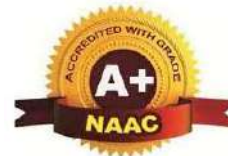


SARANATHAN COLLEGE OF ENGINEERING

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

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



INDEX

CRITERION: 2.6.2

*Attainment of Programme outcomes and course outcomes
are evaluated by the institution*

2022 - 2023

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SARANATHAN COLLEGE OF ENGINEERING

DEPARTMENT OF ECE

OVERALL PO PSO ATTAINMENT FOR 2023 PASSED OUT BATCH

UG (2019-2023)

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
TARGET	2.36	2.18	1.90	1.48	1.31	1.33	1.30	1.23	1.67	1.54	1.34	1.55	1.91	1.88
ATTAINED	1.71	1.59	1.40	1.14	1.06	1.07	0.96	0.90	1.31	1.22	1.09	1.16	1.44	1.41

PG (2021-2023)

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
TARGET	2.77	2.68	2.14	1.95	2.14	1.85	1.73	1.31	2.00	1.43	1.29	2.23	2.09	2.10
ATTAINED	2.59	2.52	2.03	1.83	2.02	1.73	1.62	1.23	1.86	1.38	1.24	2.10	1.97	1.97


HOD/ECE



SARANATHAN COLLEGE OF ENGINEERING

DEPARTMENT OF ECE

COURSE OUTCOMES 2019-2023 BATCH

S.NO	Course code/Name	Attainment (%)	CO attainment level
1	COMMUNICATIVE ENGLISH	77.84	2
		80.34	2
		79.53	2
		74.76	2
		71.91	2
		72.74	2
2	ENGINEERING MATHEMATICS - I	58.22	1
		68.03	1
		53.86	1
		56.89	1
		57.41	1
		59.15	1
3	ENGINEERING PHYSICS	68.43	1
		65.47	1
		59.35	1
		57.31	1
		67.66	1
		57.25	1
4	ENGINEERING CHEMISTRY	65.66	1
		64.01	1
		64.49	1
		57.19	1
		61.22	1
		63.10	1
5	PROBLEM SOLVING AND PYTHON PROGRAMMING	74.79	2
		76.02	2
		75.99	2
		76.94	2
		70.35	2
		64.77	1
6	ENGINEERING GRAPHICS	66.96	1
		62.05	1
		65.88	1
		72.55	2
		68.61	1
		64.00	1
7	PROBLEM SOLVING AND PYTHON PROGRAMMING LAB	98.01	3
		98.35	3
		98.14	3

		97.59	3
		98.28	3
		97.25	3
8	PHYSICS CHEMISTRY LAB	92.33	3
		92.60	3
		92.75	3
		96.59	3
		94.91	3
		93.13	3
9	TECHNICAL ENGLISH II	66.88	1
		59.15	1
		63.95	1
		50.61	1
		41.28	1
		61.55	1
10	ENGINEERING MATHEMATICS - II	63.0656	1
		59.3344	1
		63.0656	1
		44.4	1
		44.4	1
		44.4	1
11	PHYSICS FOR ELECTRONIC ENGINEERING	49.39	1
		46.99	1
		33.12	1
		33.12	1
		33.12	1
		33.12	1
12	BASIC ELECTRICAL AND INSTRUMENTATION ENGINEERING	54.45	1
		62.72	1
		44.59	1
		45.12	1
		37.92	1
		37.92	1
13	CIRCUIT ANALYSIS	32.16	1
		31.89	1
		22.56	1
		22.56	1
		22.56	1
		22.56	1
14	ELECTRON DEVICES	52.69	1
		32.16	1
		32.16	1
		44.16	1
		32.16	1

		32.16	1
15	ENGG PRACTICE LAB	100	3
		100	3
		100	3
		100	3
		100	3
		100	3
16	CIRCUITS AND DEVICES LAB	100	3
		100	3
		100	3
		100	3
		100	3
		100	3
17	LINEAR ALGEBRA AND PARTIAL DIFFERENTIAL EQUATIONS	62.82	2
		76.91	2
		78.08	2
		79.99	2
		75.37	2
		46.47	1
18	FUNDAMENTALS OF DATA STRUCTURES IN C	93.15	3
		87.11	2
		91.03	3
		95.06	3
		90.74	2
		87.15	2
19	ELECTRONIC CIRCUITS I	95.31	3
		92.53	3
		93.61	3
		96.85	3
		94.02	3
		62.95	2
20	SIGNALS AND SYSYTEM	98.4	3
		95.77	3
		97.77	3
		99.93	3
		97.56	3
		65.83	2
21	DIGITAL ELECTRONICS	98.72	3
		95.68	3
		82.89	2
		84	2
		96.44	3
		65.83	2
22	CONTROL SYSTEM	77.44	2

	ENGINEERING	77.92	2
		69.93	2
		81.92	2
		76.53	2
		77.14	2
23	ANALOG AND DIGITAL CIRCUITS LAB	100	3
		100	3
		100	3
		100	3
		100	3
24	OOPS & DS LAB	100	3
		100	3
		100	3
		100	3
		100	3
25	INTERPERSONAL SKILLS/ LISTENING & SPEAKING	100	3
		100	3
		100	3
		100	3
		100	3
26	PROBABILITY AND RANDOM PROCESS	86.13	2
		71.58	2
		98.03	3
		99.14	3
		96.73	3
27	ELECTROMAGNETIC FIELDS	97.24	3
		96	3
		93.52	3
		66.83	2
		67.93	2
28	ELECTRONIC CIRCUITS II	65.56	2
		65.78	2
		96.16	3
		77.65	2
		97.93	3
29	LINEAR INTEGRATED CIRCUITS	98.77	3
		96.6	3
		64.87	2
		98.4	3
		90.93	2
		66.83	2

		97.81	3
		64.83	2
		65.78	2
30	COMMUNICATION THEORY	97.39	3
		95.14	3
		82.89	2
		84	2
		65.56	2
		65.83	2
31	ENVIRONMENTAL SCIENCE ENGINEERING	87.51	2
		93.23	3
		95.89	3
		95.35	3
		95.09	3
		88.17	2
32	CIRCUITS AND SIMULATION LAB	100	3
		100	3
		100	3
		100	3
		100	3
		100	3
33	LINEAR INTEGRATED CIRCUITS LAB	100	3
		100	3
		100	3
		100	3
		100	3
		100	3
34	DIGITAL COMMUNICATION	90.12	2
		82.7	2
		72.14	2
		85.95	2
		81.25	2
		80.49	2
35	DISCRETE TIME SIGNAL PROCESSING	81.06	2
		73.94	2
		76.4	2
		78.54	2
		63.54	2
		95.32	3
36	COMPUTER ARCHITECTURE	73.04	2
		82.71	2
		75.65	2
		73.63	2
		86.27	2

		95.71	3
37	COMMUNICATION NETWORKS	75.92	2
		78.95	2
		83.17	2
		76.45	2
		77.35	2
		71.72	2
38	MEDICAL ELECTRONICS	84.67	2
		78.27	2
		90.82	2
		85.64	2
		73.2	2
		95.77	3
39	DIGITAL AUDIO ENGINEERING	79.93	2
		80.23	2
		62.32	2
		61.99	2
		67.92	2
		62.54	2
40	DIGITAL SIGNAL PROCESSING LAB	100	3
		100	3
		100	3
		100	3
		100	3
		100	3
41	COMMUNICATION SYSTEM LAB	100	3
		100	3
		100	3
		100	3
		100	3
		100	3
42	COMMUNICATION NETWORKS LAB	100	3
		100	3
		100	3
		100	3
		100	3
		100	3
43	MICROPROCESSORS AND MICROCONTROLLERS	55.48	1
		56.39	1
		50.54	1
		53.74	1
		48.99	1
		41.15	1
44	VLSI DESIGN	52.28	1

		60.78	1
		57.27	1
		49.77	1
		50.61	1
		43.19	1
45	WIRELESS COMMUNICATION	73.84	2
		71.33	2
		77.38	2
		65.62	2
		78.4	2
		55.09	1
46	PRINCIPLES OF MANAGEMENT	84.31	2
		75.21	2
		76.83	2
		75.18	2
		74.7	2
		64.83	2
47	TRANSMISSION LINES AND RF SYSTEMS	68.96	2
		60.18	1
		67.99	2
		70.59	2
		64.01	2
		53.31	1
48	MULTIMEDIA COMPRESSION AND COMMUNICATION	43.19	1
		42.24	1
		60.77	1
		68.26	2
		67.71	2
		37.86	1
49	MICROPROCESSORS AND MICROCONTROLLERS LAB	100	3
		100	3
		100	3
		100	3
		100	3
		100	3
50	VLSI DESIGN LAB	100	3
		100	3
		100	3
		100	3
		100	3
		100	3
51	TECHNICAL SEMINAR	100	3
		100	3
		100	3

		100	3
		100	3
		100	3
52	PROFESSIONAL COMMUNICATION	100	3
		100	3
		100	3
		100	3
		100	3
		100	3
		100	3
53	ANTENNAS AND MICROWAVE ENGINEERING	61.97	2
		66.77	2
		65.75	2
		65.85	2
		71.48	2
		89.17	2
54	OPTICAL COMMUNICATION	74.77	2
		76.37	2
		79.3	2
		70.07	2
		76.03	2
		59.84	1
55	EMBEDDED AND REAL TIME SYSTEMS	84.27	2
		75.2	2
		79.82	2
		82.94	2
		83.1	2
		85.07	2
56	AD HOC AND WIRELESS SENSOR NETWORKS	79.31	2
		80.11	2
		76.19	2
		80.19	2
		76.38	2
		57.44	1
57	TRANSDUCER ENGINEERING	92.32	3
		87.25	2
		89.42	2
		87.3	2
		82.35	2
		76.85	2
58	EMBEDDED LAB	100	3
		100	3
		100	3
		100	3
		100	3

		100	3
59	ADVANCED COMMUNICATION LAB	100	3
		100	3
		100	3
		100	3
		100	3
		100	3
60	PROFESSIONAL ETHICS IN ENGINEERING	38.4	1
		41.6	1
		22.86	1
		35.39	1
		29.68	1
		20	1
61	SATELLITE COMMUNICATION	83.87	2
		82.52	2
		84.87	2
		84.87	2
		84.87	2
		84.87	2
62	PROJECT WORK	100	3
		100	3
		100	3
		100	3
		100	3
		100	3



HOD/ECE

PROGRAM OUTCOMES AND PROGRAM SPECIFIC OUTCOMES (2019-2023) Batch TARGET

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C101									3.00	3.00	2.00	3.00	1.00	2.00
C102	3.00	2.67	1.67	1.67	0.67				1.00	1.00		2.00		
C103	1.50	2.00	2.00	1.50	1.83		0.50	1.50		0.50		1.17	2.00	1.00
C104	3.00	2.00	1.00	1.00	0.00	1.00	2.00		1.00	1.00	1.00	1.00		
C105	3.00	3.00	3.00	2.33	1.00				2.00	1.17	0.67	1.83	2.33	2.50
C106	2.00		3.00		1.00	1.00	1.00	2.00	3.00	3.00		2.00	2.00	2.00
C107	3.00	2.00	2.00	1.00	-	-	-	1.00	2.00	1.00	1.00	1.00	2.00	1.00
C108	3.00	2.00	2.00	2.00	-	1.00	-	1.00	2.00	2.00	1.00	1.00	-	2.00
C109									3.00	3.00	2.00	3.00	1.00	2.00
C110	3	2	1.4	1.166667	1				1.166667			2.166667		
C111	3	2	2	1								1	1	2
C112	3	2.33	2.33										2.17	2
C113	3	3	1	2					1	1		2	2	
C114	3	3	3	1	1						1	1	3	1
C115	3	3	3	1	1	1	-	-	1	1	1	1	2	-
C116	3.00	2.67	3.00	2.00	2.00	1.00	-	-	-	-	-	-	1.00	2.33
C201	3.00	2.00	1.00	1.00	1.00	0.00	1.00		1.00	2.00		2.00	1.00	1.00
C202	3.00	3.00	2.00	2.00	1.00				1.00	1.00			2.50	2.00
C203	2.00	2.00	2.00	1.00	2.00			1.00	1.00	1.00	1.00	2.00	2.00	1.00
C204	2.00	2.00	2.00	1.00	1.00					1.00		0.67	2.00	2.00
C205	2.00	2.00	2.00	1.17	1.00					1.00		1.00	2.00	2.00
C206	2.00	2.00	2.00	1.00	1.00					1.00		0.67	2.00	2.00
C207	3.00	3.00	2.00	2.00	1.00	-	-	-	1.00	1.00	-	1.00	3.00	2.00
C208	2.00	2.00	2.00	2.00	1.16	2.00	1.00	-	2.00	2.00	1.00	1.00	2.00	2.00
C209	-	-	-	-	-	-	-	1.00	3.00	3.00	1.00	2.00	-	-
C210	2	1.33			0.17					0.67	0.67	1.5	1.5	1.5
C211	2.00	1.00	1.00			2.00	2.00	1.00				0.33	2.00	1.00
C212	2	2	2	1	1	1	1	1	-	-	1	1	1	2
C213	2	2	2	1	1					1		0.67	2	2
C214	2	2	2	2	2	2					2	2	2	2
C215	2					1	3	2	1	2	0	2	2	2
C216	2	2	1	1	1	-	-	-	1	2	1	1	2	2
C217	3	3	3	3	3	2	-	-	-	-	3	2	2	3

C301	2	2	2	1.67	2	1			1	1	1	2	1.67	2
C302	3	3	3	2	3	1	1	1.17	2	2	2	2	3	3
C303	2	2	2	2		1					1	1	3	3
C304	2	2	1	1	1					1		1	1	2
C305	2	2	2	1	0.67	2	2	1		1	1	2	2	1
C306	2	2	2	1	1.17	1	1			1		2	2	2
C307	2	2	2	2	2	1	1	-	2	2	2	2	2	2
C308	2	2	2	1	1	-	-	1	1	2	1	1	2	2
C309	2	2	2	2	2	1	1	-	2	2	2	2	2	2
C310	2.00	2.00	1.00	1.00	1.00	0.83	0.83	0.17		0.50	1.00	1.00	2.00	2.00
C311	2	2	2	2	1	1.5	1.17	1.5	1	1	1	2	2.17	2
C312	2	2	1	1						2	1	1	2	2
C313	3	1.83	2	2		2		2			1.83	2.67	2	
C314	3	3	3	1	1						1	1	3	1
C315	2	2	2	1	1	1	1	1			1	1	1	2
C316	3	3	3	3	2	-	-	-	2	2	2	2	1	1
C317	1.67	1.17	1.00	1.00	1.00	1.17	1.17	-	-	2.00	1.00	1.00	1.67	1.17
C318	2	2	2	2	1	2	2	1	2	2	2	2	1	2
C319	-	-	-	-	-	1	-	2	3	3	-	3	1	-
C401	3.00	3.00	3.00	2.00	3.00	2.00		1.00	2.00	2.00	3.00	3.00	3.00	3.00
C402	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00
C403	2.00	2.00	1.00	1.00	1.00				1.00	1.00	1.00	1.00	2.00	2.00
C404	2	2	1	1	1	1	1	1		1	1	1	2	
C406	2.00	2.00	2.00	1.00	1.00						3.00	2.00	1.00	1.00
C407	2.00	1.00	1.00	1.00	-	-	-	-	-	-	-	-	2.00	1.00
C408	2.00	1.00	1.00	1.00	-	-	-	-	-	-	1.00	2.00	2.00	2.00
C409PE4	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	2.00	2.00
C410PE5	2.00	2.00	1.17	1.00	1.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	2.00	2.00
C411	2	2	1	1	1				1	1	1	1	2	2
AVERAGE	2.36	2.18	1.90	1.48	1.31	1.33	1.30	1.23	1.67	1.54	1.34	1.55	1.91	1.88

H. Ong
HOD/ECE

PROGRAM OUTCOMES AND PROGRAM SPECIFIC OUTCOMES (2019-2023) Batch ATTAINED

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C101									2.33	2.33	1.56	2.33	0.78	1.56
C102	1.00	0.89	0.56	0.56	0.22				0.33	0.33		0.67		
C103	1.00	1.00	1.00	1.00	0.61		1.00	1.00		0.50		0.78	0.67	0.33
C104	1.00	0.67	0.33	0.33		0.33	0.67		0.33	0.61	0.33	0.33		
C105	1.83	1.83	1.83	1.83	0.61				1.22	0.72	0.67	1.17	1.50	1.56
C106	0.78		1.17		0.39	0.39	0.39	0.78	1.17	1.17		0.78	0.78	0.78
C107	3.00	2.00	2.00	1.00	-	-	-	1.00	2.00	1.00	1.00	1.00	2.00	1.00
C108	3.00	2.00	2.00	2.00	-	1.00	-	1.00	2.00	2.00	1.00	1.00	-	2.00
C109									1.5	1.5	1	1.5	0.5	1
C110	1.33	0.80	0.60	0.56	0.44				0.50			0.94		
C111	1.00	0.67	0.67	0.33								0.33	0.33	0.67
C112	1.17	0.94	0.94										0.83	0.78
C113	1.00	1.00	0.33	0.67					0.33	0.33		0.67	0.67	
C114	1.00	1.00	1.00	0.33	0.33						0.33	0.33	1.00	0.33
C115	3.00	3.00	3.00	1.00	1.00	1.00	-	-	1.00	1.00	1.00	1.00	2.00	-
C116	3.00	2.67	3.00	2.00	2.00	1.00	-	-	-	-	-	-	1.00	2.33
C201	1.83	1.22	0.61	0.61	0.61	-	0.61	-	0.61	1.22	-	1.22	0.61	0.61
C202	2.50	2.50	1.67	1.67	0.83	-	-	-	0.83	0.83	-	-	2.60	1.67
C203	1.89	1.89	1.89	0.94	1.89	-	-	0.94	0.94	0.94	0.94	1.89	1.89	0.94
C204	1.89	1.89	1.89	0.94	0.94	-	-	-	-	0.94	-	0.94	1.89	1.89
C205	1.67	1.67	1.67	0.94	0.83	-	-	-	-	0.83	-	0.83	1.67	1.67
C206	1.33	1.33	1.33	0.67	0.67	-	-	-	-	0.67	-	0.67	1.33	1.33
C207	3.00	3.00	2.00	2.00	1.00	-	-	-	1.00	1.00	-	1.00	3.00	2.00
C208	2.00	2.00	2.00	2.00	1.16	2.00	1.00	-	2.00	2.00	1.00	1.00	2.00	2.00
C209	-	-	-	-	-	-	-	1.00	3.00	3.00	1.00	2.00	-	-
C210	1.78	2.00	-	-	1.00	-	-	-	-	1.00	1.00	1.39	1.39	1.39
C211	1.78	0.89	0.89	-	-	1.78	1.78	0.72	-	-	-	0.83	1.78	0.89
C212	1.56	1.56	1.56	0.78	0.78	-	-	-	-	0.78	-	0.83	1.56	1.56
C213	1.56	1.56	1.56	0.78	0.78	-	-	-	-	0.78	-	0.78	1.56	1.56
C214	1.56	1.56	1.56	1.56	1.56	1.56	-	-	-	-	1.56	1.56	1.67	1.72
C215	1.78	-	-	-	-	0.89	2.67	1.78	0.72	1.78	-	1.78	1.78	1.78
C216	2.00	2.00	1.00	1.00	1.00	-	-	-	1.00	2.00	1.00	1.00	2.00	2.00
C217	3.00	3.00	3.00	3.00	3.00	2.00	-	-	-	-	3.00	2.00	2.00	3.00
C301	1.33	1.33	1.33	1.11	1.33	0.67			0.67	0.67	0.67	1.33	1.11	1.33
C302	2.17	2.17	2.17	1.44	2.17	0.72	0.72	0.89	1.44	1.44	1.44	1.44	2.17	2.17
C303	1.44	1.44	1.44	1.44		0.72					0.72	0.72	2.17	2.17
C304	1.33	1.33	0.67	0.67	0.67					0.67		0.67	0.67	1.33
C305	1.44	1.44	1.44	0.72	0.67	1.44	1.44	0.72		0.72	0.72	1.44	1.44	0.72
C306	1.33	1.33	1.33	0.67	0.78	0.67	0.67			0.67		1.33	1.33	1.33

C307	2.00	2.00	2.00	2.00	2.00	1.00	1.00	-	2.00	2.00	2.00	2.00	2.00	2.00
C308	2.00	2.00	2.00	1.00	1.00	-	-	1.00	1.00	2.00	1.00	1.00	2.00	2.00
C309	2.00	2.00	2.00	2.00	2.00	1.00	1.00	-	2.00	2.00	2.00	2.00	2.00	2.00
C310	0.67	0.67	0.33	0.33	0.33	0.28	0.28	0.33		0.33	0.33	0.33	0.67	0.67
C311	0.67	0.67	0.67	0.67	0.33	0.50	0.39	0.50	0.33	0.33	0.33	0.67	0.72	0.67
C312	1.22	1.22	0.61	0.61						1.22	0.61	0.61	1.22	1.22
C313	2.00	1.22	1.33	1.33		1.33		1.33			1.22	1.78	1.33	
C314	1.67	1.67	1.67	0.56	0.56						0.56	0.56	1.67	0.56
C315	0.89	0.89	0.89	0.44	0.44	0.44	0.44	0.44			0.44	0.44	0.44	0.89
C316	3.00	3.00	3.00	3.00	2.00	-	-	-	2.00	2.00	2.00	2.00	1.00	1.00
C317	1.67	1.17	1.00	1.00	1.00	1.17	1.17	-	-	2.00	1.00	1.00	1.67	1.17
C318	2.00	2.00	2.00	2.00	1.00	2.00	2.00	1.00	2.00	2.00	2.00	2.00	1.00	2.00
C319	-	-	-	-	-	1.00	-	2.00	3.00	3.00	-	3.00	1.00	-
C401	2.00	2.00	2.00	1.33	2.00	1.33		0.67	1.33	1.33	2.00	2.00	2.00	2.00
C402	1.22	1.22	0.61	0.61	0.61	0.60	0.58	0.50	0.61	0.61	0.61	0.61	1.22	1.22
C403	1.33	1.33	0.67	0.67	0.67				0.67	0.67	0.67	0.61	0.61	1.22
C404	1.22	1.22	0.61	0.61	0.61	0.61	0.61	0.61		0.61	0.61	0.61	0.61	1.22
C406OE2	1.44	1.44	1.44	0.72	0.72						2.17	1.44	0.72	0.72
C407	2.00	1.00	1.00	1.00	-	-	-	-	-	-	-	-	2.00	1.00
C408	2.00	2.00	2.00	2.00	2.00	2.00	-	-	-	-	1.00	2.00	2.00	2.00
C409PE4	0.67	0.67	0.39	0.33	0.33	0.67	0.67	0.67	0.33	0.33	0.33	0.33	0.67	0.67
C410PE5	1.33	1.33	0.67	0.67	0.67					0.67	0.67	0.67	1.33	1.33
C411	3.00	3.00	2.00	3.00	3.00	2.00	1.00	1.00	3.00	3.00	2.00	2.00	3.00	3.00
AVERAGE	1.71	1.59	1.40	1.14	1.06	1.07	0.96	0.90	1.31	1.22	1.09	1.16	1.44	1.41

K. S. S.
HOD/EEG

COURSE CODE / TITLE	HS8151 Communicative English	NBA Code	C101
SEMESTER / YEAR	1 / I	Academic year	2019-2020
COORDINATOR	Ms. S Sandra / Mr. A Narayanan	Credits	4
Level 1 (0-69%), Level 2 (70-79%) and Level 3 (above 80%)			

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT)	CO-Attainment University (CO-UNI)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI)	Indirect CO Attainment (Course End Survey)	Over all CO Attainment (0.8xDirect + 0.2xIndirect)	Target	CO Attainment Level
C101.1	53.56	89	74.824	89.9	77.8392	60	2
C101.2	61.49	89	77.996	89.7	80.3368	60	3
C101.3	60.68	89	77.672	86.94	79.5256	60	3
C101.4	44.5	89	71.2	88.98	74.756	60	2
C101.5	35.44	89	67.576	89.24	71.9088	60	2
C101.6	36.57	89	68.028	91.6	72.7424	60	2

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C101.1									3	3	2	3	1	2
C101.2									3	3	2	3	1	2
C101.3									3	3	2	3	1	2
C101.4									3	3	2	3	1	2
C101.5									3	3	2	3	1	2
C101.6									3	3	2	3	1	2
C101									3	3	2	3	1	2

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C101.1									2.00	2.00	1.33	2.00	0.67	1.33
C101.2									3.00	3.00	2.00	3.00	1.00	2.00
C101.3									3.00	3.00	2.00	3.00	1.00	2.00
C101.4									2.00	2.00	1.33	2.00	0.67	1.33
C101.5									2.00	2.00	1.33	2.00	0.67	1.33
C101.6									2.00	2.00	1.33	2.00	0.67	1.33
C101									2.33	2.33	1.56	2.33	0.78	1.56

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C101									3.00	3.00	2.00	3.00	1.00	2.00
Attainment									2.33	2.33	1.56	2.33	0.78	1.56

H. Bng
HOD

COURSE CODE / TITLE	MARIST ENGINEERING MATHEMATICS - I	NBA Code	C102
SEMESTER / YEAR	I / I	Academic year	2019-2020
COORDINATOR	Ms S Revathi / Mr Arunkumar	Credits	4

Level 1 (0-69%), Level 2 (70-79%) and Level 3 (above 80%)

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT)	CO-Attainment University (CO-UNI)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI)	Indirect CO Attainment (Course End Survey)	Over all CO Attainment (0.8xDirect + 0.2xIndirect)	Target	CO Attainment Level
C102.1	18.45	75	52.38	81.58	58.22	60	1
C102.2	47.73	75	64.092	83.78	68.0296	60	1
C102.3	6.8	75	47.72	78.42	53.86	60	1
C102.4	15.37	75	51.148	79.86	56.8904	60	1
C102.5	16.18	75	51.472	81.17	57.4116	60	1
C102.6	20.87	75	53.348	82.34	59.1464	60	1

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C102.1	3	2	1	1					1	1		2		
C102.2	3	3	2	2	1				1	1		2		
C102.3	3	2	1	1					1	1		2		
C102.4	3	3	2	2	1				1	1		2		
C102.5	3	3	2	2	1				1	1		2		
C102.6	3	3	2	2	1				1	1		2		
C102	3	2.67	1.67	1.67	0.67				1	1		2		

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C102.1	1.00	0.67	0.33	0.33	0.00				0.33	0.33		0.67		
C102.2	1.00	1.00	0.67	0.67	0.33				0.33	0.33		0.67		
C102.3	1.00	0.67	0.33	0.33	0.00				0.33	0.33		0.67		
C102.4	1.00	1.00	0.67	0.67	0.33				0.33	0.33		0.67		
C102.5	1.00	1.00	0.67	0.67	0.33				0.33	0.33		0.67		
C102.6	1.00	1.00	0.67	0.67	0.33				0.33	0.33		0.67		
C102	1.00	0.89	0.56	0.56	0.22				0.33	0.33		0.67		

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C102	3	2.67	1.67	1.67	0.67				1	1		2		
Attainment	1	0.888889	0.555556	0.555556	0.222222				0.333333	0.333333		0.666667		

HOD

COURSE CODE / TITLE	PH8151 ENGINEERING PHYSICS	NBA Code	C103
SEMESTER / YEAR	I / I	Academic year	2019-2020
COORDINATOR	Mr P Senthikumar / Mr K Karthikyan	Credits	3
Level 1 (0-60%), Level 2 (70-79%) and Level 3 (above 80%)			

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT)	CO-Attainment University (CO-UNI)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI)	Indirect CO Attainment (Course End Survey)	Over all CO Attainment (0.8xDirect + 0.2xIndirect)	Target	CO Attainment Level
C103.1	51.88	85	63.752	87.15	68.4316	65	1
C103.2	25.89	85	61.356	81.93	65.4708	65	1
C103.3	4.53	85	52.812	85.48	59.3456	65	1
C103.4	0	85	51	82.53	57.306	65	1
C103.5	31.88	85	63.752	83.27	67.6556	65	1
C103.6	0	85	51	82.26	57.252	65	1

Expected CO PQ level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
103.1	3	3	3	3	1					2		3	2	1
103.2					2		3			1		2	2	1
103.3		3	3	3	1							2	2	1
103.4		3		3	3			3					2	1
103.5	3	3	3		3			3					2	1
103.6	3		3		1			3					2	1
C103	3	3	3	3.00	1.83		3.00	3.00		1.50		2.33	2.00	1.00

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
103.1	1.00	1.00	1.00	1.00	0.33					0.67		1.00	0.67	0.33
103.2					0.67		1.00			0.33		0.67	0.67	0.33
103.3		1.00	1.00	1.00	0.33							0.67	0.67	0.33
103.4		1.00		1.00	1.00			1.00					0.67	0.33
103.5	1.00	1.00	1.00		1.00			1.00					0.67	0.33
103.6	1.00		1.00		0.33			1.00					0.67	0.33
C103	1.00	1.00	1.00	1.00	0.61		1.00	1.00		0.50		0.78	0.67	0.33

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C103	3.00	3.00	3.00	3.00	1.83		3.00	3.00		1.50		2.33	2.00	1.00
Attainment	1.00	1.00	1.00	1.00	0.61		1.00	1.00		0.50		0.78	0.67	0.33

H. S. S.
HOD

COURSE CODE / TITLE	CY8151 ENGINEERING CHEMISTRY	NBA Code	C104
SEMESTER / YEAR	I / I	Academic year	2019-2020
COORDINATOR	Mr. B. Balaprasad / Mr. V. Balamurugan	Credits	3

Level 1 (0-60%) Level 2 (70-79%) and Level 3 (above 80%)

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT)	CO-Attainment University (CO-UNI)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI)	Indirect CO Attainment (Course End Survey)	Over all CO Attainment (0.8xDirect + 0.2xIndirect)	Target	CO Attainment Level
C104.1	25.4	83	59.96	88.43537415	65.6550748	65	1
C104.2	21.52	83	58.408	86.39455782	64.0053116	65	1
C104.3	22.82	83	58.928	86.73469388	64.4893388	65	1
C104.4	0	83	49.8	86.73469388	57.1869388	65	1
C104.5	14.08	83	55.432	84.3537415	61.2163483	65	1
C104.6	17.64	83	56.856	88.0952381	63.1038476	65	1

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C104.1	3	2	1	1		1	2		1	1	1	1		
C104.2	3	2	1	1		1	2		1	2	1	1		
C104.3	3	2	1	1		1	2		1	2	1	1		
C104.4	3	2	1	1		1	2		1	2	1	1		
C104.5	3	2	1	1		1	2		1	2	1	1		
C104.6	3	2	1	1		1	2		1	2	1	1		
C104	3	2	1	1		1	2		1	2	1	1		

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C104.1	1.00	0.67	0.33	0.33		0.33	0.67		0.33	0.33	0.33	0.33		
C104.2	1.00	0.67	0.33	0.33		0.33	0.67		0.33	0.67	0.33	0.33		
C104.3	1.00	0.67	0.33	0.33		0.33	0.67		0.33	0.67	0.33	0.33		
C104.4	1.00	0.67	0.33	0.33		0.33	0.67		0.33	0.67	0.33	0.33		
C104.5	1.00	0.67	0.33	0.33		0.33	0.67		0.33	0.67	0.33	0.33		
C104.6	1.00	0.67	0.33	0.33		0.33	0.67		0.33	0.67	0.33	0.33		
C104	1.00	0.67	0.33	0.33		0.33	0.67		0.33	0.67	0.33	0.33		

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C104	3	2	1	1		1	2		1	2	1	1		
Attainment	1	0.67	0.33	0.33		0.33	0.67		0.33	0.61	0.33	0.33		

H. S. J.
HOD

COURSE CODE / TITLE	GES151 PROBLEM SOLVING AND PYTHON PROGRAMMING	NBA Code	C105
SEMESTER / YEAR	1 / 1	Academic year	2019-2020
COORDINATOR	Ms. J Sangeethapriya / Ms. R Keerthana	Credits	3
Level 1 (0-69%), Level 2 (70-79%) and Level 3 (above 80%)			

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT)	CO-Attainment University (CO-UNI)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI)	Indirect CO Attainment (Course End Survey)	Over all CO Attainment (0.8xDirect + 0.2xIndirect)	Target	CO Attainment Level
C105.1	46.93	86	70.372	92.43986254	74.7855725	65	2
C105.2	49.51	86	71.404	94.50171821	76.0235436	65	2
C105.3	49.84	86	71.536	93.81443299	75.9916866	65	2
C105.4	55.18	86	73.672	90.03436426	76.9444729	65	2
C105.5	32.2	86	64.48	93.81443299	70.3468866	65	2
C105.6	16.5	86	58.2	91.0652921	64.7730584	65	1

Expected CO PO level

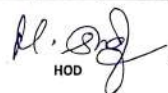
Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C105.1	3	3	3	3	1				2	2	1	2	3	3
C105.2	3	3	3	3	1				1	1	1	2	3	3
C105.3	3	3	3	3	1				2	1	1	2	3	3
C105.4	3	3	3	3	1				2	1	1	2	2	2
C105.5	3	3	3	3	1				3	1		2	2	2
C105.6	3	3	3	3	1				2	1		1	1	2
C105	3	3	3	3	1				2	1.17	1	1.83	2.33	2.5

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C105.1	2.00	2.00	2.00	2.00	0.67				1.33	1.33	0.67	1.33	2.00	2.00
C105.2	2.00	2.00	2.00	2.00	0.67				0.67	0.67	0.67	1.33	2.00	2.00
C105.3	2.00	2.00	2.00	2.00	0.67				1.33	0.67	0.67	1.33	2.00	2.00
C105.4	2.00	2.00	2.00	2.00	0.67				1.33	0.67	0.67	1.33	1.33	1.33
C105.5	2.00	2.00	2.00	2.00	0.67				2.00	0.67		1.33	1.33	1.33
C105.6	1.00	1.00	1.00	1.00	0.33				0.67	0.33		0.33	0.33	0.67
C105	1.83	1.83	1.83	1.83	0.61				1.22	0.72	0.67	1.17	1.50	1.56

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C105	3.00	3.00	3.00	3.00	1.00				2.00	1.17	1.00	1.83	2.33	2.50
Attainment	1.83	1.83	1.83	1.83	0.61				1.22	0.72	0.67	1.17	1.50	1.56


HOD

COURSE CODE / TITLE	GE1152 ENGINEERING GRAPHICS	NBA Code	C106
SEMESTER / YEAR	1 / 1	Academic year	2019-2020
COORDINATOR	Mr M Sridharan / Mr Amar	Credits	3
Level 1 (0-69%) Level 2 (70-79%) and Level 3 (above 80%)			

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT)	CO-Attainment University (CO-UNI)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI)	Indirect CO Attainment (Course End Survey)	Over all CO Attainment (0.8xDirect + 0.2xIndirect)	Target	CO Attainment Level
C106.1	96.43	81	63.164	82.33058439	66.9573168	65	1
C106.2	21.3	81	57.12	81.78694158	62.0533883	65	1
C106.3	30.26	81	60.704	86.59793814	65.8627876	65	1
C106.4	50.65	81	68.86	87.28522337	72.5450447	65	2
C106.5	59	81	64.2	86.25429553	68.6108591	65	1
C106.6	24.6	81	58.44	86.25429553	64.0028591	65	1

Expected CG PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C106.1	2		3		1	1	1	2	3	3		2	2	2
C106.2	2		3		1	1	1	2	3	3		2	2	2
C106.3	2		3		1	1	1	2	3	3		2	2	2
C106.4	2		3		1	1	1	2	3	3		2	2	2
C106.5	2		3		1	1	1	2	3	3		2	2	2
C106.6	2		3		1	1	1	2	3	3		2	2	2
C106	2		3		1	1	1	2	3	3		2	2	2

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C106.1	0.67		1.00		0.33	0.33	0.33	0.67	1.00	1.00		0.67	0.67	0.67
C106.2	0.67		1.00		0.33	0.33	0.33	0.67	1.00	1.00		0.67	0.67	0.67
C106.3	0.67		1.00		0.33	0.33	0.33	0.67	1.00	1.00		0.67	0.67	0.67
C106.4	1.33		2.00		0.67	0.67	0.67	1.33	2.00	2.00		1.33	1.33	1.33
C106.5	0.67		1.00		0.33	0.33	0.33	0.67	1.00	1.00		0.67	0.67	0.67
C106.6	0.67		1.00		0.33	0.33	0.33	0.67	1.00	1.00		0.67	0.67	0.67
C106	0.78		1.17		0.39	0.39	0.39	0.78	1.17	1.17		0.78	0.78	0.78

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C106	2		3		1	1	1	2	3	3		2	2	2
Attainment	0.78		1.17		0.39	0.39	0.39	0.78	1.17	1.17		0.78	0.78	0.78

H. Sridharan
HOD

COURSE CODE / TITLE	GE8161/PROBLEM SOLVING AND PYTHON PROGRAMMING	NBA Code	C107
SEMESTER / YEAR	I sem. I	Academic year	2019-2020
COORDINATOR	Ms.J Sangeetha Priya, Ms Sheelavathi	Credits	2
Level 1 (60-69%), Level 2 (70-79%) and Level 3 (above 80%)			

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT)	CO-Attainment University (CO-UNI)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI)	Indirect CO Attainment (Course End Survey)	Over all CO Attainment (0.8xDirect + 0.2xIndirect)	Target	CO Attainment Level
107.1	100.00	97.50	98.50	90.034	96.81	80	3
107.2	100.00	97.50	98.50	91.753	97.15	80	3
107.3	100.00	97.50	98.50	90.722	96.94	80	3
107.4	100.00	97.50	98.50	87.973	96.39	80	3
107.5	100.00	97.50	98.50	91.409	97.08	80	3
107.6	100.00	97.50	98.50	86.254	96.05	80	3

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C107.1	3	3	3	2	1	-	-	-	2	1	2	3	3	2
C107.2	3	3	3	2	1	-	-	-	2	1	2	3	3	2
C107.3	3	3	3	2	1	-	-	-	2	1	3	3	3	2
C107.4	3	3	3	2	1	-	-	-	2	1	1	3	3	2
C107.5	3	3	3	2	1	-	-	-	2	1	1	3	3	2
C107.6	3	3	3	2	1	-	-	-	2	1	1	3	3	2
LEVEL	3	3	3	2	1	-	-	-	2	1	1.666667	3	3	2

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C107.1	3	3	3	2	1	-	-	-	2	1	2	3	3	2
C107.2	3	3	3	2	1	-	-	-	2	1	2	3	3	2
C107.3	3	3	3	2	1	-	-	-	2	1	3	3	3	2
C107.4	3	3	3	2	1	-	-	-	2	1	1	3	3	2
C107.5	3	3	3	2	1	-	-	-	2	1	1	3	3	2
C107.6	3	3	3	2	1	-	-	-	2	1	1	3	3	2
Level	3.00	3.00	3.00	2.00	1.00	-	-	-	2.00	1.00	1.67	3.00	3.00	2.00

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C107	3	3	3	2	1	-	-	-	2	1	1.666667	3	3	2
Attainment	3.00	3.00	3.00	2.00	1.00	-	-	-	2.00	1.00	1.67	3.00	3.00	2.00

H. S. S. S.
HOD/ECE

COURSE CODE / TITLE	BSS161[PHYSICS AND CHEMISTRY LABORATORY]	NBA Code	C108
SEMESTER / YEAR	I sem / I	Academic year	2019-2020
COORDINATOR	V SARAVANADEVI, G.TULASI	Credits	2

Level 1 (60-69%), Level 2 (70-79%) and Level 3 (above 80%)

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT)	CO-Attainment University (CO-UNI)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI)	Indirect CO Attainment (Course End Survey)	Over all CO Attainment (0.8xDirect + 0.2xIndirect)	Target	CO Attainment Level
C108.1	100.00	97.50	99	77.67	94.33	80	3
C108.2	100.00	97.50	99	79.00	94.60	80	3
C108.3	100.00	97.50	99	81.33	95.07	80	3
C108.4	100.00	97.50	99	89.33	96.67	80	3
C108.5	100.00	97.50	99	87.33	96.27	80	3
C108.6	85.00	97.50	93	89.67	91.93	80	3

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C108.1	3	2	2	2	-	1	-	1	2	2	-	2	-	-
C108.2	3	2	2	2	-	1	-	1	2	2	-	2	-	-
C108.3	3	2	3	2	-	1	-	1	2	2	-	2	-	-
C108.4	3	2	1	1	-	1	-	1	2	-	1	1	-	-
C108.5	3	2	1	1	-	1	-	1	2	-	1	1	-	-
C108.6	3	2	1	1	-	1	-	1	2	-	1	1	-	-
LEVEL	3	2	1.67	1.5	-	1	-	1	2	2	1	1.5	-	-

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C108.1	3.00	2.00	2.00	2.00	-	1	-	1	2	2	-	1	-	-
C108.2	3.00	2.00	2.00	2.00	-	1	-	1	2	2	-	1	-	-
C108.3	3.00	2.00	3.00	2.00	-	1	-	1	2	2	-	1	-	-
C108.4	3.00	2.00	1.00	1.00	-	1	-	1	2	-	1	1	-	-
C108.5	3.00	2.00	1.00	1.00	-	1	-	1	2	-	1	1	-	-
C108.6	3.00	2.00	1.00	1.00	-	1	-	1	2	-	1	1	-	-
Level	3.00	2.00	1.67	1.50	-	1	-	1	2	2	1	1.5	-	-

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C108	3	2	1.67	1.5	-	1	-	1	2	2	1	1.5	-	-
Attainment	3.00	2.00	1.67	1.50	-	1.00	-	1.00	2.00	2.00	1.00	1.50	-	-

H. S. S.
HOD/ECE

COURSE CODE / TITLE	HS8251 TECHNICAL ENGLISH	NBA Code	C109
SEMESTER / YEAR	II sem/ I	Academic year	2019-2020
COORDINATOR	Dr.M.Bhuvaneswari / Ms.S.Sandra	Credits	4
CO Attainment Level: 1 - (0% - 60%) 2- (61%-90%) 3-(91% and Above)			

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UNI) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI) (%)	Indirect CO Attainment (Course End Survey)	Over all CO Attainment (0.8xDirect + 0.2xIndirect) (%)	Over all CO Attainment Level
C109.1	80	86	83.6	0	66.88	2
C109.2	55.83	86	73.93	0	59.15	1
C109.3	70.83	86	79.93	0	63.95	2
C109.4	29.17	86	63.27	0	50.61	1
C109.5	0	86	51.6	0	41.28	1
C109.6	63.33	86	76.93	0	61.55	2

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C109.1									3	3	2	3	1	2
C109.2									3	3	2	3	1	2
C109.3									3	3	2	3	1	2
C109.4									3	3	2	3	1	2
C109.5									3	3	2	3	1	2
C109.6									3	3	2	3	1	2
C109									3	3	2	3	1	2

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C109.1									2.00	2.00	1.33	2.00	0.67	1.33
C109.2									1.00	1.00	0.67	1.00	0.33	0.67
C109.3									2.00	2.00	1.33	2.00	0.67	1.33
C109.4									1.00	1.00	0.67	1.00	0.33	0.67
C109.5									1.00	1.00	0.67	1.00	0.33	0.67
C109.6									2.00	2.00	1.33	2.00	0.67	1.33
Level									1.50	1.50	1.00	1.50	0.50	1.00

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C109									3	3	2	3	1	2
Attainment									1.50	1.50	1.00	1.50	0.50	1.00

H. S. S.
HOD/ECE

COURSE CODE / TITLE	MAR251 ENGINEERING MATHEMATICS - II	NBA Code	C110
SEMESTER / YEAR	II sem. I	Academic year	2019-2020
COORDINATOR	Dr. S. Arunkumar / Ms. N. Subashini	Credits	4
CO Attainment Level: 1-(0%-60%) 2-(61%-90%) 3-(91% and Above)			

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UNT) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNT) (%)	Indirect CO Attainment (Course End Survey)	Over all CO Attainment (0.8xDirect + 0.2xIndirect) (%)	Over all CO Attainment Level
C110.1	58.33	92.50	78.83	0	63.0656	2
C110.2	46.67	92.50	74.17	0	59.3344	1
C110.3	58.33	92.50	78.83	0	63.0656	2
C110.4	0.00	92.50	55.50	0	44.4	1
C110.5	0.00	92.50	55.50	0	44.4	1
C110.6	0.00	92.50	55.50	0	44.4	1

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C110.1	3	-	-	1	1				1			2		
C110.2	3	2	2	1	1				1			2		
C110.3	3	2	2	2	1				1			2		
C110.4	3	2	1	1	1				1			2		
C110.5	3	2	1	1	1				1			2		
C110.6	3	2	1	1	1				2			3		
LEVEL	3	2	1.4	1.17	1.00				1.17			2.17		

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C110.1	2.00	-	-	0.67	0.67				0.67			1.33		
C110.2	1.00	0.67	0.67	0.33	0.33				0.33			0.67		
C110.3	2.00	1.33	1.33	1.33	0.67				0.67			1.33		
C110.4	1.00	0.67	0.33	0.33	0.33				0.33			0.67		
C110.5	1.00	0.67	0.33	0.33	0.33				0.33			0.67		
0	1.00	0.67	0.33	0.33	0.33				0.67			1.00		
Level	1.33	0.80	0.60	0.56	0.44				0.50			0.94		

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C110	3.00	2.00	1.40	1.17	1.00				1.17			2.17		
Attainment	1.33	0.80	0.60	0.56	0.44				0.50			0.94		

[Signature]
HOD/ECE

COURSE CODE / TITLE	PHR253 PHYSICS FOR ELECTRONICS ENGINEERING	NBA Code	C111
SEMESTER / YEAR	II sem. I	Academic year	2019-2020
COORDINATOR	Dr. P. Senthikumar / Ms. V. Saraswathi	Credits	3
CO Attainment Level: 1 - (0% - 60%) 2 - (61% - 90%) 3 - (91% and Above)			

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UNT) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNT) (%)	Indirect CO Attainment (Course End Survey) (%)	Over all CO Attainment (0.8xDirect + 0.2xIndirect) (%)	Over all CO Attainment Level
C111.1	50.83	69	61.73	0	49.39	1
C111.2	43.33	69	58.73	0	46.99	1
C111.3	0	69	41.4	0	33.12	1
C111.4	0	69	41.4	0	33.12	1
C111.5	0	69	41.4	0	33.12	1
C111.6	0	69	41.4	0	33.12	1

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C111.1	3	2	2	1								1	1	2
C111.2	3	2	2	1								1	1	2
C111.3	3	2	2	1								1	1	2
C111.4	3	2	2	1								1	1	2
C111.5	3	2	2	1								1	1	2
C111.6	3	2	2	1								1	1	2
C111	3	2	2	1								1	1	2

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C111.1	1.00	0.67	0.67	0.33								0.33	0.33	0.67
C111.2	1.00	0.67	0.67	0.33								0.33	0.33	0.67
C111.3	1.00	0.67	0.67	0.33								0.33	0.33	0.67
C111.4	1.00	0.67	0.67	0.33								0.33	0.33	0.67
C111.5	1.00	0.67	0.67	0.33								0.33	0.33	0.67
C111.6	1.00	0.67	0.67	0.33								0.33	0.33	0.67
Level	1.00	0.67	0.67	0.33								0.33	0.33	0.67

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C111	3	2	2	1								1	1	2
Attainment	1.00	0.67	0.67	0.33								0.33	0.33	0.67

H. S. S.
HOD/ECE

COURSE CODE / TITLE	BER254 BASIC ELECTRICAL AND INSTRUMENTATION ENGINEERING	NBA Code	C112
SEMESTER / YEAR	II sem / 1	Academic year	2019-2020
COORDINATOR	Mr S A gmeshwaran / Mr R Venugopal	Credits	3
CO Attainment Level: 1 - (0% - 60%) 2 - (61% - 80%) 3 - (81% and Above)			

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UNI) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI) (%)	Indirect CO Attainment (Course End Survey)	Over all CO Attainment (0.8xDirect + 0.2xIndirect) (%)	Over all CO Attainment Level
112.1	51.67	79	68.07	0	54.45	1
112.2	77.5	79	78.4	0	62.72	2
112.3	20.83	79	55.73	0	44.59	1
112.4	22.5	79	56.4	0	45.12	1
112.5	0	79	47.4	0	37.92	1
112.6	0	79	47.4	0	37.92	1

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
112.1	3	3	3										3	2
112.2	3	3	3										2	2
112.3	3	2	2										2	2
112.4	3	2	2										2	2
112.5	3	2	2										2	2
112.6	3	2	2										2	2
112	3	2.33	2.33										2.17	2

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
112.1	1.00	1.00	1.00										1.00	0.67
112.2	2.00	2.00	2.00										1.33	1.33
112.3	1.00	0.67	0.67										0.67	0.67
112.4	1.00	0.67	0.67										0.67	0.67
112.5	1.00	0.67	0.67										0.67	0.67
112.6	1.00	0.67	0.67										0.67	0.67
Level	1.17	0.94	0.94										0.83	0.78

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C112	3	2.33	2.33										2.17	2
Attainment	1.17	0.94	0.94										0.83	0.78

H. S. S.
HOD/ECE

COURSE CODE / TITLE	EC8251 CIRCUIT ANALYSIS	NBA Code	C113
SEMESTER / YEAR	II sem / I	Academic year	2019-2020
COORDINATOR	Ms.A.Shamim Banu / Ms.P.Sivagamasundhari	Credits	4
CO Attainment Level: 1 - (0% - 60%) 2- (61%-90%) 3- (91% and Above)			

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UNI) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI) (%)	Indirect CO Attainment (Course End Survey)	Over all CO Attainment (0.8xDirect + 0.2xIndirect) (%)	Over all CO Attainment Level
C113.1	30	47	40.2	0	32.16	1
C113.2	29.17	47	39.87	0	31.89	1
C113.3	0	47	28.2	0	22.56	1
C113.4	0	47	28.2	0	22.56	1
C113.5	0	47	28.2	0	22.56	1
C113.6	0	47	28.2	0	22.56	1

Expected CO PO level														
Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C113.1	3	3	1	2					1	1		2	2	
C113.2	3	3	1	2					1	1		2	2	
C113.3	3	3	1	2					1	1		2	2	
C113.4	3	3	1	2					1	1		2	2	
C113.5	3	3	1	2					1	1		2	2	
C113.6	3	3	1	2					1	1		2	2	
C113	3	3	1	2					1	1		2	2	

PO Attainment level														
Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C113.1	1.00	1.00	0.33	0.67					0.33	0.33		0.67	0.67	
C113.2	1.00	1.00	0.33	0.67					0.33	0.33		0.67	0.67	
C113.3	1.00	1.00	0.33	0.67					0.33	0.33		0.67	0.67	
C113.4	1.00	1.00	0.33	0.67					0.33	0.33		0.67	0.67	
C113.5	1.00	1.00	0.33	0.67					0.33	0.33		0.67	0.67	
C113.6	1.00	1.00	0.33	0.67					0.33	0.33		0.67	0.67	
Level	1.00	1.00	0.33	0.67					0.33	0.33		0.67	0.67	

Attainment of POs & PSOs level														
Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C113	3	3	1	2					1	1		2	2	
Attainment	1.00	1.00	0.33	0.67					0.33	0.33		0.67	0.67	

HOD/ECE

COURSE CODE / TITLE	EC8252 ELECTRONIC DEVICES	NBA Code	C114
SEMESTER / YEAR	II sem / I	Academic year	2019-2020
COORDINATOR	Mr.S.Hariprasath / Ms.G.Lakshmi	Credits	3
CO Attainment Level: 1 - (0% - 60%) 2 - (61% - 90%) 3 - (91% and Above)			

CO	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UNI) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI) (%)	Indirect CO Attainment (Course End Survey)	Over all CO Attainment (0.5xDirect + 0.2xIndirect) (%)	Over all CO Attainment Level
C114.1	64.17	67	65.87	0	52.69	1
C114.2	0	67	40.2	0	32.16	1
C114.3	0	67	40.2	0	32.16	1
C114.4	37.5	67	55.2	0	44.16	1
C114.5	0	67	40.2	0	32.16	1
C114.6	0	67	40.2	0	32.16	1

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C114.1	3	3	3	1	1						1	1	3	1
C114.2	3	3	3	1	1						1	1	3	1
C114.3	3	3	3	1	1						1	1	3	1
C114.4	3	3	3	1	1						1	1	3	1
C114.5	3	3	3	1	1						1	1	3	1
C114.6	3	3	3	1	1						1	1	3	1
C114	3	3	3	1	1						1	1	3	1

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C114.1	1.00	1.00	1.00	0.33	0.33						0.33	0.33	1.00	0.33
C114.2	1.00	1.00	1.00	0.33	0.33						0.33	0.33	1.00	0.33
C114.3	1.00	1.00	1.00	0.33	0.33						0.33	0.33	1.00	0.33
C114.4	1.00	1.00	1.00	0.33	0.33						0.33	0.33	1.00	0.33
C114.5	1.00	1.00	1.00	0.33	0.33						0.33	0.33	1.00	0.33
C114.6	1.00	1.00	1.00	0.33	0.33						0.33	0.33	1.00	0.33
Level	1.00	1.00	1.00	0.33	0.33						0.33	0.33	1.00	0.33

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C114	3	3	3	1	1						1	1	3	1
Attainment	1.00	1.00	1.00	0.33	0.33						0.33	0.33	1.00	0.33

H. S. S. J.
HOD/ECE

COURSE CODE / TITLE	EC8261 / Circuits and Devices lab	NBA Code	C115
SEMESTER / YEAR	II sem / 1	Academic year	2019-2020
COORDINATOR	S.Hariharasath, P.Sivagamasundhari	Credits	2
CO Attainment Level: 1 - (0% - 60%) 2 - (61% - 90%) 3 - (91% and Above)			

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UNI) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI) (%)	Target	Over all CO Attainment Level
C115.1	100.00	100.00	100.00	80	3
C115.2	100.00	100.00	100.00	80	3
C115.3	100.00	100.00	100.00	80	3
C115.4	100.00	100.00	100.00	80	3
C115.5	100.00	100.00	100.00	80	3
C115.6	100.00	100.00	100.00	80	3

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C115.1	3	3	3	1	1	1	-	-	1	1	1	1	2	-
C115.2	3	3	3	1	1	1	-	-	1	1	1	1	2	-
C115.3	3	3	3	1	1	1	-	-	1	1	1	1	2	-
C115.4	3	3	3	1	1	1	-	-	1	1	1	1	2	-
C115.5	3	3	3	1	1	1	-	-	1	1	1	1	2	-
C115.6	3	3	3	1	1	1	-	-	1	1	1	1	2	-
LEVEL	3	3	3	1	1	1	-	-	1	1	1	1	2	-

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C115.1	3.00	3.00	3.00	1.00	1.00	1.00	-	-	1.00	1.00	1.00	1.00	2.00	-
C115.2	3.00	3.00	3.00	1.00	1.00	1.00	-	-	1.00	1.00	1.00	1.00	2.00	-
C115.3	3.00	3.00	3.00	1.00	1.00	1.00	-	-	1.00	1.00	1.00	1.00	2.00	-
C115.4	3.00	3.00	3.00	1.00	1.00	1.00	-	-	1.00	1.00	1.00	1.00	2.00	-
C115.5	3.00	3.00	3.00	1.00	1.00	1.00	-	-	1.00	1.00	1.00	1.00	2.00	-
C115.6	3.00	3.00	3.00	1.00	1.00	1.00	-	-	1.00	1.00	1.00	1.00	2.00	-
Level	3.00	3.00	3.00	1.00	1.00	1.00	-	-	1.00	1.00	1.00	1.00	2.00	-

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C115	3	3	3	1	1	1	-	-	1	1	1	1	2	-
Attainment	3.00	3.00	3.00	1.00	1.00	1.00	-	-	1.00	1.00	1.00	1.00	2.00	-

H. S. S.
HOD/ECE

COURSE CODE / TITLE	GE8261[ENGINEERING PRACTICES LABORATORY]	NBA Code	C116
SEMESTER / YEAR	II sem / I	Academic year	2019-2020
COORDINATOR	P.Sivagamasundhari, S.Hariprasath	Credits	2
CO Attainment Level 1 - (0% - 60%) 2 - (61% - 90%) 3 - (91% and Above)			

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UNI) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI) (%)	Target	Over all CO Attainment Level
C116.1	100.00	100.00	100.00	80	3
C116.2	100.00	100.00	100.00	80	3
C116.4	100.00	100.00	100.00	80	3
C116.5	100.00	100.00	100.00	80	3
C116.6	100.00	100.00	100.00	80	3
C116.3	100.00	100.00	100.00	80	3

Expected CO PO level														
Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C116.1	3	3	3	2	2	1	-	-	-	-	-	-	1	3
C116.2	3	3	3	2	2	1	-	-	-	-	-	-	1	2
C116.4	3	3	3	2	2	1	-	-	-	-	-	-	1	2
C116.5	3	2	3	2	2	1	-	-	-	-	-	-	1	2
C116.6	3	3	3	2	2	1	-	-	-	-	-	-	1	3
C116.3	3	2	3	2	2	1	-	-	-	-	-	-	1.00	2.33
LEVEL	3	2.67	3.00	2.00	2.00	1.00	-	-	-	-	-	-	1.00	2.33

PO Attainment level														
Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C116.1	3.00	3.00	3.00	2.00	2.00	1.00	-	-	-	-	-	-	1.00	3.00
C116.2	3.00	3.00	3.00	2.00	2.00	1.00	-	-	-	-	-	-	1.00	2.00
C116.4	3.00	3.00	3.00	2.00	2.00	1.00	-	-	-	-	-	-	1.00	2.00
C116.5	3.00	2.00	3.00	2.00	2.00	1.00	-	-	-	-	-	-	1.00	2.00
C116.6	3.00	3.00	3.00	2.00	2.00	1.00	-	-	-	-	-	-	1.00	3.00
C116.3	3.00	2.00	3.00	2.00	2.00	1.00	-	-	-	-	-	-	1.00	2.33
Level	3.00	2.67	3.00	2.00	2.00	1.00	-	-	-	-	-	-	1.00	2.33

Attainment of POs & PSOs level														
Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C116	3	2.67	3.00	2.00	2.00	1.00	-	-	-	-	-	-	1.00	2.33
Attainment	3.00	2.67	3.00	2.00	2.00	1.00	-	-	-	-	-	-	1.00	2.33

H. S. S. S.
HOD/ECE



Saranathan College of Engineering
Department of Electronics and Communication Engineering

COURSE CODE / TITLE	MA8352 LINEAR ALGEBRA AND PARTIAL DIFFERENTIAL EQUATIONS	NBA Code	C201
SEMESTER / YEAR	III sem / II Year	Academic year	2020-2021
COORDINATOR	Dr.D.Geetha / Dr.N.Subashini		
CO Attainment Level: 1 - (0%-60%) 2 - (61%-80%) 3 - (81% and Above)		Credits	4

CO	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UNT) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNT) (%)	Indirect CO Attainment (Course End Survey)	Over all CO Attainment (0.8xDirect + 0.2xIndirect) (%)	Over all CO Attainment Level
C201.1	48.33	60	55.33	92.78	62.82	2
C201.2	100	60	76	86.56	76.91	2
C201.3	95.83	60	74.33	90.06	78.08	2
C201.4	98.33	60	75.33	98.81	79.99	2
C201.5	95	60	74	86.83	75.37	2
C201.6	0	60	36	88.33	46.47	1

Expected CO PO level														
Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C201.1	3	2	1	1	1	-	1	-	1	2	-	2	1	1
C201.2	3	2	1	1	1	-	1	-	1	2	-	2	1	1
C201.3	3	2	1	1	1	-	1	-	1	2	-	2	1	1
C201.4	3	2	1	1	1	-	1	-	1	2	-	2	1	1
C201.5	3	2	1	1	1	-	1	-	1	2	-	2	1	1
C201.6	3	2	1	1	1	-	1	-	1	2	-	2	1	1
LEVEL	3	2	1	1	1	-	1	-	1	2	-	2	1	1

PO Attainment level														
Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C201.1	2.00	1.33	0.67	0.67	0.67	-	0.67	-	0.67	1.33	-	1.33	0.67	0.67
C201.2	2.00	1.33	0.67	0.67	0.67	-	0.67	-	0.67	1.33	-	1.33	0.67	0.67
C201.3	2.00	1.33	0.67	0.67	0.67	-	0.67	-	0.67	1.33	-	1.33	0.67	0.67
C201.4	2.00	1.33	0.67	0.67	0.67	-	0.67	-	0.67	1.33	-	1.33	0.67	0.67
C201.5	2.00	1.33	0.67	0.67	0.67	-	0.67	-	0.67	1.33	-	1.33	0.67	0.67
C201.6	1.00	0.67	0.33	0.33	0.33	-	0.33	-	0.33	0.67	-	0.67	0.33	0.33
Level	1.83	1.22	0.61	0.61	0.61	-	0.61	-	0.61	1.22	-	1.22	0.61	0.61

Attainment of POs & PSOs level														
Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C201	3	2	1	1	1	-	1	-	1	2	-	2	1	1
Attainment	1.83	1.22	0.61	0.61	0.61	-	0.61	-	0.61	1.22	-	1.22	0.61	0.61

U. S. S.
HOD/ECCE



Sarasathan College of Engineering
Department of Electronics and Communication Engineering

COURSE CODE / TITLE	EC8393 FUNDAMENTALS OF DATA STRUCTURES IN C	NBA Code	C202
SEMESTER / YEAR	III sem / II Year	Academic year	2020-2021
COORDINATOR	Mr.A.T.Barni Vijayalaxmi / Dr.T.Sathis		
CO Attainment Level: 1 - (0% - 60%) 2 - (61% - 90%) 3 - (91% and Above)	Credits	3	

CO	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UNT) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNT) (%)	Indirect CO Attainment (Course End Survey)	Over all CO Attainment (0.8xDirect + 0.2xIndirect) (%)	Over all CO Attainment Level
C202.1	95	93	93.4	95.56	93.15	3
C202.2	81.67	93	88.47	81.67	87.11	2
C202.3	87.5	92	90.8	91.94	91.02	3
C202.4	97.3	93	94.8	96.11	95.06	3
C202.5	96.67	93	94.47	75.83	90.74	2
C202.6	78.33	93	87.13	87.22	87.15	2

Expected CO PO level															
Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	
C202.1	3	3	2	2	1	-	-	-	1	1	-	-	3	2	
C202.2	3	3	2	2	1	-	-	-	1	1	-	-	-	2	
C202.3	3	3	2	2	1	-	-	-	1	1	-	-	3	2	
C202.4	3	3	2	2	1	-	-	-	1	1	-	-	3	2	
C202.5	3	3	2	2	1	-	-	-	1	1	-	-	3	2	
C202.6	3	3	2	2	1	-	-	-	1	1	-	-	3	2	
LEVEL	3	3	2	2	1	-	-	-	1	1	-	-	3	2	

PO Attainment level															
Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	
C202.1	3.00	3.00	2.00	2.00	1.00	-	-	-	1.00	1.00	-	-	3.00	2.00	
C202.2	2.00	2.00	1.33	1.33	0.67	-	-	-	0.67	0.67	-	-	-	1.33	
C202.3	3.00	3.00	2.00	2.00	1.00	-	-	-	1.00	1.00	-	-	3.00	2.00	
C202.4	3.00	3.00	2.00	2.00	1.00	-	-	-	1.00	1.00	-	-	3.00	2.00	
C202.5	2.00	2.00	1.33	1.33	0.67	-	-	-	0.67	0.67	-	-	2.00	1.33	
C202.6	2.00	2.00	1.33	1.33	0.67	-	-	-	0.67	0.67	-	-	2.00	1.33	
Level	2.50	2.50	1.67	1.67	0.83	-	-	-	0.83	0.83	-	-	2.60	1.67	

Attainment of POs & PSOs level															
Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	
C202	3	3	2	2	1	-	-	-	1	1	-	-	3	2	
Attainment	2.50	2.50	1.67	1.67	0.83	-	-	-	0.83	0.83	-	-	2.60	1.67	

U.S.B.
HOD/ECE



Saranathan College of Engineering
Department of Electronics and Communication Engineering

COURSE CODE / TITLE	EC8351 ELECTRONIC CIRCUITS-I	NBA Code	C203
SEMESTER / YEAR	III sem / II Year	Academic year	2020-2021
COORDINATOR	Mr.S.Hariprasath / Dr.M.Baritha Begum	Credits	3
CO Attainment Level: 1-(0% - 60%) 2-(61%-90%) 3-(91% and Above)			

CO	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UNT) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNT) (%)	Indirect CO Attainment (Course End Survey)	Over all CO Attainment (0.8xDirect + 0.2xIndirect)	Over all CO Attainment Level
C203.1	98.33	94	95.73	93.61	95.31	3
C203.2	98.33	94	95.73	79.72	92.53	3
C203.3	92.5	94	93.4	94.44	93.61	3
C203.4	99.17	94	96.07	100	96.85	3
C203.5	99.17	94	96.07	85.83	94.02	3
C203.6	0	94	56.4	89.17	62.95	2

C203.6	0	94													
Expected CO PO level															
Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	
C203.1	2	2	2	1	2	-	-	1	1	1	1	2	2	1	
C203.2	2	2	2	1	2	-	-	1	1	1	1	2	2	1	
C203.3	2	2	2	1	2	-	-	1	1	1	1	2	2	1	
C203.4	2	2	2	1	2	-	-	1	1	1	1	2	2	1	
C203.5	2	2	2	1	2	-	-	1	1	1	1	2	2	1	
C203.6	2	2	2	1	2	-	-	1	1	1	1	2	2	1	
LEVEL	2	2	2	1	2	-	-	1	1	1	1	2	2	1	

PO Attainment level														
Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C203.1	2.00	2.00	2.00	1.00	2.00	-	-	1.00	1.00	1.00	1.00	2.00	2.00	1.00
C203.2	2.00	2.00	2.00	1.00	2.00	-	-	1.00	1.00	1.00	1.00	2.00	2.00	1.00
C203.3	2.00	2.00	2.00	1.00	2.00	-	-	1.00	1.00	1.00	1.00	2.00	2.00	1.00
C203.4	2.00	2.00	2.00	1.00	2.00	-	-	1.00	1.00	1.00	1.00	2.00	2.00	1.00
C203.5	2.00	2.00	2.00	1.00	2.00	-	-	1.00	1.00	1.00	1.00	2.00	2.00	1.00
C203.6	1.33	1.33	1.33	0.67	1.33	-	-	0.67	0.67	0.67	0.67	1.33	1.33	0.67
Level	1.89	1.89	1.89	0.94	1.89	-	-	0.94	0.94	0.94	0.94	1.89	1.89	0.94

Attainment of POs & PSOs level														
Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C203	2	2	2	1	2	-	-	1	1	1	1	2	2	1
Attainment	1.89	1.89	1.89	0.94	1.89	-	-	0.94	0.94	0.94	0.94	1.89	1.89	0.94

U. S. S.
HOD/EC



Sarasathi College of Engineering
Department of Electronics and Communication Engineering

COURSE CODE / TITLE	EC8352 SIGNALS AND SYSTEMS	NBA Code	C204
SEMESTER / YEAR	III sem / II Year	Academic year	2020-2021
COORDINATOR	Mr G. Sivakumar / Dr.V Mohan		
CO Attainment Level: 1 - (0% - 60%) 2 - (61% - 90%) 3 - (91% and Above)	Credits		4

CO	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UNT) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNT) (%)	Indirect CO Attainment (Course End Survey)	Over all CO Attainment (0.8xDirect + 0.2xIndirect) (%)	Over all CO Attainment Level
C204.1	99.17	100	99.67	93.33	98.4	3
C204.2	96.67	100	98.67	84.17	93.77	3
C204.3	96.67	100	98.67	94.17	97.77	3
C204.4	100	100	100	99.85	99.93	3
C204.5	100	100	100	87.78	97.56	3
C204.6	0	100	60	89.17	65.43	2

Expected CO PO level														
Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C204.1	2	2	2	1	1	-	-	-	-	1	-	1	2	2
C204.2	2	2	2	1	1	-	-	-	-	1	-	1	2	2
C204.3	2	2	2	1	1	-	-	-	-	1	-	1	2	2
C204.4	2	2	2	1	1	-	-	-	-	1	-	1	2	2
C204.5	2	2	2	1	1	-	-	-	-	1	-	1	2	2
C204.6	2	2	2	1	1	-	-	-	-	1	-	1	2	2
LEVEL	2	2	2	1	1	-	-	-	-	1	-	1	2	2

PO Attainment level														
Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C204.1	2.00	2.00	2.00	1.00	1.00	-	-	-	-	1.00	-	1.00	2.00	2.00
C204.2	2.00	2.00	2.00	1.00	1.00	-	-	-	-	1.00	-	1.00	2.00	2.00
C204.3	2.00	2.00	2.00	1.00	1.00	-	-	-	-	1.00	-	1.00	2.00	2.00
C204.4	2.00	2.00	2.00	1.00	1.00	-	-	-	-	1.00	-	1.00	2.00	2.00
C204.5	2.00	2.00	2.00	1.00	1.00	-	-	-	-	1.00	-	1.00	2.00	2.00
C204.6	1.33	1.33	1.33	0.67	0.67	-	-	-	-	0.67	-	0.67	1.33	1.33
Level	1.89	1.89	1.89	0.94	0.94	-	-	-	-	0.94	-	0.94	1.89	1.89

Attainment of POs & PSOs level														
Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C204	2	2	2	1	1	-	-	-	-	1	-	1	2	2
Attainment	1.89	1.89	1.89	0.94	0.94	-	-	-	-	0.94	-	0.94	1.89	1.89

V. Sridhar
HOD/EC



Saranathan College of Engineering
Department of Electronics and Communication Engineering

COURSE CODE / TITLE	ECK392 DIGITAL ELECTRONICS	NBA Code	C205
SEMESTER / YEAR	III sem / II Year	Academic year	2020-2021
COORDINATOR	Dr.M.Santhi / Dr.M.Padmaa	Credits	3
CO Attainment Level: 1 - (0% - 60%) 2 - (61% - 80%) 3 - (81% and Above)			

CO	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UNI) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI) (%)	Indirect CO Attainment (Course End Survey)	Over all CO Attainment (0.8xDirect + 0.2xIndirect) (%)	Over all CO Attainment Level
C205.1	100	100	100	93.61	98.72	3
C205.2	99.17	100	99.67	79.72	95.48	3
C205.3	50	100	80	94.44	82.89	2
C205.4	50	100	80	100	84	2
C205.5	100	100	100	82.22	96.44	3
C205.6	0	100	60	89.17	65.83	2

Expected CO PO level															
Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	
C205.1	2	2	2	1	1	-	-	-	-	1	-	1	2	2	
C205.2	2	2	2	1	1	-	-	-	-	1	-	1	2	2	
C205.3	2	2	2	1	1	-	-	-	-	1	-	1	2	2	
C205.4	2	2	2	1	1	-	-	-	-	1	-	1	2	2	
C205.5	2	2	2	1	1	-	-	-	-	1	-	1	2	2	
C205.6	2	2	2	2	1	-	-	-	-	1	-	1	2	2	
LEVEL	2	2	2	1.166667	1	-	-	-	-	1	-	1	2	2	

PO Attainment level														
Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C205.1	2.00	2.00	2.00	1.00	1.00	-	-	-	-	1.00	-	1.00	2.00	2.00
C205.2	2.00	2.00	2.00	1.00	1.00	-	-	-	-	1.00	-	1.00	2.00	2.00
C205.3	1.33	1.33	1.33	0.67	0.67	-	-	-	-	0.67	-	0.67	1.33	1.33
C205.4	1.33	1.33	1.33	0.67	0.67	-	-	-	-	0.67	-	0.67	1.33	1.33
C205.5	2.00	2.00	2.00	1.00	1.00	-	-	-	-	1.00	-	1.00	2.00	2.00
C205.6	1.33	1.33	1.33	1.33	0.67	-	-	-	-	0.67	-	0.67	1.33	1.33
Level	1.67	1.67	1.67	0.94	0.83	-	-	-	-	0.83	-	0.83	1.67	1.67

Attainment of POs & PSOs level														
Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C205	2	2	2	1.1666667	1	-	-	-	-	1	-	1	2	2
Attainment	1.67	1.67	1.67	0.94	0.83	-	-	-	-	0.83	-	0.83	1.67	1.67

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HOD/EC



Saranathan College of Engineering
Department of Electronics and Communication Engineering

COURSE CODE / TITLE	EC8391 CONTROL SYSTEMS ENGINEERING	NBA Code	C206
SEMESTER / YEAR	III sem / II Year	Academic year	2020-2021
COORDINATOR	Dr.C.Venita / Ms.J.Eindhumathy	Credits	3
CO Attainment Level: 1 - (0% - 60%) 2 - (61% - 90%) 3 - (91% and Above)			

CO	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UNT) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNT) (%)	Indirect CO Attainment (Course End Survey)	Over all CO Attainment (0.8xDirect + 0.2xIndirect) (%)	Over all CO Attainment Level
C206.1	89.17	63	73.47	83.33	77.44	2
C206.2	99.17	63	77.47	79.72	77.92	2
C206.3	65	63	63.8	94.44	69.92	2
C206.4	99.17	63	77.47	99.72	81.92	2
C206.5	95	62	75.8	79.44	76.52	2
C206.6	90.83	63	74.13	89.17	77.14	2

Expected CO PO level															
Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	
C206.1	2	2	2	1	1	-	-	-	-	1	-	1	2	2	
C206.2	2	2	2	1	1	-	-	-	-	1	-	1	2	2	
C206.3	2	2	2	1	1	-	-	-	-	1	-	1	2	2	
C206.4	2	2	2	1	1	-	-	-	-	1	-	1	2	2	
C206.5	2	2	2	1	1	-	-	-	-	1	-	1	2	2	
C206.6	2	2	2	1	1	-	-	-	-	1	-	1	2	2	
LEVEL	2	2	2	1	1	-	-	-	-	1	-	1	2	2	

PO Attainment level														
Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C206.1	1.33	1.33	1.33	0.67	0.67	-	-	-	-	0.67	-	0.67	1.33	1.33
C206.2	1.33	1.33	1.33	0.67	0.67	-	-	-	-	0.67	-	0.67	1.33	1.33
C206.3	1.33	1.33	1.33	0.67	0.67	-	-	-	-	0.67	-	0.67	1.33	1.33
C206.4	1.33	1.33	1.33	0.67	0.67	-	-	-	-	0.67	-	-	1.33	1.33
C206.5	1.33	1.33	1.33	0.67	0.67	-	-	-	-	0.67	-	-	1.33	1.33
C206.6	1.33	1.33	1.33	0.67	0.67	-	-	-	-	0.67	-	0.67	1.33	1.33
Level	1.33	1.33	1.33	0.67	0.67	-	-	-	-	0.67	-	0.67	1.33	1.33

Attainment of POs & PSOs level														
Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C206	2	2	2	1	1	-	-	-	-	1	-	1	2	2
Attainment	1.33	1.33	1.33	0.67	0.67	-	-	-	-	0.67	-	0.67	1.33	1.33

HOD/ECE

COURSE CODE / TITLE	EC6312 OOPS AND DATA STRUCTURES LAB	NBA Code	C207
SEMESTER / YEAR	III sem / II	Academic year	2020-2021
COORDINATOR	DR.SATHISH KUMAR	Credits	2
Level 1 (0-69%), Level 2 (70-79%) and Level 3 (above 80%)			

CO	CO-Attainment Internal (CO-INT)	CO-Attainment University (CO-UNI)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI)	Target	CO Attainment Level
C207.1	100.00	100.00	100.00	80	3
C207.2	100.00	100.00	100.00	80	3
C207.3	100.00	100.00	100.00	80	3
C207.4	100.00	100.00	100.00	80	3
C207.5	100.00	100.00	100.00	80	3
C207.6	100.00	100.00	100.00	80	3

Expected CO PO level	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
Course	3	3	2	2	1	-	-	-	1	1	-	1	3	2
C207.1	3	3	2	2	1	-	-	-	1	1	-	1	3	2
C207.2	3	3	2	2	1	-	-	-	1	1	-	1	3	2
C207.3	3	3	2	2	1	-	-	-	1	1	-	1	3	2
C207.4	3	3	2	2	1	-	-	-	1	1	-	1	3	2
C207.5	3	3	2	2	1	-	-	-	1	1	-	1	3	2
C207.6	3	3	2	2	1	-	-	-	1	1	-	1	3	2
LEVEL	3	3	2	2	1	-	-	-	1	1	-	1	3	2

PO Attainment level	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
Course	3	3	2	2	1	-	-	-	1	1	-	1	3	2
C207.1	3	3	2	2	1	-	-	-	1	1	-	1	3	2
C207.2	3	3	2	2	1	-	-	-	1	1	-	1	3	2
C207.3	3	3	2	2	1	-	-	-	1	1	-	1	3	2
C207.4	3	3	2	2	1	-	-	-	1	1	-	1	3	2
C207.5	3	3	2	2	1	-	-	-	1	1	-	1	3	2
C207.6	3	3	2	2	1	-	-	-	1.00	1.00	-	1	3.00	2
Level	3.00	3.00	2.00	2.00	1.00	-	-	-	1.00	1.00	-	1	3.00	2

Attainment of POs & PSOs level	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
Course Code	3	3	2	2	1	-	-	-	1	1	-	1	3	2
C207	3	3	2	2	1	-	-	-	1.00	1.00	-	1.00	3.00	2.00
Attainment	3.00	3.00	2.00	2.00	1.00	-	-	-	1.00	1.00	-	1.00	3.00	2.00

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HOD

COURSE CODE / TITLE	ANALOG AND DIGITAL CIRCUITS LAB UC8563	NBA Code	C208
SEMESTER / YEAR	III sem / II	Academic year	2020-2021
COORDINATOR	Mr S. Hariprasath & Dr M. Padma Level 1 (0-69%), Level 2 (70-79%) and Level 3 (above 80%)	Credits	2

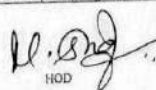
CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT)	CO-Attainment University (CO-UNI)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI)	Target	CO Attainment at Level
C208.1	100.00	100.00	100.00	80	3
C208.2	100.00	100.00	100.00	80	3
C208.3	100.00	100.00	100.00	80	3
C208.4	100.00	100.00	100.00	80	3
C208.5	100.00	100.00	100.00	80	3
C208.6	100.00	100.00	100.00	80	3

Expected CO PO level														
Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C208.1	2	2	2	2	1	2	1	-	2	2	1	1	2	2
C208.2	2	2	2	2	1	2	1	-	2	2	1	1	2	2
C208.3	2	2	2	2	1	2	1	-	2	2	1	1	2	2
C208.4	2	2	2	2	1	2	1	-	2	2	1	1	2	2
C208.5	2	2	2	2	1	2	1	-	2	2	1	1	2	2
C208.6	2	2	2	2	1	2	1	-	2	2	1	1	2	2
C208	2	2	2	2	1.1666667	2	1	-	2	2	1	1	2	2

PO Attainment level														
Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C208.1	2	2	2	2	1	2	1	-	2	2	1	1	2	2
C208.2	2	2	2	2	1	2	1	-	2	2	1	1	2	2
C208.3	2	2	2	2	1	2	1	-	2	2	1	1	2	2
C208.4	2	2	2	2	1	2	1	-	2	2	1	1	2	2
C208.5	2	2	2	2	1	2	1	-	2	2	1	1	2	2
C208.6	2	2	2	2	1	2	1	-	2	2	1	1	2	2
Level	2.00	2.00	2.00	2.00	1.17	2.00	1.00	-	2.00	2.00	1.00	1.00	2.00	2.00

Attainment of POs & PSOs level														
Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C208	2	2	2	2	1.1666667	2	1	-	2	2	1	1	2	2
Attainment	2.00	2.00	2.00	2.00	1.17	2.00	1.00	-	2.00	2.00	1.00	1.00	2.00	2.00


HOD

COURSE CODE / TITLE	HSK381-INTERPERSONAL SKILL LISTENING & SPEAKING	NBA Code	C209
SEMESTER / YEAR	III sem/ II	Academic year	2020-2021
COORDINATOR	Dr.M.Bhuvaneshwari & S.Sandm	Credits	2
Level 1 (0-69%), Level 2 (70-79%) and Level 3 (above 80%)			

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT)	CO-Attainment University (CO-UNI)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI)	Target	CO Attainment Level
C209.1	100.00	100.00	100.00	80	3
C209.2	100.00	100.00	100.00	80	3
C209.3	100.00	100.00	100.00	80	3
C209.4	100.00	100.00	100.00	80	3
C209.5	100.00	100.00	100.00	80	3
C209.6	100.00	100.00	100.00	80	3

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C209.1	-	-	-	-	-	-	-	1	3	3	1	2	-	-
C209.2	-	-	-	-	-	-	-	1	3	3	1	2	-	-
C209.3	-	-	-	-	-	-	-	1	3	3	1	2	-	-
C209.4	-	-	-	-	-	-	-	1	3	3	1	2	-	-
C209.5	-	-	-	-	-	-	-	1	3	3	1	2	-	-
C209.6	-	-	-	-	-	-	-	1	3	3	1	2	-	-
LEVEL	-	-	-	-	-	-	-	1	3	3	1	2	-	-

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C209.1	-	-	-	-	-	-	-	1	3	3	1	2	-	-
C209.2	-	-	-	-	-	-	-	1	3	3	1	2	-	-
C209.3	-	-	-	-	-	-	-	1	3	3	1	2	-	-
C209.4	-	-	-	-	-	-	-	1	3	3	1	2	-	-
C209.5	-	-	-	-	-	-	-	1	3	3	1	2	-	-
C209.6	-	-	-	-	-	-	-	1	3	3	1	2	-	-
Level	-	-	-	-	-	-	-	1	3.00	3.00	1	2	-	-

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C209	-	-	-	-	-	-	-	1	3	3	1	2	-	-
Attainment	-	-	-	-	-	-	-	1.00	3.00	3.00	1.00	2.00	-	-

H. P. J.
HOD



Saranathan College of Engineering
Department of Electronics and Communication Engineering

COURSE CODE / TITLE	PROBABILITY AND RANDOM PROCESSES	NBA Code	C210
SEMESTER / YEAR	IV sem / II Year	Academic year	2020-2021
COORDINATOR	Dr.S.Arunkumar / Dr.S.Sivamani		
CO Attainment Level: 1 - (65% - 69%) 2 - (61%-90%) 3 - (91% and Above)		Credits	4

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UNT) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNT) (%)	Indirect CO Attainment (Course End Survey)	Over all CO Attainment (0.8xDirect + 0.2xIndirect) (%)	Over all CO Attainment Level
C210.1	60.82	100	84.33	93.33	86.13	2
C210.2	23.33	100	69.33	86.56	71.58	2
C210.3	97.5	100	99	94.17	96.03	3
C210.4	97.5	100	99	99.71	99.14	3
C210.5	99.17	100	99.67	85	96.73	3
C210.6	98.33	100	99.33	88.89	97.24	3

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C210.1	2	-	-	-	-	-	-	-	-	-	-	1	1	1
C210.2	2	-	-	-	-	-	-	-	-	-	-	1	1	1
C210.3	2	2	-	-	-	-	-	-	1	1	2	2	2	2
C210.4	2	2	-	-	-	-	-	-	1	1	1	1	1	1
C210.5	2	2	-	-	-	-	-	-	1	1	2	2	2	2
C210.6	2	2	-	-	1	-	-	-	1	1	2	2	2	2
LEVEL	2	2	-	-	1	-	-	-	1	1	1.5	1.5	1.5	1.5

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C210.1	1.33	-	-	-	-	-	-	-	-	-	-	0.67	0.67	0.67
C210.2	1.33	-	-	-	-	-	-	-	-	-	-	0.67	0.67	0.67
C210.3	2.00	2.00	-	-	-	-	-	-	1.00	1.00	2.00	2.00	2.00	2.00
C210.4	2.00	2.00	-	-	-	-	-	-	1.00	1.00	1.00	1.00	1.00	1.00
C210.5	2.00	2.00	-	-	-	-	-	-	1.00	1.00	2.00	2.00	2.00	2.00
C210.6	2.00	2.00	-	-	1.00	-	-	-	1.00	1.00	2.00	2.00	2.00	2.00
Level	1.78	2.00	-	-	1.00	-	-	-	1.00	1.00	1.39	1.39	1.39	1.39

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C210	2	2	-	-	1	-	-	-	-	1	1	1.5	1.5	1.5
Attainment	1.78	2.00	-	-	1.00	-	-	-	-	1.00	1.00	1.39	1.39	1.39

H. S. S. S.
HOD/ECE



Saranathan College of Engineering
Department of Electronics and Communication Engineering

COURSE CODE / TITLE	ELECTRONIC CIRCUITS II	NBA Code	C211
SEMESTER / YEAR	IV sem / II Year	Academic year	2020-2021
COORDINATOR	Ms.A Shanmugam / Dr.M.Padman	Credits	3
CO Attainment Level: 1 - (60%-69%) 2 - (61%-90%) 3-(91% and Above)			

CO	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UNT) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNT) (%)	Indirect CO Attainment (Course End Survey)	Over all CO Attainment (0.8xDirect + 0.2xIndirect)	Over all CO Attainment Level
C211.1	95	98	96.8	93.61	95.15	3
C211.2	45.43	98	77.13	79.72	77.65	2
C211.3	100	98	98.8	94.44	97.93	3
C211.4	99.17	98	98.47	100	98.77	3
C211.5	100	98	98.8	87.75	95.6	3
C211.6	0	98	58.8	89.17	64.87	2

Expected CO PO level														
Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C211.1	2	1	1	-	-	2	2	1	-	-	-	-	2	1
C211.2	2	1	1	-	-	2	2	1	-	-	-	1	2	1
C211.3	2	1	1	-	-	2	2	1	-	-	-	1	2	1
C211.4	2	1	1	-	-	2	2	1	-	-	-	-	2	1
C211.5	2	1	1	-	-	2	2	1	-	-	-	-	2	1
C211.6	2	1	1	-	-	2	2	1	-	-	-	-	2	1
LEVEL	2	1	1	-	-	2	2	1	-	-	-	1	2	1

PO Attainment level														
Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C211.1	2.00	1.00	1.00	-	-	2.00	2.00	1.00	-	-	-	-	2.00	1.00
C211.2	1.33	0.67	0.67	-	-	1.33	1.33	0.67	-	-	-	0.67	1.33	0.67
C211.3	2.00	1.00	1.00	-	-	2.00	2.00	0.90	-	-	-	1.00	2.00	1.00
C211.4	2.00	1.00	1.00	-	-	2.00	2.00	1.00	-	-	-	-	2.00	1.00
C211.5	2.00	1.00	1.00	-	-	2.00	2.00	1.00	-	-	-	-	2.00	1.00
C211.6	1.33	0.67	0.67	-	-	1.33	1.33	0.67	-	-	-	-	1.33	0.67
Level	1.78	0.89	0.89	-	-	1.78	1.78	0.72	-	-	-	0.83	1.78	0.89

Attainment of POs & PSOs level														
Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C211	2	1	1	-	-	2	2	1	-	-	-	1	2	1
Attainment	1.78	0.89	0.89	-	-	1.78	1.78	0.72	-	-	-	0.83	1.78	0.89

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HOD/EC



Saranathan College of Engineering
Department of Electronics and Communication Engineering

COURSE CODE / TITLE	ELECTROMAGNETIC FIELDS	NBA Code	C212
SEMESTER / YEAR	IV sem / II Year	Academic year	2020-2021
COORDINATOR	Dr.P.Shannugapriya / Dr.V.Mohan	Credits	4
CO Attainment Level: 1 - (0% - 60%) 2 - (61% - 90%) 3 - (91% and Above)			

CO	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UNI) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI) (%)	Indirect CO Attainment (Course End Survey)	Over all CO Attainment (0.8xDirect + 0.2xIndirect) (%)	Over all CO Attainment Level
C212.1	91.67	100	96.67	93.33	96	3
C212.2	90	100	96	83.61	93.52	3
C212.3	0	100	60	94.17	66.83	2
C212.4	0	100	60	99.67	67.93	2
C212.5	0	100	60	87.78	65.56	2
C212.6	0	100	60	88.89	65.78	2

Expected CO PO level		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
Course	PO1														
C212.1	2	2	2	2	1	1	-	-	-	-	1	-	1	2	2
C212.2	2	2	2	2	1	1	-	-	-	-	1	-	1	2	2
C212.3	2	2	2	2	1	1	-	-	-	-	1	-	1	2	2
C212.4	2	2	2	2	1	1	-	-	-	-	1	-	1	2	2
C212.5	2	2	2	2	1	1	-	-	-	-	1	-	1	2	2
C212.6	2	2	2	2	1	1	-	-	-	-	1	-	1	2	2
LEVEL	2	2	2	2	1	1	-	-	-	-	1	-	1	2	2

PO Attainment level		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
Course	PO1														
C212.1	2.00	2.00	2.00	2.00	1.00	1.00	-	-	-	-	1.00	-	1.00	2.00	2.00
C212.2	2.00	2.00	2.00	2.00	1.00	1.00	-	-	-	-	1.00	-	1.00	2.00	2.00
C212.3	1.33	1.33	1.33	1.33	0.67	0.67	-	-	-	-	0.67	-	0.67	1.33	1.33
C212.4	1.33	1.33	1.33	1.33	0.67	0.67	-	-	-	-	0.67	-	0.67	1.33	1.33
C212.5	1.33	1.33	1.33	1.33	0.67	0.67	-	-	-	-	0.67	-	0.67	1.33	1.33
C212.6	1.33	1.33	1.33	1.33	0.67	0.67	-	-	-	-	0.78	-	0.83	1.56	1.56
Level	1.56	1.56	1.56	1.56	0.78	0.78	-	-	-	-	0.78	-	0.83	1.56	1.56

Attainment of POs & PSOs level		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
Course Code	PO1														
C212	2	2	2	2	1	1	-	-	-	-	1	-	1	2	2
Attainment	1.56	1.56	1.56	1.56	0.78	0.78	-	-	-	-	0.78	-	0.83	1.56	1.56

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HOD/EC



Saraswathi College of Engineering
Department of Electronics and Communication Engineering

COURSE CODE / TITLE	COMMUNICATION THEORY	NBA Code	C213
SEMESTER / YEAR	IV sem / II Year	Academic year	2020-2021
COORDINATOR	Dr. M. Padman / Ms. M. Arthavan Lydia	Credits	3

CO	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UND) (%)	Direct CO-Attainment (0.40xCO-INT + 0.60xCO-UND) (%)	Indirect CO-Attainment (Course End Survey)	Over all CO-Attainment (0.8xDirect + 0.2xIndirect) (%)	Over all CO-Attainment Level
C213.1	85.83	100	98.32	93.61	97.39	3
C213.2	97.5	100	99	79.72	95.14	3
C213.3	50	100	80	94.44	82.89	2
C213.4	50	100	80	100	84	2
C213.5	0	100	60	87.78	85.56	2
C213.6	0	100	60	89.17	85.83	2

Expected CO PO level	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
Course														
C213.1	2	2	2	1	1	-	-	-	-	1	-	1	2	2
C213.2	2	2	2	1	1	-	-	-	-	1	-	1	2	2
C213.3	2	2	2	1	1	-	-	-	-	1	-	1	2	2
C213.4	2	2	2	1	1	-	-	-	-	1	-	1	2	2
C213.5	2	2	2	1	1	-	-	-	-	1	-	1	2	2
C213.6	2	2	2	1	1	-	-	-	-	1	-	1	2	2
LEVEL	2	2	2	1	1	-	-	-	-	1	-	1	2	2

PO Attainment level	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
Course														
C213.1	2.00	2.00	2.00	1.00	1.00	-	-	-	-	1.00	-	1.00	2.00	2.00
C213.2	2.00	2.00	2.00	1.00	1.00	-	-	-	-	1.00	-	1.00	2.00	2.00
C213.3	1.33	1.33	1.33	0.67	0.67	-	-	-	-	0.67	-	0.67	1.33	1.33
C213.4	1.33	1.33	1.33	0.67	0.67	-	-	-	-	0.67	-	0.67	1.33	1.33
C213.5	1.33	1.33	1.33	0.67	0.67	-	-	-	-	0.67	-	0.67	1.33	1.33
C213.6	1.33	1.33	1.33	0.67	0.67	-	-	-	-	0.67	-	0.67	1.33	1.33
Level	1.56	1.56	1.56	0.78	0.78	-	-	-	-	0.78	-	0.78	1.56	1.56

Attainment of POs & PSOs level	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
Course Code														
C213	2	2	2	1	1	-	-	-	-	1	-	1	2	2
Attainment	1.56	1.56	1.56	0.78	0.78	-	-	-	-	0.78	-	0.78	1.56	1.56

U. S. S.
MODERATOR



Saranathi College of Engineering
Department of Electronics and Communication Engineering

COURSE CODE / TITLE	LINEAR INTEGRATED CIRCUITS	NBA Code	C214
SEMESTER / YEAR	IV sem / B Year	Academic year	2020-2021
COORDINATOR	Ms.R.Varshney / Ms.J.Fandhanthy		
CO Attainment Level: 1-(0%-60%) 2-(61%-90%) 3-(91% and Above)		Credits	3

CO	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UNT) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNT) (%)	Indirect CO Attainment (Course End Survey)	Over all CO Attainment (0.8xDirect + 0.2xIndirect)	Over all CO Attainment (Level)
C214.1	89.17	100	99.67	93.33	96.4	3
C214.2	84.17	100	93.67	60	80.93	2
C214.3	0	100	60	94.17	66.83	2
C214.4	83.33	100	97.33	95.72	97.81	3
C214.5	0	100	60	84.17	64.83	2
C214.6	0	100	60	88.89	65.78	2

Expected CO PO level														
Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C214.1	2	2	2	2	2	2	-	-	-	-	2	2	2	2
C214.2	2	2	2	2	2	2	-	-	-	-	2	2	2	2
C214.3	2	2	2	2	2	2	-	-	-	-	2	2	2	2
C214.4	2	2	2	2	2	2	-	-	-	-	2	2	2	2
C214.5	2	2	2	2	2	2	-	-	-	-	2	2	2	2
C214.6	2	2	2	2	2	2	-	-	-	-	2	2	2	2
LEVEL	2	2	2	2	2	2	-	-	-	-	2	2	2.166667	2.166667

PO Attainment level														
Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C214.1	2.00	2.00	2.00	2.00	2.00	2.00	-	-	-	-	2.00	2.00	2.00	2.00
C214.2	1.33	1.33	1.33	1.33	1.33	1.33	-	-	-	-	1.33	1.33	1.33	1.33
C214.3	1.33	1.33	1.33	1.33	1.33	1.33	-	-	-	-	1.33	1.33	1.33	1.33
C214.4	2.00	2.00	2.00	2.00	2.00	2.00	-	-	-	-	2.00	2.00	2.00	2.00
C214.5	1.33	1.33	1.33	1.33	1.33	1.33	-	-	-	-	1.33	1.33	2.00	1.33
C214.6	1.33	1.33	1.33	1.33	1.33	1.33	-	-	-	-	1.33	1.33	1.33	1.33
Level	1.56	1.56	1.56	1.56	1.56	1.56	-	-	-	-	1.56	1.56	1.67	1.72

Attainment of POs & PSOs level														
Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C214	2	2	2	2	2	2	-	-	-	-	2	2	2.166667	2.166667
Attainment	1.56	1.56	1.56	1.56	1.56	1.56	-	-	-	-	1.56	1.56	1.67	1.72

(Signature)
HOD/EC



Saraswathi College of Engineering
Department of Electronics and Communication Engineering

COURSE CODE / TITLE	ENVIRONMENTAL SCIENCE AND ENGINEERING	NBA Code	C215
SEMESTER / YEAR	IV sem / II Year	Academic year	2020-2021
COORDINATOR	Mr A Lakshminarayanan / Dr S Priyavarg		
CO Attainment Level: 1-(0%-60%) 2-(61%-90%) 3-(91% and Above)		Credits	3

CO	CO Attainment Internal (CO-INT) (%)	CO Attainment University (CO-UNI) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI) (%)	Indirect CO Attainment (Course End Survey)	Overall CO Attainment (0.8xDirect + 0.2xIndirect) (%)	Over all CO Attainment Level
C215.1	65.83	100	86.33	92.22	87.51	2
C215.2	90.83	100	96.33	80.83	93.23	3
C215.3	81.67	100	86.67	92.78	95.89	3
C215.4	86.67	100	94.67	98.06	95.25	3
C215.5	87.5	100	99	79.44	95.69	3
C215.6	70.83	100	88.33	87.5	86.17	2

Expected CO PO level														
Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C215.1	2	-	-	-	-	1	3	2	1	2	-	2	2	2
C215.2	2	-	-	-	-	1	3	2	1	2	-	2	2	2
C215.3	2	-	-	-	-	1	3	2	-	2	-	2	2	2
C215.4	2	-	-	-	-	1	3	2	1	2	-	2	2	2
C215.5	2	-	-	-	-	1	3	2	1	2	-	2	2	2
C215.6	2	-	-	-	-	1	3	2	1	2	-	2	2	2
LEVEL	2	-	-	-	-	1	3	2	1	2	-	2	2	2

PO Attainment level														
Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C215.1	1.33	-	-	-	-	0.67	2.00	1.33	0.67	1.33	-	1.33	1.33	1.33
C215.2	2.00	-	-	-	-	1.00	3.00	2.00	1.00	2.00	-	2.00	2.00	2.00
C215.3	2.00	-	-	-	-	1.00	3.00	2.00	0.00	2.00	-	2.00	2.00	2.00
C215.4	2.00	-	-	-	-	1.00	3.00	2.00	1.00	2.00	-	2.00	2.00	2.00
C215.5	2.00	-	-	-	-	1.00	3.00	2.00	1.00	2.00	-	2.00	2.00	2.00
C215.6	1.33	-	-	-	-	0.67	2.00	1.33	0.67	1.33	-	1.33	1.33	1.33
Level	1.78	-	-	-	-	0.89	2.67	1.78	0.72	1.78	-	1.78	1.78	1.78

Attainment of POs & PSOs level														
Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C215	2	-	-	-	-	1	3	2	1	2	-	2	2	2
Attainment	1.78	-	-	-	-	0.89	2.67	1.78	0.72	1.78	-	1.78	1.78	1.78

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HOD/EC

COURSE CODE / TITLE	EC8461 Circuits and simulation Lab	NBA Code	C216
SEMESTER / YEAR	IV sem/ II	Academic year	2018-2019
COORDINATOR	Dr.M.Padmas, Dr.S.Rajeswari	Credits	2
CO Attainment Level: 1 - (0% - 60%) 2- (61%-90%) 3-(91% and Above)			

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UNI) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI) (%)	Target	Over-all CO Attainment Level
C216.1	100.00	100.00	100.00	80	3
C216.2	100.00	100.00	100.00	80	3
C216.3	100.00	100.00	100.00	80	3
C216.4	100.00	100.00	100.00	80	3
C216.5	100.00	100.00	100.00	80	3
C216.6	100.00	100.00	100.00	80	3

Expected CO PO level														
Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C216.1	2	2	1	1	1	-	-	-	1	2	1	1	2	2
C216.2	2	2	1	1	1	-	-	-	1	2	1	1	2	2
C216.3	2	2	1	1	1	-	-	-	1	2	1	1	2	2
C216.4	2	2	1	1	1	-	-	-	1	2	1	1	2	2
C216.5	2	2	1	1	1	-	-	-	1	2	1	1	2	2
C216.6	2	2	1	1	1	-	-	-	1	2	1	1	2	2
LEVEL	2	2	1	1	1	-	-	-	1	2	1	1	2	2

PO Attainment level														
Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C216.1	2.00	2.00	1.00	1.00	1.00	-	-	-	1.00	2.00	1.00	1.00	2.00	2.00
C216.2	2.00	2.00	1.00	1.00	1.00	-	-	-	1.00	2.00	1.00	1.00	2.00	2.00
C216.3	2.00	2.00	1.00	1.00	1.00	-	-	-	1.00	2.00	1.00	1.00	2.00	2.00
C216.4	2.00	2.00	1.00	1.00	1.00	-	-	-	1.00	2.00	1.00	1.00	2.00	2.00
C216.5	2.00	2.00	1.00	1.00	1.00	-	-	-	1.00	2.00	1.00	1.00	2.00	2.00
C216.6	2.00	2.00	1.00	1.00	1.00	-	-	-	1.00	2.00	1.00	1.00	2.00	2.00
Level	2.00	2.00	1.00	1.00	1.00	-	-	-	1.00	2.00	1.00	1.00	2.00	2.00

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C216	2	2	1	1	1	-	-	-	1	2	1	1	2	2
Attainment	2.00	2.00	1.00	1.00	1.00	-	-	-	1.00	2.00	1.00	1.00	2.00	2.00

U. S. R.
HOD/ECB

COURSE CODE / TITLE	EC8461 Circuits and simulation Lab	NBA Code	C216
SEMESTER / YEAR	IV sem / II	Academic year	2021-2022
COORDINATOR	Dr.M.Padma, Dr. S.Rajeswari	Credits	2
CO Attainment Level: 1 - (0% - 60%) 2 - (61% - 90%) 3 - (91% and Above)			

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UNI) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI) (%)	Target	Over all CO Attainment Level
C216.1	100.00	100.00	100.00	80	3
C216.2	100.00	100.00	100.00	80	3
C216.3	100.00	100.00	100.00	80	3
C216.4	100.00	100.00	100.00	80	3
C216.5	100.00	100.00	100.00	80	3
C216.6	100.00	100.00	100.00	80	3

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C216.1	2	2	1	1	1	-	-	-	1	2	1	1	2	2
C216.2	2	2	1	1	1	-	-	-	1	2	1	1	2	2
C216.3	2	2	1	1	1	-	-	-	1	2	1	1	2	2
C216.4	2	2	1	1	1	-	-	-	1	2	1	1	2	2
C216.5	2	2	1	1	1	-	-	-	1	2	1	1	2	2
C216.6	2	2	1	1	1	-	-	-	1	2	1	1	2	2
LEVEL	2	2	1	1	1	-	-	-	1	2	1	1	2	2

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C216.1	2.00	2.00	1.00	1.00	1.00	-	-	-	1.00	2.00	1.00	1.00	2.00	2.00
C216.2	2.00	2.00	1.00	1.00	1.00	-	-	-	1.00	2.00	1.00	1.00	2.00	2.00
C216.3	2.00	2.00	1.00	1.00	1.00	-	-	-	1.00	2.00	1.00	1.00	2.00	2.00
C216.4	2.00	2.00	1.00	1.00	1.00	-	-	-	1.00	2.00	1.00	1.00	2.00	2.00
C216.5	2.00	2.00	1.00	1.00	1.00	-	-	-	1.00	2.00	1.00	1.00	2.00	2.00
C216.6	2.00	2.00	1.00	1.00	1.00	-	-	-	1.00	2.00	1.00	1.00	2.00	2.00
Level	2.00	2.00	1.00	1.00	1.00	-	-	-	1.00	2.00	1.00	1.00	2.00	2.00

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C216	2	2	1	1	1	-	-	-	1	2	1	1	2	2
Attainment	2.00	2.00	1.00	1.00	1.00	-	-	-	1.00	2.00	1.00	1.00	2.00	2.00

[Signature]
HOD/EEE

COURSE CODE / TITLE	EC8462 Linear integrated circuits lab	NBA Code	C217
SEMESTER / YEAR	IV sem/ II	Academic year	2020-2021
COORDINATOR	Dr.V Mohan, Dr.P.Sannuagapriya	Credits	2
CO Attainment Level: 1 - (0% - 60%) 2 - (61% - 90%) 3 - (91% and Above)			

CO	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UNI) (%)	Direct CO Attainment (6.46xCO-INT + 6.60xCO-UNI) (%)	Target	Overall CO Attainment Level
C217.1	100.00	100.00	100.00	80	3
C217.2	100.00	100.00	100.00	80	3
C217.3	100.00	100.00	100.00	80	3
C217.4	100.00	100.00	100.00	80	3
C217.5	100.00	100.00	100.00	80	3
C217.6	100.00	100.00	100.00	80	3

Expected CO PO level													
Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1
C217.1	3	3	3	3	3	2	-	-	-	-	3	2	2
C217.2	3	3	3	3	3	2	-	-	-	-	3	2	2
C217.3	3	3	3	3	3	2	-	-	-	-	3	2	2
C217.4	3	3	3	3	3	2	-	-	-	-	3	2	2
C217.5	3	3	3	3	3	2	-	-	-	-	3	2	2
C217.6	3	3	3	3	3	2	-	-	-	-	3	2	2
LEVEL	3	3	3	3	3	2	-	-	-	-	3	2	2

PO Attainment level													
Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1
C217.1	3.00	3.00	3.00	3.00	3.00	2.00	-	-	-	-	3.00	2.00	2.00
C217.2	3.00	3.00	3.00	3.00	3.00	2.00	-	-	-	-	3.00	2.00	2.00
C217.3	3.00	3.00	3.00	3.00	3.00	2.00	-	-	-	-	3.00	2.00	2.00
C217.4	3.00	3.00	3.00	3.00	3.00	2.00	-	-	-	-	3.00	2.00	2.00
C217.5	3.00	3.00	3.00	3.00	3.00	2.00	-	-	-	-	3.00	2.00	2.00
C217.6	3.00	3.00	3.00	3.00	3.00	2.00	-	-	-	-	3.00	2.00	2.00
Level	3.00	3.00	3.00	3.00	3.00	2.00	-	-	-	-	3.00	2.00	2.00

Attainment of POs & PSOs level													
Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1
C217	3	3	3	3	3	2	-	-	-	-	3	2	2
Attainment	3.00	3.00	3.00	3.00	3.00	2.00	-	-	-	-	3.00	2.00	2.00

HOD/ECE



Saranathan College of Engineering
Department of Electronics and Communication Engineering

COURSE CODE / TITLE	DIGITAL COMMUNICATION	NBA Code	C301
SEMESTER / YEAR	V sem / III Year	Academic year	2021-2022
COORDINATOR	Dr.V.Mohan / Dr.S.Rajeswari	Credits	3
CO Attainment Level: 1 - (0% - 60%) 2- (61%-90%) 3-(91% and above)			

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UNI) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI) (%)	Indirect CO Attainment (Course End Survey)	Over all CO Attainment (0.8xDirect + 0.2xIndirect) (%)	Over all CO Attainment Level
C301.1	51.67	98	91.47	84.72	90.12	2
C301.2	59.17	98	82.47	83.61	82.7	2
C301.3	25.83	98	69.13	84.17	72.14	2
C301.4	69.17	98	86.47	83.89	85.95	2
C301.5	55	98	80.8	83.06	81.25	2
C301.6	53.33	98	80.13	81.94	80.49	2

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C301.1	2	2	2	2	2	1			1	1	1	2	2	2
C301.2	2	2	2	2	2	1			1	1	1	2	2	2
C301.3	2	2	2	2	2	1			1	1	1	2		2
C301.4	2	2	2	2	2	1			1	1	1	2	2	2
C301.5	2	2	2	1	2	1			1	1	1	2	2	2
C301.6	2	2	2	1	2	1			1	1	1	2	2	2
C301	2	2	2	1.67	2	1			1	1	1	2	1.67	2

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C301.1	1.33	1.33	1.33	1.33	1.33	0.67			0.67	0.67	0.67	1.33	1.33	1.33
C301.2	1.33	1.33	1.33	1.33	1.33	0.67			0.67	0.67	0.67	1.33	1.33	1.33
C301.3	1.33	1.33	1.33	1.33	1.33	0.67			0.67	0.67	0.67	1.33	0.00	1.33
C301.4	1.33	1.33	1.33	1.33	1.33	0.67			0.67	0.67	0.67	1.33	1.33	1.33
C301.5	1.33	1.33	1.33	0.67	1.33	0.67			0.67	0.67	0.67	1.33	1.33	1.33
C301.6	1.33	1.33	1.33	0.67	1.33	0.67			0.67	0.67	0.67	1.33	1.33	1.33
Level	1.33	1.33	1.33	1.11	1.33	0.67			0.67	0.67	0.67	1.33	1.11	1.33

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C301	2	2	2	1.67	2	1			1	1	1	2	1.67	2
Attainment	1.33	1.33	1.33	1.11	1.33	0.67			0.67	0.67	0.67	1.33	1.11	1.33

(Signature)
HOD/ECE



Sarvaarth College of Engineering
Department of Electronics and Communication Engineering

COURSE CODE / TITLE	DISCRETE-TIME SIGNAL PROCESSING	NBA Code	C-302
SEMESTER / YEAR	V sem / III Year	Academic year	2021-2022
COORDINATOR	Dr. P. Nannammagari / Dr. M. Padma	Credits	4

CO Attainment Level 1: (0% - 60%) 2: (61% - 90%) 3: (91% and above)

CO ATTAINMENT

CO	CO Attainment Internal (CO-INT) (%)	CO Attainment University (CO-UNI) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI) (%)	Indirect CO Attainment (Course End Survey)	Overall CO Attainment (0.8xDirect + 0.2xIndirect) (%)	Overall CO Attainment Level
C302.1	52.5	98	79.8	86.33	81.06	2
C302.2	52.5	98	73.8	82.5	75.94	2
C302.3	40	98	74.8	82.78	76.4	2
C302.4	45.83	98	77.13	84.17	78.54	2
C302.5	0	98	58.8	82.5	63.54	2
C302.6	100	98	98.8	81.39	95.32	3

Expected CO-PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C302.1	3	3	3	2	3	1	1	1	2	2	2	2	1	1
C302.2	3	3	3	2	3	1	1	1	2	2	2	2	1	1
C302.3	3	3	3	2	3	1	1	1	2	2	2	2	1	1
C302.4	3	3	3	2	3	1	1	1	2	2	2	2	1	1
C302.5	3	3	3	2	3	1	1	1	2	2	2	2	1	1
C302.6	3	3	3	2	3	1	1	2	2	2	2	2	1	1
C302	3	3	3	2	3	1	1	1.17	2	2	2	2	1	1

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C302.1	2.00	2.00	2.00	1.33	2.00	0.67	0.67	0.67	1.33	1.33	1.33	1.33	2.00	2.00
C302.2	2.00	2.00	2.00	1.33	2.00	0.67	0.67	0.67	1.33	1.33	1.33	1.33	2.00	2.00
C302.3	2.00	2.00	2.00	1.33	2.00	0.67	0.67	0.67	1.33	1.33	1.33	1.33	2.00	2.00
C302.4	2.00	2.00	2.00	1.33	2.00	0.67	0.67	0.67	1.33	1.33	1.33	1.33	2.00	2.00
C302.5	2.00	2.00	2.00	1.33	2.00	0.67	0.67	0.67	1.33	1.33	1.33	1.33	2.00	2.00
C302.6	3.00	3.00	3.00	2.00	3.00	1.00	1.00	2.00	2.00	2.00	2.00	2.00	3.00	3.00
Level	2.17	2.17	2.17	1.44	2.17	0.72	0.72	0.89	1.44	1.44	1.44	1.44	2.17	2.17

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C302	3	3	3	2	3	1	1	1.17	2	2	2	2	1	1
Attainment	2.17	2.17	2.17	1.44	2.17	0.72	0.72	0.89	1.44	1.44	1.44	1.44	2.17	2.17

HOD/EE



Saranathan College of Engineering
Department of Electronics and Communication Engineering

COURSE CODE / TITLE	COMPUTER ARCHITECTURE AND ORGANIZATION	NBA Code	C303
SEMESTER / YEAR	V sem / III Year	Academic year	2021-2022
COORDINATOR	Ms.A.Sheelavathi / Ms.M.Padmapriya	Credits	3
CO Attainment Level: 1 - (0% - 60%) 2- (61%-90%) 3-(91% and			

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UNI) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI) (%)	Indirect CO Attainment (Course End Survey)	Over all CO Attainment (0.8xDirect + 0.2xIndirect) (%)	Over all CO Attainment Level
C303.1	29.17	98	70.47	83.33	73.04	2
C303.2	58.33	98	82.13	85	82.71	2
C303.3	37.5	98	73.8	83.06	75.65	2
C303.4	30.83	98	71.13	83.61	73.63	2
C303.5	70	98	86.8	84.17	86.27	2
C303.6	100	98	98.8	83.33	95.71	3

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	
C303.1	2	2	2	2		1					1	1	3	3	2
C303.2	2	2	2	2		1					1	1	3	3	2
C303.3	2	2	2	2		1					1	1	3	3	2
C303.4	2	2	2	2		1					1	1	3	3	2
C303.5	2	2	2	2		1					1	1	3	3	2
C303.6	2	2	2	2		1					1	1	3	3	2
C303	2	2	2	2		1					1	1	3	3	2

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C303.1	1.33	1.33	1.33	1.33		0.67					0.67	0.67	2.00	2.00
C303.2	1.33	1.33	1.33	1.33		0.67					0.67	0.67	2.00	2.00
C303.3	1.33	1.33	1.33	1.33		0.67					0.67	0.67	2.00	2.00
C303.4	1.33	1.33	1.33	1.33		0.67					0.67	0.67	2.00	2.00
C303.5	1.33	1.33	1.33	1.33		0.67					0.67	0.67	2.00	2.00
C303.6	2.00	2.00	2.00	2.00		1.00					1.00	1.00	3.00	3.00
Level	1.44	1.44	1.44	1.44		0.72					0.72	0.72	2.17	2.17

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C303	2	2	2	2		1					1	1	3	3
Attainment	1.44	1.44	1.44	1.44		0.72					0.72	0.72	2.17	2.17

HOD/ECE



COURSE CODE / TITLE	COMMITMENT THROUGH NETWORKS	NBA Code	C304
SEMESTER / YEAR	V sem / III Year	Academic year	2021-2022
COORDINATOR	Dr N. A. Arummozhi / Mr M. Mahendran	Credits	3
CO Attainment Level	1 - (0% - 60%) 2 - (61% - 90%) 3 - (91% and above)		

CO ATTAINMENT

CO	CO Attainment Internal (CO-INT) (%)	CO Attainment University (CO-UNI) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI) (%)	Indirect CO Attainment (Course End Survey)	Over all CO Attainment (0.8xDirect + 0.2xIndirect) (%)	Over all CO Attainment Level
C304.1	38.33	98	74.13	83.06	75.92	2
C304.2	48.33	98	76.13	82.22	78.95	2
C304.3	60.83	98	83.13	83.33	83.17	2
C304.4	40	98	74.8	83.06	76.45	2
C304.5	43.33	98	76.13	82.22	77.35	2
C304.6	24.17	98	68.47	84.72	71.72	2

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C304.1	2	2	1	1	1					1		1	1	2
C304.2	2	2	1	1	1					1		1	1	2
C304.3	2	2	1	1	1					1		1	1	2
C304.4	2	2	1	1	1					1		1	1	2
C304.5	2	2	1	1	1					1		1	1	2
C304.6	2	2	1	1	1					1		1	1	2
C304	2	2	1	1	1					1		1	1	2

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C304.1	1.33	1.33	0.67	0.67	0.67					0.67		0.67	0.67	1.33
C304.2	1.33	1.33	0.67	0.67	0.67					0.67		0.67	0.67	1.33
C304.3	1.33	1.33	0.67	0.67	0.67					0.67		0.67	0.67	1.33
C304.4	1.33	1.33	0.67	0.67	0.67					0.67		0.67	0.67	1.33
C304.5	1.33	1.33	0.67	0.67	0.67					0.67		0.67	0.67	1.33
C304.6	1.33	1.33	0.67	0.67	0.67					0.67		0.67	0.67	1.33
Level	1.33	1.33	0.67	0.67	0.67					0.67		0.67	0.67	1.33

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C304	2	2	1	1	1					1		1	1	2
Attainment	1.33	1.33	0.67	0.67	0.67					0.67		0.67	0.67	1.33

HOD/ECE



Saranathan College of Engineering
Department of Electronics and Communication Engineering

COURSE CODE / TITLE	MEDICAL ELECTRONICS	NBA Code	C305PE1
SEMESTER / YEAR	V sem / III Year	Academic year	2021-2022
COORDINATOR	Dr.M.Baritha Begum / Ms.M.Anthuvan Lydia	Credits	3
CO Attainment Level: 1 - (0% - 60%) 2- (61%-90%) 3-(91% and above)			

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UNI) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI) (%)	Indirect CO Attainment (Course End Survey)	Over all CO Attainment (0.8xDirect + 0.2xIndirect) (%)	Over all CO Attainment Level
C305PE1.1	65	98	84.8	84.17	84.67	2
C305PE1.2	45	98	76.8	84.17	78.27	2
C305PE1.3	83.33	98	92.13	85.56	90.82	2
C305PE1.4	67.5	98	85.8	85	85.64	2
C305PE1.5	30	98	70.8	82.78	73.2	2
C305PE1.6	99.17	98	98.47	85	95.77	3

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C305PE1.1	2	2	2	1	1	2	2	1		1	1	2	2	1
C305PE1.2	2	2	2	1	1	2	2	1		1	1	2	2	1
C305PE1.3	2	2	2	1	1	2	2	1		1	1	2	2	1
C305PE1.4	2	2	2	1	1	2	2	1		1	1	2	2	1
C305PE1.5	2	2	2	1		2	2	1		1	1	2	2	1
C305PE1.6	2	2	2	1		2	2	1		1	1	2	2	1
C305PE1	2	2	2	1	0.67	2	2	1		1	1	2	2	1

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C305PE1.1	1.33	1.33	1.33	0.67	0.67	1.33	1.33	0.67		0.67	0.67	1.33	1.33	0.67
C305PE1.2	1.33	1.33	1.33	0.67	0.67	1.33	1.33	0.67		0.67	0.67	1.33	1.33	0.67
C305PE1.3	1.33	1.33	1.33	0.67	0.67	1.33	1.33	0.67		0.67	0.67	1.33	1.33	0.67
C305PE1.4	1.33	1.33	1.33	0.67	0.67	1.33	1.33	0.67		0.67	0.67	1.33	1.33	0.67
C305PE1.5	1.33	1.33	1.33	0.67		1.33	1.33	0.67		0.67	0.67	1.33	1.33	0.67
C305PE1.6	2.00	2.00	2.00	1.00		2.00	2.00	1.00		1.00	1.00	2.00	2.00	1.00
Level	1.44	1.44	1.44	0.72	0.67	1.44	1.44	0.72		0.72	0.72	1.44	1.44	0.72

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C305PE1	2	2	2	1	0.67	2	2	1		1	1	2	2	1
Attainment	1.44	1.44	1.44	0.72	0.67	1.44	1.44	0.72		0.72	0.72	1.44	1.44	0.72

M. S. S. S.
HOD/ECE



COURSE CODE / TITLE	DIGITAL AUDIO ENGINEERING	NBA Code	C306OE1
SEMESTER / YEAR	V sem / III Year	Academic year	2021-2022
COORDINATOR	Ms V Ramya	Credits	3
CO Attainment Level 1 - (0% - 60%) 2 - (61% - 90%) 3 - (91% and above)			

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UNI) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI) (%)	Indirect CO Attainment (Course End Survey)	Over all CO Attainment (0.8xDirect + 0.2xIndirect) (%)	Over all CO Attainment Level
C306.1	54.17	95	78.67	85	79.93	2
C306.2	56.67	95	79.67	82.5	80.23	2
C306.3	0	95	57	83.61	62.32	2
C306.4	0	95	57	81.94	61.99	2
C306.5	17.5	95	64	83.61	67.92	2
C306.6	0	95	57	84.72	62.54	2

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C306.1	2	2	2	1	1	1	1			1		2	2	2
C306.2	2	2	2	1	1	1	1			1		2	2	2
C306.3	2	2	2	1	1	1	1			1		2	2	2
C306.4	2	2	2	1	1	1	1			1		2	2	2
C306.5	2	2	2	1	1	1	1			1		2	2	2
C306.6	2	2	2	1	2	1	1			1		2	2	2
C306	2	2	2	1	1.17	1	1			1		2	2	2

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C306.1	1.33	1.33	1.33	0.67	0.67	0.67	0.67			0.67		1.33	1.33	1.33
C306.2	1.33	1.33	1.33	0.67	0.67	0.67	0.67			0.67		1.33	1.33	1.33
C306.3	1.33	1.33	1.33	0.67	0.67	0.67	0.67			0.67		1.33	1.33	1.33
C306.4	1.33	1.33	1.33	0.67	0.67	0.67	0.67			0.67		1.33	1.33	1.33
C306.5	1.33	1.33	1.33	0.67	0.67	0.67	0.67			0.67		1.33	1.33	1.33
C306.6	1.33	1.33	1.33	0.67	1.33	0.67	0.67			0.67		1.33	1.33	1.33
Level	1.33	1.33	1.33	0.67	0.78	0.67	0.67			0.67		1.33	1.33	1.33

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C306OE1	2	2	2	1	1.17	1	1			1		2	2	2
Attainment	1.33	1.33	1.33	0.67	0.78	0.67	0.67			0.67		1.33	1.33	1.33

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Saranathan College of Engineering
Department of Electronics and Communication Engineering

COURSE CODE /	EC8562 DIGITAL SIGNAL PROCESSING	NBA Code	C307
SEMESTER / YEAR	V sem/ III	Academic year	2021-2022
COORDINATOR	DR.P.SHANMUGAPRIYA	Credits	2
Level 1 (0-69%), Level 2 (70-79%) and Level 3 (above 80%)			

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT)	CO-Attainment University (CO-UNI)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI)	Target	CO Attainment Level
C307.1	100.00	100.00	100.00	80	3
C307.2	100.00	100.00	100.00	80	3
C307.3	100.00	100.00	100.00	80	3
C307.4	100.00	100.00	100.00	80	3
C307.5	100.00	100.00	100.00	80	3
C307.6	100.00	100.00	100.00	80	3

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C307.1	2	2	2	2	2	1	1	-	2	2	2	2	2	2
C307.2	2	2	2	2	2	1	1	-	2	2	2	2	2	2
C307.3	2	2	2	2	2	1	1	-	2	2	2	2	2	2
C307.4	2	2	2	2	2	1	1	-	2	2	2	2	2	2
C307.5	2	2	2	2	2	1	1	-	2	2	2	2	2	2
C307.6	2	2	2	2	2	1	1	-	2	2	2	2	2	2
LEVEL	2	2	2	2	2	1	1	-	2	2	2	2	2	2

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C307.1	2.00	2.00	2.00	2.00	2.00	1.00	1.00	-	2.00	2.00	2.00	2.00	2.00	2.00
C307.2	2.00	2.00	2.00	2.00	2.00	1.00	1.00	-	2.00	2.00	2.00	2.00	2.00	2.00
C307.3	2.00	2.00	2.00	2.00	2.00	1.00	1.00	-	2.00	2.00	2.00	2.00	2.00	2.00
C307.4	2.00	2.00	2.00	2.00	2.00	1.00	1.00	-	2.00	2.00	2.00	2.00	2.00	2.00
C307.5	2.00	2.00	2.00	2.00	2.00	1.00	1.00	-	2.00	2.00	2.00	2.00	2.00	2.00
C307.6	2.00	2.00	2.00	2.00	2.00	1.00	1.00	-	2.00	2.00	2.00	2.00	2.00	2.00
Level	2.00	2.00	2.00	2.00	2.00	1.00	1.00	-	2.00	2.00	2.00	2.00	2.00	2.00

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C307	2	2	2	2	2	1	1	-	2	2	2	2	2	2
Attainment	2.00	2.00	2.00	2.00	2.00	1.00	1.00	-	2.00	2.00	2.00	2.00	2.00	2.00


HOD



Saranathan College of Engineering
Department of Electronics and Communication Engineering

COURSE CODE / TITLE	EC8561 COMMUNICATION SYSTEM LAB	NBA Code	C308
SEMESTER / YEAR	V sem/ III	Academic year	2021-2022
COORDINATOR	Dr.S.RAJESWARI	Credits	2
Level 1 (0-69%), Level 2 (70-79%) and Level 3 (above 80%)			

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT)	CO-Attainment University (CO-UNI)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI)	Target	CO Attainment Level
C308.1	100.00	100.00	100.00	80	3
C308.2	100.00	100.00	100.00	80	3
C308.3	100.00	100.00	100.00	80	3
C308.4	100.00	100.00	100.00	80	3
C308.5	100.00	100.00	100.00	80	3
C308.6	100.00	100.00	100.00	80	3

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C308.1	2	2	2	1	1	-	-	1	1	2	1	1	2	2
C308.2	2	2	2	1	1	-	-	1	1	2	1	1	2	2
C308.3	2	2	2	1	1	-	-	1	1	2	1	1	2	2
C308.4	2	2	2	1	1	-	-	1	1	2	1	1	2	2
C308.5	2	2	2	1	1	-	-	1	1	2	1	1	2	2
C308.6	2	2	2	1	1	-	-	1	1	2	1	1	2	2
LEVEL	2	2	2	1	1	-	-	1	1	2	1	1.00	2	2

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C308.1	2.00	2.00	2.00	1.00	1.00	-	-	1.00	1.00	2.00	1.00	1.00	2.00	2.00
C308.2	2.00	2.00	2.00	1.00	1.00	-	-	1.00	1.00	2.00	1.00	1.00	2.00	2.00
C308.3	2.00	2.00	2.00	1.00	1.00	-	-	1.00	1.00	2.00	1.00	1.00	2.00	2.00
C308.4	2.00	2.00	2.00	1.00	1.00	-	-	1.00	1.00	2.00	1.00	1.00	2.00	2.00
C308.5	2.00	2.00	2.00	1.00	1.00	-	-	1.00	1.00	2.00	1.00	1.00	2.00	2.00
C308.6	2.00	2.00	2.00	1.00	1.00	-	-	1.00	1.00	2.00	1.00	1.00	2.00	2.00
Level	2.00	2.00	2.00	1.00	1.00	-	-	1.00	1.00	2.00	1.00	1.00	2.00	2.00

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C308	2	2	2	1	1	-	-	1	1	2	1	1.00	2	2
Attainment	2.00	2.00	2.00	1.00	1.00	-	-	1.00	1.00	2.00	1.00	1.00	2.00	2.00

HOD



Saranathan College of Engineering
Department of Electronics and Communication Engineering

COURSE CODE / TITLE	EC8563 COMMUNICATION NETWORKS LAB	NBA Code	C309
SEMESTER / YEAR	V sem/ III	Academic year	2021-2022
COORDINATOR	MR.M.MAHENDRAN	Credits	2
Level 1 (0-69%), Level 2 (70-79%) and Level 3 (above 80%)			

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT)	CO-Attainment University (CO-UNI)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI)	Target	CO Attainment Level
C309.1	100.00	100.00	100.00	80	3
C309.2	100.00	100.00	100.00	80	3
C309.3	100.00	100.00	100.00	80	3
C309.4	100.00	100.00	100.00	80	3
C309.5	100.00	100.00	100.00	80	3
C309.6	100.00	100.00	100.00	80	3

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C309.1	2	2	2	2	2	1	1	-	2	2	2	2	2	2
C309.2	2	2	2	2	2	1	1	-	2	2	2	2	2	2
C309.3	2	2	2	2	2	1	1	-	2	2	2	2	2	2
C309.4	2	2	2	2	2	1	1	-	2	2	2	2	2	2
C309.5	2	2	2	2	2	1	1	-	2	2	2	2	2	2
C309.6	2	2	2	2	2	1	1	-	2	2	2	2	2	2
LEVEL	2	2	2	2	2	1	1	-	2	2	2	2	2	2

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C309.1	2.00	2.00	2.00	2.00	2.00	1.00	1.00	-	2.00	2.00	2.00	2.00	2.00	2.00
C309.2	2.00	2.00	2.00	2.00	2.00	1.00	1.00	-	2.00	2.00	2.00	2.00	2.00	2.00
C309.3	2.00	2.00	2.00	2.00	2.00	1.00	1.00	-	2.00	2.00	2.00	2.00	2.00	2.00
C309.4	2.00	2.00	2.00	2.00	2.00	1.00	1.00	-	2.00	2.00	2.00	2.00	2.00	2.00
C309.5	2.00	2.00	2.00	2.00	2.00	1.00	1.00	-	2.00	2.00	2.00	2.00	2.00	2.00
C309.6	2.00	2.00	2.00	2.00	2.00	1.00	1.00	-	2.00	2.00	2.00	2.00	2.00	2.00
Level	2.00	2.00	2.00	2.00	2.00	1.00	1.00	-	2.00	2.00	2.00	2.00	2.00	2.00

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C309	2	2	2	2	2	1	1	-	2	2	2	2	2	2
Attainment	2.00	2.00	2.00	2.00	2.00	1.00	1.00	-	2.00	2.00	2.00	2.00	2.00	2.00

HOD



Saranathan College of Engineering
Department of Electronics and Communication Engineering

COURSE CODE / TITLE	MICROPROCESSORS AND MICROCONTROLLERS	NBA Code	C310
SEMESTER / YEAR	VI sem / III Year	Academic year	2021-2022
COORDINATOR	Dr.K.Malaisamy / Dr.C.Vennila	Credits	3
CO Attainment Level: 1 - (0% - 60%) 2- (61%-90%) 3-(91% and above)			

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UNI) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI) (%)	Indirect CO Attainment (Course End Survey)	Over all CO Attainment (0.8xDirect + 0.2xIndirect) (%)	Over all CO Attainment Level
C310.1	45.83	51	48.93	81.67	55.48	1
C310.2	48.33	51	49.93	82.22	56.39	1
C310.3	29.17	51	42.27	83.61	50.54	1
C310.4	39.17	51	46.27	83.61	53.74	1
C310.5	24.17	51	40.27	83.89	48.99	1
C310.6	0	51	30.6	83.33	41.15	1

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C310.1	2	2	1	1	1					1	1	1	2	2
C310.2	2	2	1	1	1	1	1			1	1	1	2	2
C310.3	2	2	1	1	1	1	1			1	1	1	2	2
C310.4	2	2	1	1	1	1	1				1	1	2	2
C310.5	2	2	1	1	1	1	1				1	1	2	2
C310.6	2	2	1	1	1	1	1	1			1	1	2	2
C310	2	2	1	1	1	0.83	0.83	0.17		0.5	1	1	2	2

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C310.1	0.67	0.67	0.33	0.33	0.33	0.00	0.00			0.33	0.33	0.33	0.67	0.67
C310.2	0.67	0.67	0.33	0.33	0.33	0.33	0.33			0.33	0.33	0.33	0.67	0.67
C310.3	0.67	0.67	0.33	0.33	0.33	0.33	0.33			0.33	0.33	0.33	0.67	0.67
C310.4	0.67	0.67	0.33	0.33	0.33	0.33	0.33				0.33	0.33	0.67	0.67
C310.5	0.67	0.67	0.33	0.33	0.33	0.33	0.33				0.33	0.33	0.67	0.67
C310.6	0.67	0.67	0.33	0.33	0.33	0.33	0.33	0.33			0.33	0.33	0.67	0.67
Level	0.67	0.67	0.33	0.33	0.33	0.28	0.28	0.33		0.33	0.33	0.33	0.67	0.67

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C310	2	2	1	1	1	0.83	0.83	0.17		0.5	1	1	2	2
Attainment	0.67	0.67	0.33	0.33	0.33	0.28	0.28	0.33		0.33	0.33	0.33	0.67	0.67

(Signature)
MOD/ECE



Saranathan College of Engineering
Department of Electronics and Communication Engineering

COURSE CODE / TITLE	VLSI DESIGN	NBA Code	C311
SEMESTER / YEAR	VI sem / III Year	Academic year	2021-2022
COORDINATOR	Dr C Vennila / Dr M Santhi		
CO Attainment Level: 1 - (0% - 60%) 2 - (61% - 90%) 3 - 91% and above		Credits	3

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UNI) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI) (%)	Indirect CO Attainment (Course End Survey)	Over all CO Attainment (0.8xDirect + 0.2xIndirect) (%)	Over all CO Attainment Level
C311.1	26.67	57	44.87	81.94	52.28	1
C311.2	51.67	57	54.87	84.44	60.78	1
C311.3	40	57	50.2	85.56	57.27	1
C311.4	19.17	57	41.87	81.39	49.77	1
C311.5	19.17	57	41.87	85.56	50.61	1
C311.6	0	57	34.2	79.17	43.19	1

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C311.1	2	2	2	2	1	1	1	1	1	1	1	2	2	2
C311.2	2	2	2	2	1	1	1	1	1	1	1	2	2	2
C311.3	2	2	2	2	1	2	2	2	1	1	1	2	2	2
C311.4	2	2	2	2	1	2	1	2	1	1	1	2	2	2
C311.5	2	2	2	2	1	2	1	2	1	1	1	2	2	2
C311.6	2	2	2	2	1	1	1	2	1	1	1	2	2	2
C311	2	2	2	2	1	1.5	1.17	1.5	1	1	1	2	3	2

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C311.1	0.67	0.67	0.67	0.67	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.67	0.67	0.67
C311.2	0.67	0.67	0.67	0.67	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.67	0.67	0.67
C311.3	0.67	0.67	0.67	0.67	0.33	0.67	0.67	0.67	0.33	0.33	0.33	0.67	0.67	0.67
C311.4	0.67	0.67	0.67	0.67	0.33	0.67	0.33	0.67	0.33	0.33	0.33	0.67	0.67	0.67
C311.5	0.67	0.67	0.67	0.67	0.33	0.67	0.33	0.67	0.33	0.33	0.33	0.67	0.67	0.67
C311.6	0.67	0.67	0.67	0.67	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.67	0.67	0.67
Level	0.67	0.67	0.67	0.67	0.33	0.50	0.39	0.50	0.33	0.33	0.33	0.67	0.72	0.67

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C311	2	2	2	2	1	1.5	1.17	1.5	1	1	1	2	2.17	2
Attainment	0.67	0.67	0.67	0.67	0.33	0.50	0.39	0.50	0.33	0.33	0.33	0.67	0.72	0.67

V. S. S. S.
HOD/ECE



Saranathan College of Engineering
Department of Electronics and Communication Engineering

COURSE CODE / TITLE	WIRELESS COMMUNICATION	NBA Code	C312
SEMESTER / YEAR	VI sem / III Year	Academic year	2021-2022
COORDINATOR	Ms.S.Kiruthiga / Mr.M.Mahendran	Credits	3
CO Attainment Level: 1 - (0% - 60%) 2- (61%-90%) 3-(91% and			

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UNI) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI) (%)	Indirect CO Attainment (Course End Survey)	Over all CO Attainment (0.8xDirect + 0.2xIndirect) (%)	Over all CO Attainment Level
C312.1	60	79	71.4	83.61	73.84	2
C312.2	52.5	79	68.4	83.06	71.33	2
C312.3	70	79	75.4	85.28	77.38	2
C312.4	35	79	61.4	82.5	65.62	2
C312.5	72.5	79	76.4	86.39	78.4	2
C312.6	0	79	47.4	85.83	55.09	1

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C312.1	2	2	1	1						2	1	1	2	2
C312.2	2	2	1	1						2	1	1	2	2
C312.3	2	2	1	1						2	1	1	2	2
C312.4	2	2	1	1						2	1	1	2	2
C312.5	2	2	1	1						2	1	1	2	2
C312.6	2	2	1	1						2	1	1	2	2
C312	2	2	1	1						2	1	1	2	2

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C312.1	1.33	1.33	0.67	0.67						1.33	0.67	0.67	1.33	1.33
C312.2	1.33	1.33	0.67	0.67						1.33	0.67	0.67	1.33	1.33
C312.3	1.33	1.33	0.67	0.67						1.33	0.67	0.67	1.33	1.33
C312.4	1.33	1.33	0.67	0.67						1.33	0.67	0.67	1.33	1.33
C312.5	1.33	1.33	0.67	0.67						1.33	0.67	0.67	1.33	1.33
C312.6	0.67	0.67	0.33	0.33						0.67	0.33	0.33	0.67	0.67
Level	1.22	1.22	0.61	0.61						1.22	0.61	0.61	1.22	1.22

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C312	2	2	1	1						2	1	1	2	2
Attainment	1.22	1.22	0.61	0.61						1.22	0.61	0.61	1.22	1.22

HOD/ECE



COURSE CODE / TITLE	PRINCIPLES OF MANAGEMENT	REG. Code	C313
SEMESTER / YEAR	VI sem / III year	Academic year	2023-2024
COORDINATOR	Mr. J. Srinivasan / Mr. K. Arun	Credits	2
CO Attainment Level	1. (0% - 60%) / 2. (61% - 80%) / 3. (81% and above)		

CO ATTAINMENT

CO	CO Attainment Internal (CO-INT) (%)	CO Attainment University (CO-UNI) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI) (%)	Indirect CO Attainment (Course End Survey)	Overall CO Attainment (0.60xDirect + 0.20xIndirect) (%)	Overall CO Attainment (Final)
C313.1	85.17	98	88.07	85.28	86.39	2
C313.2	82.33	98	73.73	81.11	75.21	2
C313.3	86.87	98	75.07	83.89	76.83	2
C313.4	81.67	98	73.07	83.61	75.18	2
C313.5	46	98	72.4	83.89	74.7	2
C313.6	51.7	98	60.07	83.89	64.83	2

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C313.1	2	2	2	2		2		2			2	1	2	
C313.2	2	2	2	2		2		2			2	1	2	
C313.3	2	2	2	2		2		2			2	1	2	
C313.4	2	2	2	2		2		2			2	1	2	
C313.5	2	2	2	2		2		2			2	1	2	
C313.6	2	1	2	2		2		2			1	1	2	
C313	2	1.83	2	2		2		2			1.83	2.67	2	

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C313.1	2.00	1.33	1.33	1.33		1.33		1.33			1.33	2.00	1.33	
C313.2	2.00	1.33	1.33	1.33		1.33		1.33			1.33	2.00	1.33	
C313.3	2.00	1.33	1.33	1.33		1.33		1.33			1.33	2.00	1.33	
C313.4	2.00	1.33	1.33	1.33		1.33		1.33			1.33	2.00	1.33	
C313.5	2.00	1.33	1.33	1.33		1.33		1.33			1.33	2.00	1.33	
C313.6	2.00	0.67	1.33	1.33		1.33		1.33			0.67	0.67	1.33	
Level	2.00	1.22	1.33	1.33		1.33		1.33			1.22	1.78	1.33	

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C313	2	1.83	2	2		2		2			1.83	2.67	2	
Attainment	2.00	1.22	1.33	1.33		1.33		1.33			1.22	1.78	1.33	



Saranathan College of Engineering
Department of Electronics and Communication Engineering

COURSE CODE / TITLE	TRANSMISSION LINES AND RF SYSTEMS	NBA Code	C314
SEMESTER / YEAR	VI sem / III Year	Academic year	2021-2022
COORDINATOR	Dr.P.Shanmugapriya / Dr.M.Baritha Begum	Credits	3
CO Attainment Level: 1 - (0% - 60%) 2- (61%-90%) 3-(91% and above)			

CO ATTAINMENT

CU	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UNI) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI) (%)	Indirect CO Attainment (Course End Survey)	Over all CO Attainment (0.8xDirect + 0.2xIndirect) (%)	Over all CO Attainment Level
C314.1	51.67	76	66.27	79.72	68.96	2
C314.2	22.5	76	54.6	82.5	60.18	1
C314.3	45	76	63.6	85.56	67.99	2
C314.4	54.17	76	67.27	83.89	70.59	2
C314.5	35	76	59.6	81.67	64.01	2
C314.6	0	76	45.6	84.17	53.31	1

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C314.1	3	3	3	1	1						1	1	3	1
C314.2	3	3	3	1	1						1	1	3	1
C314.3	3	3	3	1	1						1	1	3	1
C314.4	3	3	3	1	1						1	1	3	1
C314.5	3	3	3	1	1						1	1	3	1
C314.6	3	3	3	1	1						1	1	3	1
C314	3	3	3	1	1						1	1	3	1

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C314.1	2.00	2.00	2.00	0.67	0.67						0.67	0.67	2.00	0.67
C314.2	1.00	1.00	1.00	0.33	0.33						0.33	0.33	1.00	0.33
C314.3	2.00	2.00	2.00	0.67	0.67						0.67	0.67	2.00	0.67
C314.4	2.00	2.00	2.00	0.67	0.67						0.67	0.67	2.00	0.67
C314.5	2.00	2.00	2.00	0.67	0.67						0.67	0.67	2.00	0.67
C314.6	1.00	1.00	1.00	0.33	0.33						0.33	0.33	1.00	0.33
Level	1.67	1.67	1.67	0.56	0.56						0.56	0.56	1.67	0.56

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C314	3	3	3	1	1						1	1	3	1
Attainment	1.67	1.67	1.67	0.56	0.56						0.56	0.56	1.67	0.56

HOD/ECE

(Signature)
HOD/ECE



Saranathan College of Engineering
Department of Electronics and Communication Engineering

COURSE CODE / TITLE	MULTIMEDIA COMPRESSION AND COMMUNICATION	NBA Code	C315PE4
SEMESTER / YEAR	VI sem / III Year	Academic year	2021-2022
COORDINATOR	Ms.M.Anthuvan Lydia		
CO Attainment Level: 1 - (0% - 60%) 2- (61%-90%) 3-(91% and above)		Credits	3

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UNI) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI) (%)	Indirect CO Attainment (Course End Survey)	Over all CO Attainment (0.8xDirect + 0.2xIndirect) (%)	Over all CO Attainment Level
C315PE4.1	20.83	43	34.13	79.44	43.19	1
C315PE4.2	17.5	43	32.8	80	42.24	1
C315PE4.3	73.33	43	55.13	83.33	60.77	1
C315PE4.4	95	43	63.8	86.11	68.26	2
C315PE4.5	95	43	63.8	83.33	67.71	2
C315PE4.6	0	43	25.8	86.11	37.86	1

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C315PE4.1	2	2	2	1	1	1	1	1			1	1	1	2
C315PE4.2	2	2	2	1	1	1	1	1			1	1	1	2
C315PE4.3	2	2	2	1	1	1	1	1			1	1	1	2
C315PE4.4	2	2	2	1	1	1	1	1			1	1	1	2
C315PE4.5	2	2	2	1	1	1	1	1			1	1	1	2
C315PE4.6	2	2	2	1	1	1	1	1			1	1	1	2
C315PE4	2	2	2	1	1	1	1	1			1	1	1	2

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C315PE4.1	0.67	0.67	0.67	0.33	0.33	0.33	0.33	0.33			0.33	0.33	0.33	0.67
C315PE4.2	0.67	0.67	0.67	0.33	0.33	0.33	0.33	0.33			0.33	0.33	0.33	0.67
C315PE4.3	0.67	0.67	0.67	0.33	0.33	0.33	0.33	0.33			0.67	0.67	0.67	1.33
C315PE4.4	1.33	1.33	1.33	0.67	0.67	0.67	0.67	0.67			0.67	0.67	0.67	1.33
C315PE4.5	1.33	1.33	1.33	0.67	0.67	0.67	0.67	0.67			0.33	0.33	0.33	0.67
C315PE4.6	0.67	0.67	0.67	0.33	0.33	0.33	0.33	0.33			0.44	0.44	0.44	0.89
Level	0.89	0.89	0.89	0.44	0.44	0.44	0.44	0.44						

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C315PE4	2	2	2	1	1	1	1	1			1	1	1	2
Attainment	0.89	0.89	0.89	0.44	0.44	0.44	0.44	0.44			0.44	0.44	0.44	0.89

HOD/ECE

(Signature)



Saranathan College of Engineering
Department of Electronics and Communication Engineering

COURSE CODE / TITLE	EC8681 Microprocessor and Microcontroller Lab	NBA Code	C316
SEMESTER / YEAR	VI sem/ III	Academic year	2021-2022
COORDINATOR	M Anthuvan Lydia, V Dinesh	Credits	2
CO Attainment Level: 1 - (0% - 60%) 2 - (61%-90%) 3-(91% and Above)			

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UNI) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI) (%)	Target	Over all CO Attainment Level
C316.1	100.00	100.00	100.00	80	3
C316.2	100.00	100.00	100.00	80	3
C316.3	100.00	100.00	100.00	80	3
C316.4	100.00	100.00	100.00	80	3
C316.5	100.00	100.00	100.00	80	3
C316.6	100.00	100.00	100.00	80	3

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C316.1	3	3	3	3	2	-	-	-	2	2	2	2	1	1
C316.2	3	3	3	3	2	-	-	-	2	2	2	2	1	1
C316.3	3	3	3	3	2	-	-	-	2	2	2	2	1	1
C316.4	3	3	3	3	2	-	-	-	2	2	2	2	1	1
C316.5	3	3	3	3	2	-	-	-	2	2	2	2	1	1
C316.6	3	3	3	3	2	-	-	-	2	2	2	2	1	1
LEVEL	3	3	3	3	2	-	-	-	2	2	2	2	1	1

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C316.1	3.00	3.00	3.00	3.00	2.00	-	-	-	2.00	2.00	2	2	1.00	1.00
C316.2	3.00	3.00	3.00	3.00	2.00	-	-	-	2.00	2.00	2	2	1.00	1.00
C316.3	3.00	3.00	3.00	3.00	2.00	-	-	-	2.00	2.00	2	2	1.00	1.00
C316.4	3.00	3.00	3.00	3.00	2.00	-	-	-	2.00	2.00	2	2	1.00	1.00
C316.5	3.00	3.00	3.00	3.00	2.00	-	-	-	2.00	2.00	2	2	1.00	1.00
C316.6	3.00	3.00	3.00	3.00	2.00	-	-	-	2.00	2.00	2	2	1.00	1.00
Level	3.00	3.00	3.00	3.00	2.00	-	-	-	2.00	2.00	2.00	2.00	1.00	1.00

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C316	3	3	3	3	2	-	-	-	2	2	2	2	1	1
Attainment	3.00	3.00	3.00	3.00	2.00	-	-	-	2.00	2.00	2.00	2.00	1.00	1.00

HOD/ECE



COURSE CODE / TITLE	EC8661 VLSI DESIGN LAB	NBA Code	C317
SEMESTER / YEAR	VI sem/ III	Academic year	2021-2022
COORDINATOR	J.Eindhumathy, Dr.C.Vennila	Credits	2
CO Attainment Level: 1 - (0% - 60%) 2 - (61% - 90%) 3 - (91% and Above)			

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UNI) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI) (%)	Target	Over all CO Attainment Level
C317.1	100.00	100.00	100.00	80	3
C317.2	100.00	100.00	100.00	80	3
C317.3	100.00	100.00	100.00	80	3
C317.4	100.00	100.00	100.00	80	3
C317.5	100.00	100.00	100.00	80	3
C317.6	100.00	100.00	100.00	80	3

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C317.1	1	1	1	1	1	1	1	-	-	2	-	-	1	1
C317.2	1	1	1	1	1	1	1	-	-	2	1	1	1	1
C317.3	2	2	1	1	1	1	1	-	-	2	-	1	2	2
C317.4	2	1	1	1	1	2	2	-	-	2	-	1	2	1
C317.5	2	1	1	1	1	1	1	-	-	2	-	1	2	1
C317.6	2	1	1	1	1	1	1	-	-	2	-	1	2	1
LEVEL	1.66666667	1.16666667	1	1	1	1.16666667	1.16666667	-	-	2	1	1	1.66666667	1.16666667

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C317.1	1	1	1	1	1	1	1	-	-	2	-	-	1	1
C317.2	1	1	1	1	1	1	1	-	-	2	1	1	1	1
C317.3	2	2	1	1	1	1	1	-	-	2	-	1	2	2
C317.4	2	1	1	1	1	2	2	-	-	2	-	1	2	1
C317.5	2	1	1	1	1	1	1	-	-	2	-	1	2	1
C317.6	2	1	1	1	1	1	1	-	-	2	-	1	2	1
Level	1.66666667	1.16666667	1	1	1	1.16666667	1.16666667	-	-	2	1	1	1.66666667	1.16666667

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C317	1.66666667	1.16666667	1	1	1	1.16666667	1.16666667	-	-	2	1	1	1.66666667	1.16666667
Attainment	1.67	1.17	1.00	1.00	1.00	1.17	1.17	-	-	2.00	1.00	1.00	1.67	1.17

HOD/ECE



Saranathan College of Engineering
Department of Electronics and Communication Engineering

COURSE CODE / TITLE	EC8611 / Technical Seminar	NBA Code	C318
SEMESTER / YEAR	VI sem/ III	Academic year	2021-2022
COORDINATOR	Dr.S.Rajeswari & Dr.M.Padmaa	Credits	1
CO Attainment Level 1 - (0% - 60%) 2- (61%-90%) 3-(91% and Above)			

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UNI) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI) (%)	Target	Over all CO Attainment Level
C318.1	100.00	100.00	100.00	80	3
C318.2	100.00	100.00	100.00	80	3
C318.3	100.00	100.00	100.00	80	3
C318.4	100.00	100.00	100.00	80	3
C318.5	100.00	100.00	100.00	80	3
C318.6	100.00	100.00	100.00	80	3

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C318.1	2	2	2	2	1	2	2	1	2	2	2	2	1	2
C318.2	2	2	2	2	1	2	2	1	2	2	2	2	1	2
C318.3	2	2	2	2	1	2	2	1	2	2	2	2	1	2
C318.4	2	2	2	2	1	2	2	1	2	2	2	2	1	2
C318.5	2	2	2	2	1	2	2	1	2	2	2	2	1	2
C318.6	2	2	2	2	1	2	2	1	2	2	2	2	1	2
LEVEL	2	2	2	2	1	2	2	1	2	2	2	2	1	2

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C318.1	2.00	2.00	2.00	2.00	1.00	2.00	2.00	1.00	2.00	2.00	2.00	2.00	1.00	2.00
C318.2	2.00	2.00	2.00	2.00	1.00	2.00	2.00	1.00	2.00	2.00	2.00	2.00	1.00	2.00
C318.3	2.00	2.00	2.00	2.00	1.00	2.00	2.00	1.00	2.00	2.00	2.00	2.00	1.00	2.00
C318.4	2.00	2.00	2.00	2.00	1.00	2.00	2.00	1.00	2.00	2.00	2.00	2.00	1.00	2.00
C318.5	2.00	2.00	2.00	2.00	1.00	2.00	2.00	1.00	2.00	2.00	2.00	2.00	1.00	2.00
C318.6	2.00	2.00	2.00	2.00	1.00	2.00	2.00	1.00	2.00	2.00	2.00	2.00	1.00	2.00
Level	2.00	2.00	2.00	2.00	1.00	2.00	2.00	1.00	2.00	2.00	2.00	2.00	1.00	2.00

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C318	2	2	2	2	1	2	2	1	2	2	2	2	1	2
Attainment	2.00	2.00	2.00	2.00	1.00	2.00	2.00	1.00	2.00	2.00	2.00	2.00	1.00	2.00

HOD/ECE



COURSE CODE / TITLE	HSR581 / Professional Communication	NBA Code	C319
SEMESTER / YEAR	VI sem/ III	Academic year	2021-2022
COORDINATOR	Mr. Srinam	Credits	1
CO Attainment Level 1 - (0% - 60%) 2 - (61%-90%) 3-(91% and Above)			

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UNI) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI) (%)	Target	Over all CO Attainment Level
C319.1	100.00	100.00	100.00	80	3
C319.2	100.00	100.00	100.00	80	3
C319.3	100.00	100.00	100.00	80	3
C319.4	100.00	100.00	100.00	80	3
C319.5	100.00	100.00	100.00	80	3
C319.6	100.00	100.00	100.00	80	3

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C319.1	-	-	-	-	-	1	-	2	3	3	-	3	1	-
C319.2	-	-	-	-	-	1	-	2	3	3	-	3	1	-
C319.3	-	-	-	-	-	1	-	2	3	3	-	3	1	-
C319.4	-	-	-	-	-	1	-	2	3	3	-	3	1	-
C319.5	-	-	-	-	-	1	-	2	3	3	-	3	1	-
C319.6	-	-	-	-	-	1	-	2	3	3	-	3	1	-
LEVEL	-	-	-	-	-	1	-	2	3	3	-	3	1	-

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C319.1	-	-	-	-	-	1	-	2	3	3	-	3	1	-
C319.2	-	-	-	-	-	1	-	2	3	3	-	3	1	-
C319.3	-	-	-	-	-	1	-	2	3	3	-	3	1	-
C319.4	-	-	-	-	-	1	-	2	3	3	-	3	1	-
C319.5	-	-	-	-	-	1	-	2	3	3	-	3	1	-
C319.6	-	-	-	-	-	1	-	2	3	3	-	3	1	-
Level	-	-	-	-	-	1	-	2	3	3	-	3	1	-

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C319	-	-	-	-	-	1	-	2	3	3	-	3	1	-
Attainment	-	-	-	-	-	1.00	-	2.00	3.00	3.00	-	3.00	1.00	-


HOD/ECE



Saranathan College of Engineering
Department of Electronics and Communication Engineering

COURSE CODE / TITLE	EC8701 ANTENNAS AND MICROWAVE ENGINEERING	NBA Code	C401
SEMESTER / YEAR	VII sem / IV Year	Academic year	2022-2023
COORDINATOR	Dr.S.A.Arunmozhi / Dr.K.Malaisamy	Credits	3

CO Attainment Level: 1 - (0% - 60%) 2- (61%-90%) 3-(91% and Above)

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UNI) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI) (%)	Indirect CO Attainment (Course End Survey)	Over all CO Attainment (0.8xDirect + 0.2xIndirect) (%)	Over all CO Attainment Level
C401.1	14.17	78	52.47	100	61.97	2
C401.2	29.17	78	58.47	100	66.77	2
C401.3	35	78	60.8	85.56	65.75	2
C401.4	35.83	78	61.13	84.72	65.85	2
C401.5	55	78	68.8	82.22	71.48	2
C401.6	99.17	78	86.47	100	89.17	2

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C401.1	3	3	3	2	3	2		1	2	2	3	3	3	3
C401.2	3	3	3	2	3	2		1	2	2	3	3	3	3
C401.3	3	3	3	2	3	2		1	2	2	3	3	3	3
C401.4	3	3	3	2	3	2		1	2	2	3	3	3	3
C401.5	3	3	3	2	3	2		1	2	2	3	3	3	3
C401.6	3	3	3	2	3	2		1	2	2	3	3	3	3
LEVEL	3	3	3	2	3	2		1	2	2	3	3	3	3

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C401.1	2.00	2.00	2.00	1.33	2.00	1.33		0.67	1.33	1.33	2.00	2.00	2.00	2.00
C401.2	2.00	2.00	2.00	1.33	2.00	1.33		0.67	1.33	1.33	2.00	2.00	2.00	2.00
C401.3	2.00	2.00	2.00	1.33	2.00	1.33		0.67	1.33	1.33	2.00	2.00	2.00	2.00
C401.4	2.00	2.00	2.00	1.33	2.00	1.33		0.67	1.33	1.33	2.00	2.00	2.00	2.00
C401.5	2.00	2.00	2.00	1.33	2.00	1.33		0.67	1.33	1.33	2.00	2.00	2.00	2.00
C401.6	2.00	2.00	2.00	1.33	2.00	1.33		0.67	1.33	1.33	2.00	2.00	2.00	2.00
Level	2.00	2.00	2.00	1.33	2.00	1.33		0.67	1.33	1.33	2.00	2.00	2.00	2.00

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C401	3	3	3	2	3	2		1	2	2	3	3	3	3
Attainment	2.00	2.00	2.00	1.33	2.00	1.33		0.67	1.33	1.33	2.00	2.00	2.00	2.00

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Saranathan College of Engineering
Department of Electronics and Communication Engineering

COURSE CODE / TITLE	EC8751 OPTICAL COMMUNICATION	NBA Code	C402
SEMESTER / YEAR	VII sem / IV Year	Academic year	2022-2023
COORDINATOR	Mr.M.Mahendran / Dr.C.Venila	Credits	3
CO Attainment Level: 1 - (0% - 60%) 2- (61%-90%) 3-(91% and Above)			

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UNI) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI) (%)	Indirect CO Attainment (Course End Survey)	Over all CO Attainment (0.8xDirect + 0.2xIndirect) (%)	Over all CO Attainment Level
C402.1	46.67	83	68.47	100	74.77	2
C402.2	51.67	83	70.47	100	76.37	2
C402.3	70	83	77.8	85.28	79.3	2
C402.4	40.83	83	66.13	85.83	70.07	2
C402.5	60.83	83	74.13	83.61	76.03	2
C402.6	0	83	49.8	100	59.84	1

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C402.1	2	2	1	1	1				1	1	1	1	2	2
C402.2	2	2	1	1	1	1	1		1	1	1	1	2	2
C402.3	2	2	1	1	1	1	1		1	1	1	1	2	2
C402.4	2	2	1	1	1	1	1		1	1	1	1	2	2
C402.5	2	2	1	1	1	1		1	1	1	1	1	2	2
C402.6	2	2	1	1	1	1	1	1	1	1	1	1	2	2
LEVEL	2	2	1	1	1	1	1	1	1	1	1	1	2	2

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C402.1	1.33	1.33	0.67	0.67	0.67				0.67	0.67	0.67	0.67	1.33	1.33
C402.2	1.33	1.33	0.67	0.67	0.67	0.67	0.67		0.67	0.67	0.67	0.67	1.33	1.33
C402.3	1.33	1.33	0.67	0.67	0.67	0.67	0.67		0.67	0.67	0.67	0.67	1.33	1.33
C402.4	1.33	1.33	0.67	0.67	0.67	0.67	0.67		0.67	0.67	0.67	0.67	1.33	1.33
C402.5	1.33	1.33	0.67	0.67	0.67	0.67		0.67	0.67	0.67	0.67	0.67	1.33	1.33
C402.6	0.67	0.67	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.67	0.67
Level	1.22	1.22	0.61	0.61	0.61	0.60	0.58	0.50	0.61	0.61	0.61	0.61	1.22	1.22

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C402	2	2	1	1	1	1	1	1	1	1	1	1	2	2
Attainment	1.22	1.22	0.61	0.61	0.61	0.60	0.58	0.50	0.61	0.61	0.61	0.61	1.22	1.22

H. Sridhar
HOD/ECE



Saranathan College of Engineering
Department of Electronics and Communication Engineering

COURSE CODE / TITLE	EC8791 EMBEDDED AND REAL TIME SYSTEMS	NRA Code	C403
SEMESTER / YEAR	VII sem / IV Year	Academic year	2022-2023
COORDINATOR	Mx J Eandhumathy / Mx B Divya	Credits	3
CO Attainment Level: 1- (075-80%) 2- (81%-90%) 3- (91% and Above)			

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UNI) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI) (%)	Indirect CO Attainment (Course End Survey)	Over all CO Attainment (0.8xDirect + 0.2xIndirect) (%)	Over all CO Attainment Level
C403.1	65.83	90	80.33	100	84.27	2
C403.2	37.5	90	69	100	75.2	2
C403.3	61.67	90	78.67	84.44	79.82	2
C403.4	73.33	90	83.33	81.39	82.94	2
C403.5	74.17	90	83.67	80.83	83.1	2
C403.6	68.33	90	81.33	100	85.07	2

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C403.1	2	2	1	1	1				1	1	1	1	2	2
C403.2	2	2	1	1	1				1	1	1	1	2	2
C403.3	2	2	1	1	1				1	1	1	1	2	2
C403.4	2	2	1	1	1				1	1	1	1	2	2
C403.5	2	2	1	1	1				1	1	1	1	2	2
C403.6	2	2	1	1	1				1	1	1	1	2	2
LEVEL	2	2	1	1	1				1	1	1	1	2	2

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C403.1	1.33	1.33	0.67	0.67	0.67				0.67	0.67	0.67	0.67	1.33	1.33
C403.2	1.33	1.33	0.67	0.67	0.67				0.67	0.67	0.67	0.67	1.33	1.33
C403.3	1.33	1.33	0.67	0.67	0.67				0.67	0.67	0.67	0.67	1.33	1.33
C403.4	1.33	1.33	0.67	0.67	0.67				0.67	0.67	0.67	0.67	1.33	1.33
C403.5	1.33	1.33	0.67	0.67	0.67				0.67	0.67	0.67	0.67	1.33	1.33
C403.6	1.33	1.33	0.67	0.67	0.67				0.67	0.67	0.67	0.67	1.33	1.33
Level	1.33	1.33	0.67	0.67	0.67				0.67	0.67	0.67	0.67	1.33	1.33

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C403	2	2	1	1	1				1	1	1	1	2	2
Attainment	1.33	1.33	0.67	0.67	0.67				0.67	0.67	0.67	0.67	1.33	1.33

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Saranathan College of Engineering
Department of Electronics and Communication Engineering

COURSE CODE / TITLE	EC8702 AD HOC AND WIRELESS SENSOR NETWORKS	NBA Code	C404
SEMESTER / YEAR	VII sem / IV Year	Academic year	2022-2023
COORDINATOR	Dr.C.Vennila / Ms.S.Kiruthiga	Credits	3
CO Attainment Level: 1 - (0% - 60%) 2 - (61% - 90%) 3 - (91% and Above)			

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UNI) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI) (%)	Indirect CO Attainment (Course End Survey)	Over all CO Attainment (0.8xDirect + 0.2xIndirect) (%)	Over all CO Attainment Level
C404.1	68.33	78	74.13	100	79.31	2
C404.2	70.83	78	75.13	100	80.11	2
C404.3	69.17	78	74.47	83.06	76.19	2
C404.4	81.67	78	79.47	83.06	80.19	2
C404.5	70.83	78	75.13	81.39	76.38	2
C404.6	0	78	46.8	100	57.44	1

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C404.1	2	2	1	1	1	1	1	1		1	1	1	2	
C404.2	2	2	1	1	1	1	1	1		1	1	1	2	
C404.3	2	2	1	1	1	1	1	1		1	1	1	2	
C404.4	2	2	1	1	1	1	1	1		1	1	1	2	
C404.5	2	2	1	1	1	1	1	1		1	1	1	2	
C404.6	2	2	1	1	1	1	1	1		1	1	1	2	
LEVEL	2	2	1	1	1	1	1	1		1	1	1	2	

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C404.1	1.33	1.33	0.67	0.67	0.67	0.67	0.67	0.67		0.67	0.67	0.67	1.33	
C404.2	1.33	1.33	0.67	0.67	0.67	0.67	0.67	0.67		0.67	0.67	0.67	1.33	
C404.3	1.33	1.33	0.67	0.67	0.67	0.67	0.67	0.67		0.67	0.67	0.67	1.33	
C404.4	1.33	1.33	0.67	0.67	0.67	0.67	0.67	0.67		0.67	0.67	0.67	1.33	
C404.5	1.33	1.33	0.67	0.67	0.67	0.67	0.67	0.67		0.67	0.67	0.67	1.33	
C404.6	0.67	0.67	0.33	0.33	0.33	0.33	0.33	0.33		0.33	0.33	0.33	0.67	
Level	1.22	1.22	0.61	0.61	0.61	0.61	0.61	0.61		0.61	0.61	0.61	1.22	

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C404	2	2	1	1	1	1	1	1		1	1	1	2	
Attainment	1.22	1.22	0.61	0.61	0.61	0.61	0.61	0.61		0.61	0.61	0.61	1.22	

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Saranathan College of Engineering
Department of Electronics and Communication Engineering

COURSE CODE / TITLE	OIC751 TRANSDUCER ENGINEERING	NBA Code	C406OE2
SEMESTER / YEAR	VII sem / IV Year	Academic year	2022-2023
COORDINATOR	Dr.M.Padmaa / Dr.M.Baritha Begum		
CO Attainment Level: 1 - (0% - 60%) 2 - (61%-90%) 3-(91% and Above)		Credits	3

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UNI) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI) (%)	Indirect CO Attainment (Course End Survey)	Over all CO Attainment (0.8xDirect + 0.2xIndirect) (%)	Over all CO Attainment Level
C406OE2.1	77.5	99	90.4	100	92.32	3
C406OE2.2	61.67	99	84.07	100	87.25	2
C406OE2.3	78.33	99	90.73	84.17	89.42	2
C406OE2.4	75	99	89.4	78.89	87.3	2
C406OE2.5	54.17	99	81.07	87.5	82.35	2
C406OE2.6	29.17	99	71.07	100	76.85	2

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C406OE2.1	2	2	2	1	1						3	2	1	1
C406OE2.2	2	2	2	1	1						3	2	1	1
C406OE2.3	2	2	2	1	1						3	2	1	1
C406OE2.4	2	2	2	1	1						3	2	1	1
C406OE2.5	2	2	2	1	1						3	2	1	1
C406OE2.6	2	2	2	1	1						3	2	1	1
LEVEL	2	2	2	1	1						3	2	1	1

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C406OE2.1	2.00	2.00	2.00	1.00	1.00						3.00	2.00	1.00	1.00
C406OE2.2	1.33	1.33	1.33	0.67	0.67						2.00	1.33	0.67	0.67
C406OE2.3	1.33	1.33	1.33	0.67	0.67						2.00	1.33	0.67	0.67
C406OE2.4	1.33	1.33	1.33	0.67	0.67						2.00	1.33	0.67	0.67
C406OE2.5	1.33	1.33	1.33	0.67	0.67						2.00	1.33	0.67	0.67
C406OE2.6	1.33	1.33	1.33	0.67	0.67						2.00	1.33	0.67	0.67
Level	1.44	1.44	1.44	0.72	0.72						2.17	1.44	0.72	0.72

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C406OE2	2	2	2	1	1						3	2	1	1
Attainment	1.44	1.44	1.44	0.72	0.72						2.17	1.44	0.72	0.72

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Saranathan College of Engineering
Department of Electronics and Communication Engineering

COURSE CODE /	EC8711 EMBEDDED LAB	NBA Code	C407
SEMESTER / YEAR	VII sem/ IV	Academic year	2022-2023
COORDINATOR	B.DIVYA, J.EINDHUMATHY	Credits	2
Level 1 (0-69%), Level 2 (70-79%) and Level 3 (above 80%)			

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT)	CO-Attainment University (CO-UNI)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI)	Target	CO Attainment Level
C407.1	100.00	100.00	100.00	80	3
C407.2	100.00	100.00	100.00	80	3
C407.3	100.00	100.00	100.00	80	3
C407.4	100.00	100.00	100.00	80	3
C407.5	100.00	100.00	100.00	80	3
C407.6	100.00	100.00	100.00	80	3

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C407.1	2	1	1	1	-	-	-	-	-	-	-	-	2	1
C407.2	2	1	1	1	-	-	-	-	-	-	-	-	2	1
C407.3	2	1	1	1	-	-	-	-	-	-	-	-	2	1
C407.4	2	1	1	1	-	-	-	-	-	-	-	-	2	1
C407.5	2	1	1	1	-	-	-	-	-	-	-	-	2	1
C407.6	2	1	1	1	-	-	-	-	-	-	-	-	2	1
LEVEL	2	1	1	1	-	-	-	-	-	-	-	-	2	1

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C407.1	2.00	1.00	1.00	1.00	-	-	-	-	-	-	-	-	2.00	1.00
C407.2	2.00	1.00	1.00	1.00	-	-	-	-	-	-	-	-	2.00	1.00
C407.3	2.00	1.00	1.00	1.00	-	-	-	-	-	-	-	-	2.00	1.00
C407.4	2.00	1.00	1.00	1.00	-	-	-	-	-	-	-	-	2.00	1.00
C407.5	2.00	1.00	1.00	1.00	-	-	-	-	-	-	-	-	2.00	1.00
C407.6	2.00	1.00	1.00	1.00	-	-	-	-	-	-	-	-	2.00	1.00
Level	2.00	1.00	1.00	1.00	-	-	-	-	-	-	-	-	2.00	1.00

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C407	2	1	1	1	-	-	-	-	-	-	-	-	2	1
Attainment	2.00	1.00	1.00	1.00	-	-	-	-	-	-	-	-	2.00	1.00

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Saranathan College of Engineering
Department of Electronics and Communication Engineering

COURSE CODE / TITLE	EC8761 ADVANCED COMMUNICATION LAB	NBA Code	C408
SEMESTER / YEAR	VII / IV	Academic year	2022-2023
COORDINATOR	DR.S.A.ARUNMOZHI / G.SIVAKANNU	Credits	2
Level 1 (0-69%), Level 2 (70-79%) and Level 3 (above 80%)			

CO	CO-Attainment Internal (CO-INT)	CO-Attainment University (CO-UNI)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI)	Target	CO Attainment at Level
C408.1	100.00	99.16	99.50	80	3
C408.2	100.00	99.16	99.50	80	3
C408.3	100.00	99.16	99.50	80	3
C408.4	100.00	99.16	99.50	80	3
C408.5	100.00	99.16	99.50	80	3
C408.6	100.00	99.16	99.50	80	3

C408.4	100.00	99.16			80																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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C408.6	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
LEVEL	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2

PO Attainment level															
Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	
C408.1	2.00	2.00	2.00	2.00	2.00	2.00	-	-	-	-	1.00	2.00	2.00	2.00	
C408.2	2.00	2.00	2.00	2.00	2.00	2.00	-	-	-	-	1.00	2.00	2.00	2.00	
C408.3	2.00	2.00	2.00	2.00	2.00	2.00	-	-	-	-	1.00	2.00	2.00	2.00	
C408.4	2.00	2.00	2.00	2.00	2.00	2.00	-	-	-	-	1.00	2.00	2.00	2.00	
C408.5	2.00	2.00	2.00	2.00	2.00	2.00	-	-	-	-	1.00	2.00	2.00	2.00	
C408.6	2.00	2.00	2.00	2.00	2.00	2.00	-	-	-	-	1.00	2.00	2.00	2.00	
Level	2.00	2.00	2.00	2.00	2.00	2.00	-	-	-	-	1.00	2.00	2.00	2.00	

C408.5	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
C408.6	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Level	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00

Attainment of POs & PSOs level														
Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C408	2	2	2	2	2	2	-	-	-	-	1	2	2	2
Attainment	2.00	2.00	2.00	2.00	2.00	2.00	-	-	-	-	1.00	2.00	2.00	2.00

H. S. S.

HOD/ECE

H. S. S. S.
HOD/EC



Saranathan College of Engineering
Department of Electronics and Communication Engineering

COURSE CODE / TITLE	GE076 PROFESSIONAL ETHICS IN ENGINEERING	NBA Code	C409PE4
SEMESTER / YEAR	VII sem / IV Year	Academic year	2022-2023
COORDINATOR	Dr.S.Rajeswari / Dr.S.A.Arunkumar	Credits	1

CO Attainment Level: 1 - (0% - 60%) 2 - (61% - 90%) 3 - (91% and Above)

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UNI) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI) (%)	Indirect CO Attainment (Course End Survey)	Over all CO Attainment (0.8xDirect + 0.2xIndirect) (%)	Over all CO Attainment Level
C409PE.1	57.5	0	23	100	38.4	1
C409PE.2	67.5	0	27	100	41.6	1
C409PE.3	19.17	0	7.67	83.61	22.86	1
C409PE.4	58.33	0	23.33	83.61	35.39	1
C409PE.5	40.83	0	16.33	83.06	29.68	1
C409PE.6	0	0	0	100	20	1

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C409PE.1	2	2	1	1	1	2	2	2	1	1	1	1	2	2
C409PE.2	2	2	1	1	1	2	2	2	1	1	1	1	2	2
C409PE.3	2	2	1	1	1	2	2	2	1	1	1	1	2	2
C409PE.4	2	2	1	1	1	2	2	2	1	1	1	1	2	2
C409PE.5	2	2	1	1	1	2	2	2	1	1	1	1	2	2
C409PE.6	2	2	2	1	1	2	2	2	1	1	1	1	2	2
LEVEL	2	2	1.166666667	1	1	2	2	2	1	1	1	1	2	2

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C409PE.1	0.67	0.67	0.33	0.33	0.33	0.67	0.67	0.67	0.33	0.33	0.33	0.33	0.67	0.67
C409PE.2	0.67	0.67	0.33	0.33	0.33	0.67	0.67	0.67	0.33	0.33	0.33	0.33	0.67	0.67
C409PE.3	0.67	0.67	0.33	0.33	0.33	0.67	0.67	0.67	0.33	0.33	0.33	0.33	0.67	0.67
C409PE.4	0.67	0.67	0.33	0.33	0.33	0.67	0.67	0.67	0.33	0.33	0.33	0.33	0.67	0.67
C409PE.5	0.67	0.67	0.33	0.33	0.33	0.67	0.67	0.67	0.33	0.33	0.33	0.33	0.67	0.67
C409PE.6	0.67	0.67	0.67	0.33	0.33	0.67	0.67	0.67	0.33	0.33	0.33	0.33	0.67	0.67
Level	0.67	0.67	0.39	0.33	0.33	0.67	0.67	0.67	0.33	0.33	0.33	0.33	0.67	0.67

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C409PE4	2	2	1.166666667	1	1	2	2	2	1	1	1	1	2	2
Attainment	0.67	0.67	0.39	0.33	0.33	0.67	0.67	0.67	0.33	0.33	0.33	0.33	0.67	0.67

U. S. R.
HOD/EC

Department of B.E. Electronics and Communication Engineering

COURSE CODE / TITLE	EC8094 SATELLITE COMMUNICATION	NBA Code	C410PE5
SEMESTER / YEAR	VIII sem/ IV	Academic year	2022-2023
COORDINATOR	P.SIVAGAMASUNDHARI,	Credits	3
CO Attainment Level: 1 - (0% - 60%) 2 - (61%-90%) 3-(91% and Above)			

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UNI)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI) (%)	Target	Over all CO Attainment Level
C410PE5.1	97.48	74.79	83.87	65	2
C410PE5.2	94.12	74.79	82.52	65	2
C410PE5.3	100.00	74.79	84.87	65	2
C410PE5.4	100.00	74.79	84.87	65	2
C410PE5.5	100.00	74.79	84.87	65	2
C410PE5.6	100.00	74.79	84.87	65	2

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C410PE5.1	2	2	1	1	1					1	1	1	2	2
C410PE5.2	2	2	1	1	1					1	1	1	2	2
C410PE5.3	2	2	1	1	1					1	1	1	2	2
C410PE5.4	2	2	1	1	1					1	1	1	2	2
C410PE5.5	2	2	1	1	1					1	1	1	2	2
C410PE5.6	2	2	1	1	1					1	1	1	2	2
C410PE5	2	2	1	1	1					1	1	1	2	2

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C410PE5.1	1.33	1.33	0.67	0.67	0.67					0.67	0.67	0.67	1.33	1.33
C410PE5.2	1.33	1.33	0.67	0.67	0.67					0.67	0.67	0.67	1.33	1.33
C410PE5.3	1.33	1.33	0.67	0.67	0.67					0.67	0.67	0.67	1.33	1.33
C410PE5.4	1.33	1.33	0.67	0.67	0.67					0.67	0.67	0.67	1.33	1.33
C410PE5.5	1.33	1.33	0.67	0.67	0.67					0.67	0.67	0.67	1.33	1.33
C410PE5.6	1.33	1.33	0.67	0.67	0.67					0.67	0.67	0.67	1.33	1.33
Level	1.33	1.33	0.67	0.67	0.67					0.67	0.67	0.67	1.33	1.33

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C410PE5	2	2	1	1	1					1	1	1	2	2
Attainment	1.33	1.33	0.67	0.67	0.67					0.67	0.67	0.67	1.33	1.33

HOD/ECE



Saranathan College of Engineering
Department of Electronics and Communication Engineering

COURSE CODE / TITLE	EC8811 PROJECT WORK	NBA Code	C411
SEMESTER / YEAR	VIII sem/ IV	Academic year	2022-2023
COORDINATOR	DR.M.PADMAA DR.C.VENNILA	Credits	12
CO Attainment Level: 1 - (0% - 60%) 2- (61%-90%) 3-(91% and Above)			

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UNI) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI) (%)	Target	Over all CO Attainment Level
C411.1	100.00	100.00	100.00	80	3
C411.2	100.00	100.00	100.00	80	3
C411.3	100.00	100.00	100.00	80	3
C411.4	100.00	100.00	100.00	80	3
C411.5	100.00	100.00	100.00	80	3
C411.6	100.00	100.00	100.00	80	3

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C411.1	3	3	2	3	3	2	1	1	3	3	2	2	3	3
C411.2	3	3	2	3	3	2	1	1	3	3	2	2	3	3
C411.3	3	3	2	3	3	2	1	1	3	3	2	2	3	3
C411.4	3	3	2	3	3	2	1	1	3	3	2	2	3	3
C411.5	3	3	2	3	3	2	1	1	3	3	2	2	3	3
C411.6	3	3	2	3	3	2	1	1	3	3	2	2	3	3
LEVEL	3	3	2.00	3.00	3.00	2.00	1.00	1.00	3.00	3.00	2.00	2.00	3	3

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C411.1	3.00	3.00	2.00	3.00	3.00	2.00	1.00	1.00	3.00	3.00	2.00	2.00	3.00	3.00
C411.2	3.00	3.00	2.00	3.00	3.00	2.00	1.00	1.00	3.00	3.00	2.00	2.00	3.00	3.00
C411.3	3.00	3.00	2.00	3.00	3.00	2.00	1.00	1.00	3.00	3.00	2.00	2.00	3.00	3.00
C411.4	3.00	3.00	2.00	3.00	3.00	2.00	1.00	1.00	3.00	3.00	2.00	2.00	3.00	3.00
C411.5	3.00	3.00	2.00	3.00	3.00	2.00	1.00	1.00	3.00	3.00	2.00	2.00	3.00	3.00
C411.6	3.00	3.00	2.00	3.00	3.00	2.00	1.00	1.00	3.00	3.00	2.00	2.00	3.00	3.00
Level	3.00	3.00	2.00	3.00	3.00	2.00	1.00	1.00	3.00	3.00	2.00	2.00	3.00	3.00

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C411	3	3	2.00	3.00	3.00	2.00	1.00	1.00	3.00	3.00	2.00	2.00	3	3
Attainment	3.00	3.00	2.00	3.00	3.00	2.00	1.00	1.00	3.00	3.00	2.00	2.00	3.00	3.00

H. S. S.
HOD/ECE



SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF ECE
COURSE OUTCOMES 2021-2023 BATCH PG

S.NO	COURSE NAME	COURSE CODE	Attainment (%)	CO attainment level
1	Linear Algebra, Probability and Queueing Theory	MA4156	100	3
			100	3
			100	3
			100	3
			100	3
			100	3
2	Research Methodology and IPR	RM4151	100	3
			100	3
			100	3
			100	3
			100	3
			100	3
3	Statistical Signal Processing	DS4152	100	3
			100	3
			100	3
			100	3
			100	3
			100	3
4	Modern Digital Communication Systems	EL4151	100	3
			100	3
			100	3
			100	3
			100	3
			100	3
5	Advanced Wireless Communication	CU4151	100	3
			100	3
			100	3
			100	3
			100	3
			100	3
6	Radiating Systems	CU4152	85	2
			85	2
			85	2
			85	2
			85	2

			85	2
7	Digital Communication Systems Laboratory	EL4161	100	3
			100	3
			100	3
			100	3
			100	3
			100	3
8	Advanced Digital Signal Processing Laboratory	CU4161	100	3
			100	3
			100	3
			100	3
			100	3
			100	3
9	RF System Design	CU4251	85	2
			85	2
			85	2
			85	2
			85	2
			85	2
10	Microwave Integrated Circuits	CU4201	100	3
			100	3
			100	3
			100	3
			100	3
			100	3
11	Advanced Wireless Networks	CU4202	85	2
			85	2
			85	2
			85	2
			85	2
			85	2
12	Machine Learning	CP4252	100	3
			100	3
			100	3
			100	3
			100	3
			100	3
13	Advanced Satellite Communication and Navigation Systems	CU4071	100	3
			100	3
			100	3
			100	3
			100	3

			100	3
14	Multimedia Compression Techniques	MU4091	100	3
			100	3
			100	3
			100	3
			100	3
			100	3
15	Wireless Communication Laboratory	CU4211	100	3
			100	3
			100	3
			100	3
			100	3
			100	3
16	Term Paper and seminar	CU4212	100	3
			100	3
			100	3
			100	3
			100	3
			100	3
17	Optical Communication and Networking	CU4301	100	3
			100	3
			100	3
			100	3
			100	3
			100	3
18	Image Processing and Video Analytics	CU4073	100	3
			100	3
			100	3
			100	3
			100	3
			100	3
19	Software Defined Radios	CU4005	100	3
			100	3
			100	3
			100	3
			100	3
			100	3
20	IoT for Smart Systems	ET4251	85	2
			85	2
			85	2
			85	2
			85	2

			85	2
21	Project Work I	CU4311	100	3
			100	3
			100	3
			100	3
			100	3
			100	3
22	Project Work II	CU4411	100	3
			100	3
			100	3
			100	3
			100	3
			100	3



HOD/ECE

PROGRAM OUTCOMES AND PROGRAM SPECIFIC OUTCOMES (PG 2021-2023 Batch) TARGET

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C101	3.00	3.00	2.00	1.00	1.00	-	-	-	-	-	-	1.00	2.00	-
C102	2.00	2.00	2.00	1.00	1.00	1.00	-	-	-	1.00	1.00	1.00	2.00	2.00
C103	3.00	3.00	3.00	3.00	3.00	3.00	2.00	1.00	1.00	1.00	1.00	2.00	2.00	2.00
C104	3.00	2.00	1.00	1.00	2.00	1.00	-	-	2.00	-	-	2.00	2.00	2.00
C105	2.00	3.00	3.00	2.00	2.00	1.00	1.00	2.00	2.00	1.00	2.00	2.00	2.00	2.00
C106	3.00	3.00	2.00	2.00	2.00	2.00	2.00	1.00	2.00	-	1.00	2.00	2.00	2.00
C107	3.00	3.00	1.00	1.00	2.00	1.00	1.00	-	2.00	-	1.00	3.00	2.00	2.00
C108	2.00	2.00	2.00	2.00	2.00	-	-	-	-	1.00	1.00	1.17	2.00	2.00
C109	3.00	2.00	2.00	3.00	2.00	2.00	1.00	1.00	2.00	1.00	1.00	3.00	2.00	2.00
C110	2.00	2.00	3.00	3.00	2.00	3.00	-	1.00	2.00	1.00	1.00	3.00	2.00	2.00
C111	3.00	3.00	2.00	2.00	2.00	2.00	2.00	1.00	2.00	-	1.00	2.00	2.00	2.00
C112	3.00	3.00	2.00	2.00	2.00	2.00	2.00	1.00	2.00	-	1.00	2.00	2.00	2.00
C113PE1	3.00	3.00	1.00	1.00	2.00	1.00	-	-	2.00	1.00	-	2.00	2.00	2.00
C114PE2	3.00	3.00	2.00	2.00	3.00	2.00	2.00	1.00	2.00	2.00	1.00	3.00	2.00	2.00
C115	3.00	3.00	1.00	1.00	2.00	1.00	1.00	-	2.00	-	1.00	3.00	2.00	2.00
C116	3.00	3.00	3.00	2.00	1.00	2.00	1.00	1.00	2.00	2.00	1.00	3.00	2.00	2.00
C201	3.00	2.00	2.00	1.00	2.00	1.00	1.00	-	1.00	-	-	2.00	2.00	2.00
C202PE3	2.00	2.00	3.00	3.00	3.00	2.00	2.00	1.00	2.00	2.00	1.00	3.00	2.00	2.00
C203PE4	3.00	3.00	3.00	3.00	3.00	3.00	2.00	2.00	2.00	2.00	1.00	3.00	2.00	2.00
C204OE1	3.00	3.00	1.00	1.00	2.00	1.00	-	-	2.00	1.00	-	2.00	2.00	2.00
C205	3	3	3	3	3	3	3	2	3	2	3	2	3	3
C206	3	3	3	3	3	3	3	2	3	2	3	2	3	3
AVERAGE	2.77	2.68	2.14	1.95	2.14	1.85	1.73	1.31	2.00	1.43	1.29	2.23	2.09	2.10


HOD/ECE

PROGRAM OUTCOMES AND PROGRAM SPECIFIC OUTCOMES (PG 2021-2023 Batch) ATTAINED

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C101	3.00	3.00	2.00	1.00	1.00	-	-	-	-	-	-	1.00	2.00	-
C102	2.00	2.00	2.00	1.00	1.00	1.00	-	-	-	1.00	1.00	1.00	2.00	2.00
C103	3.00	3.00	3.00	3.00	3.00	3.00	2.00	1.00	1.00	1.00	1.00	2.00	2.00	2.00
C104	3.00	2.00	1.00	1.00	2.00	1.00	-	-	2.00	-	-	2.00	2.00	2.00
C105	2.00	3.00	3.00	2.00	2.00	1.00	1.00	2.00	2.00	1.00	2.00	2.00	2.00	2.00
C106	2.00	2.00	1.33	1.33	1.33	1.33	1.33	0.67	1.33	-	0.67	1.33	1.33	1.33
C107	3.00	3.00	1.00	1.00	2.00	1.00	1.00	-	2.00	-	1.00	3.00	2.00	2.00
C108	2.00	2.00	2.00	2.00	2.00	-	-	-	-	1.00	1.00	1.17	2.00	2.00
C109	2.00	1.33	1.33	2.00	1.33	1.33	0.67	0.67	1.33	0.67	0.67	2.00	1.33	1.33
C110	2.00	2.00	3.00	3.00	2.00	3.00	-	1.00	2.00	1.00	1.00	3.00	2.00	2.00
C111	2.00	2.00	1.33	1.33	1.33	1.33	1.33	0.67	1.33	-	0.67	1.33	1.33	1.33
C112	3.00	3.00	2.00	2.00	2.00	2.00	2.00	1.00	2.00	-	1.00	2.00	2.00	2.00
C113PE1	3.00	3.00	1.00	1.00	2.00	1.00	-	-	2.00	1.00	-	2.00	2.00	2.00
C114PE2	3.00	3.00	2.00	2.00	3.00	2.00	2.00	1.00	2.00	2.00	1.00	3.00	2.00	2.00
C115	3.00	3.00	1.00	1.00	2.00	1.00	1.00	-	2.00	-	1.00	3.00	2.00	2.00
C116	3.00	3.00	3.00	2.00	1.00	2.00	1.00	1.00	2.00	2.00	1.00	3.00	2.00	2.00
C201	3.00	2.00	2.00	1.00	2.00	1.00	1.00	-	1.00	-	-	2.00	2.00	2.00
C202PE3	2.00	2.00	3.00	3.00	3.00	2.00	2.00	1.00	2.00	2.00	1.00	3.00	2.00	2.00
C203PE4	3.00	3.00	3.00	3.00	3.00	3.00	2.00	2.00	2.00	2.00	1.00	3.00	2.00	2.00
C204OE1	2.00	2.00	0.67	0.67	1.33	0.67	-	-	1.33	0.67	-	1.33	1.33	1.33
C205	3	3	3	3	3	3	3	2	3	2	3	2	3	3
C206	3	3	3	3	3	3	3	2	3	2	3	2	3	3
AVERAGE	2.59	2.52	2.03	1.83	2.02	1.73	1.62	1.23	1.86	1.38	1.24	2.10	1.97	1.97

K. Sridhar
HOD/ECE

SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF ECE

COURSE CODE / TITLE	CU4301-Optical Communication and Networking	NBA Code	C201
CLASS / YEAR	MECS / II	BATCH	2021-2023
COORDINATOR	mnalaisyee-eee	Credits	3
CO Attainment Level: 1 - (0% - 60%) 2- (61%-90%) 3-(91% and Above)			

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UNI) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI) (%)	Over all CO Attainment Level
C201.1	100.00	100.00	100.00	3
C201.2	100.00	100.00	100.00	3
C201.3	100.00	100.00	100.00	3
C201.4	100.00	100.00	100.00	3
C201.5	100.00	100.00	100.00	3
C201.6	100.00	100.00	100.00	3

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C201.1	3	2	2	1	2	1	1	-	1	-	-	2	2	2
C201.2	3	2	2	1	2	1	1	-	1	-	-	2	2	2
C201.3	3	2	2	1	2	1	1	-	1	-	-	2	2	2
C201.4	3	2	2	1	2	1	1	-	1	-	-	2	2	2
C201.5	3	2	2	1	2	1	1	-	1	-	-	2	2	2
C201.6	3	2	2	1	2	1	1	-	1	-	-	2	2	2
LEVEL	3	2	2	1	2	1	1	-	1	-	-	2	2	2

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C201.1	3.00	2.00	2.00	1.00	2.00	1.00	1.00	-	1.00	-	-	2.00	2.00	2.00
C201.2	3.00	2.00	2.00	1.00	2.00	1.00	1.00	-	1.00	-	-	2.00	2.00	2.00
C201.3	3.00	2.00	2.00	1.00	2.00	1.00	1.00	-	1.00	-	-	2.00	2.00	2.00
C201.4	3.00	2.00	2.00	1.00	2.00	1.00	1.00	-	1.00	-	-	2.00	2.00	2.00
C201.5	3.00	2.00	2.00	1.00	2.00	1.00	1.00	-	1.00	-	-	2.00	2.00	2.00
C201.6	3.00	2.00	2.00	1.00	2.00	1.00	1.00	-	1.00	-	-	2.00	2.00	2.00
Level	3.00	2.00	2.00	1.00	2.00	1.00	1.00	-	1.00	-	-	2.00	2.00	2.00

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C201	3	2	2	1	2	1	1	-	1	-	-	2	2	2
Attainment	3.00	2.00	2.00	1.00	2.00	1.00	1.00	-	1.00	-	-	2.00	2.00	2.00

V. S. S. S.
HOD/ECE

**SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF ECE**

COURSE CODE / TITLE	CU4005-Software Defined Radios	NBA Code	C202PE3
CLASS / YEAR	MECS / II	BATCH	2021-2023
COORDINATOR	mohini-ecce	Credits	3
CO Attainment Level: 1 - (0% - 60%) ; 2 - (61% - 90%) ; 3 - (91% and Above)			

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UNI) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI) (%)	Over all CO Attainment Level
C202PE3.1	100.00	100.00	100.00	3
C202PE3.2	100.00	100.00	100.00	3
C202PE3.3	100.00	100.00	100.00	3
C202PE3.4	100.00	100.00	100.00	3
C202PE3.5	100.00	100.00	100.00	3
C202PE3.6	100.00	100.00	100.00	3

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C202PE3.1	2	2	3	3	3	2	2	1	2	2	1	3	2	2
C202PE3.2	2	2	3	3	3	2	2	1	2	2	1	3	2	2
C202PE3.3	2	2	3	3	3	2	2	1	2	2	1	3	2	2
C202PE3.4	2	2	3	3	3	2	2	1	2	2	1	3	2	2
C202PE3.5	2	2	3	3	3	2	2	1	2	2	1	3	2	2
C202PE3.6	2	2	3	3	3	2	2	1	2	2	1	3	2	2
LEVEL	2	2	3	3	3	2	2	1	2	2	1	3	2	2

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C202PE3.1	2.00	2.00	3.00	3.00	3.00	2.00	2.00	1.00	2.00	2.00	1.00	3.00	2.00	2.00
C202PE3.2	2.00	2.00	3.00	3.00	3.00	2.00	2.00	1.00	2.00	2.00	1.00	3.00	2.00	2.00
C202PE3.3	2.00	2.00	3.00	3.00	3.00	2.00	2.00	1.00	2.00	2.00	1.00	3.00	2.00	2.00
C202PE3.4	2.00	2.00	3.00	3.00	3.00	2.00	2.00	1.00	2.00	2.00	1.00	3.00	2.00	2.00
C202PE3.5	2.00	2.00	3.00	3.00	3.00	2.00	2.00	1.00	2.00	2.00	1.00	3.00	2.00	2.00
C202PE3.6	2.00	2.00	3.00	3.00	3.00	2.00	2.00	1.00	2.00	2.00	1.00	3.00	2.00	2.00
Level	2.00	2.00	3.00	3.00	3.00	2.00	2.00	1.00	2.00	2.00	1.00	3.00	2.00	2.00

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C202PE3	2	2	3	3	3	2	2	1	2	2	1	3	2	2
Attainment	2.00	2.00	3.00	3.00	3.00	2.00	2.00	1.00	2.00	2.00	1.00	3.00	2.00	2.00

[Signature]
HOD/ECE

SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF ECE

COURSE CODE / TITLE	CU4073 -Image Processing and Video Analytics	NBA Code	C203PE4
CLASS / YEAR	MECS / II	BATCH	2021-2023
COORDINATOR	moham-ece	Credits	3
CO Attainment Level: 1 - (0% - 60%) 2- (61%-90%) 3-(91% and Above)			

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UNI) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI) (%)	Over all CO Attainment Level
C203PE4.1	100.00	100.00	100.00	3
C203PE4.2	100.00	100.00	100.00	3
C203PE4.3	100.00	100.00	100.00	3
C203PE4.4	100.00	100.00	100.00	3
C203PE4.5	100.00	100.00	100.00	3
C203PE4.6	100.00	100.00	100.00	3

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C203PE4.1	3	3	3	3	3	3	2	2	2	2	1	3	2	2
C203PE4.2	3	3	3	3	3	3	2	2	2	2	1	3	2	2
C203PE4.3	3	3	3	3	3	3	2	2	2	2	1	3	2	2
C203PE4.4	3	3	3	3	3	3	2	2	2	2	1	3	2	2
C203PE4.5	3	3	3	3	3	3	2	2	2	2	1	3	2	2
C203PE4.6	3	3	3	3	3	3	2	2	2	2	1	3	2	2
LEVEL	3	3	3	3	3	3	2	2	2	2	1	3	2	2

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C203PE4.1	3.00	3.00	3.00	3.00	3.00	3.00	2.00	2.00	2.00	2.00	1.00	3.00	2.00	2.00
C203PE4.2	3.00	3.00	3.00	3.00	3.00	3.00	2.00	2.00	2.00	2.00	1.00	3.00	2.00	2.00
C203PE4.3	3.00	3.00	3.00	3.00	3.00	3.00	2.00	2.00	2.00	2.00	1.00	3.00	2.00	2.00
C203PE4.4	3.00	3.00	3.00	3.00	3.00	3.00	2.00	2.00	2.00	2.00	1.00	3.00	2.00	2.00
C203PE4.5	3.00	3.00	3.00	3.00	3.00	3.00	2.00	2.00	2.00	2.00	1.00	3.00	2.00	2.00
C203PE4.6	3.00	3.00	3.00	3.00	3.00	3.00	2.00	2.00	2.00	2.00	1.00	3.00	2.00	2.00
Level	3.00	3.00	3.00	3.00	3.00	3.00	2.00	2.00	2.00	2.00	1.00	3.00	2.00	2.00

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C203PE4	3	3	3	3	3	3	2	2	2	2	1	3	2	2
Attainment	3.00	3.00	3.00	3.00	3.00	3.00	2.00	2.00	2.00	2.00	1.00	3.00	2.00	2.00

HOD/ECE

**SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF ECE**

COURSE CODE / TITLE	ET4251-IoT for Smart Systems	NBA Code	C204OE1
CLASS / YEAR	MECS / II	BATCH	2021-2023
COORDINATOR	sivagamasundhari-ecce	Credits	3
CO Attainment Level: 1 - (0% - 60%) 2- (61%-90%) 3-(91% and Above)			

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UNI) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI) (%)	Over all CO Attainment Level
C204OE1.1	100.00	75.00	85.00	2
C204OE1.2	100.00	75.00	85.00	2
C204OE1.3	100.00	75.00	85.00	2
C204OE1.4	100.00	75.00	85.00	2
C204OE1.5	100.00	75.00	85.00	2
C204OE1.6	100.00	75.00	85.00	2

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C204OE1.1	3	3	1	1	2	1	-	-	2	1	-	2	2	2
C204OE1.2	3	3	1	1	2	1	-	-	2	1	-	2	2	2
C204OE1.3	3	3	1	1	2	1	-	-	2	1	-	2	2	2
C204OE1.4	3	3	1	1	2	1	-	-	2	1	-	2	2	2
C204OE1.5	3	3	1	1	2	1	-	-	2	1	-	2	2	2
C204OE1.6	3	3	1	1	2	1	-	-	2	1	-	2	2	2
LEVEL	3	3	1	1	2	1	-	-	2	1	-	2	2	2

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C204OE1.1	2.00	2.00	0.67	0.67	1.33	0.67	-	-	1.33	0.67	-	1.33	1.33	1.33
C204OE1.2	2.00	2.00	0.67	0.67	1.33	0.67	-	-	1.33	0.67	-	1.33	1.33	1.33
C204OE1.3	2.00	2.00	0.67	0.67	1.33	0.67	-	-	1.33	0.67	-	1.33	1.33	1.33
C204OE1.4	2.00	2.00	0.67	0.67	1.33	0.67	-	-	1.33	0.67	-	1.33	1.33	1.33
C204OE1.5	2.00	2.00	0.67	0.67	1.33	0.67	-	-	1.33	0.67	-	1.33	1.33	1.33
C204OE1.6	2.00	2.00	0.67	0.67	1.33	0.67	-	-	1.33	0.67	-	1.33	1.33	1.33
Level	2.00	2.00	0.67	0.67	1.33	0.67	-	-	1.33	0.67	-	1.33	1.33	1.33

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C204OE1	3	3	1	1	2	1	-	-	2	1	-	2	2	2
Attainment	2.00	2.00	0.67	0.67	1.33	0.67	-	-	1.33	0.67	-	1.33	1.33	1.33

H. S. S. S.
HOD/ECE

SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF ECE

COURSE CODE / TITLE	CU4311-PROJECT WORK I	NBA Code	C205
CLASS / YEAR	MECS / II	BATCH	2021-2023
COORDINATOR	santhini	Credits	6
CO Attainment Level: 1 - (0% - 60%) 2 - (61%-90%) 3-(91% and Above)			

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UNI) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI) (%)	Over all CO Attainment Level
C205.1	100.00	100.00	100.00	3
C205.2	100.00	100.00	100.00	3
C205.3	100.00	100.00	100.00	3
C205.4	100.00	100.00	100.00	3
C205.5	100.00	100.00	100.00	3
C205.6	100.00	100.00	100.00	3

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C205.1	3	3	3	3	3	3	3	2	3	2	3	2	3	3
C205.2	3	3	3	3	3	3	3	2	3	2	3	2	3	3
C205.3	3	3	3	3	3	3	3	2	3	2	3	2	3	3
C205.4	3	3	3	3	3	3	3	2	3	2	3	2	3	3
C205.5	3	3	3	3	3	3	3	2	3	2	3	2	3	3
C205.6	3	3	3	3	3	3	3	2	3	2	3	2	3	3
LEVEL	3	3	3	3	3	3	3	2	3	2	3	2	3	3

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C205.1	3.00	3.00	3.00	3.00	3.00	3.00	3.00	2.00	3.00	2.00	3.00	2.00	3.00	3.00
C205.2	3.00	3.00	3.00	3.00	3.00	3.00	3.00	2.00	3.00	2.00	3.00	2.00	3.00	3.00
C205.3	3.00	3.00	3.00	3.00	3.00	3.00	3.00	2.00	3.00	2.00	3.00	2.00	3.00	3.00
C205.4	3.00	3.00	3.00	3.00	3.00	3.00	3.00	2.00	3.00	2.00	3.00	2.00	3.00	3.00
C205.5	3.00	3.00	3.00	3.00	3.00	3.00	3.00	2.00	3.00	2.00	3.00	2.00	3.00	3.00
C205.6	3.00	3.00	3.00	3.00	3.00	3.00	3.00	2.00	3.00	2.00	3.00	2.00	3.00	3.00
Level	3.00	3.00	3.00	3.00	3.00	3.00	3.00	2.00	3.00	2.00	3.00	2.00	3.00	3.00

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C205	3	3	3	3	3	3	3	2	3	2	3	2	3	3
Attainment	3.00	3.00	3.00	3.00	3.00	3.00	3.00	2.00	3.00	2.00	3.00	2.00	3.00	3.00

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HOD/ECE

SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF ECE

COURSE CODE / TITLE	CU4411-Project Work - II	NBA Code	C206
CLASS / YEAR	MECS / II	BATCH	2021-2023
COORDINATOR	sarithim	Credits	12
CO Attainment Level: 1 - (0% - 60%) 2- (61%-90%) 3-(91% and Above)			

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UNI) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI) (%)	Over all CO Attainment Level
C206.1	100.00	100.00	100.00	3
C206.2	100.00	100.00	100.00	3
C206.3	100.00	100.00	100.00	3
C206.4	100.00	100.00	100.00	3
C206.5	100.00	100.00	100.00	3
C206.6	100.00	100.00	100.00	3

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C206.1	3	3	3	3	3	3	3	2	3	2	3	2	3	3
C206.2	3	3	3	3	3	3	3	2	3	2	3	2	3	3
C206.3	3	3	3	3	3	3	3	2	3	2	3	2	3	3
C206.4	3	3	3	3	3	3	3	2	3	2	3	2	3	3
C206.5	3	3	3	3	3	3	3	2	3	2	3	2	3	3
C206.6	3	3	3	3	3	3	3	2	3	2	3	2	3	3
LEVEL	3	3	3	3	3	3	3	2	3	2	3	2	3	3

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C206.1	3.00	3.00	3.00	3.00	3.00	3.00	3.00	2.00	3.00	2.00	3.00	2.00	3.00	3.00
C206.2	3.00	3.00	3.00	3.00	3.00	3.00	3.00	2.00	3.00	2.00	3.00	2.00	3.00	3.00
C206.3	3.00	3.00	3.00	3.00	3.00	3.00	3.00	2.00	3.00	2.00	3.00	2.00	3.00	3.00
C206.4	3.00	3.00	3.00	3.00	3.00	3.00	3.00	2.00	3.00	2.00	3.00	2.00	3.00	3.00
C206.5	3.00	3.00	3.00	3.00	3.00	3.00	3.00	2.00	3.00	2.00	3.00	2.00	3.00	3.00
C206.6	3.00	3.00	3.00	3.00	3.00	3.00	3.00	2.00	3.00	2.00	3.00	2.00	3.00	3.00
Level	3.00	3.00	3.00	3.00	3.00	3.00	3.00	2.00	3.00	2.00	3.00	2.00	3.00	3.00

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C206	3	3	3	3	3	3	3	2	3	2	3	2	3	3
Attainment	3.00	3.00	3.00	3.00	3.00	3.00	3.00	2.00	3.00	2.00	3.00	2.00	3.00	3.00

H. B. S.
HOD/EE

**SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF ECE**

COURSE CODE / TITLE	MA4156-Linear Algebra, Probability and Queueing Theory	NBA Code	C101
CLASS / YEAR	MECS / I	BATCH	2021-2023
INSTRUCTOR	[Signature]		
CO-ORDINATOR	[Signature]		
Credits	4		

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UNI) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI) (%)	Over all CO Attainment Level
C101.1	100.00	100.00	100.00	3
C101.2	100.00	100.00	100.00	3
C101.3	66.67	100.00	86.67	3
C101.4	100.00	100.00	100.00	3
C101.5	66.67	100.00	86.67	3
C101.6	100.00	100.00	100.00	3

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C101.1	3	3	2	1	1	-	-	-	-	-	-	1	2	-
C101.2	3	3	2	1	1	-	-	-	-	-	-	1	2	-
C101.3	3	3	2	1	1	-	-	-	-	-	-	1	2	-
C101.4	3	3	2	1	1	-	-	-	-	-	-	1	2	-
C101.5	3	3	2	1	1	-	-	-	-	-	-	1	2	-
C101.6	3	3	2	1	1	-	-	-	-	-	-	1	2	-
LEVEL	3	3	2	1	1	-	-	-	-	-	-	1	2	-

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C101.1	3.00	3.00	2.00	1.00	1.00	-	-	-	-	-	-	1.00	2.00	-
C101.2	3.00	3.00	2.00	1.00	1.00	-	-	-	-	-	-	1.00	2.00	-
C101.3	3.00	3.00	2.00	1.00	1.00	-	-	-	-	-	-	1.00	2.00	-
C101.4	3.00	3.00	2.00	1.00	1.00	-	-	-	-	-	-	1.00	2.00	-
C101.5	3.00	3.00	2.00	1.00	1.00	-	-	-	-	-	-	1.00	2.00	-
C101.6	3.00	3.00	2.00	1.00	1.00	-	-	-	-	-	-	1.00	2.00	-
Level	3.00	3.00	2.00	1.00	1.00	-	-	-	-	-	-	1.00	2.00	-

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C101	3	3	2	1	1	-	-	-	-	-	-	1	2	-
Attainment	3.00	3.00	2.00	1.00	1.00	-	-	-	-	-	-	1.00	2.00	-

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HOD/ECE

SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF ECE

COURSE CODE / TITLE	RM4151 -Research Methodology and IPR	NBA Code	C102
CLASS / YEAR	MECS / I	BATCH	2021-2023
COORDINATOR	ramanatha-rup	Credits	2

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UNI) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI) (%)	Over all CO Attainment Level
C102.1	100.00	100.00	100.00	3
C102.2	100.00	100.00	100.00	3
C102.3	100.00	100.00	100.00	3
C102.4	100.00	100.00	100.00	3
C102.5	100.00	100.00	100.00	3
C102.6	100.00	100.00	100.00	3

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C102.1	2	2	2	1	1	1	-	-	-	1	1	1	2	2
C102.2	2	2	2	1	1	1	-	-	-	1	1	1	2	2
C102.3	2	2	2	1	1	1	-	-	-	1	1	1	2	2
C102.4	2	2	2	1	1	1	-	-	-	1	1	1	2	2
C102.5	2	2	2	1	1	1	-	-	-	1	1	1	2	2
C102.6	2	2	2	1	1	1	-	-	-	1	1	1	2	2
LEVEL	2	2	2	1	1	1	-	-	-	1	1	1	2	2

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C102.1	2.00	2.00	2.00	1.00	1.00	1.00	-	-	-	1.00	1.00	1.00	2.00	2.00
C102.2	2.00	2.00	2.00	1.00	1.00	1.00	-	-	-	1.00	1.00	1.00	2.00	2.00
C102.3	2.00	2.00	2.00	1.00	1.00	1.00	-	-	-	1.00	1.00	1.00	2.00	2.00
C102.4	2.00	2.00	2.00	1.00	1.00	1.00	-	-	-	1.00	1.00	1.00	2.00	2.00
C102.5	2.00	2.00	2.00	1.00	1.00	1.00	-	-	-	1.00	1.00	1.00	2.00	2.00
C102.6	2.00	2.00	2.00	1.00	1.00	1.00	-	-	-	1.00	1.00	1.00	2.00	2.00
Level	2.00	2.00	2.00	1.00	1.00	1.00	-	-	-	1.00	1.00	1.00	2.00	2.00

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C102	2	2	2	1	1	1	-	-	-	1	1	1	2	2
Attainment	2.00	2.00	2.00	1.00	1.00	1.00	-	-	-	1.00	1.00	1.00	2.00	2.00

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HOD/ECE

SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF ECE

COURSE CODE / TITLE	DS4152-Statistical Signal Processing	NBA Code	C103
CLASS / YEAR	MECS / I	BATCH	2021-2023
COORDINATOR	mohan-ece	Credits	3
CO Attainment Level: 1 - (9% - 60%) 2- (61%-80%) 3-(91% and Above)			

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UNI) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI) (%)	Over all CO Attainment Level
C103.1	100.00	100.00	100.00	3
C103.2	100.00	100.00	100.00	3
C103.3	100.00	100.00	100.00	3
C103.4	100.00	100.00	100.00	3
C103.5	100.00	100.00	100.00	3
C103.6	100.00	100.00	100.00	3

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C103.1	3	3	3	3	3	3	2	1	1	1	1	2	2	2
C103.2	3	3	3	3	3	3	2	1	1	1	1	2	2	2
C103.3	3	3	3	3	3	3	2	1	1	1	1	2	2	2
C103.4	3	3	3	3	3	3	2	1	1	1	1	2	2	2
C103.5	3	3	3	3	3	3	2	1	1	1	1	2	2	2
C103.6	3	3	3	3	3	3	2	1	1	1	1	2	2	2
LEVEL	3	3	3	3	3	3	2	1	1	1	1	2	2	2

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C103.1	3.00	3.00	3.00	3.00	3.00	3.00	2.00	1.00	1.00	1.00	1.00	2.00	2.00	2.00
C103.2	3.00	3.00	3.00	3.00	3.00	3.00	2.00	1.00	1.00	1.00	1.00	2.00	2.00	2.00
C103.3	3.00	3.00	3.00	3.00	3.00	3.00	2.00	1.00	1.00	1.00	1.00	2.00	2.00	2.00
C103.4	3.00	3.00	3.00	3.00	3.00	3.00	2.00	1.00	1.00	1.00	1.00	2.00	2.00	2.00
C103.5	3.00	3.00	3.00	3.00	3.00	3.00	2.00	1.00	1.00	1.00	1.00	2.00	2.00	2.00
C103.6	3.00	3.00	3.00	3.00	3.00	3.00	2.00	1.00	1.00	1.00	1.00	2.00	2.00	2.00
Level	3.00	3.00	3.00	3.00	3.00	3.00	2.00	1.00	1.00	1.00	1.00	2.00	2.00	2.00

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C103	3	3	3	3	3	3	2	1	1	1	1	2	2	2
Attainment	3.00	3.00	3.00	3.00	3.00	3.00	2.00	1.00	1.00	1.00	1.00	2.00	2.00	2.00

HOD/ECE

**SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF ECE**

COURSE CODE / TITLE	EL4151-Modern Digital Communication Systems	NBA Code	C104
CLASS / YEAR	MICS / I	BATCH	2021-2023
COORDINATOR	Barthia Begum	Credit	3
CO Attainment Level 1 - (75% - 80%) 2 - (81% - 90%) 3 - (91% and Above)			

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UNE) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNE) (%)	Over all CO Attainment Level
C104.1	100.00	100.00	100.00	3
C104.2	100.00	100.00	100.00	3
C104.3	100.00	100.00	100.00	3
C104.4	100.00	100.00	100.00	3
C104.5	100.00	100.00	100.00	3
C104.6	100.00	100.00	100.00	3

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C104.1	3	3	4	4	2	4	-	-	2	-	-	2	2	2
C104.2	3	3	4	4	2	4	-	-	2	-	-	2	2	2
C104.3	3	3	4	4	2	4	-	-	2	-	-	2	2	2
C104.4	3	3	4	4	2	4	-	-	2	-	-	2	2	2
C104.5	3	3	4	4	2	4	-	-	2	-	-	2	2	2
C104.6	3	3	4	4	2	4	-	-	2	-	-	2	2	2
Avg	3	3	4	4	2	4	-	-	2	-	-	2	2	2

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C104.1	5.00	2.00	4.00	4.00	2.00	4.00	-	-	2.00	-	-	2.00	2.00	2.00
C104.2	5.00	2.00	4.00	4.00	2.00	4.00	-	-	2.00	-	-	2.00	2.00	2.00
C104.3	5.00	2.00	4.00	4.00	2.00	4.00	-	-	2.00	-	-	2.00	2.00	2.00
C104.4	5.00	2.00	4.00	4.00	2.00	4.00	-	-	2.00	-	-	2.00	2.00	2.00
C104.5	5.00	2.00	4.00	4.00	2.00	4.00	-	-	2.00	-	-	2.00	2.00	2.00
C104.6	5.00	2.00	4.00	4.00	2.00	4.00	-	-	2.00	-	-	2.00	2.00	2.00
Level	5.00	2.00	4.00	4.00	2.00	4.00	-	-	2.00	-	-	2.00	2.00	2.00

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C104	3	3	4	4	2	4	-	-	2	-	-	2	2	2
Attainment	5.00	2.00	4.00	4.00	2.00	4.00	-	-	2.00	-	-	2.00	2.00	2.00

HOD/ECE

**SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF ECE**

COURSE CODE / TITLE	CU4151 -Advanced Wireless Communication	NBA Code	C105
CLASS / YEAR	MECS / I	BATCH	2021-2023
CO-ORDINATOR	meemurthy-eee	Credits	3

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UNI) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI) (%)	Over all CO Attainment Level
C105.1	100.00	100.00	100.00	3
C105.2	100.00	100.00	100.00	3
C105.3	100.00	100.00	100.00	3
C105.4	100.00	100.00	100.00	3
C105.5	100.00	100.00	100.00	3
C105.6	100.00	100.00	100.00	3

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C105.1	2	3	3	2	2	1	1	2	2	1	2	2	2	2
C105.2	2	3	3	2	2	1	1	2	2	1	2	2	2	2
C105.3	2	3	3	2	2	1	1	2	2	1	2	2	2	2
C105.4	2	3	3	2	2	1	1	2	2	1	2	2	2	2
C105.5	2	3	3	2	2	1	1	2	2	1	2	2	2	2
C105.6	2	3	3	2	2	1	1	2	2	1	2	2	2	2
LEVEL	2	3	3	2	2	1	1	2	2	1	2	2	2	2

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C105.1	2.00	3.00	3.00	2.00	2.00	1.00	1.00	2.00	2.00	1.00	2.00	2.00	2.00	2.00
C105.2	2.00	3.00	3.00	2.00	2.00	1.00	1.00	2.00	2.00	1.00	2.00	2.00	2.00	2.00
C105.3	2.00	3.00	3.00	2.00	2.00	1.00	1.00	2.00	2.00	1.00	2.00	2.00	2.00	2.00
C105.4	2.00	3.00	3.00	2.00	2.00	1.00	1.00	2.00	2.00	1.00	2.00	2.00	2.00	2.00
C105.5	2.00	3.00	3.00	2.00	2.00	1.00	1.00	2.00	2.00	1.00	2.00	2.00	2.00	2.00
C105.6	2.00	3.00	3.00	2.00	2.00	1.00	1.00	2.00	2.00	1.00	2.00	2.00	2.00	2.00
Level	2.00	3.00	3.00	2.00	2.00	1.00	1.00	2.00	2.00	1.00	2.00	2.00	2.00	2.00

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C105	2	3	3	2	2	1	1	2	2	1	2	2	2	2
Attainment	2.00	3.00	3.00	2.00	2.00	1.00	1.00	2.00	2.00	1.00	2.00	2.00	2.00	2.00

H. S. S.
HOD/BCE

SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF ECE

COURSE CODE / TITLE		CU4152-Radiating Systems	NBA Code	C106
CLASS / YEAR		MECS / I	BATCH	2021-2023
COORDINATOR		arunmozhi-eee	Credits	3
CO Attainment Level: 1-(0% - 60%) 2-(61%-90%) 3-(91% and Above)				

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UND) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UND) (%)	Over all CO Attainment Level
C106.1	100.00	75.00	85.00	2
C106.2	100.00	75.00	85.00	2
C106.3	100.00	75.00	85.00	2
C106.4	100.00	75.00	85.00	2
C106.5	100.00	75.00	85.00	2
C106.6	100.00	75.00	85.00	2

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C106.1	3	3	2	2	2	2	2	1	2	-	1	2	2	2
C106.2	3	3	2	2	2	2	2	1	2	-	1	2	2	2
C106.3	3	3	2	2	2	2	2	1	2	-	1	2	2	2
C106.4	3	3	2	2	2	2	2	1	2	-	1	2	2	2
C106.5	3	3	2	2	2	2	2	1	2	-	1	2	2	2
C106.6	3	3	2	2	2	2	2	1	2	-	1	2	2	2
LEVEL	3	3	2	2	2	2	2	1	2	-	1	2	2	2

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C106.1	2.00	2.00	1.33	1.33	1.33	1.33	1.33	0.67	1.33	-	0.67	1.33	1.33	1.33
C106.2	2.00	2.00	1.33	1.33	1.33	1.33	1.33	0.67	1.33	-	0.67	1.33	1.33	1.33
C106.3	2.00	2.00	1.33	1.33	1.33	1.33	1.33	0.67	1.33	-	0.67	1.33	1.33	1.33
C106.4	2.00	2.00	1.33	1.33	1.33	1.33	1.33	0.67	1.33	-	0.67	1.33	1.33	1.33
C106.5	2.00	2.00	1.33	1.33	1.33	1.33	1.33	0.67	1.33	-	0.67	1.33	1.33	1.33
C106.6	2.00	2.00	1.33	1.33	1.33	1.33	1.33	0.67	1.33	-	0.67	1.33	1.33	1.33
Level	2.00	2.00	1.33	1.33	1.33	1.33	1.33	0.67	1.33	-	0.67	1.33	1.33	1.33

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C106	3	3	2	2	2	2	2	1	2	-	1	2	2	2
Attainment	2.00	2.00	1.33	1.33	1.33	1.33	1.33	0.67	1.33	-	0.67	1.33	1.33	1.33

HOD/ECE

SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF ECE

COURSE CODE / TITLE	EL4161-Digital Communication Systems Laboratory	NBA Code	C107
CLASS / YEAR	MECS / I	BATCH	2021-2025
COORDINATOR	DR.P.SHANMUGAPRIYA	Credits	1.5
CO Attainment Level: 1 - (91% - 100%) 2 - (81% - 90%) 3 - (71% and Above)			

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UNI) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI) (%)	Over all CO Attainment Level
C107.1	100.00	100.00	100.00	3
C107.2	100.00	100.00	100.00	3
C107.3	100.00	100.00	100.00	3
C107.4	100.00	100.00	100.00	3
C107.5	100.00	100.00	100.00	3
C107.6	100.00	100.00	100.00	3

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C107.1	3	3	1	1	2	1	1	-	2	-	1	3	2	2
C107.2	3	3	1	1	2	1	1	-	2	-	1	3	2	2
C107.3	3	3	1	1	2	1	1	-	2	-	1	3	2	2
C107.4	3	3	1	1	2	1	1	-	2	-	1	3	2	2
C107.5	3	3	1	1	2	1	1	-	2	-	1	3	2	2
C107.6	3	3	1	1	2	1	1	-	2	-	1	3	2	2
LEVEL	3	3	1	1	2	1	1	-	2	-	1	3	2	2

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C107.1	3.00	3.00	1.00	1.00	2.00	1.00	1.00	-	2.00	-	1.00	3.00	2.00	2.00
C107.2	3.00	3.00	1.00	1.00	2.00	1.00	1.00	-	2.00	-	1.00	3.00	2.00	2.00
C107.3	3.00	3.00	1.00	1.00	2.00	1.00	1.00	-	2.00	-	1.00	3.00	2.00	2.00
C107.4	3.00	3.00	1.00	1.00	2.00	1.00	1.00	-	2.00	-	1.00	3.00	2.00	2.00
C107.5	3.00	3.00	1.00	1.00	2.00	1.00	1.00	-	2.00	-	1.00	3.00	2.00	2.00
C107.6	3.00	3.00	1.00	1.00	2.00	1.00	1.00	-	2.00	-	1.00	3.00	2.00	2.00
Level	3.00	3.00	1.00	1.00	2.00	1.00	1.00	-	2.00	-	1.00	3.00	2.00	2.00

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C107	3	3	1	1	2	1	1	-	2	-	1	3	2	2
Attainment	3.00	3.00	1.00	1.00	2.00	1.00	1.00	-	2.00	-	1.00	3.00	2.00	2.00

HOD/ECT

SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF ECE

COURSE CODE / TITLE	CU4161-Advanced Digital Signal Processing Laboratory	NBA Code	C108
CLASS / YEAR	MECS / I	BATCH	2021-2023
COORDINATOR	mohan-ecce	Credits	1.5
CO Attainment Level: 1 - (91% - 100%) 2 - (61% - 90%) 3 - (91% and Above)			

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UNI) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI) (%)	Over all CO Attainment Level
C108.1	100.00	100.00	100.00	3
C108.2	100.00	100.00	100.00	3
C108.3	100.00	100.00	100.00	3
C108.4	100.00	100.00	100.00	3
C108.5	100.00	100.00	100.00	3
C108.6	100.00	100.00	100.00	3

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C108.1	2	2	2	2	2	-	-	-	-	1	1	1	2	2
C108.2	2	2	2	2	2	-	-	-	-	1	1	1	2	2
C108.3	2	2	2	2	2	-	-	-	-	1	1	1	2	2
C108.4	2	2	2	2	2	-	-	-	-	1	1	1	2	2
C108.5	2	2	2	2	2	-	-	-	-	1	1	2	2	2
C108.6	2	2	2	2	2	-	-	-	-	1	1	1	2	2
LEVEL	2	2	2	2	2	-	-	-	-	1	1	1.166667	2	2

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C108.1	2.00	2.00	2.00	2.00	2.00	-	-	-	-	1.00	1.00	1.00	2.00	2.00
C108.2	2.00	2.00	2.00	2.00	2.00	-	-	-	-	1.00	1.00	1.00	2.00	2.00
C108.3	2.00	2.00	2.00	2.00	2.00	-	-	-	-	1.00	1.00	1.00	2.00	2.00
C108.4	2.00	2.00	2.00	2.00	2.00	-	-	-	-	1.00	1.00	1.00	2.00	2.00
C108.5	2.00	2.00	2.00	2.00	2.00	-	-	-	-	1.00	1.00	2.00	2.00	2.00
C108.6	2.00	2.00	2.00	2.00	2.00	-	-	-	-	1.00	1.00	1.00	2.00	2.00
Level	2.00	2.00	2.00	2.00	2.00	-	-	-	-	1.00	1.00	1.17	2.00	2.00

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C108	2	2	2	2	2	-	-	-	-	1	1	1.166667	2	2
Attainment	2.00	2.00	2.00	2.00	2.00	-	-	-	-	1.00	1.00	1.17	2.00	2.00

H. S. Raj
HOD/ECE

SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF ECE

COURSE CODE / TITLE		DEPARTMENT	
CU4251 -RF System Design		NBA Code	C109
CLASS / YEAR		BATCH	2021-2023
MECS / II			
COORDINATOR		Credits	3
sivakannu-ecce			
CO Attainment Level: 1 - (0% - 60%) 2- (61%-90%) 3-(91% and Above)			

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UNT) (%)	Direct CO Attainment (0.40xCO-ENT + 0.60xCO-UNT) (%)	Over all CO Attainment Level
C109.1	100.00	75.00	85.00	2
C109.2	100.00	75.00	85.00	2
C109.3	100.00	75.00	85.00	2
C109.4	100.00	75.00	85.00	2
C109.5	100.00	75.00	85.00	2
C109.6	100.00	75.00	85.00	2

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C109.1	3	2	2	3	2	2	1	1	2	1	1	3	2	2
C109.2	3	2	2	3	2	2	1	1	2	1	1	3	2	2
C109.3	3	2	2	3	2	2	1	1	2	1	1	3	2	2
C109.4	3	2	2	3	2	2	1	1	2	1	1	3	2	2
C109.5	3	2	2	3	2	2	1	1	2	1	1	3	2	2
C109.6	3	2	2	3	2	2	1	1	2	1	1	3	2	2
LEVEL	3	2	2	3	2	2	1	1	2	1	1	3	2	2

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C109.1	2.00	1.33	1.33	2.00	1.33	1.33	0.67	0.67	1.33	0.67	0.67	2.00	1.33	1.33
C109.2	2.00	1.33	1.33	2.00	1.33	1.33	0.67	0.67	1.33	0.67	0.67	2.00	1.33	1.33
C109.3	2.00	1.33	1.33	2.00	1.33	1.33	0.67	0.67	1.33	0.67	0.67	2.00	1.33	1.33
C109.4	2.00	1.33	1.33	2.00	1.33	1.33	0.67	0.67	1.33	0.67	0.67	2.00	1.33	1.33
C109.5	2.00	1.33	1.33	2.00	1.33	1.33	0.67	0.67	1.33	0.67	0.67	2.00	1.33	1.33
C109.6	2.00	1.33	1.33	2.00	1.33	1.33	0.67	0.67	1.33	0.67	0.67	2.00	1.33	1.33
Level	2.00	1.33	1.33	2.00	1.33	1.33	0.67	0.67	1.33	0.67	0.67	2.00	1.33	1.33

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C109	3	2	2	3	2	2	1	1	2	1	1	3	2	2
Attainment	2.00	1.33	1.33	2.00	1.33	1.33	0.67	0.67	1.33	0.67	0.67	2.00	1.33	1.33

HOD/ECE

**SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF ECE**

DEPARTMENT				
COURSE CODE / TITLE	CU4201-Microwave Integrated Circuits	NBA Code	C110	
CLASS / YEAR	MECS / I	BATCH	2021-2023	
COORDINATOR	malaisamy-eee			
CO Attainment Level: 1 - (0% - 60%) 2 - (61% - 90%) 3 - (91% and Above)			Credits	4

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UNT) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNT) (%)	Over all CO Attainment Level
C110.1	100.00	100.00	100.00	3
C110.2	100.00	100.00	100.00	3
C110.3	100.00	100.00	100.00	3
C110.4	100.00	100.00	100.00	3
C110.5	100.00	100.00	100.00	3
C110.6	100.00	100.00	100.00	3

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C110.1	2	2	3	3	2	3	-	1	2	1	1	3	2	2
C110.2	2	2	3	3	2	3	-	1	2	1	1	3	2	2
C110.3	2	2	3	3	2	3	-	1	2	1	1	3	2	2
C110.4	2	2	3	3	2	3	-	1	2	1	1	3	2	2
C110.5	2	2	3	3	2	3	-	1	2	1	1	3	2	2
C110.6	2	2	3	3	2	3	-	1	2	1	1	3	2	2
LEVEL	2	2	3	3	2	3	-	1	2	1	1	3	2	2

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C110.1	2.00	2.00	3.00	3.00	2.00	3.00	-	1.00	2.00	1.00	1.00	3.00	2.00	2.00
C110.2	2.00	2.00	3.00	3.00	2.00	3.00	-	1.00	2.00	1.00	1.00	3.00	2.00	2.00
C110.3	2.00	2.00	3.00	3.00	2.00	3.00	-	1.00	2.00	1.00	1.00	3.00	2.00	2.00
C110.4	2.00	2.00	3.00	3.00	2.00	3.00	-	1.00	2.00	1.00	1.00	3.00	2.00	2.00
C110.5	2.00	2.00	3.00	3.00	2.00	3.00	-	1.00	2.00	1.00	1.00	3.00	2.00	2.00
C110.6	2.00	2.00	3.00	3.00	2.00	3.00	-	1.00	2.00	1.00	1.00	3.00	2.00	2.00
Level	2.00	2.00	3.00	3.00	2.00	3.00	-	1.00	2.00	1.00	1.00	3.00	2.00	2.00

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C110	2	2	3	3	2	3	-	1	2	1	1	3	2	2
Attainment	2.00	2.00	3.00	3.00	2.00	3.00	-	1.00	2.00	1.00	1.00	3.00	2.00	2.00

H. Pradeep
HOD/ECE

**SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF ECE**

COURSE CODE / TITLE	CU4202-Advanced Wireless Networks	NBA Code	C111
CLASS / YEAR	MECS / I	BATCH	2021-2023
COORDINATOR	majeswar-eee	Credits	3
CO Attainment Level: 1-(80%-89%) 2-(90%-94%) 3-(95% and Above)			

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UNI) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI) (%)	Over all CO Attainment Level
C111.1	100.00	75.00	85.00	2
C111.2	100.00	75.00	85.00	2
C111.3	100.00	75.00	85.00	2
C111.4	100.00	75.00	85.00	2
C111.5	100.00	75.00	85.00	2
C111.6	100.00	75.00	85.00	2

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C111.1	3	3	2	2	2	2	2	1	2	-	1	2	2	2
C111.2	3	3	2	2	2	2	2	1	2	-	1	2	2	2
C111.3	3	3	2	2	2	2	2	1	2	-	1	2	2	2
C111.4	3	3	2	2	2	2	2	1	2	-	1	2	2	2
C111.5	3	3	2	2	2	2	2	1	2	-	1	2	2	2
C111.6	3	3	2	2	2	2	2	1	2	-	1	2	2	2
LEVEL	3	3	2	2	2	2	2	1	2	-	1	2	2	2

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C111.1	2.00	2.00	1.33	1.33	1.33	1.33	1.33	0.67	1.33	-	0.67	1.33	1.33	1.33
C111.2	2.00	2.00	1.33	1.33	1.33	1.33	1.33	0.67	1.33	-	0.67	1.33	1.33	1.33
C111.3	2.00	2.00	1.33	1.33	1.33	1.33	1.33	0.67	1.33	-	0.67	1.33	1.33	1.33
C111.4	2.00	2.00	1.33	1.33	1.33	1.33	1.33	0.67	1.33	-	0.67	1.33	1.33	1.33
C111.5	2.00	2.00	1.33	1.33	1.33	1.33	1.33	0.67	1.33	-	0.67	1.33	1.33	1.33
C111.6	2.00	2.00	1.33	1.33	1.33	1.33	1.33	0.67	1.33	-	0.67	1.33	1.33	1.33
Level	2.00	2.00	1.33	1.33	1.33	1.33	1.33	0.67	1.33	-	0.67	1.33	1.33	1.33

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C111	3	3	2	2	2	2	2	1	2	-	1	2	2	2
Attainment	2.00	2.00	1.33	1.33	1.33	1.33	1.33	0.67	1.33	-	0.67	1.33	1.33	1.33

HOD/ECE

**SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF ECE**

COURSE CODE / TITLE	CP4252-Machine Learning	NBA Code	C112
CLASS / YEAR	MECS / I	BATCH	2021-2023
COORDINATOR	DR.V.MOHAN	Credits	4
CO Attainment Level: 1 - (0% - 60%) 2- (61%-90%) 3-(91% and Above)			

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UNI) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI) (%)	Over all CO Attainment Level
C112.1	100.00	100.00	100.00	3
C112.2	100.00	100.00	100.00	3
C112.3	100.00	100.00	100.00	3
C112.4	100.00	100.00	100.00	3
C112.5	100.00	100.00	100.00	3
C112.6	100.00	100.00	100.00	3

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C112.1	3	3	2	2	2	2	2	1	2	-	1	2	2	2
C112.2	3	3	2	2	2	2	2	1	2	-	1	2	2	2
C112.3	3	3	2	2	2	2	2	1	2	-	1	2	2	2
C112.4	3	3	2	2	2	2	2	1	2	-	1	2	2	2
C112.5	3	3	2	2	2	2	2	1	2	-	1	2	2	2
C112.6	3	3	2	2	2	2	2	1	2	-	1	2	2	2
LEVEL	3	3	2	2	2	2	2	1	2	-	1	2	2	2

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C112.1	3.00	3.00	2.00	2.00	2.00	2.00	2.00	1.00	2.00	-	1.00	2.00	2.00	2.00
C112.2	3.00	3.00	2.00	2.00	2.00	2.00	2.00	1.00	2.00	-	1.00	2.00	2.00	2.00
C112.3	3.00	3.00	2.00	2.00	2.00	2.00	2.00	1.00	2.00	-	1.00	2.00	2.00	2.00
C112.4	3.00	3.00	2.00	2.00	2.00	2.00	2.00	1.00	2.00	-	1.00	2.00	2.00	2.00
C112.5	3.00	3.00	2.00	2.00	2.00	2.00	2.00	1.00	2.00	-	1.00	2.00	2.00	2.00
C112.6	3.00	3.00	2.00	2.00	2.00	2.00	2.00	1.00	2.00	-	1.00	2.00	2.00	2.00
Level	3.00	3.00	2.00	2.00	2.00	2.00	2.00	1.00	2.00	-	1.00	2.00	2.00	2.00

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C112	3	3	2	2	2	2	2	1	2	-	1	2	2	2
Attainment	3.00	3.00	2.00	2.00	2.00	2.00	2.00	1.00	2.00	-	1.00	2.00	2.00	2.00

R. Pradeep
HOD/ECE

SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF ECE

COURSE CODE / TITLE	CU4071-Advanced Satellite Communication and Navigation	NBA Code	C113PE1
CLASS / YEAR	MECS / I	BATCH	2021-2023
COORDINATOR	hariprasath-eee	Credits	3
CO Attainment Level: 1 - (0% - 60%) 2- (61%-90%) 3-(91% and Above)			

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UNI) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI) (%)	Over all CO Attainment Level
C113PE1.1	100.00	100.00	100.00	3
C113PE1.2	100.00	100.00	100.00	3
C113PE1.3	100.00	100.00	100.00	3
C113PE1.4	100.00	100.00	100.00	3
C113PE1.5	100.00	100.00	100.00	3
C113PE1.6	100.00	100.00	100.00	3

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C113PE1.1	3	3	1	1	2	1	-	-	2	1	-	2	2	2
C113PE1.2	3	3	1	1	2	1	-	-	2	1	-	2	2	2
C113PE1.3	3	3	1	1	2	1	-	-	2	1	-	2	2	2
C113PE1.4	3	3	1	1	2	1	-	-	2	1	-	2	2	2
C113PE1.5	3	3	1	1	2	1	-	-	2	1	-	2	2	2
C113PE1.6	3	3	1	1	2	1	-	-	2	1	-	2	2	2
LEVEL	3	3	1	1	2	1	-	-	2	1	-	2	2	2

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C113PE1.1	3.00	3.00	1.00	1.00	2.00	1.00	-	-	2.00	1.00	-	2.00	2.00	2.00
C113PE1.2	3.00	3.00	1.00	1.00	2.00	1.00	-	-	2.00	1.00	-	2.00	2.00	2.00
C113PE1.3	3.00	3.00	1.00	1.00	2.00	1.00	-	-	2.00	1.00	-	2.00	2.00	2.00
C113PE1.4	3.00	3.00	1.00	1.00	2.00	1.00	-	-	2.00	1.00	-	2.00	2.00	2.00
C113PE1.5	3.00	3.00	1.00	1.00	2.00	1.00	-	-	2.00	1.00	-	2.00	2.00	2.00
C113PE1.6	3.00	3.00	1.00	1.00	2.00	1.00	-	-	2.00	1.00	-	2.00	2.00	2.00
Level	3.00	3.00	1.00	1.00	2.00	1.00	-	-	2.00	1.00	-	2.00	2.00	2.00

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C113PE1	3	3	1	1	2	1	-	-	2	1	-	2	2	2
Attainment	3.00	3.00	1.00	1.00	2.00	1.00	-	-	2.00	1.00	-	2.00	2.00	2.00

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HOD/ECE

SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF ECE

COURSE CODE / TITLE	MU4091-MULTIMEDIA COMPRESSION TECHNIQUES	NBA Code	C114PE2
CLASS / YEAR	MECS / I	BATCH	2021-2023
COORDINATOR	shamimbanu-ece	Credits	3
CO Attainment Level: 1 - (0% - 60%) 2- (61%-90%) 3-(91% and Above)			

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UNI) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI) (%)	Over all CO Attainment Level
C114PE2.1	100.00	100.00	100.00	3
C114PE2.2	100.00	100.00	100.00	3
C114PE2.3	100.00	100.00	100.00	3
C114PE2.4	100.00	100.00	100.00	3
C114PE2.5	100.00	100.00	100.00	3
C114PE2.6	100.00	100.00	100.00	3

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C114PE2.1	3	3	2	2	3	2	2	1	2	2	1	3	2	2
C114PE2.2	3	3	2	2	3	2	2	1	2	2	1	3	2	2
C114PE2.3	3	3	2	2	3	2	2	1	2	2	1	3	2	2
C114PE2.4	3	3	2	2	3	2	2	1	2	2	1	3	2	2
C114PE2.5	3	3	2	2	3	2	2	1	2	2	1	3	2	2
C114PE2.6	3	3	2	2	3	2	2	1	2	2	1	3	2	2
LEVEL	3	3	2	2	3	2	2	1	2	2	1	3	2	2

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C114PE2.1	3.00	3.00	2.00	2.00	3.00	2.00	2.00	1.00	2.00	2.00	1.00	3.00	2.00	2.00
C114PE2.2	3.00	3.00	2.00	2.00	3.00	2.00	2.00	1.00	2.00	2.00	1.00	3.00	2.00	2.00
C114PE2.3	3.00	3.00	2.00	2.00	3.00	2.00	2.00	1.00	2.00	2.00	1.00	3.00	2.00	2.00
C114PE2.4	3.00	3.00	2.00	2.00	3.00	2.00	2.00	1.00	2.00	2.00	1.00	3.00	2.00	2.00
C114PE2.5	3.00	3.00	2.00	2.00	3.00	2.00	2.00	1.00	2.00	2.00	1.00	3.00	2.00	2.00
C114PE2.6	3.00	3.00	2.00	2.00	3.00	2.00	2.00	1.00	2.00	2.00	1.00	3.00	2.00	2.00
Level	3.00	3.00	2.00	2.00	3.00	2.00	2.00	1.00	2.00	2.00	1.00	3.00	2.00	2.00

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C114PE2	3	3	2	2	3	2	2	1	2	2	1	3	2	2
Attainment	3.00	3.00	2.00	2.00	3.00	2.00	2.00	1.00	2.00	2.00	1.00	3.00	2.00	2.00

H. S. S.
HOD/ECE

**SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF ECE**

COURSE CODE / TITLE	CU4211-Wireless Communication Laboratory	NBA Code	C115
CLASS / YEAR	MECS / I	BATCH	2021-2023
COORDINATOR	DR.P.SHANMUGAPRIYA	Credits	2
CO Attainment Level: 1 - (0% - 60%) 2- (61%-90%) 3-(91% and Above)			

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UNI) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI) (%)	Over all CO Attainment Level
C115.1	100.00	100.00	100.00	3
C115.2	100.00	100.00	100.00	3
C115.3	100.00	100.00	100.00	3
C115.4	100.00	100.00	100.00	3
C115.5	100.00	100.00	100.00	3
C115.6	100.00	100.00	100.00	3

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C115.1	3	3	1	1	2	1	1	-	2	-	1	3	2	2
C115.2	3	3	1	1	2	1	1	-	2	-	1	3	2	2
C115.3	3	3	1	1	2	1	1	-	2	-	1	3	2	2
C115.4	3	3	1	1	2	1	1	-	2	-	1	3	2	2
C115.5	3	3	1	1	2	1	1	-	2	-	1	3	2	2
C115.6	3	3	1	1	2	1	1	-	2	-	1	3	2	2
LEVEL	3	3	1	1	2	1	1	-	2	-	1	3	2	2

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C115.1	3.00	3.00	1.00	1.00	2.00	1.00	1.00	-	2.00	-	1.00	3.00	2.00	2.00
C115.2	3.00	3.00	1.00	1.00	2.00	1.00	1.00	-	2.00	-	1.00	3.00	2.00	2.00
C115.3	3.00	3.00	1.00	1.00	2.00	1.00	1.00	-	2.00	-	1.00	3.00	2.00	2.00
C115.4	3.00	3.00	1.00	1.00	2.00	1.00	1.00	-	2.00	-	1.00	3.00	2.00	2.00
C115.5	3.00	3.00	1.00	1.00	2.00	1.00	1.00	-	2.00	-	1.00	3.00	2.00	2.00
C115.6	3.00	3.00	1.00	1.00	2.00	1.00	1.00	-	2.00	-	1.00	3.00	2.00	2.00
Level	3.00	3.00	1.00	1.00	2.00	1.00	1.00	-	2.00	-	1.00	3.00	2.00	2.00

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C115	3	3	1	1	2	1	1	-	2	-	1	3	2	2
Attainment	3.00	3.00	1.00	1.00	2.00	1.00	1.00	-	2.00	-	1.00	3.00	2.00	2.00

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HOD/ECE

SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF ECE

COURSE CODE / TITLE	CU4212-TERM PAPER WRITING AND SEMINAR	NBA Code	C116
CLASS / YEAR	MECS / I	BATCH	2021-2023
COORDINATOR	DR.M.SANTHI	Credits	1
CO Attainment Level: 1-(0%-60%) 2-(61%-90%) 3-(91% and Above)			

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UNI) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI) (%)	Over all CO Attainment Level
C116.1	100.00	100.00	100.00	3
C116.2	100.00	100.00	100.00	3
C116.3	100.00	100.00	100.00	3
C116.4	100.00	100.00	100.00	3
C116.5	100.00	100.00	100.00	3
C116.6	100.00	100.00	100.00	3

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C116.1	3	3	3	2	1	2	1	1	2	2	1	3	2	2
C116.2	3	3	3	2	1	2	1	1	2	2	1	3	2	2
C116.3	3	3	3	2	1	2	1	1	2	2	1	3	2	2
C116.4	3	3	3	2	1	2	1	1	2	2	1	3	2	2
C116.5	3	3	3	2	1	2	1	1	2	2	1	3	2	2
C116.6	3	3	3	2	1	2	1	1	2	2	1	3	2	2
LEVEL	3	3	3	2	1	2	1	1	2	2	1	3	2	2

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C116.1	3.00	3.00	3.00	2.00	1.00	2.00	1.00	1.00	2.00	2.00	1.00	3.00	2.00	2.00
C116.2	3.00	3.00	3.00	2.00	1.00	2.00	1.00	1.00	2.00	2.00	1.00	3.00	2.00	2.00
C116.3	3.00	3.00	3.00	2.00	1.00	2.00	1.00	1.00	2.00	2.00	1.00	3.00	2.00	2.00
C116.4	3.00	3.00	3.00	2.00	1.00	2.00	1.00	1.00	2.00	2.00	1.00	3.00	2.00	2.00
C116.5	3.00	3.00	3.00	2.00	1.00	2.00	1.00	1.00	2.00	2.00	1.00	3.00	2.00	2.00
C116.6	3.00	3.00	3.00	2.00	1.00	2.00	1.00	1.00	2.00	2.00	1.00	3.00	2.00	2.00
Level	3.00	3.00	3.00	2.00	1.00	2.00	1.00	1.00	2.00	2.00	1.00	3.00	2.00	2.00

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C116	3	3	3	2	1	2	1	1	2	2	1	3	2	2
Attainment	3.00	3.00	3.00	2.00	1.00	2.00	1.00	1.00	2.00	2.00	1.00	3.00	2.00	2.00

H. And
HOD/ECE

SARANATHAN COLLEGE OF ENGINEERING, Tiruchirappalli - 620012

Department of B.E. Electronics and Communication Engineering

Internal Assessment - Attainment of Courses Outcomes (Through Direct Assessment)

Academic Period 2022 - 2023 / EVEN Semester																																
COURSE CODE/TITLE		LINEAR INTEGRATED CIRCUITS												Batch				2021 - 2025														
CLASS / SECTION		Sem 4 / ECE A & B												COURSE OUTCOME				1	2	3	4	5	6									
COURSE COORDINATOR		Ms.J.Eindhumathy / Dr.M.Padmas												TARGET				65	65	65	65	65	65									
ATTAINMENT LEVEL		Level		Range																												
		1		0-60% of the Students scored more than target																												
		2		61-90% of the Students scored more than target																												
		3		90% of the Students scored more than target																												
S.NO	REG NO	NAME OF THE STUDENT	IAT-1 MARKS ALLOTTED						IAT-2 MARKS ALLOTTED						IAT-3 MARKS ALLOTTED						ASSIGNMENT						TOTAL COURSE OUTCOME					
			C1	C2	C3	C4	C5	C6	C1	C2	C3	C4	C5	C6	C1	C2	C3	C4	C5	C6	C1	C2	C3	C4	C5	C6	C1	C2	C3	C4	C5	C6
			60	40					40	60							40	40	20	40							100	80	60	40	40	20
1	B13B21106001	ABICA JENUS. A	48	36					38	54							30	26	16	40							88	74	54	30	26	16
2	B13B21106002	ABINAYA. S	44	36					32	52							38	28	16	40							84	68	52	38	28	16
3	B13B21106003	AGALYAA. S	38	34					28	52							34	32	12	40							78	62	52	34	32	12
4	B13B21106004	AHARINI. G	54	38					25	47							34	30	14	38							92	63	47	34	30	14
5	B13B21106006	AKSHAYA SARAVANAN	42	38					40	58							32	28	0	40							82	78	58	32	28	0
6	B13B21106007	ANANDHA VADHANI. M	46	34					30	48							32	22	0	40							86	64	48	32	22	0
7	B13B21106008	ANIESH LURA. S	46	36					36	60							36	26	12	40							86	72	60	36	26	12
8	B13B21106009	ANIT ADITHYA. A	38	20					24	54							28	24	0	40							78	44	54	28	24	0
9	B13B21106010	ARCHANA. S	40	30					38	50							30	18	6	40							80	68	50	30	18	6
10	B13B21106011	ASWATHI. A S	40	30					40	38							28	10	0	40							80	70	38	28	10	0
11	B13B21106012	ATHISH PRANAV. M	42	18					26	40							12	4	0	37							79	44	40	12	4	0
12	B13B21106013	BALAJI. S D	46	34					36	46							34	28	0	40							86	70	46	34	28	0
13	B13B21106014	BALAMURUGAN. S	48	38					40	54							34	30	18	40							88	78	54	34	30	18
14	B13B21106015	BHARANI DHARAN. K	31	37					19	54							24	0	0	40							71	56	54	24	0	0
15	B13B21106016	BIOSHINI ELIZABETH. V	48	38					32	54							34	26	6	40							88	70	54	34	26	6
16	B13B21106017	CHANDRASEKAR. C	16	10					27	23							16	6	0	40							56	37	23	16	6	0
17	B13B21106018	CLARANCE NIRMAL. I	45	33					28	42							28	34	0	40							85	61	42	28	34	0
18	B13B21106019	DEVISRI. K	31	37					26	56							0	0	0	40							71	63	56	0	0	0

S.NO	REG NO	NAME OF THE STUDENT	IAT-1 MARKS ALLOTTED						IAT-2 MARKS ALLOTTED						IAT-3 MARKS ALLOTTED						ASSIGNMENT						TOTAL COURSE OUTCOME					
			C1	C2	C3	C4	C5	C6	C1	C2	C3	C4	C5	C6	C1	C2	C3	C4	C5	C6	C1	C2	C3	C4	C5	C6	C1	C2	C3	C4	C5	C6
			60	40					40	60						40	40	20	40									100	80	60	40	40
19	813821106021	DHANYA, S G	40	40					34	56							30	30	12	40							80	74	56	36	36	12
20	813821106022	DHEVASENA, K	38	40					34	48							32	30	0	40							78	74	48	32	36	0
21	813821106023	DIVAKARAN, J	48	40					26	38							34	30	0	40							88	66	38	34	36	0
22	813821106024	DOMINIC FERDINAND, A	30	36					23	29							0	0	0	40							70	59	29	0	0	0
23	813821106025	EDRIK ARUL RAJ, A	38	40					16	48							4	0	0	36							74	56	48	4	0	0
24	813821106026	GANESAN, R	31	19					24	26							16	12	0	38							69	43	26	16	12	0
25	813821106027	GANESH, S	18	40					25	29							16	8	0	40							58	65	29	16	8	0
26	813821106028	GANGA GAYATHRI, R	42	38					36	52							30	30	10	40							82	74	52	30	30	10
27	813821106029	GAYATHIRI, P	30	36					28	40							17	33	0	40							70	64	40	17	33	0
28	813821106030	GLADY FAUSTINA, A	40	32					34	48							34	34	8	40							80	66	48	34	34	8
29	813821106031	GNANASAMBANDAN, S R	28	38					29	56							34	34	6	40							68	67	56	34	34	6
30	813821106032	GRUBAKAR, R	16	38					22	30							24	2	0	36							52	60	30	24	2	0
31	813821106033	GRUZ ANDREWS, R	42	22					20	46							34	20	0	36							78	42	46	34	20	0
32	813821106034	GUNALAN, A	38	18					29	41							12	8	0	36							74	47	41	12	8	0
33	813821106035	GUNASEKAR, E	52	34					32	52							34	32	16	40							92	66	52	34	32	16
34	813821106036	GURU VENKATESH, S	52	38					32	60							38	30	18	40							92	70	60	38	30	18
35	813821106037	HAREESH VENKADESH, M	50	38					36	58							34	32	0	40							90	74	58	34	32	0
36	813821106038	HARIKRISHNAN, E	28	22					20	36							24	8	0	38							66	42	36	24	8	0
37	813821106039	HARIKRISHNAN, S	50	32					34	56							30	30	8	40							90	66	56	30	30	8
38	813821106040	HARINISHRI, T	38	34					34	60							34	30	14	38							76	68	60	34	30	14
39	813821106041	HARI PRIYA, S	44	36					36	58							34	32	18	38							82	72	58	34	32	18
40	813821106042	HARISH, D	50	36					30	54							20	32	14	40							90	66	54	20	32	14
41	813821106043	HARISH, P	36	38					30	36							34	28	0	36							72	68	36	34	28	0
42	813821106044	HARISH, R	50	38					36	54							30	34	16	40							90	74	54	30	34	16
43	813821106045	HEMAVARSHINI, S	42	32					36	56							36	30	8	40							82	68	56	36	30	8
44	813821106046	ILLAKIYA, S	40	30					38	56							30	28	8	40							80	68	56	30	28	8
45	813821106047	ISHAQ, S	40	36					16	54							32	24	0	40							80	52	54	32	24	0

S.NO	REG NO	NAME OF THE STUDENT	IAT-1 MARKS ALLOTTED						IAT-2 MARKS ALLOTTED						IAT-3 MARKS ALLOTTED						ASSIGNMENT						TOTAL COURSE OUTCOME					
			C1	C2	C3	C4	C5	C6	C1	C2	C3	C4	C5	C6	C1	C2	C3	C4	C5	C6	C1	C2	C3	C4	C5	C6	C1	C2	C3	C4	C5	C6
			60	40					40	60					40	40	20	40														
46	813821106048	JAYA HARINI. K	36	38					36	50					32	32	0	38								100	80	60	40	40	20	
47	813821106049	JAYASURIYA. P	52	38					36	56					34	26	8	40								74	74	50	32	32	0	
48	813821106050	JEFFRIN VALENTINA. R. S	54	40					37	60					36	38	20	40								94	77	60	36	38	20	
49	813821106052	JOTHISWAR. B. A	26	38					26	52					34	34	0	36								62	64	52	34	34	0	
50	813821106053	KANIHAA. R	44	38					37	54					30	32	10	40								84	75	54	30	32	10	
51	813821106054	KANMANI. K	46	38					40	56					34	32	18	38								84	78	56	34	32	18	
52	813821106055	KANTHAN MARAN. S	36	30					16	56					32	26	0	40								76	46	56	32	26	0	
53	813821106056	KARTHIKA. K	46	32					38	36					36	30	0	40								86	70	36	36	30	0	
54	813821106057	KASTHURI RENGAN. S	56	38					36	60					32	32	0	40								96	74	60	32	32	0	
55	813821106058	KAVYA. G	44	24					32	50					30	30	16	40								84	56	50	30	30	16	
56	813821106059	KAVYAH. G	54	38					40	56					34	34	16	40								94	78	56	34	34	16	
57	813821106060	KIRAN. T	58	40					30	54					32	28	12	40								98	70	54	32	28	12	
58	813821106061	KRITHIKA. R	0	0					0	0					0	0	0	0								0	0	0	0	0	0	
59	813821106062	LOGESH. R	57	30					38	54					30	36	0	40								97	68	54	30	36	0	
60	813821106063	LOGESVARAN. N	35	21					28	32					28	22	0	40								75	49	32	28	22	0	
61	813821106064	MANIKANDAN. K	54	30					40	58					35	35	10	40								94	70	58	35	35	10	
62	813821106065	MANJARI. K	48	30					30	54					32	36	14	40								88	60	54	32	36	14	
63	813821106066	MANOJ. S	47	30					28	48					24	26	0	40								87	58	48	24	26	0	
64	813821106067	MANOJ MANI. N	45	34					36	59					30	32	0	40								85	70	59	30	32	0	
65	813821106068	MEENASHREE. A	58	38					34	52					36	36	16	40								98	72	52	36	36	16	
66	813821106069	MOHAMED AHIL. A	55	35					32	51					36	34	14	40								95	67	51	36	34	14	
67	813821106070	MOHAMED SAIFUDDIN. M	28	26					29	44					35	35	7	40								68	55	44	35	35	7	
68	813821106071	MUTHAMIL. S	56	35					37	56					36	38	16	40								96	72	56	36	38	16	
69	813821106072	MUTHU. T	51	30					20	46					34	28	0	40								91	50	46	34	28	0	
70	813821106073	MUTHULAKSHMI. G	54	30					30	35					34	36	7	40								94	60	35	34	36	7	
71	813821106074	NANDHA KUMARAN. S	30	22					22	28					10	17	0	37								67	44	28	10	17	0	
72	813821106075	NAVEENA KRISHNAN. R. G	45	34					26	44					20	30	10	40								85	60	44	20	30	10	

Outcome

Outcome

S.NO	REG NO	NAME OF THE STUDENT	IAT-1 MARKS ALLOTTED						IAT-2 MARKS ALLOTTED						IAT-3 MARKS ALLOTTED						ASSIGNMENT						TOTAL COURSE OUTCOME								
			C1	C2	C3	C4	C5	C6	C1	C2	C3	C4	C5	C6	C1	C2	C3	C4	C5	C6	C1	C2	C3	C4	C5	C6	C1	C2	C3	C4	C5	C6			
			60	40					40	60											40	40	20	40									100	80	60
73	813821106076	NIKILAN, S	30	21					36	16									15	18	0	37					57	57	15	15	18	0			
74	813821106077	NITHESVARAN, J B	20	23					26	45									25	15	0	38					58	49	45	25	15	0			
75	813821106078	NITHISH, S	50	21					27	46									36	34	10	40					90	48	48	36	34	10			
76	813821106079	NITHISH KUMAR, G	20	18					20	19									20	16	0	36					56	38	19	20	16	0			
77	813821106080	NIIVETHA, A	50	24					23	48									30	30	12	40					90	47	48	30	30	12			
78	813821106081	NIIVETHA, S	55	28					29	50									35	36	9	40					95	57	50	35	36	9			
79	813821106082	PRASANNA KUMAR, R	20	19					11	23									30	30	10	40					60	30	23	30	30	10			
80	813821106083	PRASHATHAN, V	30	20					33	20									20	18	0	40					70	53	20	20	18	0			
81	813821106084	PREMKUMAR, D	56	35					36	52									30	30	6	40					96	71	52	30	30	6			
82	813821106085	PRIYANKA, K	45	32					36	51									30	28	0	40					85	68	51	30	28	0			
83	813821106086	RAGHAVI, B	57	30					31	52									30	30	16	40					97	61	52	30	30	16			
84	813821106087	RAGUL, S	45	34					24	40									30	20	11	40					85	58	40	30	20	11			
85	813821106088	RAHUL, R	25	18					18	10									0	0	0	36					61	36	10	0	0	0			
86	813821106089	RAHUL KANNAN, K T	55	30					32	52									34	32	0	40					95	62	52	34	32	0			
87	813821106091	RANGARAJAA, V	55	35					32	54									38	40	0	40					95	67	54	38	40	0			
88	813821106092	RATHISH, S S	55	29					22	49									20	18	0	40					95	51	49	20	18	0			
89	813821106093	RAYYAN, J	45	25					28	41									0	0	0	40					85	53	41	0	0	0			
90	813821106094	ROHITH JOSHUA, M	25	20					18	32									8	4	0	40					65	38	32	8	4	0			
91	813821106095	SALOMAN CLIFFERD, J	54	34					33	53									36	36	20	40					94	67	53	36	36	20			
92	813821106096	SANA AZEEMAH, Y	55	27					32	49									30	24	10	40					95	59	49	30	24	10			
93	813821106097	SANJAY, C	25	21					16	34									26	16	0	40					65	37	34	26	16	0			
94	813821106098	SANJAY, D	44	28					30	36									30	24	0	40					84	58	36	30	24	0			
95	813821106099	SANTHOSHKUMAR, J	40	36					27	52									36	30	0	40					80	63	52	36	30	0			
96	813821106101	SATHIYAMOORTHY, M	28	23					20	42									20	16	0	40					68	43	42	20	16	0			
97	813821106102	SHAAM VARUNESH, K	54	32					26	50									38	37	18	40					94	58	50	38	37	18			
98	813821106103	SHAKTHI, G	40	18					34	22									10	14	0	40					80	52	22	10	14	0			
99	813821106104	SHANALIN, J	40	28					24	34									36	30	10	40					80	52	34	36	30	10			

S.NO	REG NO	NAME OF THE STUDENT	IAT-1 MARKS ALLOTTED						IAT-2 MARKS ALLOTTED						IAT-3 MARKS ALLOTTED						ASSIGNMENT						TOTAL COURSE OUTCOME					
			C1	C2	C3	C4	C5	C6	C1	C2	C3	C4	C5	C6	C1	C2	C3	C4	C5	C6	C1	C2	C3	C4	C5	C6	C1	C2	C3	C4	C5	C6
100	813821106105	SHARAN SRINIVAS, S S	60	40					40	60							40	40	20	40						100	80	60	40	40	20	
101	813821106106	SHARON, C	25	16					34	52							34	30	6	38						86	70	52	34	30	6	
102	813821106107	SHARVINA, V	55	30					36	54							25	27	0	40						65	38	36	30	27	0	
103	813821106108	SHIVAGURU, A	40	27					15	60							30	15	0	40						80	42	60	30	15	0	
104	813821106109	SHRINITHI, S K	55	38					24	55							35	38	17	40						95	62	55	35	38	17	
105	813821106110	SHYAM, K	50	29					29	39							25	25	14	40						90	58	39	25	25	14	
106	813821106111	SIVASAKTHI, S	50	23					32	50							35	25	0	40						90	55	50	35	25	0	
107	813821106112	SOMADEVA, M	55	38					22	48							25	25	6	40						95	60	48	25	25	6	
108	813821106113	SOWNYA, R	50	27					38	53							30	36	8	40						90	65	53	30	36	8	
109	813821106114	SRI SANTHOSH, T	55	36					30	52							0	0	0	40						95	66	52	0	0	0	
110	813821106115	SRI VARSHAN, R	35	20					18	44							20	11	0	40						75	38	44	20	11	0	
111	813821106116	SUBRAMANIAN, I	30	27					24	45							28	22	0	40						70	51	45	28	22	0	
112	813821106117	SUDARSHAN, R	50	28					18	34							35	32	7	39						89	46	34	35	32	7	
113	813821106118	SUDHARSANAN, R	50	37					28	51							30	35	13	40						90	65	51	30	35	13	
114	813821106119	SWETHA, S	52	37					32	44							35	25	0	40						92	69	44	35	25	0	
115	813821106120	THENMOZHI, M	55	29					38	56							36	34	10	40						95	67	56	36	34	10	
116	813821106121	UDAYA KUMAR, B	40	23					22	48							32	18	14	40						80	45	48	32	18	14	
117	813821106122	VIGNESH, J	35	29					24	44							28	14	0	40						75	53	44	28	14	0	
118	813821106123	VIGNESH, T C	6	4					6	0							02	0	0	30						36	10	0	2	0	0	
119	813821106124	YOGANAND, M S	45	34					24	40							30	20	5	40						85	58	40	30	20	5	
120	813821106125	YOGAVAITHEESHVARAN, S	56	30					40	58							38	38	18	40						96	70	58	38	38	18	
121	813821106126	YOGESH KUMAR, M	30	21					24	35							25	18	0	40						70	45	35	25	18	0	
122	813821106301	AGASTIN BERNANDO, K	30	36					24	52							18	16	0	40						70	60	52	18	16	0	
123	813821106302	AKASH, R	28	38					32	44							32	12	10	40						68	70	44	32	12	10	
124	813821106303	HARI RAM, V	42	36					27	51							16	14	2	36						78	63	51	16	14	2	
125	813821106304	LALITH KUMAR, S	30	20					30	23							26	24	0	38						68	50	23	26	24	0	
126	813821106305	PREM KUMAR, V	40	40					34	54							0	0	0	40						80	74	54	0	0	0	
CO's Target Value																											65.00	52.00	39.00	26.00	26.00	13.00
No. of Student Secured above CO's Target value																											113	92	96	87	67	25
Percentage of Student Secured above Target																											89.68	73.02	76.19	69.05	53.17	19.84

1. MC (M. PADMAA)

2. 2/2/23 (J. EINDHUMATHY)

H. Sng

HOD/EC

Outcome

SARANATHAN COLLEGE OF ENGINEERING, Tiruchirappalli - 620012

Department of B.E. Electronics and Communication Engineering

COURSE OUTCOME ATTAINMENT - UNIVERSITY EXAMINATION

Academic Period 2022 - 2023 / EVEN Semester			
COURSE CODE/TITLE	LINEAR INTEGRATED CIRCUITS	Batch	2021 - 2025
CO Attainment Level: 1 - (0% - 60%) 2 - (61%-89%) 3-(90% and Above)			

S.NO	REG. NO.	NAME OF THE STUDENT	GRADE
1	813821106001	ABICA JENUS. A	A
2	813821106002	ABINAYA. S	A
3	813821106003	AGALYAA. S	B+
4	813821106004	AHARINI. G	A
5	813821106006	AKSHAYA SARAVANAN	B+
6	813821106007	ANANDHA VADHANI. M	B+
7	813821106008	ANESH LURA. S	A+
8	813821106009	ANIT ADITHYA. A	U
9	813821106010	ARCHANA. S	B+
10	813821106011	ASWATHI. A S	B+
11	813821106012	ATHISH PRANAV. M	U
12	813821106013	BALAJI. S D	U
13	813821106014	BALAMURUGAN. S	A
14	813821106015	BHARANI DHARAN. K	B+
15	813821106016	BIOSHINI ELIZABETH. V	B+
16	813821106017	CHANDRASEKAR. C	U
17	813821106018	CLARANCE NIRMAL. I	B+
18	813821106019	DEVISRI. K	U
19	813821106021	DHANYA. S G	B+
20	813821106022	DHEVASENA. K	B+
21	813821106023	DIVAKARAN. J	B+
22	813821106024	DOMINIC FERDINAND. A	U
23	813821106025	EDRIK ARUL RAJ. A	U
24	813821106026	GANESAN. R	U
25	813821106027	GANESH. S	B
26	813821106028	GANGA GAYATHRI. R	B+

S.NO	REG. NO.	NAME OF THE STUDENT	GRADE
27	813821106029	GAYATHIRI. P	B+
28	813821106030	GLADY FAUSTINA. A	A
29	813821106031	GNANASAMBANDAN. S R	B+
30	813821106032	GRUBAKAR. R	B
31	813821106033	GRUZ ANDREWS. R	B
32	813821106034	GUNALAN. A	B
33	813821106035	GUNASEKAR. E	B+
34	813821106036	GURU VENKATESH. S	A
35	813821106037	HAREESH VENKADESH. M	A
36	813821106038	HARIKRISHNAN. E	B
37	813821106039	HARIKRISHNAN. S	A
38	813821106040	HARINISHRI. T	U
39	813821106041	HARI PRIYA. S	B+
40	813821106042	HARISH. D	U
41	813821106043	HARISH. P	U
42	813821106044	HARISH. R	B+
43	813821106045	HEMAVARSHINI. S	B+
44	813821106046	ILLAKIYA. S	B+
45	813821106047	ISHAQ. S	B+
46	813821106048	JAYA HARINI. K	B+
47	813821106049	JAYASURIYA. P	B+
48	813821106050	JEFFRIN VALENTINA. R S	A
49	813821106052	JOTHISWAR. B A	U
50	813821106053	KANIHAA. R	B+
51	813821106054	KANMANI. K	A
52	813821106055	KANTHAN MARAN. S	B+
53	813821106056	KARTHIKA. K	B+

Outcome

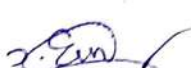
S.NO	REG. NO.	NAME OF THE STUDENT	GRADE
54	813821106057	KASTHURI RENGAN. S	A
55	813821106058	KAVYA. G	B+
56	813821106059	KAVYAH. G	A
57	813821106060	KIRAN. T	B+
58	813821106061	KRITHIKA. R	
59	813821106062	LOGESH. R	A
60	813821106063	LOGESVARAN. N	B+
61	813821106064	MANIKANDAN. K	A
62	813821106065	MANJARI. K	A
63	813821106066	MANOJ. S	B+
64	813821106067	MANOJ MANI. N	A
65	813821106068	MEENASHREE. A	O
66	813821106069	MOHAMED AHIL. A	A
67	813821106070	MOHAMED SAJFUDDIN. M	B+
68	813821106071	MUTHAMIL. S	A
69	813821106072	MUTHU. T	B+
70	813821106073	MUTHULAKSHMI. G	B+
71	813821106074	NANDHA KUMARAN. S	U
72	813821106075	NAVEENA KRISHNAN. R G	B+
73	813821106076	NIKILAN. S	U
74	813821106077	NITHEESVARAN. J B	B+
75	813821106078	NITHISH. S	A
76	813821106079	NITHISH KUMAR. G	B
77	813821106080	NIVETHA. A	B
78	813821106081	NIVETHA. S	B+
79	813821106082	PRASANNA KUMAR. R	B
80	813821106083	PRASHATHAN. V	B

S.NO	REG NO	NAME OF THE STUDENT	GRADE
81	B13B21106084	PRIYANSHU C	B+
82	B13B21106085	PRIYANSHU K	A
83	B13B21106086	PRIYANSHU S	A+
84	B13B21106087	PRIYANSHU S	B+
85	B13B21106088	PRIYANSHU S	U
86	B13B21106089	PRIYANSHU S	B+
87	B13B21106090	PRIYANSHU S	A
88	B13B21106091	PRIYANSHU S	B+
89	B13B21106092	PRIYANSHU S	B+
90	B13B21106093	PRIYANSHU S	B+
91	B13B21106094	PRIYANSHU S	B
92	B13B21106095	PRIYANSHU S	A+
93	B13B21106096	PRIYANSHU S	A+
94	B13B21106097	PRIYANSHU S	B+
95	B13B21106098	PRIYANSHU S	A
96	B13B21106099	PRIYANSHU S	A+
97	B13B21106100	PRIYANSHU S	B
98	B13B21106101	PRIYANSHU S	B
99	B13B21106102	PRIYANSHU S	B
100	B13B21106103	PRIYANSHU S	B
101	B13B21106104	PRIYANSHU S	B
102	B13B21106105	PRIYANSHU S	B
103	B13B21106106	PRIYANSHU S	B
104	B13B21106107	PRIYANSHU S	B
105	B13B21106108	PRIYANSHU S	B
106	B13B21106109	PRIYANSHU S	B
107	B13B21106110	PRIYANSHU S	B

Outcome

S.NO	REG. NO.	NAME OF THE STUDENT	GRADE
108	813821106113	SOWMYA, R	B+
109	813821106114	SRI SANTHOSH, T	A
110	813821106115	SRI VARSHAN, R	B+
111	813821106116	SUBRAMANIAN, I	B+
112	813821106117	SUDARSHAN, R	B+
113	813821106118	SUBHARSHAN, R	A+
114	813821106119	SWETHA, S	B+
115	813821106120	THENMOZHI, M	A
116	813821106121	UDAYA KUMAR, B	B+
117	813821106122	VIGNESH, J	B+
118	813821106123	VIGNESH, T C	U
119	813821106124	YOGANAND, M S	B+
120	813821106125	YOGAVATHI EESHVARAN, S	A+
121	813821106126	YOGESH KUMAR, M	B+
122	813821106301	AGASTIN BERNARDO, K	U
123	813821106302	AKASH, R	U
124	813821106303	HARI RAM, V	B+
125	813821106304	LALITH KUMAR, S	U
126	813821106305	PREM KUMAR, V	U
No. of S/O Grade			3
No. of A/A+ Grade			24
No. of B/A Grade			12
No. of C/B+ Grade			0
No. of D/B Grade			0
No. of E/B Grade			0
Target for course outcome Attainment			65
No of students above the target			39
CO-Attainment University			30.00

1.  (M. PADMAA)

2.  (J. HANDUMATHY)


HOD/ECE

SARANATHAN COLLEGE OF ENGINEERING, Tiruchirappalli - 620012
 Programme: **B.E. Electronics and Communication Engineering**
 Overall Attainment Sheet - POs & PSOs attainment calculation
 Academic Year : 2022-23EVEN

COURSE CODE/TITLE: **EC3451 LINEAR INTEGRATED CIRCUITS**, COURSE COORDINATOR: **Ms.J. Eindhmathy / Or.M. Padmaa** Batch: 2021 - 2025 Sem: 4 CO
 Attainment Levels: 1 - (0% - 60%) 2 - (61%-89%) 3 - (90% and Above)

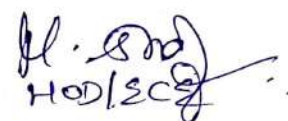
CO	CO-Attainment Internal (CO-INT) (Avg. Attainment of All section) (%)	CO-Attainment University (CO-UNI) (Avg. Attainment of All section) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI) (%)	Indirect CO Attainment (Course End Survey)	Over all CO Attainment (0.8xDirect + 0.2xIndirect) (%)	Over all CO Attainment Level
C212.1	89.68	30.00	53.87	0.00	43.10	1
C212.2	73.02	30.00	47.21	0.00	37.77	1
C212.3	76.19	30.00	48.48	0.00	38.78	1
C212.4	69.05	30.00	45.62	0.00	36.50	1
C212.5	53.17	30.00	39.27	0.00	31.42	1
C212.6	19.84	30.00	25.94	0.00	20.75	1

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C212.1	2	2	2	2	2	2					2	2	2	2	
C212.2	2	2	2	2	2	2					2	2	2	2	
C212.3	2	2	2	2	2	2					2	2	2	2	
C212.4	2	2	2	2	2	2					2	2	2	2	
C212.5	2	2	2	2	2	2					2	2	2	2	
C212.6	2	2	2	2	2	2					2	2	2	2	
C212	2.00	2.00	2.00	2.00	2.00	2.00					2.00	2.00	2.00	2.00	

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C212.1	0.67	0.67	0.67	0.67	0.67	0.67					0.67	0.67	0.67	0.67	
C212.2	0.67	0.67	0.67	0.67	0.67	0.67					0.67	0.67	0.67	0.67	
C212.3	0.67	0.67	0.67	0.67	0.67	0.67					0.67	0.67	0.67	0.67	
C212.4	0.67	0.67	0.67	0.67	0.67	0.67					0.67	0.67	0.67	0.67	
C212.5	0.67	0.67	0.67	0.67	0.67	0.67					0.67	0.67	0.67	0.67	
C212.6	0.67	0.67	0.67	0.67	0.67	0.67					0.67	0.67	0.67	0.67	
C212	0.67	0.67	0.67	0.67	0.67	0.67					0.67	0.67	0.67	0.67	

1.  (M. PADMAA)

2.  (J. EINDHMATHY)


 HOD/ECG



**Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report**

Academic Year : **2022-23** EVEN Semester : **4** Programme: **B.E/B.Tech (ECE)**
Subject Code : **EC3451** NBA Code : **C212** Title **LINEAR INTEGRATED CIRCUITS**
Faculty: Ms.J.Eindhmathy / Dr.M.Padmaa

Cos	CO Description	Attained Level	%
C212.1	Analyze the basic building blocks, AC and DC characteristics of linear integrated circuits	2.52	84.00
C212.2	Design linear and nonlinear applications of OP $\hat{u}$ AMPS	2.6	86.67
C212.3	Design applications using analog multiplier and PLL	2.56	85.33
C212.4	Design ADC and DAC using OP $\hat{u}$ AMPS	2.5	83.33
C212.5	Generate waveforms using OP $\hat{u}$ AMP Circuits	2.47	82.33
C212.6	Analyze Special function ICs	2.58	86.00

Course Exit Survey - Data Entry Details

No.of Students Participated in the survey: 126

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
242001	EC3451	2	3	3	3	3	2	20/09/2023	ECE	4
242002	EC3451	2	2	3	3	3	2	20/09/2023	ECE	4
242003	EC3451	3	3	3	3	2	3	20/09/2023	ECE	4
242004	EC3451	2	3	3	2	2	3	20/09/2023	ECE	4
242006	EC3451	3	2	2	2	3	3	20/09/2023	ECE	4
242007	EC3451	3	3	2	3	2	3	20/09/2023	ECE	4
242008	EC3451	3	3	2	3	2	2	20/09/2023	ECE	4
242009	EC3451	3	2	3	3	3	2	20/09/2023	ECE	4
242010	EC3451	3	3	2	2	2	3	20/09/2023	ECE	4
242011	EC3451	3	2	2	2	2	3	20/09/2023	ECE	4
242012	EC3451	2	3	3	2	2	2	20/09/2023	ECE	4
242013	EC3451	2	3	3	3	3	2	20/09/2023	ECE	4
242014	EC3451	2	3	3	3	2	2	20/09/2023	ECE	4
242015	EC3451	2	3	2	3	3	3	20/09/2023	ECE	4
242016	EC3451	3	3	2	2	3	3	20/09/2023	ECE	4
242017	EC3451	3	2	2	2	3	3	20/09/2023	ECE	4
242018	EC3451	3	3	3	2	3	3	20/09/2023	ECE	4
242019	EC3451	3	3	3	2	2	2	20/09/2023	ECE	4
242020	EC3451	2	3	3	2	2	2	20/09/2023	ECE	4
242021	EC3451	2	3	2	3	3	2	20/09/2023	ECE	4
242022	EC3451	2	3	3	2	2	3	20/09/2023	ECE	4
242023	EC3451	2	3	2	3	3	3	20/09/2023	ECE	4

242024	EC3451	2	3	2	3	2	3	20/09/2023	ECE	4
242025	EC3451	3	2	2	3	3	3	20/09/2023	ECE	4
242026	EC3451	3	3	2	3	2	3	20/09/2023	ECE	4
242027	EC3451	3	3	2	2	2	2	20/09/2023	ECE	4
242028	EC3451	2	3	3	3	3	3	20/09/2023	ECE	4
242029	EC3451	2	3	3	2	2	2	20/09/2023	ECE	4
242030	EC3451	3	2	2	3	3	2	20/09/2023	ECE	4
242032	EC3451	2	3	2	3	3	3	20/09/2023	ECE	4
242033	EC3451	2	3	3	3	3	2	20/09/2023	ECE	4
242034	EC3451	2	3	2	2	3	3	20/09/2023	ECE	4
242035	EC3451	3	3	3	3	3	3	20/09/2023	ECE	4
242036	EC3451	2	3	2	2	3	3	20/09/2023	ECE	4
242037	EC3451	3	3	3	3	3	2	20/09/2023	ECE	4
242038	EC3451	3	3	3	2	2	3	20/09/2023	ECE	4
242039	EC3451	2	2	2	3	2	3	20/09/2023	ECE	4
242040	EC3451	2	3	2	3	3	3	20/09/2023	ECE	4
242041	EC3451	2	2	2	3	3	2	20/09/2023	ECE	4
242042	EC3451	2	2	3	2	2	3	20/09/2023	ECE	4
242043	EC3451	2	3	2	3	2	2	20/09/2023	ECE	4
242044	EC3451	3	3	2	3	3	3	20/09/2023	ECE	4
242045	EC3451	3	2	2	2	2	2	20/09/2023	ECE	4
242046	EC3451	2	3	2	2	2	3	20/09/2023	ECE	4
242047	EC3451	3	2	3	2	3	3	20/09/2023	ECE	4
242048	EC3451	3	2	2	2	3	3	20/09/2023	ECE	4
242049	EC3451	2	3	2	2	3	3	20/09/2023	ECE	4
242050	EC3451	2	3	2	3	3	2	20/09/2023	ECE	4
242052	EC3451	3	3	3	3	2	2	20/09/2023	ECE	4
242053	EC3451	3	3	2	2	2	2	20/09/2023	ECE	4
242054	EC3451	3	2	3	2	2	3	20/09/2023	ECE	4
242055	EC3451	2	3	3	2	2	3	20/09/2023	ECE	4
242056	EC3451	3	3	3	2	3	2	20/09/2023	ECE	4
242057	EC3451	3	2	2	3	2	2	20/09/2023	ECE	4
242058	EC3451	2	2	2	3	2	2	20/09/2023	ECE	4
242059	EC3451	3	2	3	2	3	2	20/09/2023	ECE	4
242062	EC3451	3	3	3	2	2	2	20/09/2023	ECE	4
242063	EC3451	3	3	3	3	2	2	20/09/2023	ECE	4
242064	EC3451	2	2	3	3	2	2	20/09/2023	ECE	4
242065	EC3451	2	3	3	2	2	2	20/09/2023	ECE	4
242066	EC3451	3	2	2	3	2	2	20/09/2023	ECE	4
242067	EC3451	3	2	3	3	2	3	20/09/2023	ECE	4

242068	EC3451	3	3	3	3	2	2	20/09/2023	ECE	4
242069	EC3451	2	2	3	3	3	2	20/09/2023	ECE	4
242070	EC3451	3	3	3	2	2	2	20/09/2023	ECE	4
242071	EC3451	3	3	3	2	2	3	20/09/2023	ECE	4
242072	EC3451	3	2	3	2	3	3	20/09/2023	ECE	4
242073	EC3451	2	3	3	2	3	3	20/09/2023	ECE	4
242074	EC3451	2	3	3	3	2	3	20/09/2023	ECE	4
242075	EC3451	2	3	3	2	3	3	20/09/2023	ECE	4
242076	EC3451	2	2	3	3	2	2	20/09/2023	ECE	4
242077	EC3451	3	2	2	2	2	3	20/09/2023	ECE	4
242078	EC3451	3	2	3	2	2	2	20/09/2023	ECE	4
242079	EC3451	2	3	2	3	3	3	20/09/2023	ECE	4
242080	EC3451	3	3	2	3	2	3	20/09/2023	ECE	4
242081	EC3451	3	2	3	2	3	3	20/09/2023	ECE	4
242082	EC3451	3	3	2	3	3	3	20/09/2023	ECE	4
242083	EC3451	3	2	3	3	3	2	20/09/2023	ECE	4
242084	EC3451	3	2	3	2	3	3	20/09/2023	ECE	4
242085	EC3451	2	2	2	3	2	2	20/09/2023	ECE	4
242086	EC3451	2	3	3	2	3	3	20/09/2023	ECE	4
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242088	EC3451	3	3	2	2	2	3	20/09/2023	ECE	4
242089	EC3451	2	3	2	3	2	2	20/09/2023	ECE	4
242090	EC3451	3	2	3	2	2	2	20/09/2023	ECE	4
242091	EC3451	2	3	3	3	2	2	20/09/2023	ECE	4
242092	EC3451	2	2	3	3	2	3	20/09/2023	ECE	4
242093	EC3451	2	2	2	3	2	2	20/09/2023	ECE	4
242094	EC3451	3	3	2	2	3	2	20/09/2023	ECE	4
242095	EC3451	3	3	3	2	2	2	20/09/2023	ECE	4
242096	EC3451	3	3	3	3	3	2	20/09/2023	ECE	4
242097	EC3451	3	3	2	3	3	3	20/09/2023	ECE	4
242098	EC3451	3	2	3	2	2	3	20/09/2023	ECE	4
242099	EC3451	2	2	3	3	2	3	20/09/2023	ECE	4
242101	EC3451	3	3	3	2	3	3	20/09/2023	ECE	4
242102	EC3451	2	2	2	2	2	2	20/09/2023	ECE	4
242103	EC3451	2	2	2	2	2	2	20/09/2023	ECE	4
242104	EC3451	3	2	3	3	2	3	20/09/2023	ECE	4
242105	EC3451	3	3	2	3	3	3	20/09/2023	ECE	4
242106	EC3451	3	2	3	2	3	3	20/09/2023	ECE	4
242107	EC3451	2	2	2	2	2	3	20/09/2023	ECE	4
242108	EC3451	3	2	2	3	2	3	20/09/2023	ECE	4

242109	EC3451	3	3	3	3	3	3	20/09/2023	ECE	4
242110	EC3451	3	2	3	2	2	3	20/09/2023	ECE	4
242111	EC3451	3	2	3	3	3	2	20/09/2023	ECE	4
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242113	EC3451	2	2	2	2	3	2	20/09/2023	ECE	4
242114	EC3451	2	3	3	3	3	2	20/09/2023	ECE	4
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242117	EC3451	2	2	3	3	3	3	20/09/2023	ECE	4
242118	EC3451	2	3	2	2	2	2	20/09/2023	ECE	4
242119	EC3451	2	2	2	2	2	3	20/09/2023	ECE	4
242120	EC3451	2	2	3	2	2	2	20/09/2023	ECE	4
242121	EC3451	2	2	3	3	3	3	20/09/2023	ECE	4
242122	EC3451	3	2	3	2	2	3	20/09/2023	ECE	4
242123	EC3451	2	3	3	3	2	3	20/09/2023	ECE	4
242124	EC3451	3	3	3	3	3	3	20/09/2023	ECE	4
242125	EC3451	3	3	3	2	3	3	20/09/2023	ECE	4
242126	EC3451	2	3	3	2	3	3	20/09/2023	ECE	4
242127	EC3451	3	2	2	2	3	3	20/09/2023	ECE	4
242128	EC3451	2	2	2	2	3	3	20/09/2023	ECE	4
242129	EC3451	2	2	2	3	3	3	20/09/2023	ECE	4
242130	EC3451	2	3	3	2	3	3	20/09/2023	ECE	4
242131	EC3451	2	3	3	3	2	3	20/09/2023	ECE	4
242132	EC3451	2	3	2	3	2	2	20/09/2023	ECE	4
Attained Level		2.52	2.6	2.56	2.5	2.47	2.58			
%		84.00	86.67	85.33	83.33	82.33	86.00			





HOD/ECE

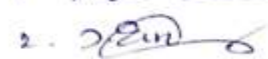
SARANATHAN COLLEGE OF ENGINEERING, Tiruchirappalli - 620012																		
Department of ECE																		
COURSE OUTCOME DIRECT MEASUREMENT - Laboratory Course																		
ACADEMIC YEAR : 2022-2023																		
COURSE CODE: EC3462			BATCH: 2021-2025															
COURSE TITLE : LINEAR INTEGRATED CIRCUITS LAB			YEAR/SEM: II/IV															
FACULTY INCHARGE: Dr.M.PADMAA, J.EINDHUMATHY			CLASS/SEC: II ECE A & B															
ATTAINMENT LEVEL: Level 1: 0 - 69% of the students scored more than target Level 2: 70 - 79% of the students scored more than target Level 3: 80 - 100% of the students scored more than target			TOTAL STRENGTH															125
			Target (%)															80
S.No	AU Reg. No.	Name of the Student	Experiment No															Final
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Mark
1	813821106001	ABICA JENUS. A	95	92.5	100	92.5	100	92.5	97.5	97.5	90	97.5	97.5	92.5	95	92.5	95	96
2	813821106002	ABINAYA. S	95	92.5	100	92.5	100	92.5	97.5	97.5	90	97.5	97.5	92.5	95	92.5	95	96
3	813821106003	AGALYAA. S	95	92.5	100	92.5	100	92.5	97.5	97.5	90	97.5	97.5	92.5	95	92.5	95	95
4	813821106004	AHARINI. G	95	92.5	100	92.5	100	92.5	97.5	97.5	90	97.5	97.5	92.5	95	92.5	95	95
5	813821106006	AKSHAYA SARAVANAN	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
6	813821106007	ANANDHA VADHANI. M	95	92.5	100	92.5	100	92.5	97.5	97.5	90	97.5	97.5	92.5	95	92.5	95	95
7	813821106008	ANIESH LURA. S	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
8	813821106009	ANIT ADITHYA. A	95	92.5	100	92.5	100	92.5	97.5	97.5	90	97.5	97.5	92.5	95	92.5	95	95
9	813821106010	ARCHANA. S	95	92.5	100	92.5	100	92.5	97.5	97.5	90	97.5	97.5	92.5	95	92.5	95	95
10	813821106011	ASWATHI. A S	95	92.5	100	92.5	100	92.5	97.5	97.5	90	97.5	97.5	92.5	95	92.5	95	95
11	813821106012	ATHISH PRANAV. M	95	92.5	100	92.5	100	92.5	97.5	97.5	90	97.5	97.5	92.5	95	92.5	95	95
12	813821106013	BALAJI. S D	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	99
13	813821106014	BALAMURUGAN. S	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
14	813821106015	BHARANI DHARAN. K	95	92.5	100	92.5	100	92.5	97.5	97.5	90	97.5	97.5	92.5	95	92.5	95	95

15	813821106016	BIOSHINI ELIZABETH. V	95	92.5	100	92.5	100	92.5	97.5	97.5	90	97.5	97.5	92.5	95	92.5	95	95
16	813821106017	CHANDRASEKAR. C	95	92.5	100	92.5	100	92.5	97.5	97.5	90	97.5	97.5	92.5	95	92.5	95	95
17	813821106018	CLARANCE NIRMAL. I	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
18	813821106019	DEVISRI. K	95	92.5	100	92.5	100	92.5	97.5	97.5	90	97.5	97.5	92.5	95	92.5	95	95
19	813821106021	DHANYA. S G	95	92.5	100	92.5	100	92.5	97.5	97.5	90	97.5	97.5	92.5	95	92.5	95	96
20	813821106022	DHEVASENA. K	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	98
21	813821106023	DIVAKARAN. J	95	92.5	100	92.5	100	92.5	97.5	97.5	90	97.5	97.5	92.5	95	92.5	95	95
22	813821106024	DOMINIC FERDINAND. A	95	92.5	100	92.5	100	92.5	97.5	97.5	90	97.5	97.5	92.5	95	92.5	95	95
23	813821106025	EDRIK ARUL RAJ. A	95	92.5	100	92.5	100	92.5	97.5	97.5	90	97.5	97.5	92.5	95	92.5	95	95
24	813821106026	GANESAN. R	95	92.5	100	92.5	100	92.5	97.5	97.5	90	97.5	97.5	92.5	95	92.5	95	95
25	813821106027	GANESH. S	95	92.5	100	92.5	100	92.5	97.5	97.5	90	97.5	97.5	92.5	95	92.5	95	95
26	813821106028	GANGA GAYATHRI. R	95	92.5	100	92.5	100	92.5	97.5	97.5	90	97.5	97.5	92.5	95	92.5	95	95
27	813821106029	GAYATHIRI. P	95	92.5	100	92.5	100	92.5	97.5	97.5	90	97.5	97.5	92.5	95	92.5	95	96
28	813821106030	GLADY FAUSTINA. A	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	98
29	813821106031	GNANASAMBANDAN. S R	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	98
30	813821106032	GRUBAKAR. R	95	92.5	100	92.5	100	92.5	97.5	97.5	90	97.5	97.5	92.5	95	92.5	95	95
31	813821106033	GRUZ ANDREWS. R	95	92.5	100	92.5	100	92.5	97.5	97.5	90	97.5	97.5	92.5	95	92.5	95	95
32	813821106034	GUNALAN. A	95	92.5	100	92.5	100	92.5	97.5	97.5	90	97.5	97.5	92.5	95	92.5	95	95
33	813821106035	GUNASEKAR. E	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
34	813821106036	GURU VENKATESH. S	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
35	813821106037	HAREESH VENKADESH. M	95	92.5	100	92.5	100	92.5	97.5	97.5	90	97.5	97.5	92.5	95	92.5	95	95
36	813821106041	HARI PRIYA. S	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	98
37	813821106038	HARIKRISHNAN. E	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
38	813821106039	HARIKRISHNAN. S	95	92.5	100	92.5	100	92.5	97.5	97.5	90	97.5	97.5	92.5	95	92.5	95	95
39	813821106040	HARINISHRI. T	95	92.5	100	92.5	100	92.5	97.5	97.5	90	97.5	97.5	92.5	95	92.5	95	95
40	813821106042	HARISH. D	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
41	813821106043	HARISH. P	95	92.5	100	92.5	100	92.5	97.5	97.5	90	97.5	97.5	92.5	95	92.5	95	97
42	813821106044	HARISH. R	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
43	813821106045	HEMAVARSHINI. S	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	98
44	813821106046	ILLAKIYA. S	95	92.5	100	92.5	100	92.5	97.5	97.5	90	97.5	97.5	92.5	95	92.5	95	95

45	813821106047	ISHAQ. S	95	92.5	100	92.5	100	92.5	97.5	97.5	90	97.5	97.5	92.5	95	92.5	95	95
46	813821106048	JAYA HARINI. K	95	92.5	100	92.5	100	92.5	97.5	97.5	90	97.5	97.5	92.5	95	92.5	95	95
47	813821106049	JAYASURIYA. P	95	92.5	100	92.5	100	92.5	97.5	97.5	90	97.5	97.5	92.5	95	92.5	95	96
48	813821106050	JEFFRIN VALENTINA. R S	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
49	813821106052	JOTHISWAR. B A	95	92.5	100	92.5	100	92.5	97.5	97.5	90	97.5	97.5	92.5	95	92.5	95	95
50	813821106053	KANIHAA. R	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	98
51	813821106054	KANMANI. K	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	98
52	813821106055	KANTHAN MARAN. S	95	92.5	100	92.5	100	92.5	97.5	97.5	90	97.5	97.5	92.5	95	92.5	95	95
53	813821106056	KARTHIKA. K	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	98
54	813821106057	KASTHURI RENGAN. S	95	92.5	100	92.5	100	92.5	97.5	97.5	90	97.5	97.5	92.5	95	92.5	95	97
55	813821106058	KAVYA. G	95	92.5	100	92.5	100	92.5	97.5	97.5	90	97.5	97.5	92.5	95	92.5	95	96
56	813821106059	KAVYAH. G	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
57	813821106060	KIRAN. T	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
58	813821106105	SHARAN SRINIVAS. S S	95	92.5	100	92.5	100	92.5	97.5	97.5	90	97.5	97.5	92.5	95	92.5	95	95
59	813821106301	AGASTIN BERNANDO. K	95	92.5	100	92.5	100	92.5	97.5	97.5	90	97.5	97.5	92.5	95	92.5	95	95
60	813821106303	HARI RAM. V	95	92.5	100	92.5	100	92.5	97.5	97.5	90	97.5	97.5	92.5	95	92.5	95	95
61	813821106305	PREM KUMAR. V	95	92.5	100	92.5	100	92.5	97.5	97.5	90	97.5	97.5	92.5	95	92.5	95	95
62	813821106302	AKASH. R	95	92.5	100	92.5	100	92.5	97.5	97.5	90	97.5	97.5	92.5	95	92.5	95	95
63	813821106062	LOGESH. R	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
64	813821106063	LOGESVARAN. N	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	98
65	813821106064	MANIKANDAN. K	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
66	813821106065	MANJARI. K	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
67	813821106067	MANOJ MANI. N	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
68	813821106066	MANOJ. S	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	98
69	813821106068	MEENASHREE. A	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
70	813821106069	MOHAMED AHIL. A	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	98
71	813821106070	MOHAMED SAIFUDDIN. M	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
72	813821106071	MUTHAMIL. S	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
73	813821106072	MUTHU. T	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
74	813821106073	MUTHULAKSHMI. G	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100

75	813821106074	NANDHA KUMARAN. S	95	92.5	100	92.5	100	92.5	97.5	97.5	90	97.5	97.5	92.5	95	92.5	95	95
76	813821106075	NAVEENA KRISHNAN. R G	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	98
77	813821106076	NIKILAN. S	95	92.5	100	92.5	100	92.5	97.5	97.5	90	97.5	97.5	92.5	95	92.5	95	97
78	813821106077	NITHEESVARAN. J B	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	98
79	813821106079	NITHISH KUMAR. G	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	98
80	813821106078	NITHISH. S	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
81	813821106080	NIVETHA. A	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
82	813821106081	NIVETHA. S	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
83	813821106082	PRASANNA KUMAR. R	95	92.5	100	92.5	100	92.5	97.5	97.5	90	97.5	97.5	92.5	95	92.5	95	95
84	813821106083	PRASHATHAN. V	95	92.5	100	92.5	100	92.5	97.5	97.5	90	97.5	97.5	92.5	95	92.5	95	97
85	813821106084	PREMKUMAR. D	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
86	813821106085	PRIYANKA. K	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	99
87	813821106086	RAGHAVI. B	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
88	813821106087	RAGUL. S	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
89	813821106089	RAHUL KANNAN. K T	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	99
90	813821106088	RAHUL. R	95	92.5	100	92.5	100	92.5	97.5	97.5	90	97.5	97.5	92.5	95	92.5	95	95
91	813821106091	RANGARAJAA. V	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
92	813821106092	RATHISH. S S	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
93	813821106093	RAYYAN. J	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
94	813821106094	ROHITH JOSHUA. M	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	98
95	813821106095	SALOMAN CLIFFERD. J	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
96	813821106096	SANA AZEEMAH. Y	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
97	813821106097	SANJAY. C	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	98
98	813821106098	SANJAY. D	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	98
99	813821106101	SATHIYAMOORTHY. M	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	98
100	813821106102	SHAAM VARUNESH. K	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
101	813821106103	SHAKTHI. G	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	99
102	813821106104	SHANALIN. J	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
103	813821106106	SHARON. C	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	98
104	813821106107	SHARVINA. V	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100

105	813821106108	SHIVAGURU. A	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
106	813821106109	SHRINITHI. S K	95	92.5	100	92.5	100	92.5	97.5	97.5	90	97.5	97.5	92.5	95	92.5	95	97	97
107	813821106110	SHYAM. K	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
108	813821106111	SIVASAKTHI. S	95	92.5	100	92.5	100	92.5	97.5	97.5	90	97.5	97.5	92.5	95	92.5	95	95	95
109	813821106112	SOMADEVAA. M	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
110	813821106113	SOWMYA. R	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	98
111	813821106114	SRI SANTHOSH. T	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
112	813821106115	SRI VARSHAN. R	95	92.5	100	92.5	100	92.5	97.5	97.5	90	97.5	97.5	92.5	95	92.5	95	97	97
113	813821106116	SUBRAMANIAN. I	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
114	813821106117	SUDARSHAN. R	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	98
115	813821106118	SUDHARSANAN. R	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
116	813821106119	SWETHA. S	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	98
117	813821106120	THENMOZHI. M	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
118	813821106121	UDAYA KUMAR. B	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
119	813821106122	VIGNESH. J	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
120	813821106123	VIGNESH. T C	85	82.5	100	82.5	100	82.5	97.5	97.5	85	82.5	97.5	87.5	90	87.5	90	90	90
121	813821106124	YOGANAND. M S	95	92.5	100	92.5	100	92.5	97.5	97.5	90	97.5	97.5	92.5	95	92.5	95	97	97
122	813821106125	YOGAVAITHEESHVARAN. S	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
123	813821106126	YOGESH KUMAR. M	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	99
124	813821106099	SANTHOSHKUMAR. J	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
125	813821106304	LALITH KUMAR. S	95	92.5	100	92.5	100	92.5	97.5	97.5	90	97.5	97.5	92.5	95	92.5	95	96	96
No. of Students scored above Target Value			125	125	125	125	125	125	125	125	125	125	125	125	125	125	125		
Percentage of Students scored above Target			100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
Level			3	3	3	3	3	3	3	3	3	3	3	3	3	3	3		

1.  (M. PADMAA)
2.  (J. EENDHUMATHY)


HOD/CE

[illegible]

[illegible]

124	813821106099	5.0	5.0	5.0	5.0	20.0	5.0	5.0	5.0	5.0	20.0	5.0	5.0	5.0	5.0	20.0	5.0	5.0	5.0	5.0	20.0	5.0	5.0	5.0	5.0	20.0	5.0	5.0	5.0	5.0	20.0	5.0	5.0	5.0	5.0	20.0
125	813821106304	5.0	5.0	5.0	4.0	19.0	5.0	4.5	5.0	4.0	18.5	5.0	5.0	5.0	5.0	20.0	5.0	5.0	4.5	4.0	18.5	5.0	5.0	5.0	5.0	20.0	5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5
Average		19.6					19.4					20.0					19.4					20.0					19.4					19.8				

1. HL  (M. PADMAA)
2.  C.J. EINHUMBERTH

H. 
HOD

AR : 2022-2023 BATCH: 2021-2025 FACULTY INCHARGE: Dr.M.PADMAA, J.EINDHUMATHY Year/Sem: II /IV

[illegible]

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SARANATHAN COLLEGE OF ENGINEERING, Tiruchirappalli - 620012

DEPARTMENT OF ECE

COURSE OUTCOME ATTAINMENT - UNIVERSITY EXAMINATION

ACADEMIC YEAR : 2022 - 2023 EVEN SEM

CLASS /SEC: II ECE / A&B

Batch:2021-2025

SUBJECT : C217 / LINEAR INTEGRATED CIRCUITS LAB EC3462

CO Attainment Level: 1 - (0% - 69%) 2- (70%-79%) 3-(80% and Above)

S.NO	Register No	NAME	EC3462
1	813821106001	ABICA JENUS A	O
2	813821106002	ABINAYA S	O
3	813821106003	AGALYAA S	A+
4	813821106004	AHARINI G	A+
5	813821106006	AKSHAYA SARAVANAN	O
6	813821106007	ANANDHA VADHANI M	O
7	813821106008	ANIESH LURA S	O
8	813821106009	ANIT ADITHYA A	A+
9	813821106010	ARCHANA S	A+
10	813821106011	ASWATHI A S	A+
11	813821106012	ATHISH PRANAV M	O
12	813821106013	BALAJI S D	O
13	813821106014	BALAMURUGAN S	O
14	813821106015	BHARANI DHARAN K	O
15	813821106016	BIOSHINI ELIZABETH V	O
16	813821106017	CHANDRASEKAR C	A+

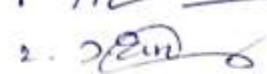
17	813821106018	CLARANCE NIRMAL I	O
18	813821106019	DEVISRI K	O
19	813821106021	DHANYA S G	A+
20	813821106022	DHEVASENA K	O
21	813821106023	DIVAKARAN J	O
22	813821106024	DOMINIC FERDINAND A	A+
23	813821106025	EDRIK ARUL RAJ A	A+
24	813821106026	GANESAN R	A+
25	813821106027	GANESH S	A+
26	813821106028	GANGA GAYATHRI R	O
27	813821106029	GAYATHIRI P	A+
28	813821106030	GLADY FAUSTINA A	O
29	813821106031	GNANASAMBANDAN S R	O
30	813821106032	GRUBAKAR R	A+
31	813821106033	GRUZ ANDREWS R	A+
32	813821106034	GUNALAN A	A+
33	813821106035	GUNASEKAR E	O
34	813821106036	GURU VENKATESH S	O
35	813821106037	HAREESH VENKADESH M	O
36	813821106038	HARIKRISHNAN E	O
37	813821106039	HARIKRISHNAN S	A+
38	813821106040	HARINISHRI T	A+
39	813821106041	HARI PRIYA S	O
40	813821106042	HARISH D	O
41	813821106043	HARISH P	A+

42	813821106044	HARISH R	O
43	813821106045	HEMAVARSHINI S	O
44	813821106046	ILLAKIYA S	A+
45	813821106047	ISHAQ S	A+
46	813821106048	JAYA HARINI K	A+
47	813821106049	JAYASURIYA P	O
48	813821106050	JEFFRIN VALENTINA R S	O
49	813821106052	JOTHSWAR B A	O
50	813821106053	KANIHAA R	O
51	813821106054	KANMANI K	O
52	813821106055	KANTHAN MARAN S	O
53	813821106056	KARTHIKA K	O
54	813821106057	KASTHURI RENGAN S	O
55	813821106058	KAVYA G	A+
56	813821106059	KAVYAH G	O
57	813821106060	KIRAN T	O
58	813821106105	SHARAN SRINIVAS S S	A+
59	813821106301	AGASTIN BERNANDO K	A+
60	813821106302	AKASH R	A+
61	813821106303	HARI RAM V	A+
62	813821106305	PREM KUMAR V	O
63	813821106062	LOGESH R	O
64	813821106063	LOGESVARAN N	A+
65	813821106064	MANIKANDAN K	O
66	813821106065	MANJARI K	O

67	813821106066	MANOJ S	O
68	813821106067	MANOJ MANI N	O
69	813821106068	MEENASHREE A	O
70	813821106069	MOHAMED AHIL A	O
71	813821106070	MOHAMED SAIFUDDIN M	O
72	813821106071	MUTHAMIL S	O
73	813821106072	MUTHU T	O
74	813821106073	MUTHULAKSHMI G	O
75	813821106074	NANDHA KUMARAN S	A+
76	813821106075	NAVEENA KRISHNAN R G	O
77	813821106076	NIKILAN S	A+
78	813821106077	NITHEESVARAN J B	A+
79	813821106078	NITHISH S	O
80	813821106079	NITHISH KUMAR G	A+
81	813821106080	NIVETHA A	O
82	813821106081	NIVETHA S	O
83	813821106082	PRASANNA KUMAR R	O
84	813821106083	PRASHATHAN V	A+
85	813821106084	PREMKUMAR D	O
86	813821106085	PRIYANKA K	O
87	813821106086	RAGHAVI B	O
88	813821106087	RAGUL S	O
89	813821106088	RAHUL R	A+
90	813821106089	RAHUL KANNAN K T	O
91	813821106091	RANGARAJAA V	O

92	813821106092	RATHISH S S	O
93	813821106093	RAYYAN J	O
94	813821106094	ROHITH JOSHUA M	O
95	813821106095	SALOMAN CLIFFERD J	O
96	813821106096	SANA AZEEMAH Y	O
97	813821106097	SANJAY C	O
98	813821106098	SANJAY D	O
99	813821106099	SANTHOSHKUMAR J	O
100	813821106101	SATHIYAMOORTHY M	O
101	813821106102	SHAAM VARUNESH K	O
102	813821106103	SHAKTHI G	O
103	813821106104	SHANALIN J	O
104	813821106106	SHARON C	O
105	813821106107	SHARVINA V	O
106	813821106108	SHIVAGURU A	A+
107	813821106109	SHRINITHI S K	O
108	813821106110	SHYAM K	A+
109	813821106111	SIVASAKTHI S	O
110	813821106112	SOMADEVAA M	O
111	813821106113	SOWMYA R	O
112	813821106114	SRI SANTHOSH T	O
113	813821106115	SRI VARSHAN R	O
114	813821106116	SUBRAMANIAN I	O
115	813821106117	SUDARSHAN R	O
116	813821106118	SUDHARSANAN R	O

117	813821106119	SWETHA S	A+
118	813821106120	THENMOZHI M	O
119	813821106121	UDAYA KUMAR B	O
120	813821106122	VIGNESH J	O
121	813821106123	VIGNESH T C	A
122	813821106124	YOGANAND M S	O
123	813821106125	YOGAVAITHEESHVARAN S	O
124	813821106126	YOGESH KUMAR M	O
125	813821106304	LALITH KUMAR S	A+
No. of O Grade			87
No. of A+ Grade			37
No. of A Grade			1
No. of B+ Grade			0
No. of B Grade			0
No. of U Grade			0
Target for course outcome Attainment			80
No of students above the target			125
CO-Attainment University (%)			100.00

1.  (M. PADMAA)
2.  (C.J. EINDHUMATHY)


HOD/EC



Saranathan College of Engineering
Department of Electronics and Communication Engineering

COURSE CODE / TITLE	EC3462 LINEAR INTEGRATED CIRCUITS LAB	NBA Code	C217
SEMESTER / YEAR	IV sem/ II	Academic year	2022-2023
COORDINATOR	DR.M.PADMAA / J.EINDHUMATHY	Credits	1.5
Level 1 (0-69%), Level 2 (70-79%) and Level 3 (above 80%)			

CO ATTAINMENT

CO	CO-Attainment Internal (CO-INT) (%)	CO-Attainment University (CO-UNI) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI) (%)	Indirect CO Attainment (Course End Survey)	Over all CO Attainment (0.8xDirect + 0.2xIndirect) (%)	Over all CO Attainment Level	CO Attainment Level
C217.1	100	100	100	82.33	96.466	3	3
C217.2	100	100	100	80.33	96.066	3	3
C217.3	100	100	100	82.67	96.534	3	3
C217.4	100	100	100	80.67	96.134	3	3
C217.5	100	100	100	82	96.4	3	3
C217.6	100	100	100	82.33	96.466	3	3

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C217.1	2	2	1	1	1	-	-	-	1	2	1	1	2	2
C217.2	2	2	1	1	1	-	-	-	1	2	1	1	2	2
C217.3	2	2	1	1	1	-	-	-	1	2	1	1	2	2
C217.4	2	2	1	1	1	-	-	-	1	2	1	1	2	2

C217.5	2	2	1	1	1	-	-	-	1	2	1	1	2	2
C217.6	2	2	1	1	1	-	-	-	1	2	1	1	2	2
LEVEL	2	2	1	1	1	-	-	-	1	2	1	1	2	2

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C217.1	2	2	1	1	1	-	-	-	1	2	1	1	2	2
C217.2	2	2	1	1	1	-	-	-	1	2	1	1	2	2
C217.3	2	2	1	1	1	-	-	-	1	2	1	1	2	2
C217.4	2	2	1	1	1	-	-	-	1	2	1	1	2	2
C217.5	2	2	1	1	1	-	-	-	1	2	1	1	2	2
C217.6	2	2	1	1	1	-	-	-	1	2	1	1	2	2
Level	2.00	2.00	1.00	1.00	1.00	-	-	-	1.00	2.00	1.00	1	2.00	2

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C217	2	2	1	1	1	-	-	-	1	2	1	1	2	2
Attainment	2.00	2.00	1.00	1.00	1.00	-	-	-	1.00	2.00	1.00	1.00	2.00	2.00

1.  (M. PADMAA)

2.  (J. J. ADITHY)


HOD/EC2



Saranathan College of Engineering
Tiruchirappalli-12
Course End Survey - Consolidated Report

Academic Year : 2022-23 EVEN Semester : 4 Programme: B.E/B.Tech (ECE)
 Subject Code : EC3462 NBA Code : C217 Title **LINEAR INTEGRATED CIRCUITS**

LABORATORY

Faculty: Ms.J.Eindhmathy / Dr.M.Padmaa

Cos	CO Description	Attained Level	%
C217.1	Analyze various types of feedback amplifiers	2.47	82.33
C217.2	Design Oscillators, tuned amplifiers, wave shaping circuits and multivibrators	2.41	80.33
C217.3	Design and simulate feedback amplifiers, tuned amplifiers and Oscillators using SPICE tool	2.48	82.67
C217.4	Design and simulate wave shaping circuits, multivibrators and filters using SPICE tool	2.42	80.67
C217.5	Design amplifiers, Oscillators, D-A converters using operational amplifiers	2.46	82.00
C217.6	Design filters using op-amp and perform an experiment on frequency response	2.47	82.33

Course Exit Survey - Data Entry Details

No.of Students Participated in the survey: 126

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
242001	EC3462	3	2	2	3	3	2	20/09/2023	ECE	4
242002	EC3462	2	2	3	3	2	3	20/09/2023	ECE	4
242003	EC3462	2	3	2	2	2	3	20/09/2023	ECE	4
242004	EC3462	2	3	2	3	3	2	20/09/2023	ECE	4
242006	EC3462	3	3	2	2	2	2	20/09/2023	ECE	4
242007	EC3462	2	2	2	2	2	3	20/09/2023	ECE	4
242008	EC3462	3	3	2	2	2	2	20/09/2023	ECE	4
242009	EC3462	2	2	2	3	2	3	20/09/2023	ECE	4
242010	EC3462	2	2	3	3	3	3	20/09/2023	ECE	4
242011	EC3462	2	2	2	2	2	2	20/09/2023	ECE	4
242012	EC3462	3	2	3	2	3	2	20/09/2023	ECE	4
242013	EC3462	3	3	3	2	2	3	20/09/2023	ECE	4
242014	EC3462	3	2	2	2	3	2	20/09/2023	ECE	4
242015	EC3462	2	3	3	2	3	2	20/09/2023	ECE	4
242016	EC3462	2	3	2	2	2	3	20/09/2023	ECE	4
242017	EC3462	2	2	2	2	2	2	20/09/2023	ECE	4
242018	EC3462	2	3	2	3	3	3	20/09/2023	ECE	4
242019	EC3462	2	3	2	2	3	3	20/09/2023	ECE	4
242020	EC3462	2	2	2	2	2	2	20/09/2023	ECE	4
242021	EC3462	3	2	2	3	2	3	20/09/2023	ECE	4

242022	EC3462	2	2	2	3	3	3	20/09/2023	ECE	4
242023	EC3462	3	2	3	2	2	2	20/09/2023	ECE	4
242024	EC3462	2	2	3	2	3	2	20/09/2023	ECE	4
242025	EC3462	3	3	2	3	3	2	20/09/2023	ECE	4
242026	EC3462	3	2	2	2	2	2	20/09/2023	ECE	4
242027	EC3462	2	3	2	3	2	3	20/09/2023	ECE	4
242028	EC3462	2	2	2	2	3	2	20/09/2023	ECE	4
242029	EC3462	3	2	2	3	3	2	20/09/2023	ECE	4
242030	EC3462	2	2	2	3	2	2	20/09/2023	ECE	4
242032	EC3462	2	3	3	3	3	3	20/09/2023	ECE	4
242033	EC3462	3	2	2	3	2	2	20/09/2023	ECE	4
242034	EC3462	2	2	2	2	2	2	20/09/2023	ECE	4
242035	EC3462	3	2	3	2	3	3	20/09/2023	ECE	4
242036	EC3462	3	3	2	2	3	2	20/09/2023	ECE	4
242037	EC3462	2	2	3	3	2	2	20/09/2023	ECE	4
242038	EC3462	3	3	2	2	2	2	20/09/2023	ECE	4
242039	EC3462	2	2	2	2	3	2	20/09/2023	ECE	4
242040	EC3462	3	3	3	2	2	2	20/09/2023	ECE	4
242041	EC3462	3	2	2	3	2	2	20/09/2023	ECE	4
242042	EC3462	2	2	2	2	3	3	20/09/2023	ECE	4
242043	EC3462	2	3	2	2	2	2	20/09/2023	ECE	4
242044	EC3462	3	2	3	2	3	2	20/09/2023	ECE	4
242045	EC3462	2	3	3	2	2	3	20/09/2023	ECE	4
242046	EC3462	2	2	2	2	3	3	20/09/2023	ECE	4
242047	EC3462	2	3	3	3	3	2	20/09/2023	ECE	4
242048	EC3462	3	2	3	3	2	3	20/09/2023	ECE	4
242049	EC3462	2	3	2	3	3	2	20/09/2023	ECE	4
242050	EC3462	3	2	3	3	3	2	20/09/2023	ECE	4
242052	EC3462	3	2	2	3	3	3	20/09/2023	ECE	4
242053	EC3462	2	2	2	2	2	3	20/09/2023	ECE	4
242054	EC3462	2	2	2	3	2	3	20/09/2023	ECE	4
242055	EC3462	3	3	3	2	2	2	20/09/2023	ECE	4
242056	EC3462	2	2	2	2	2	3	20/09/2023	ECE	4
242057	EC3462	2	2	2	2	3	3	20/09/2023	ECE	4
242058	EC3462	2	2	3	2	2	3	20/09/2023	ECE	4
242059	EC3462	2	2	3	2	3	2	20/09/2023	ECE	4
242062	EC3462	2	2	3	2	3	3	20/09/2023	ECE	4
242063	EC3462	3	2	3	3	2	3	20/09/2023	ECE	4
242064	EC3462	2	3	3	2	2	2	20/09/2023	ECE	4
242065	EC3462	3	3	2	3	2	3	20/09/2023	ECE	4

242066	EC3462	3	2	3	3	2	3	20/09/2023	ECE	4
242067	EC3462	2	2	3	2	2	3	20/09/2023	ECE	4
242068	EC3462	2	3	3	2	3	2	20/09/2023	ECE	4
242069	EC3462	3	2	2	3	2	3	20/09/2023	ECE	4
242070	EC3462	3	3	2	2	2	2	20/09/2023	ECE	4
242071	EC3462	3	2	2	2	3	2	20/09/2023	ECE	4
242072	EC3462	3	3	2	2	3	2	20/09/2023	ECE	4
242073	EC3462	2	2	3	2	3	2	20/09/2023	ECE	4
242074	EC3462	3	2	2	2	3	2	20/09/2023	ECE	4
242075	EC3462	3	2	3	3	2	2	20/09/2023	ECE	4
242076	EC3462	3	3	3	2	2	3	20/09/2023	ECE	4
242077	EC3462	2	2	3	2	2	3	20/09/2023	ECE	4
242078	EC3462	3	2	3	3	2	2	20/09/2023	ECE	4
242079	EC3462	2	2	3	3	2	3	20/09/2023	ECE	4
242080	EC3462	2	3	3	3	3	2	20/09/2023	ECE	4
242081	EC3462	2	3	3	3	2	2	20/09/2023	ECE	4
242082	EC3462	3	2	3	3	3	3	20/09/2023	ECE	4
242083	EC3462	2	2	2	2	3	2	20/09/2023	ECE	4
242084	EC3462	2	2	2	3	3	2	20/09/2023	ECE	4
242085	EC3462	2	2	3	3	3	3	20/09/2023	ECE	4
242086	EC3462	2	3	2	3	3	3	20/09/2023	ECE	4
242087	EC3462	3	2	3	2	2	3	20/09/2023	ECE	4
242088	EC3462	2	3	3	2	2	2	20/09/2023	ECE	4
242089	EC3462	3	3	3	3	2	2	20/09/2023	ECE	4
242090	EC3462	3	2	3	2	3	3	20/09/2023	ECE	4
242091	EC3462	2	3	2	2	2	2	20/09/2023	ECE	4
242092	EC3462	3	2	3	3	2	3	20/09/2023	ECE	4
242093	EC3462	3	3	2	2	2	3	20/09/2023	ECE	4
242094	EC3462	3	2	3	3	3	3	20/09/2023	ECE	4
242095	EC3462	2	2	2	2	3	3	20/09/2023	ECE	4
242096	EC3462	2	3	3	2	3	3	20/09/2023	ECE	4
242097	EC3462	3	3	2	2	2	3	20/09/2023	ECE	4
242098	EC3462	2	3	3	3	2	3	20/09/2023	ECE	4
242099	EC3462	2	2	2	3	2	3	20/09/2023	ECE	4
242101	EC3462	2	2	2	3	2	2	20/09/2023	ECE	4
242102	EC3462	3	2	3	3	3	3	20/09/2023	ECE	4
242103	EC3462	3	2	2	2	2	2	20/09/2023	ECE	4
242104	EC3462	2	2	2	2	3	3	20/09/2023	ECE	4
242105	EC3462	3	2	2	3	3	2	20/09/2023	ECE	4
242106	EC3462	2	3	3	3	3	2	20/09/2023	ECE	4

242107	EC3462	3	2	3	2	3	2	20/09/2023	ECE	4
242108	EC3462	2	3	2	2	2	3	20/09/2023	ECE	4
242109	EC3462	2	3	3	2	3	3	20/09/2023	ECE	4
242110	EC3462	2	3	2	2	2	2	20/09/2023	ECE	4
242111	EC3462	3	2	2	2	3	2	20/09/2023	ECE	4
242112	EC3462	2	2	2	2	2	2	20/09/2023	ECE	4
242113	EC3462	2	3	2	3	2	3	20/09/2023	ECE	4
242114	EC3462	3	3	3	3	2	3	20/09/2023	ECE	4
242115	EC3462	2	2	2	3	3	2	20/09/2023	ECE	4
242116	EC3462	3	3	2	3	3	3	20/09/2023	ECE	4
242117	EC3462	3	3	3	3	2	2	20/09/2023	ECE	4
242118	EC3462	3	3	2	2	2	3	20/09/2023	ECE	4
242119	EC3462	3	2	3	2	2	3	20/09/2023	ECE	4
242120	EC3462	2	3	3	2	2	2	20/09/2023	ECE	4
242121	EC3462	3	3	3	2	3	3	20/09/2023	ECE	4
242122	EC3462	3	2	3	2	3	3	20/09/2023	ECE	4
242123	EC3462	2	2	2	2	3	3	20/09/2023	ECE	4
242124	EC3462	3	2	2	2	3	2	20/09/2023	ECE	4
242125	EC3462	2	3	3	3	2	3	20/09/2023	ECE	4
242126	EC3462	3	3	3	3	2	2	20/09/2023	ECE	4
242127	EC3462	3	3	3	3	2	2	20/09/2023	ECE	4
242128	EC3462	3	2	3	2	3	2	20/09/2023	ECE	4
242129	EC3462	3	2	3	2	3	2	20/09/2023	ECE	4
242130	EC3462	2	3	3	2	3	2	20/09/2023	ECE	4
242131	EC3462	2	3	3	2	2	2	20/09/2023	ECE	4
242132	EC3462	3	2	3	3	2	2	20/09/2023	ECE	4
Attained Level		2.47	2.41	2.48	2.42	2.46	2.47			
%		82.33	80.33	82.67	80.67	82.00	82.33			





HOD/ECE



COURSE OUTCOMES 2019-2023 BATCH

S.NO	Course code/Name	Attainment (%)	CO attainment level
I year - I Sem			
1	COMMUNICATIVE ENGLISH	78.53	2
		69.35	2
		73.18	2
		81.05	2
		73.25	2
		72.56	2
2	ENGINEERING MATHEMATICS - I	76.11	2
		83.46	2
		72.45	2
		73.00	2
		80.90	2
		77.35	2
3	ENGINEERING PHYSICS	60.71	1
		53.45	1
		59.73	1
		54.61	1
		59.45	1
		59.16	1
4	ENGINEERING CHEMISTRY	67.69	2
		60.56	1
		69.18	2
		63.1	2
		59.06	1
		64.67	2
5	PROBLEM SOLVING AND PYTHON PROGRAMMING	56.84	1
		54.59	1
		55.64	1
		43.33	1
		45.54	1
		44.67	1
6	ENGINEERING GRAPHICS	70.27	2
		66.75	2
		72.63	2
		72.91	2
		65.68	2
		89.18	2
7	PROBLEM SOLVING AND PYTHON PROGRAMMING LAB	100	3
		100	3
		100	3
		100	3
		100	3
		100	3
8	PHYSICS AND CHEMISTRY LAB	100	3
		100	3
		100	3
		100	3
		100	3
		100	3

I year - II Sem			
9	TECHNICAL ENGLISH	76	2
		75.43	2
		73.09	2
		67.24	2
		60.12	1
		73.09	2
10	ENGINEERING MATHEMATICS - II	81.19	2
		74.15	2
		79.73	2
		61.93	2
		63.26	2
		65.19	2
11	PHYSICS FOR ELECTRONIC ENGINEERING	47.61	1
		45.43	1
		38.88	1
		38.88	1
		38.88	1
		38.88	1
12	BASIC CIVIL AND MECHANICAL ENGINEERING	72.73	2
		48	1
		65.45	2
		48	1
		48	1
		48	1
13	CIRCUIT THEORY	48.6	1
		46.41	1
		36.96	1
		36.96	1
		36.96	1
		36.96	1
14	ENVIRONMENTAL SCIENCE AND ENGINEERING	28.1	1
		33.19	1
		32.47	1
		25.92	1
		25.92	1
		25.92	1
15	ENGINEERING PRACTICES LABORATORY	100	3
		100	3
		100	3
		100	3
		100	3
		100	3
16	ELECTRIC CIRCUITS LABORATORY	100	3
		100	3
		100	3
		100	3
		100	3
		100	3

II year - III Sem			
17	TRANSFORMS AND PARTIAL DIFFERENTIAL EQUATIONS	80.91	2
		83.61	2
		85.15	2
		78.49	2
		78.94	2
		86.12	2
18	ELECTRON DEVICES AND CIRCUITS	62.62	2
		64.44	2
		63.38	2
		63.68	2
		60.35	1
		62.47	2
19	DIGITAL LOGIC CIRCUITS	96.24	3
		79.69	2
		95.81	3
		94.69	3
		86.51	2
		63.33	2
20	ELECTRICAL MEASUREMENTS	80.6	2
		79.57	2
		86.45	2
		60.72	1
		81.12	2
		80.88	2
21	TRANSDUCERS ENGINEERING	87.64	2
		80.07	2
		78.95	2
		87.55	2
		79.7	2
22	OBJECT ORIENTED PROGRAMMING	79.08	2
		82.29	2
		73.71	2
		85.66	2
		79.29	2
		83.72	2
23	MEASUREMENTS AND TRANSDUCERS LABORATORY	100	3
		100	3
		100	3
		100	3
		100	3
		100	3
24	OBJECT ORIENTED PROGRAMMING LABORATORY	100	3
		100	3
		100	3
		100	3
		100	3
		100	3

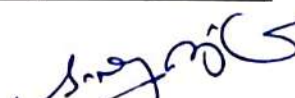
II year - IV Sem			
25	NUMERICAL METHODS	81.15	2
		88.82	2
		96	3
		97.94	3
		93.7	3
		82.42	2
26	ELECTRICAL MACHINES	85.15	2
		81	2
		73.24	2
		78.48	2
		88.27	2
		93.42	3
27	INDUSTRIAL INSTRUMENTATION-I	92.37	3
		87.94	2
		82.49	2
		64.64	2
		91.64	3
		94.37	3
28	LINEAR INTEGRATED CIRCUITS AND APPLICATIONS	81.58	2
		78.61	2
		70.67	2
		91.94	3
		83.67	2
		68.16	2
29	CONTROL SYSTEMS	63.45	2
		66.48	2
		63.76	2
		63.91	2
		62.39	2
		63.3	2
30	COMMUNICATION ENGINEERING	91.38	3
		85.74	2
		93.14	3
		93.47	3
		93.41	3
		96.29	3
31	DEVICES AND MACHINES LABORATORY	100	3
		100	3
		100	3
		100	3
		100	3
		100	3
32	LINEAR AND DIGITAL INTEGRATED CIRCUITS LABORATORY	100	3
		100	3
		100	3
		100	3
		100	3
		100	3

III year - V Sem			
33	ANALYTICAL INSTRUMENTS	72.49	2
		68.61	2
		70.73	2
		73.97	2
		72.39	2
		64.82	2
34	INDUSTRIAL INSTRUMENTATION - II	64.82	2
		64.67	2
		65.42	2
		64.82	2
		63.76	2
		63.76	2
35	PROCESS CONTROL	60.32	1
		59.26	1
		58.81	1
		59.87	1
		59.87	1
		60.62	1
36	MICROPROCESSORS AND MICROCONTROLLERS	71.36	2
		67	2
		80.33	2
		66.73	2
		72.7	2
		64.82	2
37	UNIT OPERATION AND CONTROL	63.91	2
		64.97	2
		64.21	2
		64.52	2
		65.73	2
		64.67	2
38	AIR POLLUTION AND CONTROL (OPEN ELECTIVE)	80.85	2
		74.42	2
		81.82	2
		76.3	2
		77.88	2
		64.36	2
39	INDUSTRIAL INSTRUMENTATION LABORATORY	100	3
		100	3
		100	3
		100	3
		100	3
		100	3
40	MICROPROCESSORS AND MICROCONTROLLERS LABORATORY	100	3
		100	3
		100	3
		100	3
		100	3
		100	3

III year - VI Sem			
41	ADVANCED CONTROL SYSTEM	47.77	1
		62.56	2
		54.71	1
		59.38	1
		45.14	1
		44.38	1
42	LOGIC AND DISTRIBUTED CONTROL SYSTEM	54.72	1
		57.9	1
		63.29	2
		60.11	1
		41.63	1
		41.32	1
43	DATA STRUCTURES	48.27	1
		47.24	1
		54.4	1
		50.15	1
		41.7	1
		47.12	1
44	THERMAL POWER PLANT INSTRUMENTATION	83.4	2
		86.01	2
		85.73	2
		89.49	2
		88.04	2
		58.4	1
45	MEMS AND NANO SCIENCES	71.96	2
		80.08	2
		60.02	1
		81.57	2
		72.54	2
		69.5	2
46	APPLIED SOFT COMPUTING	51.47	1
		57.56	1
		56.11	1
		54.08	1
		64.07	2
		38.62	1
47	FUNDAMENTALS OF NANO SCIENCE	59.31	1
		62.45	2
		61.44	2
		63.56	2
		64.64	2
		56.99	1
48	DATA STRUCTURES LABORATORY	100	3
		100	3
		100	3
		100	3
		100	3
		100	3
49	PROCESS CONTROL LABORATORY	100	3
		100	3
		100	3
		100	3
		100	3
		100	3
50	PROFESSIONAL COMMUNICATION	100	3
		100	3
		100	3
		100	3
		100	3
		100	3

IV year - VII Sem

IV year - VII Sem			
51	INDUSTRIAL DATA NETWORKS	69.19	2
		63.37	2
		66.31	2
		51.04	1
		64.68	2
		69.19	2
52	INSTRUMENTATION IN PETROCHEMICAL INDUSTRIES	88.87	2
		85.96	2
		68.96	2
		62.42	2
		79.42	2
		76.51	2
53	DIGITAL IMAGE PROCESSING	73.92	2
		75.37	2
		78.98	2
		67.86	2
		77.28	2
		76.1	2
54	FIBRE OPTICS AND LASER INSTRUMENTATION	81.15	2
		84.79	2
		78	2
		83.36	2
		78.54	2
		86.97	2
55	ELECTRONIC INSTRUMENTATION	82.55	2
		94.18	3
		87.82	2
		82.58	2
		76.03	2
		68	2
56	INTRODUCTION TO C PROGRAMMING	77.06	2
		79.97	2
		69.94	2
		74.33	2
		74.21	2
		71.97	2
57	PROFESSIONAL ETHICS IN ENGINEERING	43.27	1
		28	1
		25.39	1
		39.82	1
		32.94	1
		41.09	1
58	INDUSTRIAL AUTOMATION LABORATORY	100	3
		100	3
		100	3
		100	3
		100	3
		100	3
59	INSTRUMENTATION SYSTEM DESIGN LABORATORY	100	3
		100	3
		100	3
		100	3
		100	3
		100	3
IV year - VIII Sem			
60	PROJECT WORK	100	3
		100	3
		100	3
		100	3
		100	3
		100	3


HoD/ICE



SARANATHAN COLLEGE OF ENGINEERING
TIRUCHIRAPALLI - 620 012.
Department of Instrumentation and Control Engineering



PROGRAM OUTCOMES AND PROGRAM SPECIFIC OUTCOMES (ICE-2019-2023) Batch TARGET

PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
2.65	2.29	2.17	1.87	1.88	1.37	1.34	1.20	1.47	1.39	1.78	1.84	2.03	1.91	1.85

PROGRAM OUTCOMES AND PROGRAM SPECIFIC OUTCOMES (ICE-2019-2023) Batch ATTAINED

PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
1.85	1.60	1.55	1.32	1.36	0.98	0.88	0.83	1.04	0.96	1.25	1.29	1.43	1.28	1.27


HOD/ICE

SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF INFORMATION TECHNOLOGY

Batch wise Consolidated Report with graph for POs and

Year	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
2016-2020	2.69	2.12	1.87	1.75	1.57	1.46	1.81	1.57	1.77	1.55	1.36	1.55	1.92	1.85
2017-2021	2.08	1.81	1.76	1.56	1.51	1.24	1.44	1.52	1.61	1.58	1.31	1.4	1.71	1.5
2018-2022(80%)	2.26	2.04	1.9	1.71	1.38	1.23	1.29	1.21	1.23	1.26	1.18	1.17	1.11	0.88
2019-2023(80%)	1.71	1.43	1.33	0.93	0.94	0.76	1.09	0.89	1.11	0.86	0.8	0.85	1.48	1.25

