR B.E/B.TECH
INTERNAL ASSESSMENT TEST 3 ONLINE EXAMINATION
TIME 9.30 AM TO 10.30 AM

SECTION	BATCH NOS	VENUE DETAILS	COMPUTER SYSTEM SUPPORT TO BE PROVIDED BY	Invigilation to be done by
A	20A001 TO 20A021	RV BLOCK 101	CSE	CSE/IT
A	20A022 TO 20A041	RV BLOCK 102	CSE	CSE/IT
A	20A042 TO 20A058	RV BLOCK 103	CSE	CSE/IT
B	20B001 TO 20B004	RV BLOCK 103	CSE	CSE/IT
B	20B005 TO 20B024	RV BLOCK 104	CSE	CSE/IT
B	20B025 TO 20B045	RV BLOCK 105	CSE	CSE/IT
B	20B046 TO 20B058	RV BLOCK 106	CSE	CSE/IT
C	20C001 TO 20C003	RV BLOCK 106	CSE	CSE/IT
C	20C004 TO 20C036	RV BLOCK 206A- COMM.LAB	CSE	ENGLISH
C	20C037 TO 20C047	KSBLOCK ECE 302	ECE	MATHS
C	20C048 TO 20C057	KS BLOCK ECE 303	ECE	MATHS
C	20C058	KS BLOCK ECE 304	ECE	MATHS
D	20D001 TO 20D009	KS BLOCK ECE 304	ECE	MATHS
D	20D010 TO 20D014	KS BLOCK ECE 209	ECE	CHEMISTRY
D	20D015 TO 20D018	KS BLOCK ICE DEPT	ICE	PHYSICS
D	20D019 TO 20D038	KS BLOCK GROUND FLOOR EEE 106	EEE	PHYSICS/CHEMISTRY
D	20D039 TO 20D058	MECH BLOCK CAD LAB	MECH	MECH



PRINCIPAL



FIRST YEAR CHAIRPERSON

SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPPALLI - 12

FIRST YEAR B.E/B.TECH

INTERNAL ASSESSMENT TEST 3 ONLINE EXAMINATION

(TIME 11 AM TO 12 NOON)

SECTION	BATCH NOS	VENUE	COMPUTER SYSTEM SUPPORT TO BE PROVIDED BY	Invigilation to be done by
E	20E001 TO 20E020	RV BLOCK 101	CSE	CSE/IT
E	20E021 TO 20E040	RV BLOCK 102	CSE	CSE/IT
E	20E041 TO 20E058	RV BLOCK 103	CSE	CSE/IT
F	20F001 TO 20F002	RV BLOCK 103	CSE	CSE/IT
F	20F003 TO 20F022	RV BLOCK 104	CSE	CSE/IT
F	20F023 TO 20F042	RV BLOCK 105	CSE	CSE/IT
F	20F043 TO 20F057	RV BLOCK 106	CSE	CSE/IT
G	20G001 TO 20G005	RV BLOCK 106	CSE	CSE/IT
G	20G006 TO 20G042	RV BLOCK 206A- COMM.LAB	CSE	ENGLISH
G	20G043 TO 20G053	KS BLOCK ECE 302	ECE	MATHS
G	20G054 TO 20G060	KS BLOCK ECE 303	ECE	MATHS
H	20H001 TO 20H004	KS BLOCK ECE 303	ECE	MATHS
H	20H005 TO 20H014	KS BLOCK ECE 304	ECE	MATHS
H	20H015 TO 20H019	KS BLOCK ECE 209	ECE	CHEMISTRY
H	20H020 TO 20H023	KS BLOCK ICE DEPT	ICE	PHYSICS
H	20H024 TO 20H037	KS BLOCK GROUND FLOOR EEE 106	EEE	PHYSICS/ CHEMISTRY
H	20H038 TO 20H058	MECH BLOCK CAD LAB	MECH	MECH

FIRST YEAR CHAIR PERSON

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SARANATHAN COLLEGE OF ENGINEERING, TRICHY-12

INTERNAL ASSESSMENT TEST -3

BATCH	SECTIONS	EXAM TIME
1	A, B, C, D	9.30 AM TO 10.30 AM
2	E, F, G, H	11.00 AM TO 12.00 NOON

EXAM SCHEDULE

Date	Subject code	Subject Name
1.03.2021	GE8151	PROBLEM SOLVING AND PYTHON PROGRAMMING
2.03.2021	MA8151	ENGINEERING MATHEMATICS
3.30.2021	CY8151	ENGINEERING CHEMISTRY
4.03.2021	PH8151	ENGINEERING PHYSICS
5.03.2021	HS8151	COMMUNICATIVE ENGLISH
6.03.2021	GE8152	ENGINEERING GRAPHICS



I YEAR- ACADEMIC CHAIR PERSON



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SARANATHAN COLLEGE OF ENGINEERING, TRICHY 12

SPECIAL TIME TABLE FOR I YEAR (01.03.2021-05.03.2021)

SECTION A

Date	1 9.30-10.30	2 11.00-12.00	3 12.00-1.00	4 2.00-3.00	5 3.30-4.30
1.03.2021	IA Test	MATHS	ENGLISH	CHEMISTRY	PHYSICS
2.03.2021		MATHS	ENGLISH	PHYSICS	CHEMISTRY
3.03.2021		PHYSICS	MATHS	ENGLISH	CHEMISTRY
4.03.2021		CHEMISTRY	PHYSICS	MATHS	ENGLISH
5.03.2021		ENGLISH	CHEMISTRY	PHYSICS	MATHS

SECTION B

Date	1 9.30-10.30	2 11.00-12.00	3 12.00-1.00	4 2.00-3.00	5 3.30-4.30
1.03.2021	IA Test	ENGLISH	MATHS	CHEMISTRY	PHYSICS
2.03.2021		ENGLISH	MATHS	PHYSICS	CHEMISTRY
3.03.2021		PHYSICS	ENGLISH	MATHS	CHEMISTRY
4.03.2021		CHEMISTRY	PHYSICS	ENGLISH	MATHS
5.03.2021		MATHS	CHEMISTRY	PHYSICS	ENGLISH

SECTION C

Date	1 9.30-10.30	2 11.00-12.00	3 12.00-1.00	4 2.00-3.00	5 3.30-4.30
1.03.2021	IA Test	MATHS	ENGLISH	PHYSICS	CHEMISTRY
2.03.2021		MATHS	ENGLISH	CHEMISTRY	PHYSICS
3.03.2021		CHEMISTRY	MATHS	ENGLISH	PHYSICS
4.03.2021		PHYSICS	CHEMISTRY	MATHS	ENGLISH
5.03.2021		ENGLISH	PHYSICS	CHEMISTRY	MATHS

SECTION D

Date	1 9.30-10.30	2 11.00-12.00	3 12.00-1.00	4 2.00-3.00	5 3.30-4.30
1.03.2021	IA Test	MATHS	ENGLISH	PHYSICS	CHEMISTRY
2.03.2021		MATHS	ENGLISH	CHEMISTRY	PHYSICS
3.03.2021		CHEMISTRY	MATHS	ENGLISH	PHYSICS
4.03.2021		PHYSICS	CHEMISTRY	MATHS	ENGLISH
5.03.2021		ENGLISH	PHYSICS	CHEMISTRY	MATHS

SECTION E

Date	1 9.30-10.30	2 11.00-12.00	3 12.00-1.00	4 2.00-3.00	5 3.30-4.30
1.03.2021	MATHS	IA Test	PHYSICS	CHEMISTY	ENGLISH
2.03.2021	ENGLISH		CHEMISTRY	MATHS	PHYSICS
3.03.2021	PHYSICS		ENGLISH	CHEMSITRY	MATHS
4.03.2021	CHEMISTRY		MATHS	ENGLISH	PHYSICS
5.03.2021	MATHS		PHYSICS	CHEMSITRY	ENGLISH

SECTION F

Date	1 9.30-10.30	2 11.00-12.00	3 12.00-1.00	4 2.00-3.00	5 3.30-4.30
1.03.2021	MATHS	IA Test	PHYSICS	CHEMISTY	ENGLISH
2.03.2021	ENGLISH		CHEMISTRY	MATHS	PHYSICS
3.03.2021	PHYSICS		ENGLISH	CHEMSITRY	MATHS
4.03.2021	CHEMISTRY		MATHS	ENGLISH	PHYSICS
5.03.2021	MATHS		PHYSICS	CHEMSITRY	ENGLISH

SECTION G

Date	1 9.30-10.30	2 11.00-12.00	3 12.00-1.00	4 2.00-3.00	5 3.30-4.30
1.03.2021	PHYSICS	IA Test	CHEMISTRY	MATHS	ENGLISH
2.03.2021	CHEMISTRY		PHYSICS	ENGLISH	MATHS
3.03.2021	ENGLISH		PHYSICS	CHEMISTRY	MATHS
4.03.2021	MATHS		ENGLISH	PHYSICS	CHEMISTRY
5.03.2021	ENGLSIH		CHEMISTRY	MATHS	PHYSICS

SECTION H

Date	1 9.30-10.30	2 11.00-12.00	3 12.00-1.00	4 2.00-3.00	5 3.30-4.30
1.03.2021	PHYSICS	IA Test	CHEMISTRY	MATHS	ENGLISH
2.03.2021	CHEMISTRY		PHYSICS	ENGLISH	MATHS
3.03.2021	ENGLISH		PHYSICS	CHEMISTRY	MATHS
4.03.2021	MATHS		ENGLISH	PHYSICS	CHEMISTRY
5.03.2021	ENGLSIH		CHEMISTRY	MATHS	PHYSICS

I YEAR –ACADEMIC CHAIR PERSON

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SARANATHAN COLLEGE OF ENGINEERING

Tiruchirapalli

INTERNAL ASSESSMENT TEST - II			Date/ Session	26.04.2021 (FN)	Marks	50
Course code	EC8395	Course Title	Communication Engineering			
Batch No.		Duration	90 mins	Academic Year	2020 - 2021	
Year/	II	Semester/ Sec	04/ A	Department	ICE	

Part – A

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

Q. No.	Questions	CO	Skills
1	Draw the BPSK signal for the given message signal 101101.	C303.3	A
2	What is meant by BER? Give BER of various Digital modulation schemes.	C303.3	U
3	Differentiate between BPSK from QPSK.	C303.3	A
4	An event has six possible outcomes with probabilities $\{1/2, 1/4, 1/8, 1/16, 1/32, 1/32\}$. Calculate the entropy of the system.	C303.4	A
5	Discuss why the Huffman code called as minimum redundancy coding	C303.4	C

Part – B

(Answer all the questions 5 x 8 =40marks)

Q. No.	Questions	CO	Skills
6	For a BPSK modulator with a Carrier frequency of 70 MHz and an input bit rate of 10 Mbps, determine the maximum and minimum upper and lower side frequencies, draw the output spectrum, determine the minimum Nyquist bandwidth, and calculate the baud rate	C303.3	AZ,E
(Or)			
7	Explain in detail about the operation of QPSK transmitter with necessary diagrams.	C303.3	AZ
(Or)			
8	What is meant by pulse Shaping? How it reduces ISI?	C303.3	U
9	Compare the various digital communication systems..	C303.3	AZ
(Or)			
10	Compare the merits and demerits of Shannon fano coding with other coding	C303.4	AZ
11	Brief the properties of entropy.	C303.4	A
(Or)			
12	Explain the procedure of shanon fano algorithm and calculate the entropy for the following probabilities using the algorithm. (13) m1 m2 m3 m4 m5 m6 m7 m8 4/32 2/32 16/32 2/32 2/82 1/32 1/32 4/82.	C303.4	E

13	Illustrate with suitable example, any one of the decoding methods of convolutional coding precisely.	C303.3	R
14			
	Explain M-ary PSK system and also Evaluate its bandwidth efficiency.	C303.3	AZ
	OR		
15	Draw the block diagram of duo -binary signaling scheme for controlled ISI. Explain the scheme with and without precoder	C303.3	AZ
16	Illustrate with suitable example, any one of the decoding methods of convolutional coding precisely	C303.4	AZ
	OR		
17	The parity check matrix of a particular (7,4) linear block code is given by, $[H] = \begin{bmatrix} 1110100 & 1101010 & 1011001 \end{bmatrix}$ (i) Find the generator matrix (G). (4) (ii) List all the code vectors. (4)	C303.4	E,C

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

Name of the Faculty (s) : Mr.K.Malaisamy



QUESTION PAPER FORMAT

Saranathan College of Engineering

Tiruchirapalli

Internal Assessment Test - III			Date/ Session	18/5/2021	Marks	50
Course code	EC8395	Course Title	COMMUNICATION ENGINEERING			
Batch No.		Duration	90 mins	Academic Year	2020-2021	
Year/	II	Semester/ Section	IV	Department	ICE	

Part – A

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

Q. No.	Questions	CO	s	SSkill
1	List any four primary applications of FDMA	C303.5		RR
2	List out the merits of TDMA system.	C303.5		RR
3	Generalize the significance of CDMA techniques.	C303.5		CC
4	Write the classification of direct sequences spread spectrum.	C303.5		UU
5	Point out the most critical requirement of TDMA technique.	C303.5		AAZ
6	Define multiple access. What are the benefits of multiple access techniques in communication engineering?	C303.5		RR
7	Define cyclic codes and mention the types	C303.4		UU
8	Compare block and convolution codes	C303.4		EE
9	Define syndrome in error control codes.	C303.4		UU
10	State channel capacity theorem.	C303.4		UU

Part – B

(Answer all the questions 2 x 10 = 20 marks) **Maximum 2 splits/Question**

Q. No.	Questions	CO	Skills
11	Explain the principle of FDMA with neat diagram.	C303.5	AZ
OR			
12	Draw the block diagram and explain in detail the model of spread spectrum digital communication system	C303.5	C
13	Explain the concept of coding and decoding methods of block codes with its mathematical framework and diagram.	C303.4	U
OR			

14	Illustrate with suitable example, any one of the decoding methods of convolutional coding precisely.	C303.4	R
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(Answer all the questions 1 x 10 = 10 marks) Case study or Analytical type

Q. No.	Questions	CO	Skills
15	Summarize Spread Spectrum modulation technique based upon the operating concept and compare about DSSS and FHSS.	C303.5	E
OR			
16	Design a PN sequence generator and evaluate the sequence length for the following (a) 4 shift registers (b) 9 shift registers	C303.5	E

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 - II			Date/Session	30.04.2021	Marks	50
Course code	IC8451	Course Title	Control system			
Batch No.		Duration	90 Minutes	Academic Year	2020-2021/Even	
Year	II	Semester	IV	Department	ICE	

Part – A (20 Marks)

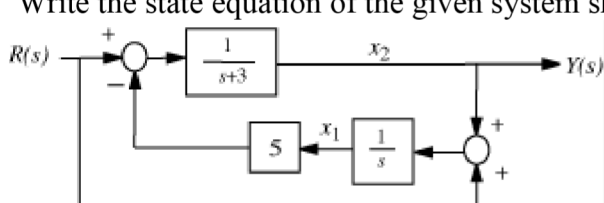
I. Answer all the Questions

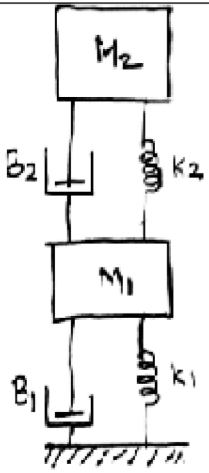
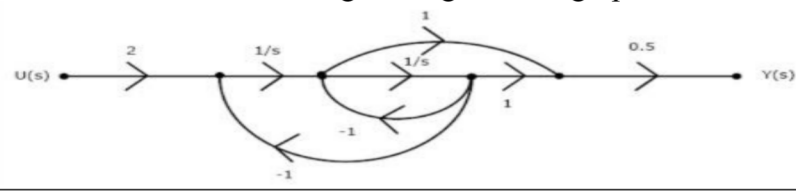
(5x2=10 Marks)

Q. No.	Questions	CO	Skills
1	How to get gain crossover frequency while knowing phase crossover frequency	C213.4	U
2	How canonical variables used ISRO for satellite launch?13,16,21	C213.4	U
3	Which system applicable MIMO system .	C213.5	U
4	Which representation makes two equation ?	C213.5	A
5	As a tool how effective is observability for a dynamic controls	C213.5	U

Part – B

(Answer all the questions 5x 8=40marks)

Q. No.	Questions	CO	Skills
6	Obtain the gain margin and phase margin for the following open loop transfer function using bode plot $G(s)=10/s(0.1s+1)(0.01s+1)$	C213.4	AZ
Or			
7	Sketch the bode plot for the following transfer function and obtain gain & phase cross over frequencies $G(s)=20/s(1+0.4s)(1+0.1s)$	C213.4	AZ
or			
8	The open loop transfer function of a unity feedback system is given by $G(s)=1/s^2(1+s)(1+2s)$ sketch the polar plot and determine the gain margin & phase margin	C213.4	AZ
or			
9	The open loop transfer function of a unity feedback system is given by $G(s)=1/s(1+s)^2$ sketch the polar plot and determine the gain margin & phase margin	C213.4	AZ
Or			
10	For the given state model check whether the system is controllable and observable $\dot{\mathbf{x}} = \begin{bmatrix} 0 & 1 \\ 0 & -4 \end{bmatrix} \mathbf{x} + \begin{bmatrix} 0 \\ 2 \end{bmatrix} u$ $y = [0 \quad 2] \mathbf{x}$	C213.5	AZ
Or			
11	Write the state equation of the given system shown in below 	C213.5	U
12	Obtain the state model of the mechanical system shown in fig .By choosing	C213.5	AZ

	 minimum state variable.		
Or			
13	construct a state diagram of a system characterized by transfer function is Given as $y(s)/u(s)=10/4s^2+2s+1$)	C213.5	AZ
	or		
14	Find the state model of the given signal flow graph 	C213.5	AZ
	or		
15	Construct the state diagram for the characterized by the following differential equation $\ddot{Y} + 3\dot{y} + 2\dot{y} = \dot{U} + U$	C213.5	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

Name of the Faculty In-charge:



Saranathan College of Engineering

Tiruchirappalli - 620012

Internal Assessment Test - III			Date/Session	21.05.2021	Marks	50
Course code	IC8451	Course Title	Control system			
Batch No.		Duration	90 Minutes	Academic Year	2020-2021/Even	
Year	II	Semester	IV	Department	ICE	

Part – A (20 Marks)

I. Answer all the Questions

(5x2=10 Marks)

Q. No.	Questions	CO	Skills
1	Identify constant velocity & constant acceleration test signal	C213.2	U
2	What is the rise time when the system is overdamped?	C213.2	U
3	What is the effects in the performance of the system using PI controller?	C213.2	U
4	Find the K_a for $G(s) = \frac{k(1+s)(1+2s)}{s^2(1+s)(s+2)}$	C213.2	A
5	When is lag compensator required?	C213.4	U

Part – B

(Answer all the questions 5x 8=40marks)

Q. No.	Questions	CO	Skills
6	A unity feed back system characterized by an open loop transfer function $G(S)=K/S(S+10)$ Determine the gain K So that the system will have a damping ratio of 0.5 For this value of K determine settling time, Peak overshoot .	C213.2	U
Or			
7	A unity feed back control system has an open loop transfer function $G(S)=5/S(S+1)$ Find the rise time, peak overshoot ,peak time ,settling time .	C213.2	U
Or			
8	A unity feed back system has $G(S)=1/S(S+1)$. The input is the system is described by $r(t)=4+6t+2t^2$ Find the generalized error coefficient and steady state error.	C213.2	AZ
Or			
9	Obtain the response of unity feedback system whose open loop transfer function is $G(S)=4/S(S+5)$ and when the input is ramp	C213.2	A
Or			
10	Construct the routh array & determine the stability of the system represented by characteristic equation $s^5 + s^4 + 2s^3 + 2s^2 + 3s + 5 = 0$	C213.4	U
Or			
11	Construct the routh array & determine the stability of the system represented by characteristic equation $s^7 + 5s^6 + 9s^5 + 9s^4 + 4s^3 + 20s^2 + 30s + 36 = 0$	C213.4	U
Or			
12	Derive the expression for time response of a under damped second order system	C213.2	U
Or			

13	A positional control system with velocity feed back what is the response of the system when the input is UNIT Ramp	C213.2	A
14	Derive the expression of critically damped system for unit Ramp input	C213.2	U
15	Design a lead compensator for a unity feed back system with open loop transfer function $G(S)=K/[S(1+s)(s+5)]$ to satisfy the following specification $K_p \geq 50$	C213.4	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

Name of the Faculty In-charge:



Saranathan College of Engineering
Tiruchirapalli

Internal Assessment Test - II			Date/ Session	29.04.2021/ FN	Marks	50
Course code	EI8451	Course Title	Electrical Machines			
Batch No.		Duration	90 mins	Academic Year	2020-2021	
Year	II	Semester/ Section	IV/A	Department	ICE	

Part – A

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

Q. No.	Questions	CO	Skills
1	A 200 kVA single phase transformer with a voltage ratio of 6600 / 660 V has the following winding parameters. $R_1 = 1.56\Omega$, $R_2 = 0.016\Omega$, $X_1 = 4.67\Omega$ and $X_2 = 0.048\Omega$. Calculate the resistance and reactance referred to high voltage side.	C210.2	A
2	Full load copper loss in a transformer is 2000 watts. What will be the loss at half load ?	C210.2	A
3	Calculate the value of the distribution factor for a 3-phase, 4-pole Alternator having 36 slots.	C210.3	A
4	The effective resistance of a 2200V, 50Hz, 440 kVA, 1-phase Alternator is 0.5Ω . On short circuit, a field current of 40A gives the full load current of 200A. The voltage on open circuit with same field excitation is 1160V. Calculate (i) Synchronous impedance (ii) Synchronous reactance.	C210.3	A
5	Calculate the minimum and maximum number of Poles required for a Salient pole Synchronous motor having minimum and maximum speeds of 150 rpm and 1500 rpm respectively.	C210.3	A

Part – B

(Answer all the questions 5 x 8 = 40 marks)

Q. No.	Questions	CO	Skills																				
6	In a Transformer, core loss is found to be 52 W at 40Hz and 90 W at 60Hz, both losses being measured at the same peak flux density. Compute the Hysteresis and Eddy Current Losses at 50Hz.	C210.2	AZ																				
Or																							
7	The parameters of a 2300V/230V, 50Hz transformer are $R_1 = 0.286 \Omega$, $R_2 = 0.39 \Omega$, $R_0 = 250 \Omega$, $X_1 = 0.73 \Omega$, $X_2 = 0.73 \Omega$, and $X_0 = 1500 \Omega$. The secondary load impedance $Z_L = 0.37+j 0.29$. Solve for input current, Secondary current referred to primary, No-load current, Input Power factor, Primary Copper Loss, Secondary Copper Loss, efficiency and regulation from the exact equivalent circuit with normal voltage across the primary.	C210.2	AZ																				
8	A 5kVA, single phase Transformer has a core loss of 40W and full load ohmic (copper) loss of 100W. The daily variation of load on the Transformer is as follows: 7 A.M to 1 P.M – 2kW at 0.8 pf lag 1 P. to 6 P.M – 3kW at 0.6 pf lag 6 P.M to 1 A.M – 6kW at 0.9 lag 1 A.M – 7 A.M – No Load Calculate the all day Efficiency of the Transformer.	C210.2	AZ																				
Or																							
9	The primary and secondary windings of a 30 kVA 7600/230V, 1-phase Transformer has a resistance of 10Ω and 0.016Ω respectively. The reactance of the Transformer referred to primary is 34Ω . Calculate the primary voltage required to circulate the full-load current when the secondary is short circuited.	C210.2	AZ																				
10	A 220V, 50 Hz, 6 pole star-connected alternator with ohmic resistance of 0.06Ω per phase, gave the following data for open circuit, short circuit tests. <table><tr><td>Filed Current, If</td><td>0.2</td><td>0.4</td><td>0.6</td><td>0.8</td><td>1.0</td><td>1.2</td><td>1.4</td><td>1.8</td><td>2.2</td></tr><tr><td>Open Circuit</td><td>29.0</td><td>58.0</td><td>87.0</td><td>116</td><td>146</td><td>172</td><td>194</td><td>232</td><td>261.5</td></tr></table>	Filed Current, If	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.8	2.2	Open Circuit	29.0	58.0	87.0	116	146	172	194	232	261.5	C210.3	AZ
Filed Current, If	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.8	2.2														
Open Circuit	29.0	58.0	87.0	116	146	172	194	232	261.5														

	Voltage, V_{OC} in V												
	Short Circuit Test I_{SC} in A	6.6	13.2	20.0	26.5	32.4	40.0	46.3	59.0	--			
Find the percentage voltage regulation at full-load current of 40A at 0.8 p.f (lagging) by EMF method.													
Or													
11	For the Alternator parameters given in Q.No. 10, Find the percentage voltage regulation at full-load current of 40A at 0.8 p.f (lagging) by EMF method.											C210.3	AZ
12	A 4-pole, 50 Hz, star connected alternator has 15 slots per pole and each slot has 12 conductors. All the conductors of each phase are connected in series the winding factor being 0.96.cWhen running on no-load for a certain flux per pole, the terminal EMF was 1825V. If the windings are wave-connected as in DC machine, what would be the EMF between the brushes for the same speed and same flux/pole. Assume sinusoidal distribution of flux.											C210.3	AZ
Or													
13	A 3-phase, 16 pole alternator has a star connected winding with 144 slots and 10 conductors per slot. The flux/pole is 0.04 Wb (sinusoidal) and the speed is 375 rpm. Find the frequency, phase and Line EMFs. The total turns/phase may be assumed to series connected.											C210.3	AZ
14	A 400V, 6 pole, 3-phase, 50Hz, star connected synchronous motor has a resistance and synchronous impedance of 0.6 Ω and 4.5 Ω per phase respectively. It takes a current of 14 A at unity power factor when operating with a certain field current. If the load torque is increased until the line current is increased to 50 A, the field current remaining unchanged, Calculate: (a) New Power factor and (b) Gross torque developed.											C210.3	AZ
Or													
15	A 6.6 kV, Star-connected, 3-phase, synchronous motor works at constant voltage and constant excitation. Its synchronous impedance is 2+j20 per phase. When the input is 1000 kW, its power factor is 0.8 leading. Find the power factor when the input is increased to 1500 kW.											C210.3	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

Name of the faculty: Mr.P.Ram Prakash, AP/EEE



Saranathan College of Engineering
Tiruchirapalli

Internal Assessment Test - III			Date/ Session	19.05.2021/ FN	Marks	50
Course code	EI8451	Course Title	Electrical Machines			
Batch No.		Duration	90 mins	Academic Year	2020-2021	
Year	II	Semester/ Section	IV/A	Department	ICE	

Part – A

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

Q. No.	Questions	CO	Skills
1	How to reverse the direction of rotation in three phase Induction motor?	C210.4	U
2	Write the values of slip at the time of starting and at maximum torque.	C210.4	U
3	The power input to the rotor of a 415V, 4 pole, 3 phase induction motor is 55kW. The frequency of the rotor EMF is 2Hz. Find the rotor copper loss and mechanical power developed.	C210.4	A
4	Can an induction motor run at zero slip? State the reason.	C210.4	U
5	Is it possible to change the direction of rotation of a shaded pole motor? Justify your answer.	C210.4	U
6	A 6 pole, 500hp, 415V, 3 ϕ , 50Hz induction motor runs at 950rpm. Calculate its full load slip.	C210.4	A
7	Why an Induction motor is called as a 'rotating transformer'?	C210.5	U
8	Write the methods used to make the 1 ϕ induction motor self-starting.	C210.5	U
9	Why the BLDC motor is also called as trapezoidal PMAC motor?	C210.5	U
10	How universal motor is different from DC motor?	C210.5	U

Part – B

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

Q. No.	Questions	CO	Skills
11	(i) A 400V, 50Hz, 4-pole, star connected induction motor takes a line current of 10 A with 0.86 p.f. lagging. Its total stator losses are 5% of the input. Rotor copper losses are 4% of the input to the rotor and mechanical losses are 3% of the input of the rotor. Calculate (i) Slip and rotor speed (ii) Torque developed in the rotor (iii) Shaft torque. (6) (ii) A 3-phase SCIM takes a starting current 6 times the full load current. Find the starting torque as a percentage of full-load torque if the motor uses (i) DOL (ii) Star-Delta Starter. Assume a full load slip of 4%. (4)	C210.4	A
or			
12	A 4 pole, 400V, 3 ϕ , 50Hz induction motor has star connected stator and rotor. Rotor resistance and reactance are 0.2 Ω per phase and 0.1 Ω per phase respectively at standstill. The ratio of stator and rotor turns is 1.2. Calculate the torque and power at full load for a slip of 4%. Find the maximum torque and speed at which it occurs.	C210.4	A
or			
13	Why the single phase induction motor is not self-starting? Discuss the double field revolving theory of 1 ϕ induction motor along with the Torure-slip characteristics.	C210.5	A
or			
14	(i) A 200W, 230V, 50Hz single phase Capacitor start Induction Motor has winding parameters of $Z_M = 4.5\Omega + j3.7\Omega$ and $Z_A = 9.5\Omega + j3.5\Omega$. Find the value of capacitance that will be added in the auxiliary winding to produce maximum starting torque. (6) (ii) Calculate the stepping angle for (i) a 3-phase, 16-tooth rotor VR Motor (ii) a 3-phase, 24-tooth rotor PM Motor (4)	C210.5	A

Part – C

(Answer all the questions 1 x 10 = 10marks)

15	A 400 V, 50 Hz, 6 pole, delta connected, three phase induction motor consumes 45 kW, with a line Current of 75A and runs at slip of If the stator	C210.4	AZ
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	iron loss is 1200 W, windage and friction loss are 900 W and resistance between two Stator terminals is 0.12Ω , Calculate i) power supplied to rotor ii) Rotor Copper loss iii) Shaft Torque iv) Shaft Power v) Efficiency		
or			
16	A 440 V, 3 phase, 8 pole, 50 Hz, star connected induction motor has the following parameters: Stator resistance = 0.1Ω , Stator reactance = 0.4Ω . Equivalent rotor resistance referred to stator = 0.15Ω , equivalent rotor reactance referred to stator = 0.44Ω . The stator core loss is 1250 W while mechanical loss is 1000W. It draws a no load current of 20 A at a p.f. of 0.09 lagging. While running at a speed of 727.5 rpm, Calculate: 1)Input line current and p.f.; 2)Torque developed; 3)Output power; 4)Efficiency. Draw approximate equivalent circuit.	C210.4	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

Name of the faculty: Mr.P.Ram Prakash, AP/EEE



Saranathan College of Engineering

Tiruchirapalli

Internal Assessment Test - III			Date/ Session	20.05.2021	Marks	50
Course code	EI8452	Course Title	Industrial Instrumentation-I			
Batch No.		Duration	90 mins	Academic Year	2020-2021	
Year/	II	Semester/ Section	IV	Department	ICE	

Part – A

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

Q. No.	Questions	CO	Skills
1	State the ways in determining the lower and upper fixed points of Celsius temperature scale.	C211.4	R
2	Identify the merits of thermistors.	C211.4	R
3	Why signal conditioner is necessary in temperature measurement?	C211.4	U
4	State the equipment required to install a pressure gauge on a pipeline.	C211.5	U
5	Differentiate absolute pressure and gauge pressure.	C211.5	R

Part – B

(Answer all the questions 5 x 8 = 40 marks)

Q. No.	Questions	CO	Skills
6	Discuss in detail about various laws of thermocouple.	C211.2	R
OR			
7	Explain with suitable equations of various methods of RTD.	C211.4	U
OR			
8	Explain the construction, working of optical pyrometers and also explain how it is differ from two color radiation pyrometers	C211.4	R
OR			
9	With suitable diagram, outline the various sources of static error in filled system and summarize the characteristics of thermistor.	C211.4	Az
OR			
10	Discuss in detail about fabrication of thermocouple instruments.	C211.4	Az
OR			
11	Explain the design of Signal condition unit for thermocouple using various methods	C211.4	U
OR			
12	Explain the operation of combination of elastic and electrical type pressure transducer.	C211.5	U
OR			
13	Explain concept of piezo electric and resistive type pressure measuring devices.	C211.5	R
OR			
14	Explain in detail about elastic types pressure measuring devices.	C211.5	U
OR			
15	Discuss the procedure involved in calibration of pressure gauges using gauge tester, with neat diagram.	C211.5	R



Saranathan College of Engineering
Tiruchirapalli

IA Test - III			Date/Session	22.05.2021	Marks	50
Course code	EE8451	Course Title	Linear Integrated Circuits and application			
Batch No.		Duration	90 mins	Academic Year	2020- 2021	
Year/	II	Semester/ Sec	IV	Department	ICE	

Part – A

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

Q. No.	Questions	CO	Skills
1	A PLL has free running frequency of 500 kHz and bandwidth of the low pass filter is 10 kHz. Will the loop acquire lock for an input signal of 600 kHz? Justify your answer. Assume that the phase detector produces sum and difference frequency components.	C213.4	E
2	List applications of analog multipliers.	C213.4	U
3	Write the significance of lock range of a PLL	C213.4	R
4	What is the function of a voltage regulator?	C213.5	R
5	What is the principle of SMPS?	C213.5	U

Part – B

(Answer all the questions 5 x 8 = 40marks)

Q. No.	Questions	CO	Skills
6	Design a low pass filter at a cut off frequency of 15.9 kHz with a pass band gain 1.5.	C213.3	R
or			
7	Design an op-amp Schmitt trigger with the following specifications: UTP=2V, LTP= -4V and the output swing between +10V/-10V. If input is $5\sin\omega t$, plot the waveforms of input and output.	C213.3	E
8	Design a 555 based square wave generator to produce a symmetrical square wave of 1 kHz. If $V_{cc}= 12V$, draw the voltage across timing capacitor and the output.	C213.4	R,U
or			
9	Draw the circuit diagram of IC555 used as the astable mode to generate square wave of 1kHz frequency, giving output equal to 5V for $\frac{1}{2}$ msec and output equal to 0V for next $\frac{1}{2}$ msec. Connect one red lamp and one green lamp so that for $\frac{1}{2}$ msec red lamp is ON and green is OFF and for next $\frac{1}{2}$ msec green lamp is ON and red is OFF. Lamps have rating of 5V and 50 mA.	C213.4	R
10	Explain in details about 565-phase lock loop IC and its applications	C213.4	A
or			
11	Explain in details about AD633 Analog multiplier ICs and its applications	C213.4	U
12	Free running frequency is 100kHz. Supply voltage is + or – 6V. Demodulation capacitor is $1\mu F$. Find out lock and capture frequencies and range of the PLL employing LM 565. Design Components of this PLL for given free running frequency.	C213.4	A
or			
13	Calculate output frequency f_0 , lock range Δf_L and capture range Δf_C of PLL if $R_T=1K$, $C_T= 0.1\mu F$ and filter capacitor $C=10\mu F$. What is the effect of filter capacitor on capture range?	C213.4	AZ
14	Design a regulator IC723 to meet the following specifications: $V_0=5V$, $I_0=100mA$, $V_{in}=15(+20\% \text{ or } -20\%)$, $I_{sc}=150 \text{ mA}$, $V_{sense}=0.7V$.	C213.5	U
or			
15	Draw circuit diagram of IC 723 based positive voltage regulator, to give 12 V at 500 mA output. Incorporate short circuit protection limit circuit to operate at 600 mA. Find all resistor values, calculate their wattage and specify the type of resistors.	C213.5	AZ



Saranathan College of Engineering
Tiruchirapalli

IA Test - II		Date/Session	24.04.2021	Marks	50
Course code	EE8451	Course Title	Linear Integrated Circuits and application		
Batch No.		Duration	90 mins	Academic Year	2020- 2021
Year/	II	Semester/ Sec	IV	Department	ICE

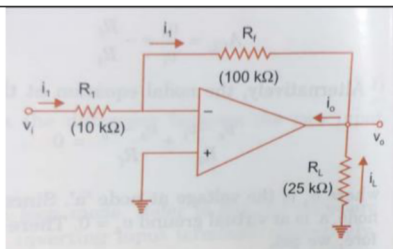
Part – A

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

Q. No.	Questions	CO	Skills
1	A 100 pF capacitor has maximum charging current of 100 micro ampere. Calculate in slew rate.	C213.2	E
2	Design an adder circuit using an op-amp to get the output expression as $V_0 = -(0.1 V_1 + V_2 + 10V_3)$ where V_1, V_2 & V_3 are the inputs	C213.3	E
3	The basic step of a 9 bit DAC is 10.3 mV. If 000000000 represents 0V, what output is produced if the input is 101101111?	C213.3	AZ
4	A square wave of peak to peak amplitude of 500 mv has to be amplified to peak to peak amplitude of 3 volts, with a rise time of 4 micro seconds or less. Can a 741 be used?	C213.2	AZ
5	Design an amplifier with a gain of -10 and input resistance equal to 10 K Ω	C213.2	A

Part – B

(Answer all the questions 5 x 8 = 40marks)

Q. No.	Questions	CO	Skills
6	a) Design an op-amp differentiator that will differentiate an input signal with $f_{max} = 100\text{Hz}$ b) Draw the output waveform for a sine wave of 1V peak at 100Hz applied to the differentiator. c) Repeat part (b) for a square wave input	C213.2	R
or			
7	 $V_i = 1\text{V}$, Calculate (i) i_1 (ii) V_o (iii) i_L (iv) total current i_0 into the out pin	C213.2	E
8	Consider the lossy integrator for the component values $R_1 = 10\text{ K}\Omega$, $R_F = 100\text{ K}\Omega$, $C_F = 10\text{ nF}$, determine the lower frequency limit of integration and study the response for the inputs (i) Sine wave, (ii) Step input (iii) Square wave	C213.2	R,U
or			
9	Explain in detail about AC characteristics of op-amp	C213.2	R
10	Design and explain in detail about transducer with instrumentation amplifier using op-amp and derive its output voltage equation	C213.3	A
or			
11	a) Calculate the value of the LSB,MSB and full scale output for 8-bit DAC for the 0 to 10 V b) What output voltage would be produced by a D/A converter whose output range is 0 to 10 V and whose input binary number is (i) 10 (for a 2 bit DAC) (ii) 0110 (for 4 bit DAC) (iii) 10111100 (for a 8 bit DAC)	C213.3	AZ
12	How Dual slope ADC provides noise rejection, explain in details	C213.3	A

13	Why is an inverted R-2R ladder network DAC better than R-2R ladder DAC? Explain in detail	C213.3	AZ
14	Where it is use the positive and negative Clippers and explain in details	C213.3	U
or			
15	Draw a sample and hold circuit. Explain its operation and indicate its uses.	C213.3	AZ



Internal Assessment Test - II			Date/Session	27/4/2021/FN	Marks	50
Course code	MA8491	Course Title	NUMERICAL METHODS			
Batch No.		Duration	90 mins	Academic Year	2020 - 2021	
Year/	II	Semester/ Section	IV	Department	EEE,CIVIL,ICE	

Tiruchirapalli

Part – A

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

Q. No.	Questions	CO	Skills
1	Find the divided difference of for the arguments 1, 3, 6, 11	CO2	R
2	What are the end conditions on $M_i(x)$ in natural cubic splines?	CO2	U
3	When Newton's backward interpolation formula is used?	CO2	R
4	How the accuracy can be increased in trapezoidal rule of evaluating a given definite integral?	CO3	R
5	If the range is not (-1,1), then what is the idea to solve the Gaussian quadrature problems?	CO3	U

Part – B

(Answer all the questions 5 x 8 = 40marks) Maximum 2 splits/Question

Q. No.	Questions	CO	Skills														
6	Find f(x) as a polynomial in x for the following data by Newton's divided difference formula and also find f(3) <table><tr><td>x</td><td>- 4</td><td>- 1</td><td>0</td><td>2</td><td>5</td></tr><tr><td>f(x)</td><td>1245</td><td>33</td><td>5</td><td>9</td><td>1335</td></tr></table>	x	- 4	- 1	0	2	5	f(x)	1245	33	5	9	1335	CO2	U		
x	- 4	- 1	0	2	5												
f(x)	1245	33	5	9	1335												
(or)																	
7	From the following table, find by Newton's Forward interpolation formula <table><tr><td>x</td><td>45</td><td>46</td><td>47</td><td>48</td><td>49</td><td>50</td></tr><tr><td>Tan x</td><td>1.00000</td><td>1.03553</td><td>1.07237</td><td>1.11061</td><td>1.15037</td><td>1.19175</td></tr></table>	x	45	46	47	48	49	50	Tan x	1.00000	1.03553	1.07237	1.11061	1.15037	1.19175	CO2	U
x	45	46	47	48	49	50											
Tan x	1.00000	1.03553	1.07237	1.11061	1.15037	1.19175											
(or)																	
8.	If f(0) = 1, f(1) = 2, f(2) = 33, f(3) = 244 , find a cubic spline approximation, assuming M(0) = M(3) = 0	CO2	U														
(or)																	
9.	From the following table, compute y(1.5), y'(1) using cubic spline <table><tr><td>x</td><td>1</td><td>2</td><td>3</td></tr><tr><td>y</td><td>- 8</td><td>- 1</td><td>18</td></tr></table>	x	1	2	3	y	- 8	- 1	18	CO2	U						
x	1	2	3														
y	- 8	- 1	18														
10 i.	Find the first, second and third derivatives of f(x) at x = 1.5 if <table><tr><td>x</td><td>1.5</td><td>2.0</td><td>2.5</td><td>3.0</td><td>3.5</td><td>4.0</td></tr><tr><td>f(x)</td><td>3.375</td><td>7.000</td><td>13.625</td><td>24.000</td><td>38.875</td><td>59.000</td></tr></table>	x	1.5	2.0	2.5	3.0	3.5	4.0	f(x)	3.375	7.000	13.625	24.000	38.875	59.000	CO3	U
x	1.5	2.0	2.5	3.0	3.5	4.0											
f(x)	3.375	7.000	13.625	24.000	38.875	59.000											

10 ii	Evaluate by Trapezoidal rule.																		
	(or)																		
11.	Find the maximum and minimum value of y from the following <table><tr><td>x</td><td>- 2</td><td>- 1</td><td>0</td><td>1</td><td>2</td><td>3</td><td>4</td></tr><tr><td>y</td><td>2</td><td>- 0.25</td><td>0</td><td>- 0.25</td><td>2</td><td>15.75</td><td>56</td></tr></table>	x	- 2	- 1	0	1	2	3	4	y	2	- 0.25	0	- 0.25	2	15.75	56	CO3	U
x	- 2	- 1	0	1	2	3	4												
y	2	- 0.25	0	- 0.25	2	15.75	56												
12.	Evaluate by using Romberg's method correct to 4 decimal places and hence deduce an approximate value of .	CO3	U																
	(or)																		
13 i	Evaluate by Gaussian two point formula.	CO3	U																
13 ii	The velocity v of a particle at a distance s from a point on its path is given by the table below <table><tr><td>s m</td><td>0</td><td>10</td><td>20</td><td>30</td><td>40</td><td>50</td><td>60</td></tr><tr><td>v m/sec</td><td>47</td><td>58</td><td>64</td><td>65</td><td>61</td><td>52</td><td>38</td></tr></table>	s m	0	10	20	30	40	50	60	v m/sec	47	58	64	65	61	52	38		
s m	0	10	20	30	40	50	60												
v m/sec	47	58	64	65	61	52	38												
14	Find by Gaussian 3 point formula.	CO3	U																
	(or)																		
15	Evaluate using i)Trapezoidal rule ii) Simpson's rule	CO3	U																

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 - III			Date/Session	17/5/2021/FN	Marks	50
Course code	MA8491	Course Title	NUMERICAL METHODS			
Batch No.		Duration	90 mins	Academic Year	2020 - 2021	
Year/	II	Semester/Section	IV	Department	EEE,CIVIL,ICE	

Part – A

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

Q. No.	Questions	CO	Skills
1.	Which is better Taylor's method or Runge - Kutta Method. Why?	CO4	U
2.	Write the Runge- Kutta algorithm of fourth order.	CO4	R
3.	Using Modified Euler's method, compute $y(0.1)$ from $y' = y - \frac{2x}{y}$, given $y(0) = 1$	CO4	E
4.	Using Euler method find $y(0.3)$ if $\frac{dy}{dx} = \frac{1}{2} (x^2 + 1) y^2$ and $y(0.2) = 1.1114$	CO4	E
5.	Write the error in Milne's predictor and corrector formula	CO5	R
6.	What are the multi-step methods? Give reason.	CO5	U
7.	Write down Adam's Bashforth predictor and corrector formula	CO5	R
8.	Write down the explicit and implicit formula to solve one dimensional heat equation.	CO6	R
9.	Classify the partial differential equation, $u_{xx} + 4u_{xy} + (x^2 + 4y^2)u_{yy} = \sin(x + y)$.	CO6	U
10.	Write down the explicit formula for the solution of one dimensional wave equation.	CO6	R

Part – B

(Answer all the questions 3 x 10 = 30marks)

Q. No.	Questions	CO	Skills
11.	Given $\frac{dy}{dx} = x^2y - 1$ and $y(0) = 1$. Find the value of $y(0.1)$, $y(0.2)$, $y(0.3)$ by using Taylor's series method.	CO4	U
(or)			
12.	Use Runge –Kutta method of fourth order, when $x = 0.1, 0.2, 0.3$, $h = 0.1$ given $x=0$ when $y=1$ and $\frac{dy}{dx} = x + y$.	CO4	U

13.	Determine the value of $y(0.8)$ using Milne's predictor and corrector method, given $y' = y - x^2$, $y(0) = 1$, $y(0.2) = 1.12186$, using Taylor series method to get the values of $y(0.4)$ and $y(0.6)$.	CO5	U
	(or)		
14.	Using Adam's Bashforth method, find $y(4.4)$ given $5xy' + y^2 = 2$; $y(4) = 1$, $y(4.1) = 1.0049$, using Euler's method to get the values of $y(4.2)$ and $y(4.3)$.	CO5	U
15.	i) Using finite difference method, solve $y'' - 64y + 10 = 0$, $x \in (0, 1)$ given $y(0) = y(1) = 0$, subdividing the interval into 4 equal parts. ii) Solve $u_{tt} = 4u_{xx}$ with boundary conditions $u(0, t) = 0 = u(4, t)$, $u_t(x, 0) = 0$ and $u(x, 0) = x(4 - x)$ taking $h=1$ (upto $t=4$).	CO6	U
	(or)		
16.	i) Using finite difference method, find $y(0.25)$, $y(0.5)$ and $y(0.75)$ satisfying the differential equation $\frac{d^2y}{dx^2} + y + 1 = 0$ subject to condition $y(0) = 0$, $y(1) = 0$. ii) Using Crank-Nicholson's scheme, Solve $u_t = u_{xx}$, $0 < x < 5$, $t > 0$, given $u(x, 0) = 20$, $u(0, t) = 0$, $u(5, t) = 100$ and $\Delta x = 1$ Compute u for 2 time step.	CO6	U

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	12.09.2020	Marks	50
Course code	EI8351	Course Title	ELECTRICAL MEASUREMENTS			
Batch No.		Duration	90 mins	Academic Year	2020-2021/ODD	
Year	II	Semester	III	Department	ICE	

Part – A (20 Marks)

I. Choose the correct Answer for the following Questions

(10x1=10 Marks)

Q. No.	Questions	CO	Skills
1.(a)	Which one of the following statement correct for measuring sensitivity of the instruments? 1. Ratio of current flowing through the coil and change in deflection of the galvanometer. 2. Ratio of change in deflection of the galvanometer to current flowing through the coil. 3. C. Ratio of current flowing through the coil and deflection of the galvanometer. 4. d. None of the above.	C204.1	U
1.(b)	Equation which represents equilibrium condition of galvanometer. 1. $k\theta = nIAB$ 2. $F=BIl$ 3. $nAB=KI$ 4. All the above		R
2.(a)	Ballistic galvanometer are principally used for the measurement of 1. Current 2. Voltage 3. Power 4. Electric charges	C204.1	R
2.(b)	The advantages of moving coil permanent magnet type instrument are 1. Low power consumption 2. No hysteresis loss 3. Efficiency eddy current damping 4. All of the above		U
3.(a)	In phantom loading arrangement, energy consumption in the calibration test of wattmeter is reduced because of 1. The separate application of low voltage supply across the current coil 2. The reduced loss in current coil and pressure coil 3. The absence of load in the test set. 4. The separate application of low voltage supply across the current coil.	C204.2	U
3.(b)	In the measurement of power in a balanced 3-phase circuit by two-wattmeter method if the two wattmeters show equal reading then the power factor of the circuit is 1. Zero 2. Unity 3. 0.8 lagging 4. 0.8 Leading		R
4.(a)	The household energy meter is 1. Recording Instrument 2. Indicating Instruments 3. Integrating Instruments	C204.2	U

	4. None of these		
4.(b)	Dynamometer type instruments scale is non-linear scale. 1. True 2. False		U
5.(a)	Which one of the following types of instruments does suffer from error due to magnetic Hysteresis? 1. Induction Type 2. Electrodynamic 3. Moving Iron 4. PMMC	C204.1	U
5.(b)	Which of the type of damping is useful for Moving iron instruments? 1. Eddy current damping 2. Fluid friction damping 3. Air friction damping 4. No damping.		R

II. Answer all the Questions

(5x2=10 Marks)

Q. No.	Questions	CO	Skills
6	List out advantages and disadvantages of PMMC Instruments.	C204.1	R
7	What happened when an ammeter is connected across the circuits?	C204.1	U
8	Why dynamometer type wattmeters are most suitable as transfer instruments?	C204.1	U
9	Why the errors are large when the power factor is low in electro-dynamometer wattmeter?	C204.2	U
10	What is meant by phantom loading?	C204.2	R

Part – B

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

Q. No.	Questions	CO	Skills
11	Describe the constructional details and operation of a D'Arsonval galvanometer. Derive the expression of steady state deflection.	C204.1	R & U
Or			
12	Explain the operation of thermocouple instruments. Draw neat diagram to illustrate the working of i) Contact type ii) Bridge type thermo-elements.	C204.1	U
Or			
13	Describe the constructional details of an electro-dynamometer type wattmeter. Derive the expression for torque when the instrument is used on a.c.	C204.2	R
Or			
14	Describe the construction and operation of Low power factor meter.	C204.2	R

Part – C

(Answer all the questions 1 x 10 = 10marks)

Q.No.	Questions	CO	Skills
15	a) Determine the displacement constant of a suspended coil in a galvanometer of a moving coil vibrating type having 25 turns, 4mm x 2mm mean area and situated in a magnetic field of 0.7T. (2 Marks) b) Comparison of moving iron, moving coil, thermal, electrostatic, induction, rectifier. (8 marks)	C204.1	E & C
Or			
16	Explain the working of attraction and repulsion type of moving iron instruments with help of neat diagram.	C204.1	R

Name of the Faculty In-charge: **P. Aravind/ AP/ICE**



Saranathan College of Engineering

Tiruchirappalli - 620012

Internal Assessment Test - II			Date/Session	06.10.2020	Marks	50
Course code	EI8351	Course Title	ELECTRICAL MEASUREMENTS			
Batch No.		Duration	90 mins	Academic Year	2020-2021/ODD	
Year	II	Semester	III	Department	ICE	

Part – A (20 Marks)

I. Choose the correct Answer for the following Questions

(10x1=10 Marks)

Q. No.	Questions	CO	Skills
1.(a)	If the magnetic circuit is not symmetrical there produce a driving torque, due to which meter creep. (True or False)	C204.2	U
1.(b)	When induction watt hour meter is connected in the circuit to measure _____. (power or energy or torque)		R
2.(a)	The speed of the energy meter can be adjusted to desired value by changing _____ of the brake magnet.(position or disc supply)	C204.2	R
2.(b)	When potential coil is excited but with no current flowing in the load this is called _____(fatigue or creeping or Temperature error or Frictional error)		U
3.(a)	A potentiometer is also known as _____ or _____.	C204.3	U
3.(b)	The process of adjusting the working current so as to match the voltage drop across a portion of sliding wire against a standard reference source is known as _____.		R
4.(a)	In slide wire potentiometer, what type of material is used to get high stability _____ (Platinum, silver, copper, gold, none of these)	C204.3	U
4.(b)	Types of AC potentiometer 1. _____, 2. _____		U
5.(a)	The secondary winding of which of the following listed transformers is always kept closed? a) Step-up transformer b) Step-down transformer c) Potential transformer d) Current transformer	C204.3	U
5.(b)	The secondary of a current transformer is always kept short-circuited while operating because it _____ a) avoids core saturation and high voltage induction b) is safe to human beings c) protects the primary circuit d) to keep temperature within limits		R

II. Answer all the Questions

(5x2=10 Marks)

Q. No.	Questions	CO	Skills
6	Define Creeping. State why the holes are provided in aluminum disc.	C204.2	R&U
7	List out the errors caused in dynamometer type wattmeter.	C204.2	R
8	What is difference between ac and dc potentiometer working principle?	C204.3	U
9	Define nominal Ratio of CT and Turn Ratio of PT.	C204.3	U
10	List the errors introduced by current transformer?	C204.3	R

Part – B

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

Q. No.	Questions	CO	Skills
11	Explain the construction & working of induction type kilowatt hour meter.	C204.2	R & U
Or			
12	Explain various Errors and adjustments in single phase induction type energy	C204.2	U

	meter.		
13	Draw the equivalent circuit and phasor diagram of a current transformer. Derive the expression for its ratio and phase angle.	C204.3	R
Or			
14	Explain the term standardization of a potentiometer. Describe the procedure of standardization.	C204.3	R&A

Part – C

(Answer all the questions 1 x 10 = 10marks)

Q.No.	Questions	CO	Skills
15	A basic slide wire potentiometer has a working battery voltage of 6V with negligible internal resistance. The resistance of slide wire is 800 ohm and its length is 200cm. A 200cm scale is placed along the slide wire. The slide wire has 1mm scale divisions and it is possible to read upto 1/5 of a division. The instrument is standardized with 1.0818V standard cell sliding contact at the 101.8cm mark on scale. Calculate. A. Working current B. The resistance of series rheostat C. The measurement of range D. The resolution of the instrument	C204.3	E & C
Or			
16	Explain with suitable diagram, how the a.c. potentiometers can be used for calibration of voltmeter, ammeters and wattmeter and energy meter and measurement of reactance of coil.	C204.3	R&A

Name of the Faculty In-charge: **P. Aravind/ AP/ICE**



Internal Assessment Test - III			Date/Session	03.11.2020	Marks	50
Course code	EI8351	Course Title	ELECTRICAL MEASUREMENTS			
Batch No.		Duration	90 mins	Academic Year	2020-2021/ODD	
Year	II	Semester	III	Department	ICE	

Part – A (20 Marks)

I. Choose the correct Answer for the following Questions

(10x1=10 Marks)

Q. No.	Questions	CO	Skills
1.(a)	Given a Wheatstone-bridge with external voltage V, Resistance Bridge with resistances P, Q, R, S, and galvanometer G. What is the balancing condition of bridge? a) $\frac{P}{Q} = \frac{S}{R}$ b) $\frac{P}{S} = \frac{R}{Q}$ c) $P = \frac{R}{Q}$ d) $S = \frac{R}{Q}$	C204.5	U
1.(b)	Which of the following can be measured using a Wheatstone bridge? a) Resistance only b) Capacitance only c) Inductance only d) Resistance, capacitance, inductance, impedance		R
2.(a)	Which of the following device is used with 4 terminal resistors? a) Wheatstone bridge b) Hay bridge c) Wien bridge d) Kelvin bridge	C204.5	R
2.(b)	Why 4 terminal resistors are used? a) For protection b) To overcome parasitic resistances c) To increase current flow d) None of the mentioned		U
3.(a)	Accuracy in a bridge measurement depends on _____ a) Sensitivity of detector b) Applied voltage c) Both Sensitivity and applied voltage d) Accuracy of indicator	C204.5	U
3.(b)	The supply to the megger is given by _____ a) ac motor b) ac generator		R

	c) permanent magnet dc motor d) dc generator		
4.(a)	At high frequency, source consists of _____ a) amplifiers b) regulators c) oscillators d) op amps	C204.6	U
4.(b)	Vibration galvanometers are used for _____ a) very high frequency b) very low frequency c) low audio frequency d) high audio frequency		U
5.(a)	AC bridge is an outcome of _____ a) Kelvin bridge b) Megger c) De Sauty bridge d) Wheatstone bridge	C204.6	U
5.(b)	Tuned detectors are used in the frequency range of _____ a) 1 Hz to 100 Hz b) 10 Hz to 100 Hz c) 1 kHz to 100 kHz d) 1 MHz to 100 MHz		R

II. Answer all the Questions

(5x2=10 Marks)

Q. No.	Questions	CO	Skills
6	What are the factors considered for measurement of medium resistance?	C204.5	R&U
7	How resistance is measured in loss of charge method.	C204.5	R
8	What are the difficulties encountered in the measurement of high resistances?	C204.5	U
9	List the two disadvantages of Anderson's Bridge.	C204.6	U
10	Name the sources of errors in AC bridges.	C204.6	R

Part – B

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

(Answer all the questions 2 x 10 = 20 marks)			
Q. No.	Questions	CO	Skills
11	Explain working and obtain the expression for kelvin double bridge method of measurement of resistance with advantages and disadvantages.	C204.5	R & U
Or			
12	Describe the construction and working of Megger with suitable diagram. List advantages, disadvantages and Applications.	C204.5	U
13	Derive the equations for balance in the case of maxwell's inductance capacitance bridge. Draw the phasor diagram for balance condition	C204.6	R
Or			
14	Explain Anderson Bridge and obtain expression for unknown inductance	C204.6	R&A

Part – C

(Answer all the questions 1 x 10 = 10marks)

(Answer all the questions 2x10 = 20marks)			
Q.No.	Questions	CO	Skills
15	What is wein bridge? What are its uses? Explain how wein bridge can be used to determine the frequency in terms of values of various elements.	C204.6	R & U
Or			
16	Explain the measurement of Capacitance by Schering bridge and obtain the expression. List its advantages and disadvantages.	C204.6	R&A

Name of the Faculty In-charge: **P. Aravind/ AP/ICE**



Saranathan College of Engineering
Tiruchirapalli

Internal Assessment Test - III			Date/ Session	22.05.2021	Marks	50
Course code	IC8651	Course Title	ADVANCED CONTROL SYSTEM			
Batch No.		Duration	90 mins	Academic Year	2020-2021	
Year/	III	Semester/ Section	VI/A	Department	ICE	

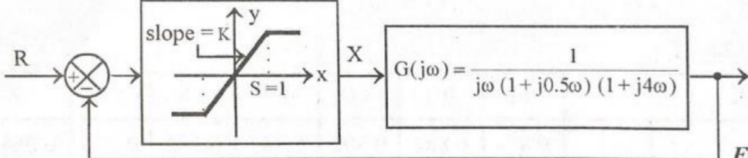
Part – A

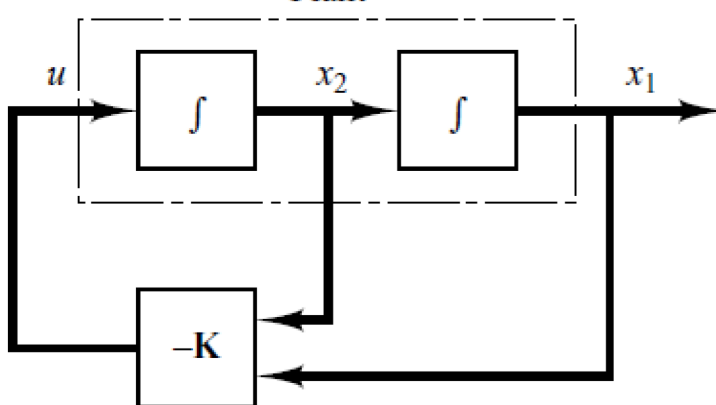
(Answer all the questions 5 x 2 = 10 marks)

Q. No.	Questions	CO	Skills
1	Explain the principle that differentiates linear and nonlinear systems	309.4	R
2	Comment on the output of the system with dead zone non linearity and draw its graphical representation	309.4	U
3	Response of the system is $y = 3x + 2(dx/dt)$. Test whether the system is linear or nonlinear	309.4	AZ
4	Define static and dynamic optimization	309.5	R
5	Give the expression of Performance Index for General Optimal Control System for non-linear systems	309.5	R

Part – B

(Answer all the questions 5 x 8 = 40 marks)

Q. No.	Questions	CO	Skills
6a	derive the describing function of saturation nonlinearity	309.4	U, R
OR			
6b	Derive the general expression of describing function	309.4	U, R
7a	Explain the concept behind stability of nonlinear systems using limit cycles and check whether $y = 8x^2 - e^{-8x}$ is linear or nonlinear	309.4	U, AZ
OR			
7b	Consider a unity feedback system shown in fig 2.3.1 having a saturating amplifier with gain K. Determine the maximum value of K for the system to stay stable. What would be the frequency and nature of limit cycle for a gain of K = 2.5?  Fig 2.3.1.	309.4	AZ, E
8a	A linear second order servo is described by the equation $\ddot{e} + 2\zeta\omega_n \dot{e} + \omega_n^2 e = 0$ where $\zeta = 0.15$, $\omega_n = 1$ rad/sec, $e(0) = 1.5$ and $\dot{e}(0) = 0$. Determine the singular point. Construct the phase trajectory, using the method of isoclines.	309.4	AZ, E

OR			
8b	Construct a phase trajectory by delta method for a nonlinear system represented by the differential equation, $\ddot{x} + 4 \dot{x} + 4x = 0$. Choose the initial conditions as $x(0) = 1.0$ and $\dot{x}(0) = 0$.	309.4	AZ, E
9a	Derive the stability expression of Lyapunov Equation	309.5	R
OR			
9b	Explain in detail the formulation of optimal control problem	309.5	R, U
10a	Consider the system shown in the figure Plant  Assume that the control signal to be $u(t) = -kx(t)$. determine the optimal feedback gain matrix $\mathbf{K}$ such that the following performance index is minimized $J = \int_0^{\infty} (\mathbf{x}^T \mathbf{Q} \mathbf{x} + u^2) dt$ Where, $\mathbf{Q} = \begin{bmatrix} 1 & 0 \\ 0 & \mu \end{bmatrix} \quad (\mu \geq 0)$ $\mathbf{R} = [1]$ The state equation of the plant is, $\dot{\mathbf{X}} = \mathbf{A}\mathbf{x} + \mathbf{B}u;$ $\mathbf{A} = \begin{bmatrix} 0 & 1 \\ 0 & 0 \end{bmatrix}, \quad \mathbf{B} = \begin{bmatrix} 0 \\ 1 \end{bmatrix}$	309.5	AZ, E
OR			
10b	Study the stability of the given system using Lyapunov Theorem $\dot{X}_1 = X_2 - X_1(X_1^2 + X_2^2)$ $\dot{X}_2 = -X_1 - X_2(X_1^2 + X_2^2)$	309.5	AZ, E



Saranathan College of Engineering

Tiruchirappalli – 620012

Internal Assessment Test – III			Date/Session	21.05.2021	Marks	50
Course code	EE8071	Course Title	APPLIED SOFT COMPUTING			
Batch No.		Duration	90mins	Academic Year	2020-2021/EVEN	
Year	III	Semester	VI	Department	ICE	

Part – A

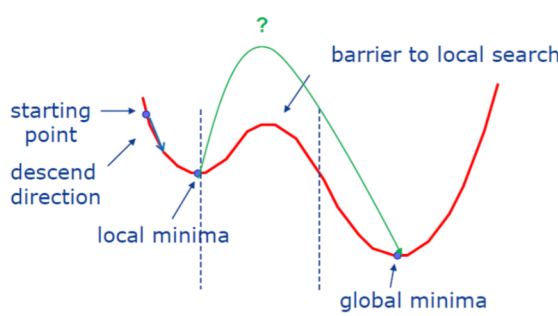
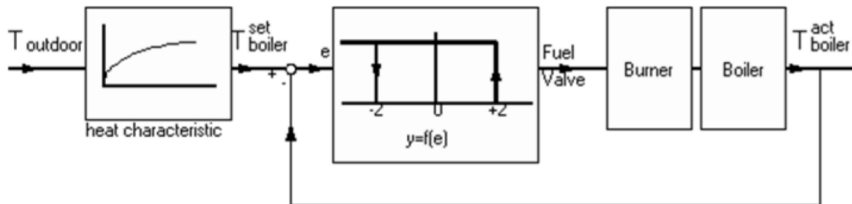
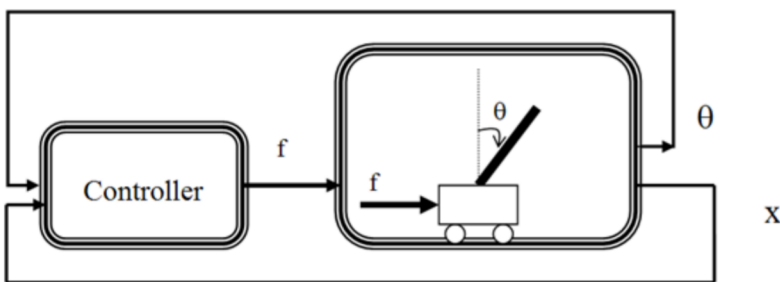
(Answer all the questions 5 x 2 = 10marks)

Q. No.	Questions	CO	Skills
1	In what way is the Fuzzy PID control operation is better than the traditional PID control operation?	C314-23.4	A
2	Why is the error value used as an input signal for the fuzzy based inverted pendulum model?	C314-23.4	A
3	Identify this process which relate to GA, Explain about the same $s_1 = 1110110101$ $s_1' = 1110100101$	C314-23.5	E
4	GA operates on the principle of survival of the fittest. Justify the statement.	C314-23.5	A
5	If the population size in the genetic algorithm is restricted to 1. What search algorithm does it belongs to?	C314-23.5	A

Part – B

(Answer all the questions 5 x 8 = 40marks)

Q. No.	Questions	CO	Skills
6 A	To overcome the Peak overshoot from the conventional controller shown in the system, design a controller which employs IF-THEN rules.	C314-23.4	AZ
(OR)			
6 B	Design and conduct a simulation of the final descend and landing approach of an aircraft. Analyze about the parameters for at least four cycles.	C314-23.4	AZ
7 A	Let $A = \{(x_1, 0.2), (x_2, 0.7), (x_3, 0.4)\}$ and $B = \{(y_1, 0.5), (y_2, 0.6)\}$ be two fuzzy sets defined on the universe of discourse $X = \{x_1, x_2, x_3\}$ and $Y = \{y_1, y_2\}$ respectively. Find Cartesian product of A and B, union, intersection of A and B, algebraic sum of A and B and algebraic product of A and B.	C314-23.4	E
(OR)			
7 B	Design the stability criteria of FLC for the rotating device. What will be the input and output in a FLC?	C314-23.4	R, A

8 A	Analyze the figure and discuss the Search technique to overcome this local minima problem 	C314-23.5	AZ
(OR)			
8 B	Let the fitness f of bit string x with length 4 be the integer represented by the binary number x. Assume that the current Population is: 1010, 1000, 0100, 0110, 1100. Is it possible for a GA to generate an individual with the maximum fitness without using mutation, but only single point crossover? If so, give an example. If mutation has a rate other than 0, could the GA Possibly generate the fittest individual? Give an example.	C314-23.5	E
9 A	An airline company operates. 3 planes and employs 5 cabin crews. Only one crew can operate on any plane on a single day and each crew cannot work for more than two days in a row. The company uses all planes every day. Propose a suitable chromosome structure, fitness function and generalize to n planes and m crews. Explain application of genetic algorithm in this application.	C314-23.5	E
(OR)			
9 B	Examine the steps involved in designing simple GA by examining the population of binary strings, control parameters, fitness function, genetic operators, and selection mechanism with encoding.	C314-23.5	U, A
10 A	Determine the set boiler temperature based on a knowledge-based evaluation of existing sensor data for the system given below: 	C314-23.4	AZ
(OR)			
10 B	Design the fuzzy logic control for the problem represented in the figure 	C314-23.4	A



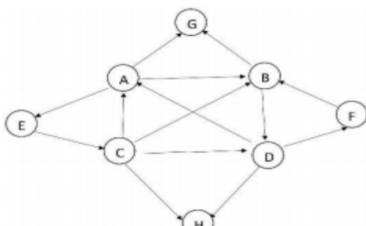
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Tiruchirappalli - 620012

Internal Assessment Test - III			Date/Session	20.05.21 / AN	Marks	50
Course code	CS8391	Course Title	DATA STRUCTURES			
Batch No.		Duration	90 mins	Academic Year	2020-2021/EVEN	
Year	III	Semester	VI	Department	ICE	

Part – A (20 Marks)

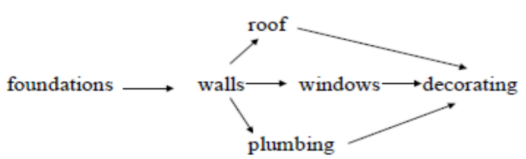
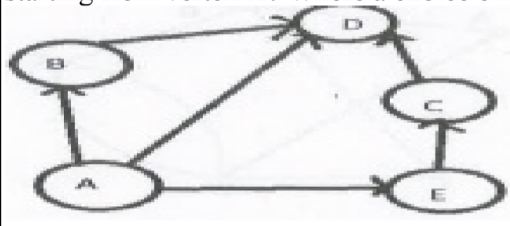
(Answer all the questions 5 x 2 = 10marks)

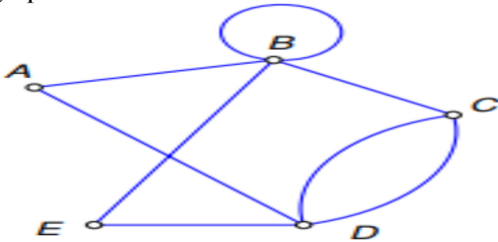
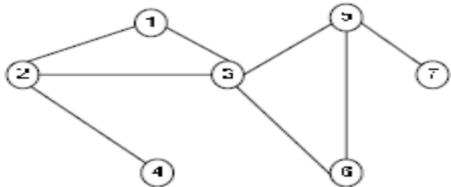
(10x1=10 Marks)

Q. No.	Questions	CO	Skills
1.	Define the following terminologies: graph, undirected, weighted graph, strongly connected, DAG, Cyclic.	C203.5	U
2.	What is binary heap? State the properties of binary heap.	C203.4	R
3.	What is meant by digraph? Define indegree and outdegree of the graph with examples.	C203.5	R
4.	Consider the graph given below. Create the adjacency matrix of it 	C203.5	C
5.	When do you perform rehashing? Illustrate with an example.	C203.6	U

Part – B

(Answer all the questions 5 x 8 = 40marks)

Q. No.	Questions	CO	Skills
11	Construct B Tree to insert the following key elements (order of the tree is 5) 3, 7, 9, 23, 45, 1, 5, 14, 25, 24, 13, 11, 8, 19, 4, 31, 35, 56	C203.4	C
Or			
12	Show the result of inserting 15, 17, 6, 19, 11, 10, 13, 20, 8, 14, 12 one at a time into an initially empty binary min heap. And Show the result of performing three delete min operations in the final binary min heap obtained.	C203.4	C
13	Consider the given directed acyclic graph. Sort the nodes by applying topological sort 	C203.5	A
or			
14	Explain about Topological sort with suitable example.	C203.5	R
15	Differentiate depth-first search and breadth-first search traversal of a graph with suitable examples	C203.5	C
or			
16	From the given figure, in what order are the vertices visited using DFS and BFS starting from vertex A? Where a choice exists use alphabetical order. 	C203.5	A
17	i) Sort the given integers and Explain the intermediate results using shell sort: 35, 12, 14, 9, 15, 45, 32, 95, 40, 5. ii) Sort the sequence 3, 1, 4, 1, 5, 9, 2, 6, 5 using Insertion sort and	C203.6	C

	Describe the routine for insertion sort.		
or			
18	i) Define Euler's Circuit & Path. Find an Euler path or Euler circuit for the following graph.  ii) Define articulation point & bi-connectivity? Find the number of articulation points for the following graph. 	C203.6	E
19	Consider a hash table with 9 slots. The hash function is $h(k)=k \bmod 9$. The following keys are inserted in the order 5, 28, 19, 15, 20, 33, 12, 17, 10. Draw the content of the hash table when the collisions are resolved by - Chaining - Linear Probing - Double Hashing. The second hash function $h_2(x)=7-(x \bmod 7)$	C203.6	C
or			
20	Given the input {4371, 1323, 6173, 4199, 4344, 9679, 1989, 2073, 3044, 3053} and a hash function of $h(X)=X \bmod 10$ show the resulting - Separate Chaining hash table - Open Addressing hash table	C203.6	E

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 - III			Date/ Session	17.05.2021/FN	Marks	50
Course code	EE8072	Course Title	MEMS AND NANO SCIENCE			
Batch No.		Duration	90 mins	Academic Year	2020 - 2021	
Year/	IV	Semester/	VIII	Department	ICE	

Part – A (20 Marks)

I. Answer all the Questions

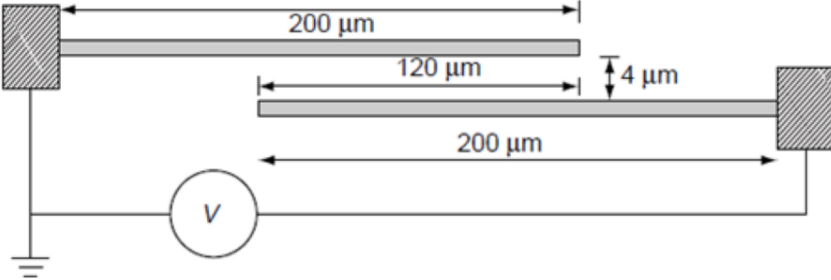
(5x2=10 Marks)

Q. No.	Questions	CO	Skills
1	Find the intercepts with the x, y, z axes: 1, -1, 1 (in units of a)	C410-E64.5	A
2	A plane makes intercepts 1, 5 and 7 at x-, y- and z- axes respectively. Which of the following will be the equation of the mentioned plane?	C410-E64.5	A
3	Mention the correct order in fabricating a piezo resistive pressure sensor. 1) Implanting boron for the piezo resistors. 2) Connecting the resistors to form a Wheatstone bridge. 3) Anisotropic etching of silicon to obtain the membrane. 4) Bond bottom wafer to obtain the pressure port.	C410-E64.5	U
4	The order of binding strength of different planes of silicon is $111 > 110 > 100$. Justify the above statement	C410-E64.4	U
5	What is the angle between a [110] direction and a (110) plane?	C410-E64.4	A

Part – B

(Answer all the questions 5x8 = 40marks)

Q. No.	Questions	CO	Skills
6	Consider an air-gap capacitor made with two fixed parallel planar plates. At rest (zero bias), the distance between two parallel plates is $x_0 = 100 \mu\text{m}$ and the areas of plates are $A = 400 * 400 \text{ mm}^2$. The media between the two plates is air. The biasing voltage between $x_0 = 100 \text{ mm}$. these two plates is $V = 5 \text{ Volts}$. Calculate the numerical value of the capacitance and the magnitude of the attractive force (F). What is the capacitance value if half of the area is filled with water (as the inter plate media)?	C410-E64.4	A
or			
7	A parallel-plate capacitor is suspended by two fixed-guided cantilever beams, each with length, width and thickness denoted l, w and t, respectively (Figure 4.7). The material is polysilicon, with a Young's modulus of 120 GPa. ($l = 400 \text{ mm}$, $w = 10 \text{ mm}$, and $t = 1 \text{ mm}$.) The gap x_0 between two plates is $2 \mu\text{m}$. The area of the plate is $400 \mu\text{m}$ by $400 \mu\text{m}$. Calculate the amount of vertical displacement when a voltage of 0.4 volts is applied. Repeat the calculation of displacement for the voltage of 0.2 volts.	C410-E64.4	A
8	Compare the MEMS device capabilities within bulk micromachining, surface micromachining and LIGA fabrication technologies	C410-E64.5	U
Or			
9	The mask shown below is used to create an anisotropically-etched cavity in silicon. The top surface of the wafer is (110). What is the size of the opening at the front surface of the wafer after 1 hour of etching time, taking into account of lateral undercut underneath the original mask? Here, assume that	C410-E64.5	A

	the etch rate in the $\langle 111 \rangle$ direction is finite, at $0.05 \mu\text{m}/\text{min}$, whereas the etch rate in $\langle 100 \rangle$ direction is $1 \mu\text{m}/\text{min}$.		
10	A $\langle 100 \rangle$ silicon wafer is $500 \mu\text{m}$ thick. A mask consists of rectangular window of unknown size. The sides of the window are parallel to $\langle 110 \rangle$. After wafer etching a hole size of $50 \mu\text{m} \times 80 \mu\text{m}$ is formed on the other side of the wafer ($50 \mu\text{m}$ along X axis, and $80 \mu\text{m}$ along Y axis). What will be the size of the mask window, along X axis? The undercut rate is negligible. (inward slope = 54.740°)	C410-E64.5	A
Or			
11	Figure below shows two polysilicon beams of length $200 \mu\text{m}$, width $2 \mu\text{m}$ and out of plane thickness $10 \mu\text{m}$ separated by an in-plane gap of $4 \mu\text{m}$. The beams overlap, as shown in the figure, over a length of $120 \mu\text{m}$. Assume that the Young's modulus is 155 GPa . What is the pull-in voltage for this pair of beams 	C410-E64.5	A
12	List out the various etching process and explain in detail with relevant diagrams.	C410-E64.5	U
Or			
13	Mention fundamental classes of fabrication technologies. Design a typical micromachining process involving one structural and one sacrificial layer.	C410-E64.5	U
14	A square mask opening is used to create a cavity in a silicon wafer. Suppose the thickness of the wafer is $500 \mu\text{m}$ (t) and the window opening is 1 mm (w) on each side. The etch rate on $\langle 100 \rangle$ surface is $2 \mu\text{m}/\text{min}$ (T). Ignoring the etch rate on $\langle 111 \rangle$ surface, calculate the size of opening on the back side of the wafer if etching time is longer than $t/r_{\langle 100 \rangle}$. What would be the thickness of the wafer if it were desired to form a blind cavity with an inverted point instead?	C410-E64.5	A
Or			
15	In CVD process, sticking co-efficient of the deposited material on a substrate is 0.4 . The maximum unobstructed flux is $5 \times 10^{15} \text{ molecules cm}^{-2} \text{ sec}^{-1}$ and density of the deposited oxide film is 2.27 gm cm^{-3} . Find the rate of deposition in CVD of SiO_2 on silicon wafer.	C410-E64.5	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

Name of the Faculty In-charge: K.Ezhilarasi/AP/ICE



Saranathan College of Engineering

Tiruchirapalli

Internal Assessment Test - III			Date/ Session	19.05.2021	Marks	50
Course code	EI8092	Course Title	Thermal Power Plant Instrumentation			
Batch No.		Duration	90 mins	Academic Year	2020-2021	
Year/	III	Semester/ Section	VI	Department	ICE	

Part – A

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

Q. No.	Questions	CO	Skills
1	List the elements used in flow measurement.	C312.4	U
2	What are basic factors to be considered for feed water flow	C312.4	R
3	What are two scales used in power plant for temperature measurement?	C312.4	U
4	List the popular methods of governing.	C312.5	U
5	Classify instrumentation systems for vibration monitoring.	C312.5	AZ

Part – B

(Answer all the questions 5 x 8 = 40 marks)

Q. No.	Questions	CO	Skills
6	Explain in detail types of drum level measurement, with neat diagram	C312.4	U
or			
7	Briefly discuss on steam temperature controls.	C312.4	R
8	With neat diagram, explain distributed control system in power plants	C312.4	U
or			
9	Explain in detail, various types of interlocks in boiler operation	C312.4	AZ
10	Explain boiler feed water processing and control	C312.4	AZ
or			
11	Explain any two types of pressure measuring devices.	C312.4	AZ
12	Explain with neat diagram, vibration measurement	C312.5	AZ
or			
13	Explain the operation and construction of rotor and casing in speed measurement application	C312.5	U
14	Write in Brief about the following: 1) steam pressure control 2) lubricant oil temperature	C312.5	AZ
or			
15	With suitable diagram, discuss shell temperature monitoring and control	C312.5	U



Saranathan College of Engineering

Tiruchirappalli – 620012

Internal Assessment Test - I			Date/ Session	17.03.2021/FN	Marks	30
Course code	EI8091	Course Title	Fundamentals of Nano Science			
Batch No.		Duration	90 mins	Academic Year	2020 - 2021	
Year/	IV	Semester/	VIII	Department	ICE	

Part – A (20 Marks)

I. Choose the correct Answer for the following Questions

(10x1=10 Marks)

Q. No.	Questions	CO	Skills
1.(a)	Where do we obtain the magnified image of the specimen in SEM? a) cathode ray tube b) phosphorescent screen c) anode d) scanning generator	C410-E64.5	R
1.(b)	Which of the following techniques are used in Transmission Electron Microscopy (TEM) for examining cellular structure? a) Negative-Staining b) Shadow Casting c) Ultrathin Sectioning d) Negative-Staining, Shadow Casting, Ultrathin Sectioning, Freeze-Etching		R
2.(a)	The nano materials are used in the light emitted electro luminescence devices. a) True b) False	C410-E64.6	R
2.(b)	Nano particles target the rare _____ causing cells and remove them from blood. a) Tumour b) Fever c) Infection d) Cold		R
3.(a)	_____ is the field in which the nano particles are used with silica coated iron oxide iron oxide. a) Magnetic applications b) Electronics c) Medical diagnosis d) Structural and mechanical materials	C410-E64.6	R
3.(b)	Coating the nano crystals with the ceramics is carried that leads to _____ a) Corrosion b) Corrosion resistant c) Wear and tear d) Soft		R
4.(a)	By nano scale distribution of the _____ in matrix improves the life and performance. a) Carbide b) Tungsten c) Hydrides d) Nitrites	C410-E64.6	R
4.(b)	Fabrics are extensively made out of nano materials like _____ a) Carbon nano tubes b) Fullerenes c) Mega tubes d) Polymers		R

5.(a)	Which of the following is used in electron microscope? a) electron beams b) magnetic fields c) light waves d) electron beams and magnetic fields	C410- E64.5	R
5.(b)	Degree of scattering in transmission electron microscope is a function of a) wavelength of electron beam used b) number of atoms that lie in the electron path c) number and mass of atoms that lie in the electron path d) mass of atoms that lie in the electron path		R

II. Answer all the Questions

(5x2=10 Marks)

Q. No.	Questions	CO	Skills
6	Write the principle of SEM.	C410- E64.5	R
7	Define quantum dots	C410- E64.6	R
8	What are the modes of SPM?	C410- E64.5	R
9	What is mean by clean room?	C410- E64.5	R
10	Define sputtering	C410- E64.5	R

Part – B

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

Q. No.	Questions	CO	Skills
11	Explain in detail about Scanning Electron Microscope with its advantages and disadvantages	C410- E64.5	R
Or			
12	Explain difference between Scanning and Transmission Electron Microscope	C410- E64.5	R
Or			
13	Discuss the working principle and different working modes of AFM and its advantages.	C410- E64.5	R
Or			
14	What is nanoindentation? Explain the steps involved and the applications of Nanoindentation	C410- E64.5	R

Part – C

(Answer all the questions 1 x 10 = 10marks)

Q.No.	Questions	CO	Skills
15	Explain in detail about Targeted Drug Delivery System in detail along with drug vehicle	C410- E64.6	R
Or			
16	What is bioimaging? Explain about nanoprobe and nanosensors	C410- E64.6	R

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

Name of the Faculty In-charge: K.Ezhilarasi/AP/ICE

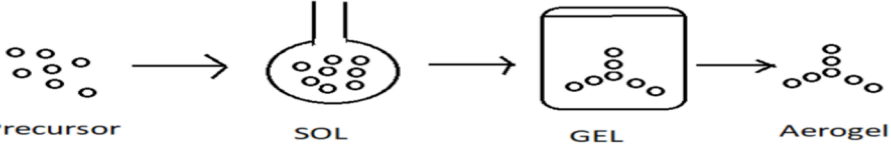


Internal Assessment Test - II			Date/ Session	5.04.2021/FN	Marks	50
Course code	GE8073	Course Title	Fundamentals of Nano Science			
Batch No.		Duration	90 mins	Academic Year	2020 - 2021	
Year/	IV	Semester/	VIII	Department	ICE	

Part – A (20 Marks)

I. Choose the correct Answer for the following Questions

(10x1=10 Marks)

Q. No.	Questions	CO	Skills
1.(a)	What's the procedure in Top-down fabrication method? a) Nano-particles -> Powder -> Bulk b) Powder -> Bulk -> Nano-particles c) Bulk -> Powder -> Nano-particles d) Nano-particle -> Bulk -> Powder	C410-E64.3	R
1.(b)	Which of the following is an example of Bottom Up approach? a) Attrition b) Colloidal dispersion c) Milling d) Etching		R
2.(a)	For milling operations, what kind of environment is preferred? a) Acidic b) Basic c) Active d) Inert	C410-E64.3	R
2.(b)	What kind of metals are used for milling operations? a) Soft and brittle b) Soft and elastic c) Hard and brittle d) Hard and elastic		R
3.(a)	The following flow chart is for which method?  a) Milling b) Attrition c) Patterning d) Microfabrication	C410-E64.3	R
3.(b)	The following is a bottom-up process.  a) True b) False		R

4.(a)	Which property of nanoparticles provides a driving force for diffusion? a) Optical Properties b) High surface area to volume ratio c) Sintering d) There is no such property	C410- E64.4	R
4.(b)	The colour of the nano gold particles is _____ a) Yellow b) Orange c) Red d) Variable		R
5.(a)	Quantum dots can be used in _____ a) Crystallography b) Optoelectronics c) Mechanics d) Quantum physic	C410- E64.4	R
5.(b)	HyFn stands for _____ a) Hydrated Fluorine b) Hydrolysed Fluorine c) Hydrolysed Fullerene d) Hydrated Fullerene		R

II. Answer all the Questions

(5x2=10 Marks)

Q. No.	Questions	CO	Skills
6	Define Sputtering	C410- E64.3	R
7	What is MOMBE?	C410- E64.3	R
8	Define Lithography	C410- E64.4	R
9	Define quantum dots.	C410- E64.4	R
10	Explain briefly about gold nanoparticles.	C410- E64.4	R

Part – B

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

Q. No.	Questions	CO	Skills
11	Explain the fabrication of a nanostructure by atomic layer epitaxy.	C410- E64.3	R
Or			
12	Discuss how its surface microstructure and chemical composition analysis can be done using scanning electron microscope with EDAX.	C410- E64.3	R
Or			
13	Explain any two synthesis methods of carbon nano tube	C410- E64.4	R
Or			
14	Explain in detail about the properties and structure of any two nano metal oxide	C410- E64.4	R

Part – C

(Answer all the questions 1 x 10 = 10marks)

Q.No.	Questions	CO	Skills
15	Write short notes on : a)Quantum dots b)Nano wires c) nano particles d) ultra thin films	C410- E64.4	R
Or			
16	What is carbon nanotube?Explain its type with neat diagram	C410-	R

		E64.4	
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Bloom's Skills: Remember (R), Understand (U), Apply (A), Analyze (AZ), Evaluate (E) and Create (C). Skill need to be mentioned against each question

Name of the Faculty In-charge: K.Ezhilarasi/AP/ICE



Saranathan College of Engineering

Tiruchirappalli – 620012

Internal Assessment Test - III			Date/ Session	15.04.2021/FN	Marks	50
Course code	GE8073	Course Title	Fundamentals of Nano Science			
Batch No.		Duration	90 mins	Academic Year	2020 - 2021	
Year/	IV	Semester/	VIII	Department	ICE	

Part – A (20 Marks)

I. Choose the correct Answer for the following Questions

(10x1=10 Marks)

Q. No.	Questions	CO	Skills
1.(a)	The size of nanoparticles is between ____ nm. [A] 100 to 1000 [B] 0.1 to 10 [C] 1 to 100 [D] 0.01 to 1	C410-E64.1	R
1.(b)	The diameter of hydrogen atom is... [A] 1 [B] 10 [C] 0.1 [D] 0.01		R
2.(a)	Carbon atoms make ____ type of bond with other carbon atoms. [A] covalent [B] ionic [C] metallic [D] hydrogen	C410-E64.1	R
2.(b)	Fullerene or bucky ball is made up of ____ carbon atoms. [A] 100 [B] 20 [C] 75 [D] 60		R
3.(a)	The thermal conductivity of a standard SWNT along its length is ____ watt/(m.K) [A] 3500 [B] 385 [C] 35000 [D] 35	C410-E64.1	R
3.(b)	There is plenty of room at the bottom." This was stated by ____. [A] Eric Drexler [B] Richard Feynmann [C] Harold Croto [D] Richard Smalley		R
4.(a)	Who coined the word 'nanotechnology'? [A] Eric Drexler [B] Richard Feynmann [C] Sumio Tjima [D] Richard Smalley	C410-E64.2	R
4.(b)	What does 'F' stand for in AFM? [A] Fine [B] Front [C] Force [D] Flux		R
5.(a)	What does 'F' stand for in AFM? [A] Fine [B] Front [C] Force [D] Flux	C410-E64.2	R
5.(b)	The thermal stability of a nanotube is seen up to ____ K in air. [A] 100 [B] 1000 [C] 2000 [D] 3100		R

II. Answer all the Questions

(5x2=10 Marks)

11. Answer all the Questions													
Q. No.	Questions	CO	Skills										
6	Match the items in Part A with appropriate alternative in Part B objects	C410-E64.1	R										
	<table><tr><th>PART A</th><th>PART B</th></tr><tr><td>(1) Nanoshell</td><td>(a) 100 nm</td></tr><tr><td>(2) Hydrogen atom</td><td>(b) 2000 nm</td></tr><tr><td>(3) E. Coli bacteria</td><td>(c) 90 nm</td></tr><tr><td>(4) Transistor</td><td>(d) 0.1 nm</td></tr></table>			PART A	PART B	(1) Nanoshell	(a) 100 nm	(2) Hydrogen atom	(b) 2000 nm	(3) E. Coli bacteria	(c) 90 nm	(4) Transistor	(d) 0.1 nm
	PART A			PART B									
	(1) Nanoshell			(a) 100 nm									
	(2) Hydrogen atom			(b) 2000 nm									
	(3) E. Coli bacteria			(c) 90 nm									
(4) Transistor	(d) 0.1 nm												
7	Match the items in Part A with appropriate alternative in Part B objects	C410-	R										

	PART A	PART B	E64.1	
	(1) Biotechnology	(a) Quantum dots		
	(2) Material science	(b) Spintronics		
	(3) Information technology	(c) Gene therapy		
		(d) Swarm robotics		
8	Define sputtering and list its types		C410-E64.2	R
9	What are the objectives of milling?		C410-E64.2	R
10	Illustrate the principle of atomic layer Epitaxy.		C410-E64.2	R

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

Q. No.	Questions	CO	Skills
11	Generalize the effects of length scales involved and effect on properties in nanoparticles	C410-E64.1	R
Or			
12	i)Distinguish the properties and synthesis methods of Nano particles and Quantum dots. (ii)Distinguish the properties and synthesis methods of Nanowires and Nanoparticles	C410-E64.1	R
Or			
13	classify the various nanostructured materials with suitable examples.	C410-E64.1	R
Or			
14	Discuss in detail about the Electronics and optical properties of Nano particles	C410-E64.1	R

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

Q.No.	Questions	CO	Skills
15	Explain in detail about the working principle of mechanical milling process and mention its merits and demerits	C410-E64.2	R
Or			
16	Discuss the role of bottom up and top down approaches in nano technology.	C410-E64.2	R

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

Name of the Faculty In-charge: K.Ezhilarasi/AP/ICE



Saranathan College of Engineering

Tiruchirappalli - 620012

Internal Assessment Test - II			Date/Session	07-04-21	Marks	50
Course code	GE8076	Course Title	Professional Ethics In Engineering			
Batch No.		Duration	90 Minutes	Academic Year	2020- 21/EVEN	
Year	IV	Semester	VIII	Department	ICE	

Part – A (20 Marks)

I. Choose the correct Answer for the following Questions

(10x1=10 Marks)

Q. No.	Questions	CO	Skills
1.(a)	Engineering experimentation is attributed to i. Designing ii. Marketing	C411E 51.3	U
1.(b)	Characteristics of a valid consent should be based _____ and _____		U
2.(a)	Code of conduct can give value for i. Vision and mission of organization ii. Stock ratings of the organization	C411E 51.3	U
2.(b)	Balanced outlook is a relationship between i. Law and ethics ii. Moral and values		U
3.(a)	Negative aspects for maintaining standards i. Reduces choices ii. Increase product price	C411E 51.3	R
3.(b)	Function of code of Ethics are _____ and _____.		R
4.(a)	Safety and risk i. Needs to be balanced ii. Related to cost of production	C411E 51.4	U
4.(b)	Risk increases i. Product production ii. Goodwill		U
5.(a)	Loyalty is i. Obligatory ii. Mandatory	C411E 51.4	R
5.(b)	Collective bargaining is done through i. Gifts to individuals ii. Negotiation		U

II. Answer all the Questions

(5x2=10 Marks)

Q. No.	Questions	CO	Skills
6	What is the need to maintain standards in an organization	C411E 51.3	U
7	Why experimentation is needed in Engineering applications – justify	C411E 51.3	U
8	List the types of standards in an organization	C411E 51.3	R
9	Define confidentiality in an organization,	C411E 51.4	R
10	How to resolve conflict of interest	C411E 51.4	A

Part – B

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

Q. No.	Questions	CO	Skills
11	Explain in detail on the various aspects that are needed for Engineering experimentation , and its advantages for the organization	C411E 51.3	R

Or			
12	Briefly explain on each and very functions related to code of ethics	C411E 51.3	U
13	What are the various aspects of Authority and explain on the same briefly	C411E 51.4	R
Or			
14	What are the justifications and limitations of confidentiality and explain in detail.	C411E 51.4	U

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

Q.No.	Questions	CO	Skills
15	With an aid of suitable case study ,apply on the adverse aspects of occupational crimes	C411E 51.4	A
Or			
16	For an automobile industry as an organization, select your choice of products and explain on Intellectual property rights	C411E 51.4	A

Name of the Faculty In-charge: Dr. S. M. Girirajkumar, Professor/Head-ICE Department

- Institutional authority is given to
 - the privileged category
 - experience based category
 - Authority is prioritized for
 - Confidentiality
 - Efficiency
 - Power in an organization is
 - A legal entity
 - Influence entity
 - Zone of acceptance is based
 - Willing to accept authority
 - Empowered to accept authority
 - Collective bargaining is related to
 - International Labour organization
 - Intellectual property rights
 - Unionism is applicable when an organization has more than
 - 20 employees
 - 200 employees
 - MNC influences
 - inflow of foreign capital
 - tax benefits
 - Increase in MNCs for a country causes
 - Flourishing of domestic industries
 - Repatriation of profits
 - Appropriate technology is a
 - Generic concept
 - Social concept
 - Biocentrism
 - Promotes existence of all forms of life
 - Influences betterment of human race
-
1. Define the need for paramount obligations
 2. What is the significance of trade secret
 3. What do you mean by Anthropocentric
 4. Why ecocentrism needs priority
 5. How the HRs play a crucial role in maintaining code of conduct



Saranathan College of Engineering

Tiruchirappalli - 620012

Internal Assessment Test - I			Date/Session	16.09.2020	Marks	30
Course code	EI8075	Course Title	FIBRE OPTICS AND LASER INSTRUMENTS			
Batch No.		Duration		Academic Year	2020-2021/ODD	
Year	IV	Semester	VII	Department		

Part – A (20 Marks)

I.II. Answer all the Questions

(10x2=20 Marks)

Q. No.	Questions	CO	Skills
1	What is the necessity of cladding for an optical Fiber? List 4 points	C404-E31.1	R
2	What are the uses of optical fibers? List 4 points	C404-E31.1	R
3	What are meridional and skew rays?	C404-E31.1	R
4	Why do we prefer step index single mode fibre for long distance communication?	C404-E31.1	U & R
5	What are the conditions for total internal reflection?	C404-E31.1	U & R
6	What is meant by numerical aperture? Draw suitable diagram.	C404-E31.1	R
7	What is meant by material dispersion?	C404-E31.1	R
8	What are glass fibres?	C404-E31.1	R
9	Compare Intrinsic and Extrinsic Optical Sensors.	C404-E31.2	U & R
10	Write the expression of fiber attenuation at a given wavelength ' λ '. What is another name of both scatter method?	C404-E31.2	U & R

II. Answer all the Questions

(1x10=10 Marks)

11	Explain Intrinsic and Extrinsic type optical sensors with suitable diagram.	C404-E31.2	R
	or		
12	Explain in detail how attenuation in optical fibres are measured by cut back method with suitable diagram	C404-E31.2	R

Name of the Faculty In-charge: **P.Aravind/AP/ICE**



Saranathan College of Engineering

Tiruchirappalli - 620012

Internal Assessment Test - III			Date/Session	04.11.2020	Marks	50
Course code	EI8075	Course Title	FIBRE OPTICS AND LASER INSTRUMENTS			
Batch No.		Duration	90 mins	Academic Year	2020-2021/ODD	
Year	IV	Semester	VII	Department	ICE	

Part – A (20 Marks)

I. Choose the correct Answer for the following Questions

(10x1=10 Marks)

Q. No.	Questions	CO	Skills
1.(a)	1. Which of the following is a unique property of laser? a) Directional b) Speed c) Coherence d) Wavelength	C404-E31.4	U
1.(b)	Which of the following is an example of optical pumping? a) Ruby laser b) Helium-Neon laser c) Semiconductor laser d) Dye laser		R
2.(a)	Which of the following can be used for the generation of laser pulse? a) Ruby laser b) Carbon dioxide laser c) Helium neon laser d) Nd- YAG laser	C404-E31.4	R
2.(b)	What is the need to achieve population inversion? a) To excite most of the atoms b) To bring most of the atoms to ground state c) To achieve stable condition d) To reduce the time of production of laser		U
3.(a)	Which of the following is not true about metrology lasers used in laser inspection? a) These are high-power instruments b) Used for rapid non-contact gauging of delicate parts c) Have low optical cross-talk d) Wide dynamic range	C404-E31.5	U
3.(b)	Phonons are _____ a) Quanta of energy b) Quanta of light waves c) Quanta of sound waves d) Quanta of heat		R
4.(a)	Which of the following is not a characteristic of LASERS? a) Monochromatic b) Coherent c) Divergent d) Intense	C404-E31.5	U
4.(b)	What is the region enclosed by the optical cavity called? a) Optical Region b) Optical System c) Optical box d) Optical Resonator		U
5.(a)	Where is ND: YAG most commonly used? a) Cosmetic Surgery b) Welding c) Photography d) Optical Communications	C404-E31.6	U

5.(b)	Which characteristic of LASER allows it to be used in holography? a) Coherency b) Directionality c) Intensity d) Monochromaticity		R
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II. Answer all the Questions

(5x2=10 Marks)

Q. No.	Questions	CO	Skills
6	What is Brewster Window?	C404-E31.4	R&U
7	What is Beam Divergence?	C404-E31.4	R
8	What are the advantages of laser welding cutting and drilling	C404-E31.5	U
9	Distinguish between a hologram and photographic film?	C404-E31.6	U
10	What are endoscopes?	C404-E31.6	R

Part – B

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

Q. No.	Questions	CO	Skills
11	Discuss in detail various properties of laser.	C404-E31.4	R & U
Or			
12	Explain in detail construction and working of liquid laser with advantages and disadvantages.	C404-E31.4	U
Or			
13	Explain the way how materials are removed using laser, with suitable diagram.	C404-E31.5	R
Or			
14	Explain in detail construction and working of LIDAR with advantages and disadvantages.	C404-E31.5	R&A

Part – C

(Answer all the questions 1 x 10 = 10marks)

Q.No.	Questions	CO	Skills
15	Explain the principal of hologram recording technique with suitable diagram.	C404-E31.6	E & C
Or			
16	Explain various types of interactions and selecting an interaction mechanism.	C404-E31.6	R&A

Name of the Faculty In-charge: **P. Aravind/ AP/ICE**



Saranathan College of Engineering
Tiruchirapalli

Internal Assessment Test - I			Date/ Session	24.9.2021/FN	Marks	50
Course code	EC8093	Course Title	Digital Image Processing			
Batch No.		Duration	90 mins	Academic Year	2021 - 2022	
Year	IV	Semester/ Section	VII/ A	Department	ICE	

Part – A

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

Q. No.	Questions	CO	Skills
1	Define digital image	C403.1	R
2	What is a pixel?	C403.1	R
3	Define : a) scotopic vision b) photopic vision	C403.1	R
4	What is meant by optical illusion?	C403.1	R
5	What is meant by mach band effect?	C403.1	R
6	Define : a) 4 connectivity b) m connectivity	C403.1	R
7	Define : a) city block distance b) Euclidean distance	C403.1	R
8	What is meant by image enhancement?	C403.2	R
9	What is meant by point processing?	C403.2	R
10	Write the intensity transform function for a) image negative b) log transformation	C403.2	R

Part – B

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

Q. No.	Questions	CO	Skills
11	Explain the steps involved in Digital image processing	C403.1	R
or			
12	Explain the components of digital image processing in detail	C403.1	R
or			
13	Explain sampling and quantization in digital image processing with relevant diagrams.	C403.1	R
or			
14	a) Explain the following colour models : RGB , HSI [6] b) Convert the following 8 bit RGB into equivalent HSI component [4] i) [130,210,120] ii) [200,140,100]	C403.1	R

Part – C

(Answer all the questions 1 x 10 = 10marks)

Q. No.	Questions	CO	Skills
15	Define histogram. Explain the steps of histogram equalization with an example	C403.2	R,U
or			
16	For the following 8X8 bit image, equalize histogram and find the new intensity values. Grey levels : 0 1 2 3 4 5 6 7 No of pixels : 8 10 10 2 12 16 4 2	C403.2	U,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

Faculty in charge : Mr.S.Hariprasath



Saranathan College of Engineering
Tiruchirapalli

Internal Assessment Test - I			Date	23.09.2021	Marks	50
Course code	EI8751	Course Title	Industrial Data Networks			
Batch No.		Duration	30 mins	Academic Year	2021 - 2022	
Year/	Final	Semester/Section	VII	Department	ICE	

Part – A

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

Q. No.	Questions	CO	Skills
1	Define network	C403.1	U
2	Define topology and write the types	C403.1	U
3	Write the modes in HDLC?	C403.1	U
4	Mention the applications of TCP/IP	C403.1	A
5	Draw the frame format of token passing	C403.1	R
6	What is Ethernet?	C403.2	AZ
7	What are the components of router	C403.2	U
8	Write the uses of bridges	C403.2	U
9	Give some application of Ethernet	C403.2	A
10	What are Gateways?	C403.2	U

Part – B

(Answer all the questions 1 x 10 = 10 marks)

Q. No.	Questions	CO	Skills
11 a	Explain CSMA/CD protocol with its frame format	C403.1	U
11 b	Explain TCP in detail	C403.1	U
Or			
12	Draw the OSI model and explain the functions performed by each layer of the model?	C403.1	AZ
13	Explain in detail about message and packet switching	C403.1	U
or			
14	Describe the HDLC protocol with necessary diagrams	C403.1	U

Part – C

(Answer all the questions 1 x 10 = 10 marks)

15	What is router? Explain its components and any one routing techniques	C403.2	AZ
or			
16	Write a note on ARC net and explains its configuration	C403.2	U

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

PRACTICAL SUBJECT

ANNA UNIVERSITY: CHENNAI – 600 025
B.E/B.Tech. DEGREE EXAMINATIONS, Nov./Dec. – 2020
8138-SARANATHAN COLLEGE OF ENGINEERING, TRICHY
Regulations – 2017
Seventh Semester
B.E. Electronics and Communication Engineering

EC8461-CIRCUITS DESIGN AND SIMULATION LABORATORY

Date: 30.07.2021

Time: 3 Hours

Maximum Mark : 100

MARK ALLOCATION

S.NO	DESCRIPTION	MARKS ALLOTTED	MARKS OBTAINED
1	MCQ	15	
2	AIM, APPARATUS REQUIRED, DESIGN	20	
3	CIRCUIT DIAGRAM	15	
4	PROCEDURE	10	
5	CALCULATION / GRAPH	10	
	RECORD	10	
6	RESULT/INFERENCE	10	
7	VIVA VOCE	10	
8	TOTAL	100	

INTERNAL EXAMINER

EXTERNAL EXAMINER

B.E / B.Tech. PRACTICAL END SEMESTER EXAMINATIONS, APRIL / MAY 2019
Fourth Semester

EC 8461 – CIRCUITS DESIGN AND SIMULATION LABORATORY

(Regulations – 2017)

SET I

Time: 3 Hours

Maximum Marks: 100

Answer any one Question

1.	Design a current series feedback amplifier and determine the frequency response, gain, bandwidth and calculate the input impedance and output impedance with and without Feedback. Assume $I_c = 1\text{mA}$, $V_{RE} = 1\text{V}$, $R_2 = 10\text{K}\Omega$, $V_{CC} = 12\text{V}$. (100)
2.	Design a voltage shunt feedback amplifier and determine the frequency response, gain, bandwidth and calculate the input impedance and output impedance. Assume $I_c = 1\text{mA}$, $V_{RE} = 1\text{V}$, $R_2 = 10\text{K}\Omega$, $V_{CC} = 12\text{V}$. (100)
3.	Design a current shunt feedback amplifier and determine the frequency response, gain, bandwidth and calculate the input impedance and output impedance with and without Feedback. Assume $I_c = 1\text{mA}$, $V_{RE} = 1\text{V}$, $R_2 = 10\text{K}\Omega$, $V_{CC} = 12\text{V}$. (100)
4.	Design a voltage series feedback amplifier and determine the frequency response, gain, bandwidth and calculate the input impedance and output impedance. Assume $I_c = 1\text{mA}$, $V_{RE} = 1\text{V}$, $R_2 = 10\text{K}\Omega$, $V_{CC} = 12\text{V}$. (100)
5.	Construct a Wien bridge oscillator to obtain the sine wave for a frequency of 1kHz. (100)
6.	Design and construct a RC phase shift oscillator to obtain the sine wave for a frequency of 1kHz. Assume $C = 0.01\text{ }\mu\text{F}$. (100)
7.	Design and construct a Hartley oscillator to get a sine wave output of 2 KHz frequency. (100)
8.	Design and construct a Colpitts oscillator to get a sine wave output of 2 KHz frequency. (100)
9.	Design and construct a single tuned amplifier for a resonant frequency of 2 KHz and determine

	the frequency response of the amplifier. (100)
10.	(i) Design and construct a Differentiator circuit and obtain the output waveforms for the square and sine waveform as input. (50) (ii) Simulate a flip flop multivibrator circuit and obtain the corresponding waveform. (50)
11.	(i) Design and construct a Integrator circuit and obtain the output waveforms for the square and sine waveform as input. (50) (ii) Simulate a double tuned amplifier circuit and obtain the corresponding waveform. (50)
12.	(i) Construct the following clipper circuit and obtain the corresponding output if the input is a sine wave of 12 V(p-p). a. Positive clipper b. Negative Clipper (50) (ii) Simulate a Schmitt trigger circuit with predictable hysteresis waveform. (50)
13.	Construct the clipper and clamper circuit for both positive and negative and obtain the corresponding waveform, if the input is a sine waveform of amplitude 10 V(p-p). (100)
14.	(i) Construct the following clamper circuit and obtain the corresponding output if the input is a sine wave of 12 V(p-p). a. Positive clamper b. Negative Clamper (50) (ii) Simulate a Twin-T oscillator circuit and obtain the corresponding waveform. (50)
15.	(i) Design and construct a free running multivibrator to get an output square waveform and calculate its T_{ON} and T_{OFF}. (50) (ii) Simulate a Bistable multivibrator circuit and obtain the corresponding waveform. (50)
16.	(i) Design and construct a one-shot multivibrator to get an output pulse waveform and calculate its T_{ON} and T_{OFF}. (50) (ii) Simulate a stagger tuned amplifier circuit and obtain its corresponding waveform. (50)

17.	(i) Construct the positive clamper circuit and obtain the corresponding waveform, if the input is a sine waveform and a square waveform of amplitude 5 V(p-p). (50) (ii) Simulate a Wien bridge Oscillator circuit and obtain the corresponding waveform. (50)
18.	(i) Construct the following clipper circuit and obtain the corresponding output if the input is a sine wave of 12 V(p-p). a. Biased positive clipper with $V_R = +5V$ b. Biased negative clipper with $V_R = -5V$ (50) (ii) Simulate a Twin-T Oscillator circuit and obtain the corresponding waveform. (50)
19.	(i) Construct the negative clamper circuit and obtain the corresponding waveform, if the input is a sine waveform and a square waveform of amplitude 5 V(p-p). (50) (ii) Simulate and analyze the power amplifier circuit and obtain the corresponding waveform. (50)
20.	(i) Design and construct an Integrator circuit and obtain the output waveforms for the square and sine waveform as input. (50) (ii) Simulate a Tuned Collector Oscillator circuit and obtain the corresponding waveform. (50)
21	Construct a Wien bridge oscillator to obtain the sine wave for a frequency of 2kHz. (100)
22	Design and construct a RC phase shift oscillator to obtain the sine wave for a frequency of 2kHz. Assume $C = 0.01 \mu F$. (100)
23	Design and construct a Hartley oscillator to get a sine wave output of 1 KHz frequency. (100)
24	Design and construct a Colpitts oscillator to get a sine wave output of 1 KHz frequency. (100)
25	(i) Construct the following clipper circuit and obtain the corresponding output if the input

	is a sine wave of 15 V(p-p). a. Biased positive clipper with $V_R = +7V$ b. Biased negative clipper with $V_R = -7V$ (50) (ii) Simulate a Twin-T Oscillator circuit and obtain the corresponding waveform. (50)
26	(i) Construct the negative clamper circuit and obtain the corresponding waveform, if the input is a sine waveform and a square waveform of amplitude 7 V(p-p). (50) (ii) Simulate and analyze the power amplifier circuit and obtain the corresponding waveform. (50)
27.	(i) Construct the following clamper circuit and obtain the corresponding output if the input is a sine wave of 10 V(p-p). a. Positive clamper b. Negative Clamper (50) (ii) Simulate a Twin-T oscillator circuit and obtain the corresponding waveform.
28	Construct the clipper and clamper circuit for both positive and negative and obtain the corresponding waveform, if the input is a sine waveform of amplitude 12 V(p-p). (100)
29	Design and construct a single tuned amplifier for a resonant frequency of 5 KHz and determine the frequency response of the amplifier. (100)
30	(i) Design and construct a astable multivibrator to get an output square waveform and calculate its T_{ON} and T_{OFF}. (50) (ii) Simulate a multivibrator circuit used as flipflop and obtain the corresponding waveform. (50)

B.E / B.Tech. PRACTICAL END SEMESTER EXAMINATIONS, APRIL / MAY 2019
Fourth Semester

EC 8461 – CIRCUITS DESIGN AND SIMULATION LABORATORY

(Regulations – 2017)

SET II

Time: 3 Hours

Maximum Marks: 100

Answer any one Question

1.	Design and construct a Colpitts oscillator to get a sine wave output of 2 KHz frequency. (100)
2.	Design and construct a single tuned amplifier for a resonant frequency of 2 KHz and determine the frequency response of the amplifier. (100)
3.	(i) Design and construct a Differentiator circuit and obtain the output waveforms for the square and sine waveform as input. (50) (ii) Simulate a flip flop multivibrator circuit and obtain the corresponding waveform. (50)
4.	Design a current series feedback amplifier and determine the frequency response, gain, bandwidth and calculate the input impedance and output impedance with and without Feedback. Assume $I_c = 1\text{mA}$, $V_{RE} = 1\text{V}$, $R_2 = 10\text{K}\Omega$, $V_{CC} = 12\text{V}$. (100)
5.	Design a voltage shunt feedback amplifier and determine the frequency response, gain, bandwidth and calculate the input impedance and output impedance. Assume $I_c = 1\text{mA}$, $V_{RE} = 1\text{V}$, $R_2 = 10\text{K}\Omega$, $V_{CC} = 12\text{V}$. (100)
6.	Design a current shunt feedback amplifier and determine the frequency response, gain, bandwidth and calculate the input impedance and output impedance with and without Feedback. Assume $I_c = 1\text{mA}$, $V_{RE} = 1\text{V}$, $R_2 = 10\text{K}\Omega$, $V_{CC} = 12\text{V}$. (100)
7.	Design a voltage series feedback amplifier and determine the frequency response, gain, bandwidth and calculate the input impedance and output impedance. Assume $I_c = 1\text{mA}$, $V_{RE} = 1\text{V}$, $R_2 = 10\text{K}\Omega$, $V_{CC} = 12\text{V}$. (100)
8.	Construct a Wien bridge oscillator to obtain the sine wave for a frequency of 1kHz. (100)

9.	Design and construct a RC phase shift oscillator to obtain the sine wave for a frequency of 1kHz. Assume $C = 0.01 \mu\text{F}$. (100)
10.	Design and construct a Hartley oscillator to get a sine wave output of 2 KHz frequency. (100)
11.	Construct a Wien bridge oscillator to obtain the sine wave for a frequency of 2kHz. (100)
12.	Design and construct a RC phase shift oscillator to obtain the sine wave for a frequency of 2kHz. Assume $C = 0.01 \mu\text{F}$. (100)
13.	Design and construct a Hartley oscillator to get a sine wave output of 1 KHz frequency. (100)
14.	(i) Design and construct a Integrator circuit and obtain the output waveforms for the square and sine waveform as input. (50) (ii) Simulate a double tuned amplifier circuit and obtain the corresponding waveform. (50)
15.	(i) Construct the following clipper circuit and obtain the corresponding output if the input is a sine wave of 12 V(p-p). a. Positive clipper b. Negative Clipper (50) (ii) Simulate a Schmitt trigger circuit with predictable hysteresis waveform. (50)
16.	Construct the clipper and clamper circuit for both positive and negative and obtain the corresponding waveform, if the input is a sine waveform of amplitude 10 V(p-p). (100)
17.	(i) Construct the following clamper circuit and obtain the corresponding output if the input is a sine wave of 12 V(p-p). a. Positive clamper b. Negative Clamper (50) (ii) Simulate a Twin-T oscillator circuit and obtain the corresponding waveform. (50)

18.	(i) Design and construct a free running multivibrator to get an output square waveform and calculate its T_{ON} and T_{OFF}. (50) (ii) Simulate a Bistable multivibrator circuit and obtain the corresponding waveform. (50)
19.	(i) Design and construct a one-shot multivibrator to get an output pulse waveform and calculate its T_{ON} and T_{OFF}. (50) (ii) Simulate a stagger tuned amplifier circuit and obtain its corresponding waveform. (50)
20.	(i) Construct the positive clamper circuit and obtain the corresponding waveform, if the input is a sine waveform and a square waveform of amplitude 5 V(p-p). (50) (ii) Simulate a Wien bridge Oscillator circuit and obtain the corresponding waveform. (50)
21	Construct the clipper and clamper circuit for both positive and negative and obtain the corresponding waveform, if the input is a sine waveform of amplitude 12 V(p-p). (100)
22	Design and construct a single tuned amplifier for a resonant frequency of 5 KHz and determine the frequency response of the amplifier. (100)
23	(i) Design and construct a astable multivibrator to get an output square waveform and calculate its T_{ON} and T_{OFF}. (50) (ii) Simulate a multivibrator circuit used as flipflop and obtain the corresponding waveform. (50)
24	(i) Construct the following clipper circuit and obtain the corresponding output if the input is a sine wave of 12 V(p-p). a. Biased positive clipper with $V_R = + 5V$ b. Biased negative clipper with $V_R = - 5V$ (50) (ii) Simulate a Twin-T Oscillator circuit and obtain the corresponding waveform. (50)
25	(i) Construct the negative clamper circuit and obtain the corresponding waveform, if the input is a sine waveform and a square waveform of amplitude 5 V(p-p). (50)

	(ii) Simulate and analyze the power amplifier circuit and obtain the corresponding waveform. (50)
26	(i) Design and construct an Integrator circuit and obtain the output waveforms for the square and sine waveform as input. (50) (ii) Simulate a Tuned Collector Oscillator circuit and obtain the corresponding waveform. (50)
27.	Design and construct a Colpitts oscillator to get a sine wave output of 1 KHz frequency. (100)
28	(i) Construct the following clipper circuit and obtain the corresponding output if the input is a sine wave of 15 V(p-p). a. Biased positive clipper with $V_R = +7V$ b. Biased negative clipper with $V_R = -7V$ (50) (ii) Simulate a Twin-T Oscillator circuit and obtain the corresponding waveform. (50)
29	(i) Construct the negative clamper circuit and obtain the corresponding waveform, if the input is a sine waveform and a square waveform of amplitude 7 V(p-p). (50) (ii) Simulate and analyze the power amplifier circuit and obtain the corresponding waveform. (50)
30	(i) Construct the following clamper circuit and obtain the corresponding output if the input is a sine wave of 10 V(p-p). a. Positive clamper b. Negative Clamper (50) (ii) Simulate a Twin-T oscillator circuit and obtain the corresponding waveform.



MODEL PRACTICAL EXAMINATION 2020-2021 ODD
8138 - SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
EC 8611 EMBEDDED LABORATORY

Semester :

VII

Time : 3 Hours

Max. Marks 100

LIST OF QUESTIONS

1. Write an Embedded C program for generating Saw tooth wave using ARM cortex M4.
2. Write an Embedded C program for printing "COMMUNICATION" in LCD using ARM cortex M4.
3. Write an Embedded C program for measuring temperature using sensor and display it when a switch is pressed using ARM cortex M4.
4. Write an Embedded C program for printing "ENGINEERING" in LCD when switch 5 is pressed using ARM cortex M4.
5. Write an Embedded C program for generating triangular wave using ARM cortex M4.
6. Write an Embedded C program for flashing LED in the pattern 1001 when switch 5 is pressed and in the pattern 0110 when switch 6 is pressed using ARM cortex M4.
7. Write an Embedded C program for controlling the intensity of LED using ARM LPC2148.
8. Write an Embedded C program for converting analog value of potentiometer to corresponding Digital and display the value when a key is pressed using ARM cortex M4.
9. Write an Embedded C program for creating Mailbox using μ COS II operating system, send and receive data using two different process wave using ARM cortex M4.
10. Write an Embedded C program for printing "KNOWLEDGE" "POWER" "CONFIDENCE" using USART when each key is pressed using ARM cortex M4.
11. A) Write an Embedded C program for performing wireless communication using ZIGBEE protocol to measure light intensity using LDR using ARM cortex M4
B) Write the features of ARM cortex M4 development kit.
12. Write an Embedded C program for converting analog value of potentiometer to corresponding Digital and display the value using ARM cortex M4.
13. Write an Embedded C program for generating triangular wave using ARM cortex M4.
14. Write an Embedded C program for creating Mailbox using μ COS II operating system, send and receive data using two different process wave using ARM cortex M4.
15. Write an Embedded C program for interfacing EEPROM using ARM cortex M4.
16. Write an Embedded C program for interfacing Real Time clock using ARM cortex M4.
17. A) Write an Embedded C program for performing wireless communication using ZIGBEE protocol to measure temperature using ARM cortex M4.
B) Write the features of ARM cortex M4 development kit.
18. Write an Embedded C program for flashing the LED in the given pattern 0110 using ARM cortex M4.
19. Write an Embedded C program for rotating stepper motor in anti clockwise direction using ARM cortex M4.
20. Write an Embedded C program for printing "ELECTRONICS" using USART using ARM cortex M4.
21. Write an Embedded C program for flashing the LED in the given pattern 1001 using ARM cortex M4.
22. Write an Embedded C program for rotating stepper motor in clockwise direction using ARM cortex M4.
23. Write an Embedded C program for printing "WELCOME" using USART in ARM cortex M4.
24. Write an Embedded C program for generating Sine wave using ARM cortex M4.

25. Write an Embedded C program for printing “HELLO WORLD” in LCD using ARM cortex M4.
26. Write an Embedded C program for measuring temperature using sensor and display it using ARM cortex M4.
27. Write an Embedded C program for printing “EMBEDDED” in LCD when switch 2 is pressed using ARM cortex M4.
28. Write an Embedded C program for generating square wave using ARM cortex M4.
29. Write an Embedded C program for flashing LED in the pattern 1111 when switch 2 is pressed and in the pattern 0000 when switch 3 is pressed using ARM cortex M4.
30. Write an Embedded C program for controlling the intensity of LED using ARM LPC2148.

FACULTY

HOD/ECE



MODEL PRACTICAL EXAMINATION 2020-2021 ODD
SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
EC 8711 EMBEDDED LABORATORY

Semester : VII

Time: 3 Hours

Max. Marks 100

MARK ALLOCATION

AIM, APPARATUS REQUIRED, CONNECTION DETAILS	:	15
PROGRAM, PROCEDURE, COMPILATION	:	35
EXECUTION, LOADING & VERIFICATION	:	30
RESULT	:	10
VIVA-VOCE	:	10

TOTAL	:	100
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FACULTY



SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF ECE
MODEL EXAMINATION, 20-21 ODD

Third Semester

EC8361 - ANALOG AND DIGITAL CIRCUITS LABORATORY
(Regulations - 2017)

Time : 3 Hours

Max. Marks 100

MARK SPLIT UP

Aim & Identification	Apparatus Required & Procedure	Circuit Diagram & Tabulation	Observation	Viva Voce	Result	Total
10 Marks	15 Marks	25 Marks	30 Marks	10 Marks	10 Marks	100 Marks

1.	Construct a Common Emitter BJT amplifier using voltage divider bias and determine the frequency response. Calculate the bandwidth from the obtained frequency response. (100)
2.	Construct a Common Collector BJT amplifier using voltage divider bias and determine the frequency response. Calculate the bandwidth from the obtained frequency response. (100)
3.	Construct a Common Source FET amplifier and determine the frequency response. Calculate the bandwidth from the obtained frequency response. (100)
4.	Construct a Darlington amplifier using BJT and determine the frequency response. Calculate the bandwidth from the obtained frequency response. (100)
5.	Construct a Differential amplifier using BJT and determine the common mode gain, differential mode gain and CMRR. (100)
6.	Construct a Cascode amplifier and determine the frequency response. Calculate the bandwidth from the obtained frequency response. (100)
7.	Construct a Cascade amplifier and determine the frequency response. Calculate the bandwidth from the obtained frequency response. (100)
8.	Construct a Single stage amplifier and determine the frequency response. Calculate the bandwidth from the obtained frequency response. (100)
9.	Construct a multistage amplifier and determine the frequency response. Calculate the bandwidth from the obtained frequency response. (100)
10.	Design and implement BCD to Excess-3 code converter using logic gates and verify its truth table. (100)
11.	Design and implement Excess-3 to BCD code converter using logic gates and verify its truth table. (100)
12.	Design and implement binary to gray code converter and gray to binary code converter using logic gates and verify its truth table. (100)
13.	Design and implement 4-bit binary Adder / Subtractor using IC 7483. (100)
14.	Design and implement BCD adder using IC 7483. (100)
15.	Design and implement 4x2 encoder and 2x4 decoder using logic gates and verify its truth table. (100)
16.	Design and implement 4x1 multiplexer and 1x4 de-multiplexer using logic gates and verify its

	truth table.	(100)
17.	Design and construct a 4 – bit mod-12 ripple counter and verify its truth table.	(100)
18.	Design and construct a 4 – bit mod-10 ripple counter and verify its truth table.	(100)
19.	Construct a 3-bit synchronous up / down counter and verify its truth table.	(100)
20.	Design and implement binary to gray code converter and vice versa using logic gates and verify its truth table.	(100)
21.	Construct regulated power supply for the DC voltage of 12V.	(100)
22.	Simulate BJT amplifier with the following biasing using spice. a. Fixed bias b. Voltage divider bias c. Self -bias	(100)
23.	Simulate Common source-FET amplifier with the following biasing using spice. a. Fixed bias b. Voltage divider bias c. Self -bias.	(100)
24.	Simulate Common source MOSFET amplifier with the following biasing using spice. a. Fixed bias b. Voltage divider bias c. Self -bias.	(100)
25.	Simulate Cascode and Cascade BJT amplifier using spice.	(100)

FACULTY

HOD/ECE



Saranathan College of Engineering
Department of Instrumentation and Control Engineering
Tiruchirappalli - 620 012



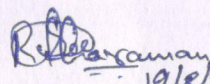
Project details 2021 - 22 Batch

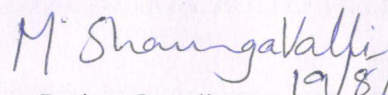
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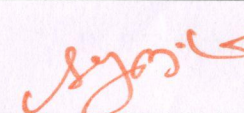
Date: 19-08-2021

S.No	Name	Register No	Project title	Domain	Guide Name
1	NIRMAL VEL. S	813818112022	FIRE EXTINGUISHING ROBOT	ROBOTICS	Ms. K. Ezhilarasi
	MANIKANDAN. V	813818112018			
	LOKESH. S	813818112017			
	PRANAV SAJESH. S	813818112028			
2	BENITO RICHARDSON. D	813818112007	IOT BASED HOME AUTOMATION SYSTEM	Automation	Dr. P Aravind
	AKILAN. R	813818112004			
	LOKESH. R	813818112016			
	DHARSAN PRABU. GK	813818112009			
3	AASHIK. G	813818112001	PLC BASED AUTOMATIC BOTTLE FILLING SYSTEM	Automation	Dr. P Thirumurugan
	NITHISH ANAND. S	813818112023			
	SELVABALAJI. K P	813818112031			
	SHIVAA SANKAR. A	813818112035			
4	HARIHARAN. T	813818112011	Electric Vehicle Battery Management System	Power Electronics	Dr. P Thirumurugan
	MOHAMED THOUFEEQ. P	813818112021			
	NITHISH KUMAAR. R	813818112024			
	SENTHIL ARASAN. B	813818112033			
5	PRANAV KUMAR. S	813818112027	Android based Industrial fault monitoring (detection) system	Sensors Design	Dr. M Shanmugavalli
	SURIYA PRAKAASH. D	813818112036			
	KABILESHWARAN. R	813818112301			
	SATHISH KUMAR. M	813818112303			
6	SHARMILA RANI. A	813818112034	Anesthesia Control System using Heartbeat Sensor	Biomedical	Dr. M Shanmugavalli
	PRIYADHARSHINI. M	813818112029			
	SWETHA. R	813818112037			

7	MOHAMED THASNEEM. A	813818112020	Integration of Wireless Sensor Network with Virtual Instrumentation in a Hazardous Environmental	Sensor Integration	Dr. P Aravind
	MOHAMED JAVEED ALI . S	813818112019			
	KUMARAGURU. K	813818112015			
	KAVIYARASAN. K	813818112302			
8	VASUNDRA. R	813818112038	Smart Mirror	Sensor Design	Mr.R. Seetharaman
	BHAVADHARANI. M B	813818112008			
	ISHWARYA. M	813818112014			
	POOJAVARDHINI. B	813818112026			
9	SANDHYA. V	813818112030	Automatic vehicle navigation system	Automation	Dr. S.M. Girirajkumar
	GEETHA RANJANI. G	813818112010			
	AKSHAYAVARSHINI. V	813818112005			
	HARINI BANUMATHI. N	813818112012			
10	HARISH. P K	813818112013	Power Meter billing Plus Load Control Using GSM	Power Electronics	Mr. S Prassanna perumal
	NITHS ROSHAN . E.M.	813818112025			
	SELVAKUMAR. B	813818112032			
11	ABDUL JAVITH. A	813818112002	IoT BASED SMART IRRIGATION SYSTEM USING SOIL MOISTURE SENSOR AND NODE MCU	Sensor Design	Mr.S. Vigneshwaran
	AJMALKHAN. S	813818112003			
	ASWIN KUMAAR. R S	813818112006			
	VICKRAM. K B	813818112039			


19/8/2021
Class-Coordinator


19/8/2021
Project Coordinator


ICE-HoD

PROJECT WORK



ANNAUNIVERSITY
CHENNAI 600025

APRIL-MAY 2021 END SEMESTER EXAMINATIONS

College Name: SARANATHAN COLLEGE OF ENGINEERING

College Code: 8138

To be used for B.E/B.Tech

Subject Name: PROJECT WORK

Subject Code: IC8811 Semester: VIII

EVALUATION WORKING SHEET

S NO	BATCH NUMBER	REGISTRATION NO OF THE STUDENT	NAME OF THE STUDENT	THESIS SUBMISSION (30 MARKS)		VIVA- VOCE (50 MARKS)			TOTAL (80 MARKS)	TOTAL (100 MARKS)
				Internal (15)	External (15)	Internal (15)	External (20)	Supervisor (15)		
1	1	813817112038	NISHA FRANCY. S	15	15	15	12	15	72	90
2		813817112025	KIRTHIKA. V	15	15	15	13	15	73	92
3		813817112010	BUVANESHWARI. S	15	15	15	13	15	73	92
4		813817112043	RENUGA. S	15	15	15	12	15	72	90

NAME OF THE INTERNAL EXAMINER: Dr.P.THIRUMURUGAN

STAFF ID: 8138215


SIGNATURE

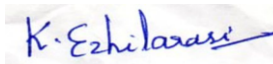
NAME OF THE EXTERNAL EXAMINER: Mrs.V.LOGESHWARI

STAFF ID: 8301117


SIGNATURE

NAME OF THE SUPERVISOR: Mrs. K.EZHILARASI

STAFF ID: 8138239


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CHENNAI 600025

APRIL-MAY 2021 END SEMESTER EXAMINATIONS

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				Internal (15)	External (15)	Internal (15)	External (20)	Supervisor (15)		
1	2	813817112002	AHAMED ZUHOOR. A G	15	15	15	13	15	73	92
2		813817112004	AKASHSAMI. R	15	15	15	12	15	72	90
3		813817112058	THARIK AHAMADU MOHAMED DHEEN. M	15	15	15	12	15	72	90
4		813817112052	SIVASUBRAMANIAN. V	15	15	15	13	15	73	92

NAME OF THE INTERNAL EXAMINER: Dr.P.THIRUMURUGAN

STAFF ID: 8138215


SIGNATURE

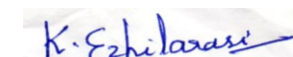
NAME OF THE EXTERNAL EXAMINER: Mrs.V.LOGESHWARI

STAFF ID: 8301117


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NAME OF THE SUPERVISOR: Mrs. K.EZHILARASI

STAFF ID: 8138239
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CHENNAI 600025

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1	3	813817112044	SABTHAMI. M	15	15	15	11	15	71	89
2		813817112054	SOUNTHIRIYA. G M	15	15	15	11	15	71	89
3		813817112020	KALKI. K	15	15	15	10	15	70	88
4		813817112027	LAKKSHMI PRIYA. S	15	15	15	11	15	71	89

NAME OF THE INTERNAL EXAMINER: Dr.P.THIRUMURUGAN

STAFF ID: 8138215


SIGNATURE

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1	4	813817112007	ARJUN. M	15	15	15	11	15	71	89
2		813817112021	KARTHIK. K	15	15	15	10	15	70	88
3		813817112029	LINGTAN. N	15	15	15	14	15	74	93
4		813817112056	SURYA. S	15	15	15	14	15	74	93

NAME OF THE INTERNAL EXAMINER: Dr.P.THIRUMURUGAN

STAFF ID: 8138215


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1	5	813817112030	MAHALAKSHMI. S P	15	15	15	11	15	71	89
2		813817112015	GOWRI. K	15	15	15	11	15	71	89
3		813817112028	LAVANYA. B	15	15	15	11	15	71	89
4		813817112051	SINDHUJA. C	15	15	15	11	15	71	89

NAME OF THE INTERNAL EXAMINER: Dr.P.THIRUMURUGAN STAFF ID: 8138215


SIGNATURE

NAME OF THE EXTERNAL EXAMINER: Mrs.V.LOGESHWARI STAFF ID: 8301117


SIGNATURE

NAME OF THE SUPERVISOR: Mr.S.PRASSANNA PERUMAL STAFF ID: 8125105


SIGNATURE



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				Internal (15)	External (15)	Internal (15)	External (20)	Supervisor (15)		
1	6	813817112003	AKASH. T	15	15	15	13	15	73	92
2		813817112016	HARIHARAN. P	15	15	15	13	15	73	92
3		813817112022	KARTHIKEYAN. M	15	15	15	13	15	73	92
4		813817112041	RAHUL. J	15	15	15	13	15	73	92

NAME OF THE INTERNAL EXAMINER: Dr.P.Thirumurugan

STAFF ID: 8138215


SIGNATURE

NAME OF THE EXTERNAL EXAMINER: Mrs.V.LOGESHWARI

STAFF ID: 8301117


SIGNATURE

NAME OF THE SUPERVISOR: Mr.S.VIGNESHWARAN

STAFF ID: 8147140


SIGNATURE



ANNAUNIVERSITY

CHENNAI 600025

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				Internal (15)	External (15)	Internal (15)	External (20)	Supervisor (15)		
1	7	813817112047	SAM ANDREW. B	15	15	15	11	15	71	89
2		813817112046	SALMAN MOHAMED. J	15	15	15	9	15	69	87
3		813817112034	MOHAMED NOORDEEN. J	15	15	15	10	15	70	88
4		813817112032	MANIKANDAN. S	15	15	15	11	15	71	89

NAME OF THE INTERNAL EXAMINER: Dr.P.THIRUMURUGAN

STAFF ID: 8138215


SIGNATURE

NAME OF THE EXTERNAL EXAMINER: Mrs.V.LOGESHWARI

STAFF ID: 8301117


SIGNATURE

NAME OF THE SUPERVISOR: Mr.S.PRASSANNA PERUMAL

STAFF ID: 8125105


SIGNATURE



ANNAUNIVERSITY
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				Internal (15)	External (15)	Internal (15)	External (20)	Supervisor (15)		
1	8	813817112001	AARTHI. R	15	15	15	12	15	72	90
2		813817112013	DHARSHINI. V. J	15	15	15	11	15	71	89
3		813817112057	SURYALAKSHMI. R	15	15	15	10	15	70	88
4		813817112040	RAGAVI. S	15	15	15	11	15	71	89

NAME OF THE INTERNAL EXAMINER: Dr.P.THIRUMURUGAN

STAFF ID: 8138215

SIGNATURE

NAME OF THE EXTERNAL EXAMINER: Mrs.V.LOGESHWARI

STAFF ID: 8301117

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NAME OF THE SUPERVISOR: Mr.S.VIGNESHWARAN

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				Internal (15)	External (15)	Internal (15)	External (20)	Supervisor (15)		
1	9	813817112005	AKIL SANJEEV. M	15	15	15	11	15	71	89
2		813817112006	ARAWINTHAN. R	15	15	15	11	15	71	89
3		813817112023	KARTHIKHEYEN. S	15	15	15	12	15	72	90

NAME OF THE INTERNAL EXAMINER: Dr.P.THIRUMURUGAN

STAFF ID: 8138215


SIGNATURE

NAME OF THE EXTERNAL EXAMINER: Mrs.V.LOGESHWARI

STAFF ID: 8301117


SIGNATURE

NAME OF THE SUPERVISOR: Dr. S M GIRIRAJKUMAR

STAFF ID: 8138002


SIGNATURE



ANNAUNIVERSITY

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				Internal (15)	External (15)	Internal (15)	External (20)	Supervisor (15)		
1	10	813817112012	DHANALAKSHMI. S	15	15	15	10	15	70	88
2		813817112033	MEENUASHWINI. R	15	15	15	12	15	72	90
3		813817112059	YAZHINI. C	15	15	15	11	15	71	89

NAME OF THE INTERNAL EXAMINER: Dr.P.THIRUMURUGAN

STAFF ID: 8138215

SIGNATURE

NAME OF THE EXTERNAL EXAMINER: Mrs.V.LOGESHWARI

STAFF ID: 8301117

SIGNATURE

NAME OF THE SUPERVISOR: Mr.R. SEETHARAMAN

STAFF ID: 8138219

SIGNATURE



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				Internal (15)	External (15)	Internal (15)	External (20)	Supervisor (15)		
1	11	813817112036	NAZEER AHAMED. B	15	15	15	13	15	73	92
2		813817112301	FELIXNIRMALDOSS. M	15	15	15	13	15	73	92
3		813817112302	SIVA PERUMAL. R	15	15	15	13	15	73	92

NAME OF THE INTERNAL EXAMINER: Dr.P.THIRUMURUGAN

STAFF ID: 8138215


SIGNATURE

NAME OF THE EXTERNAL EXAMINER: Mrs.V.LOGESHWARI

STAFF ID: 8301117


SIGNATURE

NAME OF THE SUPERVISOR: Dr.P.ARAVIND

STAFF ID: 8138243


SIGNATURE



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1	12	813817112055	SURRAJ. N S	15	15	15	12	15	72	90
2		813817112042	RAVIKIRAN. B	15	15	15	13	15	73	92
3		813817112026	KRISHNAKUMAR. R	15	15	15	12	15	72	90
4		813817112024	KAVIN. K V	15	15	15	12	15	72	90

NAME OF THE INTERNAL EXAMINER: Dr.P.THIRUMURUGAN

STAFF ID: 8138215


SIGNATURE

NAME OF THE EXTERNAL EXAMINER: Mrs.V.LOGESHWARI

STAFF ID: 8301117


SIGNATURE

NAME OF THE SUPERVISOR: Mr. T. TAMILARASAN

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				Internal (15)	External (15)	Internal (15)	External (20)	Supervisor (15)		
1	13	813817112008	ARTHIYA. M	15	15	15	11	15	71	89
2		813817112017	HARINI. R.M	15	15	15	9	15	69	87
3		813817112053	SNEKA. C	15	15	15	9	15	69	87

NAME OF THE INTERNAL EXAMINER: Dr.P.THIRUMURUGAN

STAFF ID: 8138215


SIGNATURE

NAME OF THE EXTERNAL EXAMINER: Mrs.V.LOGESHWARI

STAFF ID: 8301117


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NAME OF THE SUPERVISOR: Mr.R. SEETHARAMAN

STAFF ID: 8138219


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				Internal (15)	External (15)	Internal (15)	External (20)	Supervisor (15)		
1	14	813817112045	SAI HARI PRASHAD. N K	15	15	15	13	15	73	92
2		813817112011	CHARUKANTH. M S	15	15	15	11	15	71	89
3		813817112039	PRATHEEP. M	15	15	15	11	15	71	89
4		813817112037	NIRMAL KUMAR. D	15	15	15	9	15	69	87

NAME OF THE INTERNAL EXAMINER: Dr.P.THIRUMURUGAN

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ANNAUNIVERSITY

CHENNAI 600025

APRIL-MAY 2021 END SEMESTER EXAMINATIONS

College Name: SARANATHAN COLLEGE OF ENGINEERING

College Code: 8138

To be used for B.E/B.Tech

Subject Name: PROJECT WORK

Subject Code: IC8811

Semester: VIII

EVALUATION WORKING SHEET

S NO	BATCH NUMBER	REGISTRATION NO OF THE STUDENT	NAME OF THE STUDENT	THESIS SUBMISSION (30 MARKS)		VIVA- VOCE (50 MARKS)			TOTAL (80 MARKS)	TOTAL (100 MARKS)
				Internal (15)	External (15)	Internal (15)	External (20)	Supervisor (15)		
1	15	813817112014	FAHAD. M	15	15	15	14	15	74	93
2		813817112050	SHRI HARI. S	15	15	15	14	15	74	93
3		813817112049	SHARVIN SHAKESH. P	15	15	15	14	15	74	93

NAME OF THE INTERNAL EXAMINER: Dr.P.THIRUMURUGAN

STAFF ID: 8138215


SIGNATURE

NAME OF THE EXTERNAL EXAMINER: Mrs.V.LOGESHWARI

STAFF ID: 8301117


SIGNATURE

NAME OF THE SUPERVISOR: Dr.P.THIRUMURUGAN

STAFF ID: 8138215


SIGNATURE