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

2021 - 2022

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Saranathan College of Engineering
Department of Electronics and Communication Engineering

OVERALL ATTAINMENT

PG BATCH 2020-2022

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
TARGET	2.75	2.65	2.25	2.05	2.15	1.94	1.79	1.31	2.00	1.46	1.31	2.21	2.10	2.11
ATTAINED	2.49	2.44	2.07	1.80	1.91	1.72	1.52	1.25	1.81	1.30	1.06	2.06	1.87	1.90

UG BATCH 2018-2022

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
TARGET	2.34	2.16	1.89	1.43	1.23	1.33	1.36	1.18	1.56	1.51	1.38	1.51	1.88	1.87
ATTAINED	1.65	1.57	1.38	1.10	0.96	1.03	1.03	0.95	1.18	1.11	1.06	1.07	1.34	1.35

HOD/ECE

SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF ECE
COURSE OUTCOMES 2018-2022 BATCH

S.NO	Course code/Name	Attainment (%)	CO attainment level
1	COMMUNICATIVE ENGLISH	63.49	2
		65.98	2
		65.3	2
		60.46	1
		57.56	1
		58.38	1
2	ENGINEERING MATHEMATICS - I	62.35	2
		72.13	2
		58.11	1
		61.1	2
		61.65	2
		63.36	2
3	ENGINEERING PHYSICS	63.75	2
		60.91	1
		62.37	2
		84.8	2
		63.44	2
		84.75	2
4	ENGINEERING CHEMISTRY	60.52	1
		58.62	1
		59.13	1
		83.76	2
		51.64	1
		58.21	1
5	PROBLEM SOLVING AND PYTHON PROGRAMMING	67.78	2
		68.43	2
		68.66	2
		69.94	2
		62.84	2
		57.64	1
6	ENGINEERING GRAPHICS	66.91	2
		55.25	1
		65.25	2
		71.59	2
		68.13	2
		63.5	2
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	81.48	3

		81.75	3
		81.89	3
		85.73	3
		84.05	3
		82.28	3
9	**TECHNICAL ENGLISH II**	52.92	1
		59.31	1
		64.51	2
		63.58	2
		57.93	1
		60.71	1
10	**ENGINEERING MATHEMATICS - II**	70.64	2
		68.11	2
		65.89	2
		64.77	2
		57.82	1
		74.51	2
11	**PHYSICS FOR ELECTRONIC ENGGINEERING**	61.07	2
		66.67	2
		53.4	1
		54.26	1
		58.34	1
		46.38	1
12	**BASIC ELECTRICAL AND INSTRUMENTATION ENGINEERING**	55.87	1
		64.58	2
		58.93	1
		64.42	2
		54.76	1
		49.65	1
13	**CIRCUIT ANALYSIS**	62.2	2
		58.47	1
		58.11	1
		68.6	2
		60.19	1
		55.54	1
14	**ELECTRON DEVICES**	69.98	2
		66.83	2
		77.12	2
		63.4	2
		70.17	2
		59.78	1
15	**ENGG PRACTICE LAB**	97.91	3
		96.92	3
		96.19	3
		97.91	3
		96.56	3
		98.36	3
16	**CIRCUITS AND DEVICES LAB**	87.9	2
		88.71	2

		87.13	2
		89.29	2
		89.29	2
		86.88	2
17	**LINEAR ALGEBRA AND PARTIAL DIFFERENTIAL EQUATIONS**	48.41	1
		49.24	1
		52.83	1
		39.59	1
		39.03	1
		44.28	1
18	**FUNDAMENTALS OF DATA STRUCTURES IN C**	53.79	1
		50.2	1
		56.82	1
		36.96	1
		45.79	1
		45.79	1
19	**ELECTRONIC CIRCUITS I**	39	1
		40.65	1
		37.06	1
		41.2	1
		43.41	1
		35.13	1
20	**SIGNALS AND SYSYTEMS**	50.69	1
		54.83	1
		55.11	1
		40.21	1
		38.83	1
		43.8	1
21	**DIGITAL ELECTRONICS**	38.04	1
		37.76	1
		38.31	1
		34.17	1
		31.69	1
		32.52	1
22	**CONTROL SYSTEM ENGINEERING**	54	1
		44.9	1
		42.42	1
		43.52	1
		38.55	1
		35.52	1
23	**ANALOG AND DIGITAL CIRCUITS LAB**	96.6	3
		95.83	3
		95.9	3
		94.64	3
		96.92	3
		95.49	3
24	**OOPS & DS LAB**	92.44	3
		92.29	3
		92.15	3

		92.62	3
		93.61	3
		85.97	3
25	**INTERPERSONAL SKILLS/ LISTENING & SPEAKING**	97.78	3
		97.71	3
		97.57	3
		97.43	3
		97.57	3
		97.5	3
26	**PROBABILITY AND RANDOM PROCESS**	28.03	1
		26.94	1
		33.77	1
		34.87	1
		22.56	1
		22.56	1
27	**ELECTROMAGNETIC FIELDS**	37.62	1
		49.93	1
		45	1
		28.32	1
		28.32	1
		28.32	1
28	**ELECTRONIC CIRCUITS II**	37.41	1
		39.87	1
		36.86	1
		51.08	1
		51.08	1
		25.92	1
29	**LINEAR INTEGRATED CIRCUITS**	62.1568	2
		55.3184	1
		53.4048	1
		40.5504	1
		40.5504	1
		40.5504	1
30	**COMMUNICATION THEORY**	49.024	1
		61.3312	2
		56.4096	1
		39.7248	1
		39.7248	1
		39.7248	1
31	**ENVIRONMENTAL SCIENCE ENGINEERING**	40.28	1
		35.9	1
		38.91	1
		32.89	1
		31.52	1
		30.43	1
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**	87.22	2
		69.47	2
		88.31	2
		74.19	2
		87.18	2
		55.68	1
35	**DISCRETE TIME SIGNAL PROCESSING**	94.86	3
		79.71	2
		98.94	3
		68	2
		65.25	2
		65.76	2
36	**COMPUTER ARCHITECTURE**	78.24	2
		76.45	2
		47.12	1
		63.61	2
		45.93	1
		61.5	2
37	**COMPUTER NETWORKS**	91.21	3
		89.96	2
		86.45	2
		87.07	2
		61.54	2
		62.77	2
38	**MEDICAL ELECTRONICS**	88.84	2
		75.07	2
		86.9	2
		59.36	1
		88.22	2
		86.82	2
39	**DIGITAL AUDIO ENGINEERING**	81.98	2
		66.58	2
		79.7	2
		83.68	2
		80.4	2
		50.61	1
40	**DIGITAL SIGNAL PROCESSING LAB**	100	3
		100	3
		100	3

		100	3
		100	3
		100	3
41	**COMMUNICATION SYSTEM LAB**	99.496	3
		99.496	3
		99.496	3
		99.496	3
		99.496	3
		99.496	3
42	**COMMUNICATION NETWORKS LAB**	99.496	3
		99.496	3
		99.496	3
		99.496	3
		99.496	3
		99.496	3
43	**MICROPROCESSORS AND MICROCONTROLLERS**	97.04	3
		94.3	3
		78.77	2
		100	3
		96.36	3
		65.76	2
44	**VLSI DESIGN**	97.22	3
		78.6	2
		96.96	3
		98.56	3
		95.7	3
		64.32	2
45	**WIRELESS COMMUNICATION**	81.45	2
		94.15	3
		98.61	3
		99.67	3
		97.54	3
		65.7	2
46	**PRINCIPLES OF MANAGEMENT**	95.28	3
		92.53	3
		65.98	2
		67.04	2
		64.52	2
		64.8	2
47	**TRANSMISSION LINES AND RF SYSTEMS**	97.85	3
		86.96	2
		98.94	3
		100	3
		82.59	2
		65.76	2
48	**MULTIMEDIA COMPRESSION AND COMMUNICATION**	97.43	3
		94.68	3
		97.98	3

		99.04	3
		96.24	3
		64.8	2
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
53	**ANTENNAS AND MICROWAVE ENGINEERING**	84.66	2
		77.64	2
		80.18	2
		84.58	2
		79.38	2
		64.25	2
54	**OPTICAL COMMUNICATION**	96.36	3
		96.47	3
		96.81	3
		73.72	2
		77.92	2
		64.53	2
55	**EMBEDDED AND REAL TIME SYSTEMS**	94.91	3
		95.92	3
		96.1	3
		85.6	2
		89.42	2
		71.78	2

56	AD HOC AND WIRELESS SENSOR NETWORKS	94.75	3
		95.73	3
		96.01	3
		90.02	2
		81.49	2
		78.3	2
57	COGNITIVE RADIO	96.08	3
		96.41	3
		96.58	3
		78.51	2
		78.2	2
		64.41	2
58	TRANSDUCER ENGINEERING	93.64	3
		96.76	3
		95.66	3
		88.9	2
		86.7	2
		75.39	2
59	EMBEDDED LAB	99.496	3
		99.496	3
		99.496	3
		99.496	3
		99.496	3
		99.496	3
60	ADVANCED COMMUNICATION LAB	100	3
		100	3
		100	3
		100	3
		100	3
		100	3
61	PROFESSIONAL ETHICS IN ENGINEERING	70.39	2
		67.63	2
		63.54	2
		65.59	2
		64.4	2
		61	1
62	SATELLITE COMMUNICATION	62.72	2
		61.99	2
		62.48	2
		62.54	2
		62.94	2
		62.55	2
63	PROJECT WORK	100	3
		100	3
		100	3
		100	3
		100	3
		100	3

Saranathan College of Engineering

Department of Electronics and Communication Engineering

PROGRAM OUTCOMES AND PROGRAM SPECIFIC OUTCOMES (2018-2022) Batch TARGET

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C101									3.00	1.00	2.00	1.00	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	3.00	1.67	1.33	1.33	1.00				1.00			2.00		
C111	3.00	2.00	2.00	1.00					-			1.00	1.00	2.00
C112	3.00	1.67	2.00	1.00	1.00	0.67			1.33			0.83	1.33	2.00
C113	3.00	3.00	1.00	2.00					1.00	1.00		2.00	2.00	
C114	3.00	3.00	3.00	1.00	1.00	1.00					1.00	1.00	3.00	
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	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	2.00	2.00	2.00	1.67	2.00	1.00			1.00	1.00	1.00	2.00	2.00	2.00
C302	3.00	3.00	3.00	2.00	2.00			1.00	2.00	2.00	2.00	2.00	3.00	3.00
C303	2.00	2.00	2.00	2.00		1.00					1.00	1.00	3.00	3.00
C304	2.00	2.00	1.00	1.00	1.00					1.00		1.00	1.00	2.00
C305	2.00	2.00	2.00	1.00	0.67	2.00	2.00	1.00		1.17	1.00	2.00	2.00	1.00
C306	2.00	2.00	2.00	1.00	1.00	1.00	1.00			1.00		2.00	2.00	2.00
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	2	2	1	1	1	0.83	0.67	0.17		0.5	1	1	2	2
C311	2.00	2.00	2.00	2.00	1.00	1.50	1.17	1.00	1.00	1.00	1.00	2.00	2.00	2.00
C312	2	2	1	1						2	1	1	2	2
C313	2					2	1	2	2	3	3	2	1	1.17
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	2.00	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	2.00	2.00	2.00	1.00	0.67	2.00	2.00	1.00	0.00	1.17	1.00	2.00	2.00	1.00
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	0.83	0.67	0.33	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	1.00	2.00	2.00
C404	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
C405PE3	2.00	2.00	1.83	1.00	1.00	1.17				1.00	2.00		2.00	2.00
C406OE2	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	2.00	2.00	2.00	2.00	2.00	-	-	-	-	1.00	2.00	2.00	2.00
C409	2.00	2.00	1.00	1.00	1.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	2.00	2.00
C410	2.00	2.00	1.00	1.00	1.00					1.00	1.00	1.00	2.00	2.00
C411	3.00	3.00	2.17	2.17	2.17	2.17	2.17	2.17	2.33	2.33	2.33	2.33	3.00	3.00
AVERAGE	2.34	2.16	1.89	1.43	1.23	1.33	1.36	1.18	1.56	1.51	1.38	1.51	1.88	1.87

HOD/ECE

Saranathan College of Engineering

Department of Electronics and Communication Engineering

PROGRAM OUTCOMES AND PROGRAM SPECIFIC OUTCOMES (2018-2022) Batch

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C101														
C102	1.83	1.67	1.06	1.06	0.44				1.50	1.50	1.00	1.50	0.50	1.00
C103	1.00	1.33	1.33	1.00	1.11		0.17	1.00	0.61	0.61		1.22		
C104	1.17	0.78	0.39	0.39	0.00	0.39	0.78			0.28		0.67	1.22	0.61
C105	1.83	1.83	1.83	1.44	0.61				0.39	0.39	0.39	0.39		
C106	1.22		1.83		0.61	0.61	0.61	1.22	1.22	0.72	0.44	1.17	1.50	1.56
C107	3.00	2.00	2.00	1.00	-	-	-	1.00	1.83	1.83		1.22	1.22	1.22
C108	3.00	2.00	2.00	2.00	-	1.00	-	1.00	2.00	1.00	1.00	1.00	2.00	1.00
C109									2.00	2.00	1.00	1.00	-	2.00
C110	1.83	1.00	0.83	0.83	0.61				1.33	1.33	0.89	1.33	0.44	0.89
C111	1.28	0.89	0.89	0.44					0.61			1.22		
C112	1.33	0.67	0.89	0.44	0.44	0.33		-	0.56			0.44	0.44	0.89
C113	1.33	1.33	0.44	0.89					0.44	0.44		0.33	0.67	0.89
C114	1.83	1.83	1.83	0.61	0.61	0.61					0.61	0.89	0.89	
C115	2.00	2.00	2.00	0.67	0.67	0.67			0.67	0.67	0.67	0.61	1.83	
C116	3.00	2.67	3.00	2.00	1.00							0.67	1.33	
C201	1.00	0.67	0.33	0.33	0.33	0.00	0.33		0.33	0.67			1.00	2.33
C202	1.00	1.00	0.67	0.67	0.33				0.33	0.33		0.67	0.33	0.33
C203	0.67	0.67	0.67	0.33	0.67			0.33	0.33	0.33	0.33		0.83	0.67
C204	0.67	0.67	0.67	0.33	0.33					0.33		0.67	0.67	0.33
C205	0.67	0.67	0.67	0.39	0.33					0.33		0.22	0.67	0.67
C206	0.67	0.67	0.67	0.33	0.33					0.33	0.00	0.33	0.67	0.67
C207	3.00	3.00	2.00	2.00	1.00	-	-	-	1.00	1.00	-	0.22	0.67	0.67
C208	2.00	2.00	2.00	2.00	1.16	2.00	1.00	-	2.00	2.00	1.00	1.00	3.00	2.00
C209	-	-	-	-	-	-	-	1.00	3.00	3.00	1.00	1.00	2.00	2.00
C210	0.67	0.67			0.33					0.33	0.33	2.00	-	-
C211	0.67	0.33	0.33			0.67	0.67	0.33				0.50	0.50	0.50
C212	0.78	0.78	0.78	0.39	0.39	0.39	0.39	0.39	-	-	0.39	0.33	0.67	0.33
C213	0.67	0.67	0.67	0.33	0.33					0.33		0.39	0.39	0.78
C214	0.78	0.78	0.78	0.78	0.78	0.78					0.78	0.33	0.67	0.67
C215	0.67					0.33	1.00	0.67	0.33	0.67	0.00	0.78	0.78	0.78
C216	2	2	1	1	1	-	-	-	1	2	1	0.67	0.67	0.67
C217	3	3	3	3	3	2	-	-	-	-	3	1	2	2
C301	1.22	1.22	1.22	1.06	1.22	0.61	-	-	0.61	0.61	0.61	2	2	3
C302	2.33	2.33	2.33	1.78	2.33	0.78	0.78	0.78	1.56	1.56	1.56	1.22	1.00	1.22
C303	1.11	1.11	1.11	1.11	-	0.56	-	-	-	-	0.56	1.56	2.33	2.33
C304	1.44	1.44	0.72	0.72	0.72	-	-	-	-	0.72	-	0.56	1.67	1.67
												0.72	0.72	1.44

C305	1.22	1.22	1.22	0.61	0.58	1.22	1.22	0.61	-	0.61	0.61	1.22	1.22	0.61
C306	1.22	1.22	1.22	0.61	0.61	0.61	0.61	-	-	0.61	-	1.22	1.22	1.22
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	1.78	1.78	0.89	0.89	0.89	0.83	0.83	0.67	-	0.89	0.89	0.89	1.78	1.78
C311	1.78	1.78	1.78	1.78	0.89	1.39	1.06	1.39	0.89	0.89	0.89	1.78	1.78	1.78
C312	1.78	1.78	0.89	0.89	-	-	-	-	-	1.78	0.89	0.89	1.78	1.78
C313	1.89	2.06	1.78	1.89	2.11	2.11	2.00	1.94	2.00	2.00	1.94	2.00	-	-
C314	2.50	2.50	2.50	0.83	0.83	-	-	-	-	-	0.83	0.83	2.50	0.83
C315	1.89	1.89	1.89	0.94	0.94	0.94	-	-	0.94	0.94	0.94	0.94	0.94	1.89
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	2	2	2	1	2	2	1	2	2	2	2	1	2
C319	2	2	2	1	0.67	2	2	1	0	1.17	1	2	2	1
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	1.67	1.67	0.83	0.83	-0.83	0.80	0.83	0.67	0.83	0.83	0.83	0.83	1.67	1.67
C403	1.67	1.67	0.83	0.83	0.83	0.83			0.83	0.83	0.83	0.83	1.67	1.67
C404	1.67	1.67	0.83	0.83	0.83	0.83	0.83	0.83		0.83	0.83	0.83	0.83	1.67
C405PE3	1.67	1.67	1.56	0.83	0.83	0.94				0.83	1.33		1.67	1.67
C406OE2	1.67	1.67	1.67	0.67	0.72						2.50	1.67	0.83	0.83
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
C409	1.22	1.22	0.61	0.61	0.61	1.22	1.22	1.22	0.61	0.61	0.61	0.61	1.22	1.22
C410	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	2.17	2.17	2.17	2.17	2.17	2.17	2.33	2.33	2.33	2.33	3.00	3.00
AVERAGE	1.65	1.57	1.38	1.10	0.96	1.03	1.03	0.95	1.18	1.11	1.06	1.07	1.34	1.35

HOD/ECE

COURSE CODE / TITLE	COMMUNICATIVE ENGLISH	SBA Code	C101
SEMESTER / YEAR	II	Academic year	2018-2019
COORDINATOR	Dr A Narayanan / Dr J Priya	Credits	4
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)	CO Attainment Level
C101.1	53.56	59	56.82	90.16	63.49	2
C101.2	61.49	59	60	89.9	65.98	2
C101.3	60.68	59	59.67	87.8	65.3	2
C101.4	44.5	59	53.2	89.5	60.46	1
C101.5	35.44	59	49.57	89.5	57.56	1
C101.6	36.57	59	50.03	91.8	58.38	1

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									2.00	2.00	1.33	2.00	0.67	1.33
C101.3									2.00	2.00	1.33	2.00	0.67	1.33
C101.4									1.00	1.00	0.67	1.00	0.33	0.67
C101.5									1.00	1.00	0.67	1.00	0.33	0.67
C101.6									1.00	1.00	0.67	1.00	0.33	0.67
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
C101									3	3	2	3	1	2
Attainment									1.50	1.50	1.00	1.50	0.50	1.00

COURSE CODE / TITLE	ENGINEERING MATHEMATICS - I	NBA Code	C102
SEMESTER / YEAR	I/I	Academic year	2018-2019
COORDINATOR	Dr.S.Revathi / Dr.S.Arunkumar	Credits	4
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)	CO Attainment Level
C102.1	18.45	83	57.18	83.02	62.35	2
C102.2	47.73	83	68.89	85.09	72.13	2
C102.3	6.8	83	52.52	80.48	58.11	1
C102.4	15.27	83	55.95	81.72	61.1	2
C102.5	16.18	83	56.27	83.16	61.65	2
C102.6	20.87	83	58.15	84.19	63.36	2

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	2.00	1.33	0.67	0.67	0.00				0.67	0.67		1.33		
C102.2	2.00	2.00	1.33	1.33	0.67				0.67	0.67		1.33		
C102.3	1.00	0.67	0.33	0.33	0.00				0.33	0.33		0.67		
C102.4	2.00	2.00	1.33	1.33	0.67				0.67	0.67		1.33		
C102.5	2.00	2.00	1.33	1.33	0.67				0.67	0.67		1.33		
C102.6	2.00	2.00	1.33	1.33	0.67				0.67	0.67		1.33		
Level	1.83	1.67	1.06	1.06	0.44				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
C102	3	2.67	1.67	1.67	0.67				1	1		2		
Attainment	1.83	1.67	1.06	1.06	0.44				0.61	0.61		1.22		

COURSE CODE / TITLE	ENGINEERING PHYSICS	NBA Code	C103
SEMESTER / YEAR	I/I	Academic year	2018-2019
COORDINATOR	Dr P.Senthilkumar / Mr.K.Karthikeyan	Credits	3
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)	CO Attainment Level
C103.1	31.88	75	57.75	87.75	63.75	2
C103.2	25.89	75	55.36	83.13	60.91	1
C103.3	28.32	75	56.33	86.55	62.37	2
C103.4	100	75	85	84	84.8	2
C103.5	33.17	75	58.27	84.14	63.44	2
C103.6	100	75	85	83.73	84.75	2

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	1					2		3	2	1
C103.2					2		3			1		2	2	1
C103.3		3	3	3	1							2	2	1
C103.4		3		3	3			3					2	1
C103.5	3	3	3		3			3					2	1
C103.6	3		3		1			3					2	1
C103	1.5	2	2	1.5	1.83		0.5	1.5		0.5		1.17	2	1

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C103.1	2.00	2.00	2.00	2.00	0.67		0.00	0.00		1.33		2.00	1.33	0.67
C103.2	0.00	0.00	0.00	0.00	0.67		1.00	0.00		0.33		0.67	0.67	0.33
C103.3	0.00	2.00	2.00	2.00	0.67		0.00	0.00		0.00		1.33	1.33	0.67
C103.4	0.00	2.00	0.00	2.00	2.00		0.00	2.00		0.00		0.00	1.33	0.67
C103.5	2.00	2.00	2.00	0.00	2.00		0.00	2.00		0.00		0.00	1.33	0.67
C103.6	2.00	0.00	2.00	0.00	0.67		0.00	2.00		0.00		0.00	1.33	0.67
Level	1.00	1.33	1.33	1.00	1.11		0.17	1.00		0.28		0.67	1.22	0.61

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C103	1.5	2	2	1.5	1.83		0.5	1.5		0.5		1.17	2	1
Attainment	1.00	1.33	1.33	1.00	1.11		0.17	1.00		0.28		0.67	1.22	0.61

COURSE CODE / TITLE	ENGINEERING CHEMISTRY	NBA Code	C104
SEMESTER / YEAR	I/I	Academic year	2018-2019
COORDINATOR	Mr.B.Balaprasad / Dr.V.Balamurugan	Credits	3
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)	CO Attainment Level
C104.1	25.4	72	53.36	89.13	60.52	1
C104.2	21.52	72	51.81	85.88	58.62	1
C104.3	22.82	72	52.33	86.35	59.13	1
C104.4	100	72	83.2	86.02	83.76	2
C104.5	0	72	43.2	85.42	51.64	1
C104.6	18.93	72	50.77	87.94	58.21	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	1	1	1		
C104.3	3	2	1	1		1	2		1	1	1	1		
C104.4	3	2	1	1		1	2		1	1	1	1		
C104.5	3	2	1	1		1	2		1	1	1	1		
C104.6	3	2	1	1		1	2		1	1	1	1		
C104	3	2	1	1		1	2		1	1	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	0.00	0.33	0.67		0.33	0.33	0.33	0.33		
C104.2	1.00	0.67	0.33	0.33	0.00	0.33	0.67		0.33	0.33	0.33	0.33		
C104.3	1.00	0.67	0.33	0.33	0.00	0.33	0.67		0.33	0.33	0.33	0.33		
C104.4	2.00	1.33	0.67	0.67	0.00	0.67	1.33		0.67	0.67	0.67	0.67		
C104.5	1.00	0.67	0.33	0.33	0.00	0.33	0.67		0.33	0.33	0.33	0.33		
C104.6	1.00	0.67	0.33	0.33	0.00	0.33	0.67		0.33	0.33	0.33	0.33		
Level	1.17	0.78	0.39	0.39	0.00	0.39	0.78		0.39	0.39	0.39	0.39		

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	0	1	2		1	1	1	1		
Attainment	1.17	0.78	0.39	0.39	0.00	0.39	0.78		0.39	0.39	0.39	0.39		

COURSE CODE / TITLE	PROBLEM SOLVING AND PYTHON PROGRAMMING	NBA Code	C105
SEMESTER / YEAR	I/I	Academic year	2018-2019
COORDINATOR	Ms.R.Sharanya / Mr.R.Karthik	Credits	3
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)	CO Attainment Level
C105.1	46.93	71	61.37	93.41	67.78	2
C105.2	49.51	71	62.41	92.53	68.43	2
C105.3	49.84	71	62.54	93.14	68.66	2
C105.4	55.18	71	64.67	91.04	69.94	2
C105.5	32.2	71	55.48	92.26	62.84	2
C105.6	16.5	71	49.2	91.38	57.64	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	2	1				1	1	1	2	3	3
C105.3	3	3	3	2	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	2	1				3	1		2	2	2
C105.6	3	3	3	2	1				2	1		1	1	2
C105	3	3	3	2.33	1				2	1.17	0.67	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	1.33	0.67				0.67	0.67	0.67	1.33	2.00	2.00
C105.3	2.00	2.00	2.00	1.33	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	1.33	0.67				2.00	0.67	0.00	1.33	1.33	1.33
C105.6	1.00	1.00	1.00	0.67	0.33				0.67	0.33	0.00	0.33	0.33	0.67
Level	1.83	1.83	1.83	1.44	0.61				1.22	0.72	0.44	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	3	3	2.33	1				2	1.17	0.67	1.83	2.33	2.5
Attainment	1.83	1.83	1.83	1.44	0.61				1.22	0.72	0.44	1.17	1.50	1.56

COURSE CODE / TITLE	ENGINEERING GRAPHICS	NBA Code	C106
SEMESTER / YEAR	I/I	Academic year	2018-2019
COORDINATOR	Mr. Kattera Sai Krishna / Mr.M.Sridharan	Credits	3
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)	CO Attainment Level
C106.1	36.41	78	61.36	89.11	66.91	2
C106.2	0	78	46.8	89.04	55.25	1
C106.3	30.26	78	58.9	90.64	65.25	2
C106.4	50.65	78	67.06	89.71	71.59	2
C106.5	39	78	62.4	91.04	68.13	2
C106.6	24.6	78	56.64	90.97	63.5	2

Expected CO 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	1.33		2.00		0.67	0.67	0.67	1.33	2.00	2.00		1.33	1.33	1.33
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	1.33		2.00		0.67	0.67	0.67	1.33	2.00	2.00		1.33	1.33	1.33
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	1.33		2.00		0.67	0.67	0.67	1.33	2.00	2.00		1.33	1.33	1.33
C106.6	1.33		2.00		0.67	0.67	0.67	1.33	2.00	2.00		1.33	1.33	1.33
Level	1.22		1.83		0.61	0.61	0.61	1.22	1.83	1.83		1.22	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
C106	2		3		1	1	1	2	3	3		2	2	2
Attainment	1.22		1.83		0.61	0.61	0.61	1.22	1.83	1.83		1.22	1.22	1.22

COURSE CODE / TITLE	GE8161[PROBLEM SOLVING AND PYTHON PROGRAMMING	NBA Code	C107
SEMESTER / YEAR	I sem/ I	Academic year	2018-2019
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	100.00	100.00	90.034	98.01	80	3
107.2	100.00	100.00	100.00	91.753	98.35	80	3
107.3	100.00	100.00	100.00	90.722	98.14	80	3
107.4	100.00	100.00	100.00	87.973	97.59	80	3
107.5	100.00	100.00	100.00	91.409	98.28	80	3
107.6	100.00	100.00	100.00	86.254	97.25	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

HOD/ECE

FACULTY

1. [J. SANGEETHA PRIYA]

COURSE CODE / TITLE	BS8161[PHYSICS AND CHEMISTRY LABORATORY]	NBA Code	C108
SEMESTER / YEAR	I sem/ I	Academic year	2018-2019
COORDINATOR	P.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	90.00	77.39	82	77.67	81.48	80	3
C108.2	90.00	77.39	82	79.00	81.75	80	3
C108.3	89.00	77.39	82	81.33	81.89	80	3
C108.4	96.00	77.39	85	89.33	85.73	80	3
C108.5	92.00	77.39	83	87.33	84.05	80	3
C108.6	85.00	77.39	80	89.67	82.28	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	1.666666667	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	1.666666667	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	-	-

1) P. Saravana D.
FACULTY

2) G. THULASI G.Thulasi

HOD/ECE

COURSE CODE / TITLE	TECHNICAL ENGLISH	NBA Code	C109
SEMESTER / YEAR	I/II	Academic year	2018-2019
COORDINATOR	Ms.M.Premalatha / Dr.J.Priya	Credits	4
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)	CO Attainment Level
C109.1	43.48	41	41.99	96.62	52.92	1
C109.2	64.35	41	50.34	95.17	59.31	1
C109.3	80	41	56.6	96.14	64.51	2
C109.4	77.39	41	55.56	95.65	63.58	2
C109.5	59.13	41	48.25	96.62	57.93	1
C109.6	67.83	41	51.73	96.62	60.71	1

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									1.00	1.00	0.67	1.00	0.33	0.67
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									2.00	2.00	1.33	2.00	0.67	1.33
C109.5									1.00	1.00	0.67	1.00	0.33	0.67
C109.6									1.00	1.00	0.67	1.00	0.33	0.67
Level									1.33	1.33	0.89	1.33	0.44	0.89

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
									3	3	2	3	1	2
C109									1.33	1.33	0.89	1.33	0.44	0.89
Attainment														

COURSE CODE / TITLE	ENGINEERING MATHEMATICS - II	NBA Code	C110
SEMESTER / YEAR	I/II	Academic year	2018-2019
COORDINATOR	Dr S Revathi / Dr D Geetha	Credits	4
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)	CO Attainment Level
C110.1	56.52	70	64.61	94.76	70.64	2
C110.2	52.17	70	62.87	89.05	68.11	2
C110.3	44.35	70	59.74	90.48	65.89	2
C110.4	41.74	70	58.7	89.05	64.77	2
C110.5	18.26	70	49.3	91.9	57.82	1
C110.6	71.3	70	70.52	90.48	74.51	2

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	2	2	1				1			2		
C110	3	1.67	1.33	1.33	1				1			2		

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C110.1	2.00	0.00	0.00	0.67	0.67				0.67			1.33		
C110.2	2.00	1.33	1.33	0.67	0.67				0.67			1.33		
C110.3	2.00	1.33	1.33	1.33	0.67				0.67			1.33		
C110.4	2.00	1.33	0.67	0.67	0.67				0.67			1.33		
C110.5	1.00	0.67	0.33	0.33	0.33				0.33			0.67		
C110.6	2.00	1.33	1.33	1.33	0.67				0.67			1.33		
Level	1.83	1.00	0.83	0.83	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
C110	3	1.67	1.33	1.33	1				1			2		
Attainment	1.83	1.00	0.83	0.83	0.61				0.61			1.22		

COURSE CODE / TITLE	ENGINEERING MATHEMATICS - II	NBA Code	C110
SEMESTER / YEAR	I/II	Academic year	2018-2019
COORDINATOR	Dr.S.Revathi / Dr.D.Geetha	Credits	4
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)	CO Attainment Level
C110.1	56.52	70	64.61	94.76	70.64	2
C110.2	52.17	70	62.87	89.05	68.11	2
C110.3	44.35	70	59.74	90.48	65.89	2
C110.4	41.74	70	58.7	89.05	64.77	2
C110.5	18.26	70	49.3	91.9	57.82	1
C110.6	71.3	70	70.52	90.48	74.51	2

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	2	2	1				1			2		
C110	3	1.67	1.33	1.33	1				1			2		

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C110.1	2.00	0.00	0.00	0.67	0.67				0.67			1.33		
C110.2	2.00	1.33	1.33	0.67	0.67				0.67			1.33		
C110.3	2.00	1.33	1.33	1.33	0.67				0.67			1.33		
C110.4	2.00	1.33	0.67	0.67	0.67				0.67			1.33		
C110.5	1.00	0.67	0.33	0.33	0.33				0.33			0.67		
C110.6	2.00	1.33	1.33	1.33	0.67				0.67			1.33		
Level	1.83	1.00	0.83	0.83	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
C110	3	1.67	1.33	1.33	1				1			2		
Attainment	1.83	1.00	0.83	0.83	0.61				0.61			1.22		

COURSE CODE / TITLE	PHYSICS FOR ELECTRONICS ENGINEERING	NBA Code	C111
SEMESTER / YEAR	III	Academic year	2018-2019
COORDINATOR	Ms P Saravana Devi / Mr G Anantha Krishnan	Credits	3
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)	CO Attainment Level
C111.1	42.61	63	54.84	85.99	61.07	2
C111.2	57.39	63	60.76	90.34	66.67	2
C111.3	36.52	63	44.41	89.37	53.4	1
C111.4	24.35	63	47.54	81.16	54.26	1
C111.5	37.39	63	52.76	80.68	58.34	1
C111.6	0	63	37.8	80.68	46.38	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	2	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	2.83	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	2.00	1.33	1.33	0.67								0.67	0.67	1.33
C111.2	2.00	1.33	1.33	0.67								0.67	0.67	1.33
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	0.67	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	1.28	0.89	0.89	0.44								0.44	0.44	0.89

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	1.28	0.89	0.89	0.44								0.44	0.44	0.89

COURSE CODE / TITLE	BASIC ELECTRICAL AND INSTRUMENTATION ENGINEERING	NBA Code	C112
SEMESTER / YEAR	I/II	Academic year	2018-2019
COORDINATOR	Ms R.S Priyaa Dharshini / Ms N Karthika	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)	CO Attainment Level
C112.1	20	69	49.4	81.74	55.87	1
C112.2	46.96	69	60.18	82.19	64.58	2
C112.3	30.43	69	53.57	80.37	58.93	1
C112.4	50.43	69	61.57	75.8	64.42	2
C112.5	17.39	69	48.36	80.37	54.76	1
C112.6	0	69	41.4	82.65	49.65	1

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C112.1	3	2	2	2	2	2			2			1	2	2
C112.2	3		2			2			2				2	2
C112.3	3	2	2	2	2							1	2	2
C112.4	3	2	2	2	2							1	2	2
C112.5	3	2	2						2			1		2
C112.6	3	2	2						2			1		2
C112	3	1.67	2	1	1	0.67			1.33			0.83	1.33	2

CO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C112.1	1.00	0.67	0.67	0.67	0.67	0.67			0.67			0.33	0.67	0.67
C112.2	2.00	0.00	1.33	0.00	0.00	1.33			1.33			0.00	1.33	1.33
C112.3	1.00	0.67	0.67	0.67	0.67	0.00			0.00			0.33	0.67	0.67
C112.4	2.00	1.33	1.33	1.33	1.33	0.00			0.00			0.67	1.33	1.33
C112.5	1.00	0.67	0.67	0.00	0.00	0.00			0.67			0.33	0.00	0.67
C112.6	1.00	0.67	0.67	0.00	0.00	0.00			0.67			0.33	0.00	0.67
Level	1.33	0.67	0.89	0.44	0.44	0.33			0.56			0.33	0.67	0.89

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C112	3	1.67	2	1	1	0.67			1.33			0.83	1.33	2
Attainment	1.33	0.67	0.89	0.44	0.44	0.33			0.56			0.33	0.67	0.89

COURSE CODE / TITLE	CIRCUIT ANALYSIS	NBA Code	C113
SEMESTER / YEAR	I/II	Academic year	2018-2019
COORDINATOR	Ms.A Shamim Banu / Ms.P Sivagamasundhari	Credits	4
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)	CO Attainment Level
C113.1	20	77	54.2	94.22	62.2	2
C113.2	13.04	77	51.42	86.67	58.47	1
C113.3	13.04	77	51.42	84.89	58.11	1
C113.4	46.09	77	64.63	84.44	68.6	2
C113.5	15.65	77	52.46	91.11	60.19	1
C113.6	0	77	46.2	92.89	55.54	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	2.00	2.00	0.67	1.33					0.67	0.67		1.33	1.33	
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	2.00	2.00	0.67	1.33					0.67	0.67		1.33	1.33	
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	1.33	1.33	0.44	0.89					0.44	0.44		0.89	0.89	

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	1.33	1.33	0.44	0.89					0.44	0.44		0.89	0.89	

COURSE CODE / TITLE	ELECTRONIC DEVICES	NBA Code	C114
SEMESTER / YEAR	I/II	Academic year	2018-2019
COORDINATOR	Mr.S.Hariprasath / Ms.G.Lakshmi	Credits	3

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)	CO Attainment Level
C114.1	40.87	79	63.75	94.91	69.98	2
C114.2	32.17	79	60.27	93.06	66.83	2
C114.3	64.35	79	73.14	93.06	77.12	2
C114.4	24.35	79	57.14	88.43	63.4	2
C114.5	46.96	79	66.18	86.11	70.17	2
C114.6	11.3	79	51.92	91.2	59.78	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	1	3	
C114.2	3	3	3	1	1	1					1	1	3	
C114.3	3	3	3	1	1	1					1	1	3	
C114.4	3	3	3	1	1	1					1	1	3	
C114.5	3	3	3	1	1	1					1	1	3	
C114.6	3	3	3	1	1	1					1	1	3	
C114	3	3	3	1	1	1					1	1	3	

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C114.1	2.00	2.00	2.00	0.67	0.67	0.67					0.67	0.67	2.00	
C114.2	2.00	2.00	2.00	0.67	0.67	0.67					0.67	0.67	2.00	
C114.3	2.00	2.00	2.00	0.67	0.67	0.67					0.67	0.67	2.00	
C114.4	2.00	2.00	2.00	0.67	0.67	0.67					0.67	0.67	2.00	
C114.5	2.00	2.00	2.00	0.67	0.67	0.67					0.67	0.67	2.00	
C114.6	1.00	1.00	1.00	0.33	0.33	0.33					0.33	0.33	1.00	
Level	1.83	1.83	1.83	0.61	0.61	0.61					0.61	0.61	1.83	

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	1	3	
Attainment	1.83	1.83	1.83	0.61	0.61	0.61					0.61	0.61	1.83	

COURSE CODE / TITLE	EC8261 / Circuits and Devices lab	NBA Code	C115
SEMESTER / YEAR	II sem/ I	Academic year	2018-2019
COORDINATOR	S.Hariprasath, G.Lakshmi	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) (%)	Indirect CO Attainment (Course End Survey)	Over all CO Attainment (0.8xDirect + 0.2xIndirect) (%)	Target	Over all CO Attainment Level
C115.1	99.00	80.70	88.02	87.44	87.90	80	2
C115.2	100.00	80.70	88.42	89.86	88.71	80	2
C115.3	99.00	80.70	88.02	83.57	87.13	80	2
C115.4	100.00	80.70	88.42	92.75	89.29	80	2
C115.5	100.00	80.70	88.42	92.75	89.29	80	2
C115.6	97.00	80.70	87.22	85.51	86.88	80	2

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	2.00	2.00	2.00	0.67	0.67	0.67	-	-	0.67	0.67	0.67	0.67	1.33	-
C115.2	2.00	2.00	2.00	0.67	0.67	0.67	-	-	0.67	0.67	0.67	0.67	1.33	-
C115.3	2.00	2.00	2.00	0.67	0.67	0.67	-	-	0.67	0.67	0.67	0.67	1.33	-
C115.4	2.00	2.00	2.00	0.67	0.67	0.67	-	-	0.67	0.67	0.67	0.67	1.33	-
C115.5	2.00	2.00	2.00	0.67	0.67	0.67	-	-	0.67	0.67	0.67	0.67	1.33	-
C115.6	2.00	2.00	2.00	0.67	0.67	0.67	-	-	0.67	0.67	0.67	0.67	1.33	-
Level	2.00	2.00	2.00	0.67	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
C115	3	3	3	1	1	1	-	-	1	1	1	1	2	-
Attainment	2.00	2.00	2.00	0.67	0.67	0.67	-	-	0.67	0.67	0.67	0.67	1.33	-

FACULTY

HOD/ECE

COURSE CODE / TITLE	GE8261[ENGINEERING PRACTICES LAPORATORY]	NBA Code	C116
SEMESTER / YEAR	II sem/ I	Academic year	2018-2019
COORDINATOR	Ms A Shamim Banu, Ms J Eindhumathy	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) (%)	Indirect CO Attainment (Course End Survey)	Over all CO Attainment (0.8xDirect + 0.2xIndirect) (%)	Target	Over all CO Attainment Level
C116.1	99.00	99.12	99.07	93.24	97.91	80	3
C116.2	99.00	99.12	99.07	88.29	96.92	80	3
C116.4	99.00	99.12	99.07	84.68	96.19	80	3
C116.5	99.00	99.12	99.07	93.24	97.91	80	3
C116.6	99.00	99.12	99.07	86.49	96.56	80	3
C116.3	99.00	99.12	99.07	95.5	98.36	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	2.333333
LEVEL	3	2.66666667	3	2	2	1	-	-	-	-	-	-		

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	2.00
C116.3	3.00	2.00	3.00	2.00	2.00	1.00	-	-	-	-	-	-	1.00	3.00
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	2.66666667	3	2	2	1	-	-	-	-	-	-	1	2.333333
Attainment	3.00	2.67	3.00	2.00	2.00	1.00	-	-	-	-	-	-	1.00	2.33

FACULTY

HOD/ECE

COURSE CODE / TITLE	LINEAR ALGEBRA AND PARTIAL DIFFERENTIAL EQUATIONS	NBA Code	C201
SEMESTER / YEAR	III/II	Academic year	2019-2020
COORDINATOR	Ms N Subashini / Dr D Geetha	Credits	4
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)	CO Attainment Level
C201.1	38.79	75	60.52	0	48.41	1
C201.2	41.38	75	61.55	0	49.24	1
C201.3	52.59	75	66.03	0	52.83	1
C201.4	11.21	75	49.48	0	39.59	1
C201.5	9.48	75	48.79	0	39.03	1
C201.6	25.86	75	55.34	0	44.28	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
C201	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	1.00	0.67	0.33	0.33	0.33	0.00	0.33		0.33	0.67		0.67	0.33	0.33
C201.2	1.00	0.67	0.33	0.33	0.33	0.00	0.33		0.33	0.67		0.67	0.33	0.33
C201.3	1.00	0.67	0.33	0.33	0.33	0.00	0.33		0.33	0.67		0.67	0.33	0.33
C201.4	1.00	0.67	0.33	0.33	0.33	0.00	0.33		0.33	0.67		0.67	0.33	0.33
C201.5	1.00	0.67	0.33	0.33	0.33	0.00	0.33		0.33	0.67		0.67	0.33	0.33
C201.6	1.00	0.67	0.33	0.33	0.33	0.00	0.33		0.33	0.67		0.67	0.33	0.33
Level	1.00	0.67	0.33	0.33	0.33	0.00	0.33		0.33	0.67		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
C201	3	2	1	1	1	0	1		1	2		2	1	1
Attainment	1.00	0.67	0.33	0.33	0.33	0.00	0.33		0.33	0.67		0.67	0.33	0.33

COURSE CODE / TITLE	FUNDAMENTALS OF DATA STRUCTURES IN C	NBA Code	C202
SEMESTER / YEAR	III/II	Academic year	2019-2020
COORDINATOR	Mr.T Sathis Kumar / Ms.N.Kavitha	Credits	3
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)	CO Attainment Level
C202.1	52.59	77	67.23	0	53.79	1
C202.2	41.38	77	62.75	0	50.2	1
C202.3	62.07	77	71.03	0	56.82	1
C202.4	0	77	46.2	0	36.96	1
C202.5	27.59	77	57.23	0	45.79	1
C202.6	27.59	77	57.23	0	45.79	1

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
C202	3	3	2	2	1				1	1			2.5	2

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C202.1	1.00	1.00	0.67	0.67	0.33				0.33	0.33			1.00	0.67
C202.2	1.00	1.00	0.67	0.67	0.33				0.33	0.33			0.00	0.67
C202.3	1.00	1.00	0.67	0.67	0.33				0.33	0.33			1.00	0.67
C202.4	1.00	1.00	0.67	0.67	0.33				0.33	0.33			1.00	0.67
C202.5	1.00	1.00	0.67	0.67	0.33				0.33	0.33			1.00	0.67
C202.6	1.00	1.00	0.67	0.67	0.33				0.33	0.33			1.00	0.67
Level	1.00	1.00	0.67	0.67	0.33				0.33	0.33			0.83	0.67

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			2.5	2
Attainment	1.00	1.00	0.67	0.67	0.33				0.33	0.33			0.83	0.67

COURSE CODE / TITLE	ELECTRONIC CIRCUITS- I	NBA Code	C203
SEMESTER / YEAR	Sem 3 / ECE A & B	Academic year	2019-2020
COORDINATOR	Mr.S.Hariprasath / Dr.M.Padmaa	Credits	3
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)	CO Attainment Level
C203.1	25.86	64	48.74	0	39	1
C203.2	31.03	64	50.81	0	40.65	1
C203.3	19.83	64	46.33	0	37.06	1
C203.4	32.76	64	51.5	0	41.2	1
C203.5	39.66	64	54.26	0	43.41	1
C203.6	13.79	64	43.92	0	35.13	1

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
C203	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	0.67	0.67	0.67	0.33	0.67			0.33	0.33	0.33	0.33	0.67	0.67	0.33
C203.2	0.67	0.67	0.67	0.33	0.67			0.33	0.33	0.33	0.33	0.67	0.67	0.33
C203.3	0.67	0.67	0.67	0.33	0.67			0.33	0.33	0.33	0.33	0.67	0.67	0.33
C203.4	0.67	0.67	0.67	0.33	0.67			0.33	0.33	0.33	0.33	0.67	0.67	0.33
C203.5	0.67	0.67	0.67	0.33	0.67			0.33	0.33	0.33	0.33	0.67	0.67	0.33
C203.6	0.67	0.67	0.67	0.33	0.67			0.33	0.33	0.33	0.33	0.67	0.67	0.33
Level	0.67	0.67	0.67	0.33	0.67			0.33	0.33	0.33	0.33	0.67	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
C203	2	2	2	1	2			1	1	1	1	2	2	1
Attainment	0.67	0.67	0.67	0.33	0.67			0.33	0.33	0.33	0.33	0.67	0.67	0.33

COURSE CODE / TITLE	SIGNALS AND SYSTEMS	NBA Code	C204
SEMESTER / YEAR	Sem 3 / ECE A & B	Academic year	2019-2020
COORDINATOR	Dr.M.Santhi / Dr.V.Mohan	Credits	4
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)	CO Attainment Level
C204.1	47.41	74	63.37	0	50.69	1
C204.2	60.34	74	68.54	0	54.83	1
C204.3	61.21	74	68.88	0	55.11	1
C204.4	14.66	74	50.26	0	40.21	1
C204.5	10.34	74	48.54	0	38.83	1
C204.6	25.86	74	54.74	0	43.8	1

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			2	2
C204.6	2	2	2	1	1					1			2	2
C204	2	2	2	1	1					1		0.67	2	2

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C204.1	0.67	0.67	0.67	0.33	0.33					0.33	0.00	0.33	0.67	0.67
C204.2	0.67	0.67	0.67	0.33	0.33					0.33	0.00	0.33	0.67	0.67
C204.3	0.67	0.67	0.67	0.33	0.33					0.33	0.00	0.33	0.67	0.67
C204.4	0.67	0.67	0.67	0.33	0.33					0.33	0.00	0.33	0.67	0.67
C204.5	0.67	0.67	0.67	0.33	0.33					0.33	0.00	0.00	0.67	0.67
C204.6	0.67	0.67	0.67	0.33	0.33					0.33	0.00	0.00	0.67	0.67
Level	0.67	0.67	0.67	0.33	0.33					0.33	0.00	0.22	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
C204	2	2	2	1	1					1	0	0.67	2	2
Attainment	0.67	0.67	0.67	0.33	0.33					0.33	0.00	0.22	0.67	0.67

COURSE CODE / TITLE	DIGITAL ELECTRONICS	NBA Code	C205
SEMESTER / YEAR	III/II	Academic year	2019-2020
COORDINATOR	Dr.S.Rajeswari / Dr.S.A.Arunmozhi	Credits	3
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)	CO Attainment Level
C205.1	25.86	62	47.54	0	38.04	1
C205.2	25	62	47.2	0	37.76	1
C205.3	26.72	62	47.89	0	38.31	1
C205.4	13.79	62	42.72	0	34.17	1
C205.5	6.03	62	39.61	0	31.69	1
C205.6	8.62	62	40.65	0	32.52	1

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
C205	2	2	2	1.17	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	0.67	0.67	0.67	0.33	0.33					0.33		0.33	0.67	0.67
C205.2	0.67	0.67	0.67	0.33	0.33					0.33		0.33	0.67	0.67
C205.3	0.67	0.67	0.67	0.33	0.33					0.33		0.33	0.67	0.67
C205.4	0.67	0.67	0.67	0.33	0.33					0.33		0.33	0.67	0.67
C205.5	0.67	0.67	0.67	0.33	0.33					0.33		0.33	0.67	0.67
C205.6	0.67	0.67	0.67	0.67	0.33					0.33		0.33	0.67	0.67
Level	0.67	0.67	0.67	0.39	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
C205	2	2	2	1.17	1					1		1	2	2
Attainment	0.67	0.67	0.67	0.39	0.33					0.33		0.33	0.67	0.67

COURSE CODE / TITLE	CONTROL SYSTEMS ENGINEERING	NBA Code	C206
SEMESTER / YEAR	Sem 3 / ECE A & B	Academic year	2019-2020
COORDINATOR	Dr.C.Vennila / Dr M.Baritha Begum	Credits	3
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)	CO Attainment Level
C206.1	57.76	74	67.5	0	54	1
C206.2	29.31	74	56.12	0	44.9	1
C206.3	21.55	74	53.02	0	42.42	1
C206.4	25	74	54.4	0	43.52	1
C206.5	9.48	74	48.19	0	38.55	1
C206.6	0	74	44.4	0	35.52	1

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			2	2
C206.6	2	2	2	1	1					1			2	2
C206	2	2	2	1	1					1		0.67	2	2

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C206.1	0.67	0.67	0.67	0.33	0.33					0.33	0.00	0.33	0.67	0.67
C206.2	0.67	0.67	0.67	0.33	0.33					0.33	0.00	0.33	0.67	0.67
C206.3	0.67	0.67	0.67	0.33	0.33					0.33	0.00	0.33	0.67	0.67
C206.4	0.67	0.67	0.67	0.33	0.33					0.33	0.00	0.33	0.67	0.67
C206.5	0.67	0.67	0.67	0.33	0.33					0.33	0.00	0.00	0.67	0.67
C206.6	0.67	0.67	0.67	0.33	0.33					0.33	0.00	0.00	0.67	0.67
Level	0.67	0.67	0.67	0.33	0.33					0.33	0.00	0.22	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
C206	2	2	2	1	1					1	0	0.67	2	2
Attainment	0.67	0.67	0.67	0.33	0.33					0.33	0.00	0.22	0.67	0.67

COURSE CODE / TITLE	EC6312 OOPS AND DATA STRUCTURES LAB	NBA Code	C207
SEMESTER / YEAR	III sem/ II	Academic year	2019-2020
COORDINATOR	K MOHANAPRIYA	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
C207.1	95.00	93.04	93.82	86.88	92.44	80	3
C207.2	95.00	93.04	93.82	86.17	92.29	80	3
C207.3	95.00	93.04	93.82	85.46	92.15	80	3
C207.4	100.00	93.04	95.82	79.79	92.62	80	3
C207.5	100.00	93.04	95.82	84.75	93.61	80	3
C207.6	79.00	93.04	87.42	80.14	85.97	80	3

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
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

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

Attainment of POs & PSOs level

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

FACULTY

HOD

COURSE CODE / TITLE	ANALOG AND DIGITAL CIRCUITS LAB EC8361	NBA Code	C208
SEMESTER / YEAR	III sem/ II	Academic year	2016-2018
COORDINATOR	Dr V Mohan & Dr M Barsha Begum	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
C208.1	99.00	98.26	98.56	88.78	96.60	80	3
C208.2	100.00	98.26	98.96	83.33	95.83	80	3
C208.3	100.00	98.26	98.96	83.67	95.90	80	3
C208.4	95.00	98.26	96.96	85.37	94.64	80	3
C208.5	100.00	98.26	98.96	88.78	96.92	80	3
C208.6	100.00	98.26	98.96	81.63	95.49	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	2	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	2	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

FACULTY

HOD

COURSE CODE / TITLE	HS8381-INTERPERSONAL SKILLS/LISTENING &SPEAKING	NBA Code	C209
SEMESTER / YEAR	III sem/ II	Academic year	2019-2020
COORDINATOR	Dr.M Bhuvaneswari & S.Sandra	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
C209.1	100.00	100.00	100.00	88.89	97.78	80	3
C209.2	100.00	100.00	100.00	88.54	97.71	80	3
C209.3	100.00	100.00	100.00	87.85	97.57	80	3
C209.4	100.00	100.00	100.00	87.15	97.43	80	3
C209.5	100.00	100.00	100.00	87.85	97.57	80	3
C209.6	100.00	100.00	100.00	87.50	97.50	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	-	-

FACULTY

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	2020-2021
COORDINATOR	Ms.V.Ramya / Mr.K.Malainam		
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
C310.1	94.96	100	97.98	93.28	97.04	3
C310.2	94.96	100	97.98	79.55	94.3	3
C310.3	38.97	100	74.79	94.88	78.77	2
C310.4	100	100	100	100	100	3
C310.5	100	100	100	81.79	96.36	3
C310.6	0	100	60	88.8	65.76	2

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
LEVEL	2	2	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
C310.1	2.00	2.00	1.00	1.00	1.00	-	-	-	-	1.00	1.00	1.00	2.00	2.00
C310.2	2.00	2.00	1.00	1.00	1.00	-	-	-	-	1.00	1.00	1.00	2.00	2.00
C310.3	1.33	1.33	0.67	0.67	0.67	0.67	0.67	-	-	0.67	0.67	0.67	1.33	1.33
C310.4	2.00	2.00	1.00	1.00	1.00	1.00	1.00	-	-	-	1.00	1.00	2.00	2.00
C310.5	2.00	2.00	1.00	1.00	1.00	1.00	1.00	-	-	-	1.00	1.00	2.00	2.00
C310.6	1.33	1.33	0.67	0.67	0.67	0.67	0.67	0.67	-	-	0.67	0.67	1.33	1.33
Level	1.78	1.78	0.89	0.89	0.89	0.83	0.83	0.67	-	0.89	0.89	0.89	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
C310	2	2	1	1	1	1	1	1	-	1	1	1	2	2
Attainment	1.78	1.78	0.89	0.89	0.89	0.83	0.83	0.67	-	0.89	0.89	0.89	1.78	1.78

HOD/ECE

COURSE CODE / TITLE	EC8562 DIGITAL SIGNAL PROCESSING LAB	NBA Code	C307
SEMESTER / YEAR	V sem/ III	Academic year	2020-2021
COORDINATOR	DR.P.SHANMUGAPRIYA	Credits	2
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)	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	OTL552 DIGITAL AUDIO ENGINEERING	NBA Code	C306OE1
SEMESTER / YEAR	V sem, III Year	Academic year	2020-2021
COORDINATOR	Ms.V.Ramya, Ms.R.Devi		
CO Attainment Level: 1-(70%-80%), 2-(81%-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
C306OE1.1	96.61	73	82.44	80.11	81.98	2
C306OE1.2	48.31	73	63.12	80.39	66.58	2
C306OE1.3	88.98	73	79.39	80.95	79.7	2
C306OE1.4	100	73	83.8	83.19	83.68	2
C306OE1.5	67.46	73	82.76	70.87	80.4	2
C306OE1.6	0	73	43.8	77.87	50.61	1

Expected CO-PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C306OE1.1	2	2	2	1	1	1	1	-	-	1	-	2	2	2
C306OE1.2	2	2	2	1	1	1	1	-	-	1	-	2	2	2
C306OE1.3	2	2	2	1	1	1	1	-	-	1	-	2	2	2
C306OE1.4	2	2	2	1	1	1	1	-	-	1	-	2	2	2
C306OE1.5	2	2	2	1	1	1	1	-	-	1	-	2	2	2
C306OE1.6	2	2	2	1	1	1	1	-	-	1	-	2	2	2
LEVEL	2	2	2	1	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
C306OE1.1	1.33	1.33	1.33	0.67	0.67	0.67	0.67	-	-	0.67	-	1.33	1.33	1.33
C306OE1.2	1.33	1.33	1.33	0.67	0.67	0.67	0.67	-	-	0.67	-	1.33	1.33	1.33
C306OE1.3	1.33	1.33	1.33	0.67	0.67	0.67	0.67	-	-	0.67	-	1.33	1.33	1.33
C306OE1.4	1.33	1.33	1.33	0.67	0.67	0.67	0.67	-	-	0.67	-	1.33	1.33	1.33
C306OE1.5	1.33	1.33	1.33	0.67	0.67	0.67	0.67	-	-	0.67	-	1.33	1.33	1.33
C306OE1.6	0.67	0.67	0.67	0.33	0.33	0.33	0.33	-	-	0.33	-	0.67	0.67	0.67
Level	1.22	1.22	1.22	0.61	0.61	0.61	0.61	-	-	0.61	-	1.22	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
C306OE1	2	2	2	1	1	1	1	-	-	1	-	2	2	2
Attainment	1.22	1.22	1.22	0.61	0.61	0.61	0.61	-	-	0.61	-	1.22	1.22	1.22

HOD/ECE

Saranathan College of Engineering

Department of Electronics and Communication Engineering

COURSE CODE / TITLE	EC8552 Computer Architecture and Organization	NBA Code	C303
SEMESTER / YEAR	V sem III Year	Academic year	2020-2021
COORDINATOR	Ms.J.Sangeetha Priya / Ms.A.Sheelavathi		
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
C303.1	98.31	59	74.72	92.31	78.24	2
C303.2	100	59	75.4	80.63	76.45	2
C303.3	0	59	35.4	84.02	47.12	1
C303.4	48.31	59	54.72	99.35	63.61	2
C303.5	0	59	35.4	88.03	45.93	1
C303.6	48.31	59	54.72	88.6	61.5	2

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
C303.2	2	2	2	2	-	1	-	-	-	-	1	1	3	3
C303.3	2	2	2	2	-	1	-	-	-	-	1	1	3	3
C303.4	2	2	2	2	-	1	-	-	-	-	1	1	3	3
C303.5	2	2	2	2	-	1	-	-	-	-	1	1	3	3
C303.6	2	2	2	2	-	1	-	-	-	-	1	1	3	3
LEVEL	2	2	2	2	-	1	-	-	-	-	1	1	3	3

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	0.67	0.67	0.67	0.67	-	0.33	-	-	-	-	0.33	0.33	1.00	1.00
C303.4	1.33	1.33	1.33	1.33	-	0.67	-	-	-	-	0.67	0.67	2.00	2.00
C303.5	0.67	0.67	0.67	0.67	-	0.33	-	-	-	-	0.33	0.33	1.00	1.00
C303.6	1.33	1.33	1.33	1.33	-	0.67	-	-	-	-	0.67	0.67	2.00	2.00
Level	1.11	1.11	1.11	1.11	-	0.56	-	-	-	-	0.56	0.56	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
C303	2	2	2	2	-	1	-	-	-	-	1	1	3	3
Attainment	1.11	1.11	1.11	1.11	-	0.56	-	-	-	-	0.56	0.56	1.67	1.67

HOD/ECE

Saranathan College of Engineering

Department of Electronics and Communication Engineering

COURSE CODE / TITLE	EC8501 Digital Communication	**NBA Code**	C301
SEMESTER / YEAR	V sem / III Year	**Academic year**	2020-2021
COORDINATOR	Dr.S.Rajeswari / Dr.M.Baritha Begum		
CO Attainment Level: 1-(60%-80%) 2-(81%-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
C301.1	95.76	79	85.71	93.28	87.22	2
C301.2	46.61	79	66.04	82.19	69.47	2
C301.3	98.31	79	88.72	94.88	88.31	2
C301.4	60.83	79	67.74	100	74.19	2
C301.5	99.15	79	87.06	87.60	87.18	2
C301.6	2	79	47.4	88.8	55.68	1

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
LEVEL	2	2	2	1.6666667	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
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	0.67	0.67	0.67	0.33	0.67	0.33	-	-	0.33	0.33	0.33	0.67	0.67	0.67
Level	1.22	1.22	1.22	1.06	1.22	0.61	-	-	0.61	0.61	0.61	1.22	1.00	1.22

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	1.6666667	2	1	-	-	1	1	1	2	2	2
Attainment	1.22	1.22	1.22	1.06	1.22	0.61	-	-	0.61	0.61	0.61	1.22	1.00	1.22

HOD/ECE

Saranathan College of Engineering

Department of Electronics and Communication Engineering

COURSE CODE / TITLE	EC8553 Discrete-Time Signal Processing	NBA Code	C302
SEMESTER / YEAR	V sem III Year	Academic year	2020-2021
COORDINATOR	Dr.P.Sharmilagayeva / Mr.V.Kousheck		
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
C302.1	88.14	100	95.25	93.28	94.86	3
C302.2	47.46	100	78.98	82.63	79.71	2
C302.3	100	100	100	94.68	98.94	3
C302.4	0	100	60	100	68	2
C302.5	0	100	60	86.27	65.25	2
C302.6	0	100	60	88.8	65.76	2

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	3	3
C302.2	3	3	3	2	3	1	1	1	2	2	2	2	3	3
C302.3	3	3	3	2	3	1	1	1	2	2	2	2	3	3
C302.4	3	3	3	3	3	1	1	1	2	2	2	2	3	3
C302.5	3	3	3	3	3	1	1	1	2	2	2	2	3	3
C302.6	3	3	3	3	3	1	1	1	2	2	2	2	3	3
LEVEL	3	3	3	2.3333333	3	1	1	1	2	2	2	2	3	3

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C302.1	3.00	3.00	3.00	2.00	3.00	1.00	1.00	1.00	2.00	2.00	2.00	2.00	3.00	3.00
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	3.00	3.00	3.00	2.00	3.00	1.00	1.00	1.00	2.00	2.00	2.00	2.00	3.00	3.00
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	2.00	2.00	0.67	0.67	0.67	1.33	1.33	1.33	1.33	2.00	2.00
C302.6	2.00	2.00	2.00	2.00	2.00	0.67	0.67	0.67	1.33	1.33	1.33	1.33	2.00	2.00
Level	2.33	2.33	2.33	1.78	2.33	0.78	0.78	0.78	1.56	1.56	1.56	1.56	2.33	2.33

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	2.3333333	3	1	1	1	2	2	2	2	3	3
Attainment	2.33	2.33	2.33	1.78	2.33	0.78	0.78	0.78	1.56	1.56	1.56	1.56	2.33	2.33

HOD/ECE

Saranathan College of Engineering

Department of Electronics and Communication Engineering

COURSE CODE / TITLE	EC8551 Communication Networks	NBA Code	C304
SEMESTER / YEAR	V sem III Year	Academic year	2020-2021
COORDINATOR	Mr M Mahendran Dr S A Anandhi		
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
C304.1	87.29	96	92.52	85.99	91.21	3
C304.2	83.9	96	91.16	85.15	89.98	2
C304.3	71.19	96	86.07	87.96	86.45	2
C304.4	71.19	96	86.07	91.04	87.07	2
C304.5	0	96	57.6	77.31	61.56	2
C304.6	0	96	57.6	83.47	62.77	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
LEVEL	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	2.00	2.00	1.00	1.00	1.00	-	-	-	-	1.00	-	1.00	1.00	2.00
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	1.44	1.44	0.72	0.72	0.72	-	-	-	-	0.72	-	0.72	0.72	1.44

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	1.44	1.44	0.72	0.72	0.72	-	-	-	-	0.72	-	0.72	0.72	1.44

HOD/ECE

Saranathan College of Engineering

Department of Electronics and Communication Engineering

COURSE CODE / TITLE	EC8073 MEDICAL ELECTRONICS	NBA Code	C305PE1
SEMESTER / YEAR	V sem, III Year	Academic year	2020-2021
COORDINATOR	Ms.M.Anthuvan Lydia, Mr.V.Dinesh		
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-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
C305PE1.1	94.87	89	91.03	80.11	88.84	2
C305PE1.2	50.85	89	73.74	80.29	75.07	2
C305PE1.3	87.24	89	88.32	81.23	86.9	2
C305PE1.4	0	89	53.4	83.19	59.38	1
C305PE1.5	94.42	89	91.27	75.63	88.22	2
C305PE1.6	88.98	89	88.99	78.15	86.82	2

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
LEVEL	2	2	2	1	1	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	0.67	0.67	0.67	0.33	0.33	0.67	0.67	0.33	-	0.33	0.33	0.67	0.67	0.33
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	1.33	1.33	1.33	0.67	-	1.33	1.33	0.67	-	0.67	0.67	1.33	1.33	0.67
Level	1.22	1.22	1.22	0.61	0.58	1.22	1.22	0.61	-	0.61	0.61	1.22	1.22	0.61

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	1	2	2	1	-	1	1	2	2	1
Attainment	1.22	1.22	1.22	0.61	0.58	1.22	1.22	0.61	-	0.61	0.61	1.22	1.22	0.61

HOD/ECE

COURSE CODE / TITLE	EC8561 COMMUNICATION SYSTEM LAB	**NBA Code**	C308
SEMESTER / YEAR	V sem/ III	**Academic year**	2020-2021
COORDINATOR	Dr S RAJESWARI	**Credits**	2
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)	Target	CO Attainment Level
C308.1	[illegible]	[illegible]	90.50	80	3
C308.2	[illegible]	[illegible]	90.50	80	3
C308.3	[illegible]	[illegible]	90.50	80	3
C308.4	[illegible]	[illegible]	90.50	80	3
C308.5	[illegible]	[illegible]	90.50	80	3
C308.6	[illegible]	[illegible]	90.50	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

COURSE CODE / TITLE	EC8563 COMMUNICATION NETWORKS LAB	**NBA Code**	C309
SEMESTER / YEAR	V sem. III	**Academic year**	2020-2021
COORDINATOR	MR.M.MAHENDRAN	**Credits**	2
Level 1 (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)	Target	CO Attainment Level
C309.1	[illegible]	[illegible]	[illegible]	80	3
C309.2	[illegible]	[illegible]	[illegible]	80	3
C309.3	[illegible]	[illegible]	[illegible]	80	3
C309.4	[illegible]	[illegible]	[illegible]	80	3
C309.5	[illegible]	[illegible]	[illegible]	80	3
C309.6	[illegible]	[illegible]	[illegible]	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
[illegible]	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

Saraswathan 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	2020-2021
COORDINATOR	Dr.C Vennila / Dr.M Sarthi		
CO Attainment Level 1-(0%-60%), 2-(61%-80%), 3-(81% 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	100	97	98.2	93.28	97.22	3
C311.2	95.42	97	78.37	79.55	78.6	2
C311.3	98.32	97	97.53	94.88	98.96	3
C311.4	100	97	98.2	100	98.56	3
C311.5	100	97	98.2	85.71	95.7	3
C311.6	0	97	58.2	88.8	64.32	2

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	1	1	1	1	2	2	2
LEVEL	2	2	2	2	1	1.5	1.166667	1.5	1	1	1	2	2	2

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C311.1	2.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	2.00
C311.2	1.33	1.33	1.33	1.33	0.67	0.67	0.67	0.67	0.67	0.67	0.67	1.33	1.33	1.33
C311.3	2.00	2.00	2.00	2.00	1.00	2.00	2.00	2.00	1.00	1.00	1.00	2.00	2.00	2.00
C311.4	2.00	2.00	2.00	2.00	1.00	2.00	1.00	2.00	1.00	1.00	1.00	2.00	2.00	2.00
C311.5	2.00	2.00	2.00	2.00	1.00	2.00	1.00	2.00	1.00	1.00	1.00	2.00	2.00	2.00
C311.6	1.33	1.33	1.33	1.33	0.67	0.67	0.67	0.67	0.67	0.67	0.67	1.33	1.33	1.33
Level	1.78	1.78	1.78	1.78	0.89	1.39	1.06	1.39	0.89	0.89	0.89	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
C311	2	2	2	2	1	1.5	1.166667	1.5	1	1	1	2	2	2
Attainment	1.78	1.78	1.78	1.78	0.89	1.39	1.06	1.39	0.89	0.89	0.89	1.78	1.78	1.78

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	2020-2021
COORDINATOR	Mr M Mahendran Mr G Sivakumar		
CO Attainment Level: 1 - (60%-80%), 2 - (81%-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
C312.1	46.22	100	78.49	93.28	81.95	2
C312.2	93.28	100	97.31	81.51	94.15	3
C312.3	99.16	100	99.66	84.4	98.61	3
C312.4	99.16	100	99.66	89.7	99.67	3
C312.5	100	100	100	87.68	97.54	3
C312.6	0	100	60	88.52	65.7	2

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
LEVEL	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	2.00	2.00	1.00	1.00	-	-	-	-	-	2.00	1.00	1.00	2.00	2.00
C312.3	2.00	2.00	1.00	1.00	-	-	-	-	-	2.00	1.00	1.00	2.00	2.00
C312.4	2.00	2.00	1.00	1.00	-	-	-	-	-	2.00	1.00	1.00	2.00	2.00
C312.5	2.00	2.00	1.00	1.00	-	-	-	-	-	2.00	1.00	1.00	2.00	2.00
C312.6	1.33	1.33	0.67	0.67	-	-	-	-	-	1.33	0.67	0.67	1.33	1.33
Level	1.78	1.78	0.89	0.89	-	-	-	-	-	1.78	0.89	0.89	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
C312	2	2	1	1	-	-	-	-	-	2	1	1	2	2
Attainment	1.78	1.78	0.89	0.89	-	-	-	-	-	1.78	0.89	0.89	1.78	1.78

HOD/ECE

Saranathan College of Engineering

Department of Electronics and Communication Engineering

COURSE CODE / TITLE	Principles of Management	NBA Code	C313
SEMESTER / YEAR	VI sem, III Year	Academic year	2020-2021
COORDINATOR	Dr V Mahalakshmi, Dr R Monish		
CO Attainment Level: 1 - (0%-60%), 2 - (61%-80%), 3-(81% and Above)		Credits	3

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
C313.1	92.44	98	95.77	92.28	95.28	3
C313.2	92.44	98	95.77	79.55	92.53	3
C313.3	0	98	58.8	94.68	85.98	2
C313.4	0	98	58.8	100	87.04	2
C313.5	0	98	58.8	87.29	84.52	2
C313.6	0	98	58.8	88.8	84.8	2

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C313.1	3	3	3	3	3	3	3	3	3	3	3	3	-	-
C313.2	3	3	3	3	3	3	3	3	3	3	3	3	-	-
C313.3	3	3	3	3	2	2	3	2	2	3	3	2	-	-
C313.4	3	3	3	3	3	3	2	2	2	2	2	2	-	-
C313.5	3	3	3	3	3	2	3	3	3	2	3	2	-	-
C313.6	3	3	3	3	3	3	2	3	3	2	3	3	-	-
Level	2.5	2.666666667	2.833333333	2.5	2.6666667	2.666667	2.5	2.5	2.5	2.5	2.5	2.5	-	-

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C313.1	2.00	2.00	2.00	2.00	3.00	3.00	3.00	2.00	3.00	3.00	3.00	3.00	-	-
C313.2	2.00	2.00	2.00	2.00	3.00	3.00	3.00	3.00	3.00	3.00	2.00	3.00	-	-
C313.3	1.33	2.00	2.00	2.00	1.33	1.33	2.00	1.33	1.33	2.00	2.00	1.33	-	-
C313.4	2.00	2.00	2.00	2.00	2.00	2.00	1.33	1.33	1.33	1.33	1.33	1.33	-	-
C313.5	2.00	1.33	1.33	1.33	2.00	1.33	1.33	2.00	1.33	1.33	2.00	1.33	-	-
C313.6	2.00	2.00	1.33	2.00	1.33	2.00	1.33	2.00	2.00	1.33	1.33	2.00	-	-
Level	1.89	2.06	1.78	1.89	2.11	2.11	2.00	1.94	2.00	2.00	1.94	2.00	-	-

Attainment of POs & PSOs level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C313	2.5	2.666666667	2.833333333	2.5	2.6666667	2.666667	2.5	2.5	2.5	2.5	2.5	2.5	-	-
Attainment	1.89	2.06	1.78	1.89	2.11	2.11	2.00	1.94	2.00	2.00	1.94	2.00	-	-

HOD/ECE

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**	2020-2021
COORDINATOR	Dr P Shanmugapriya / Dr M Banitha Begum		
CO Attainment Level: 1 - (0% - 65%), 2 - (66%-80%), 3-(81% 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
C314.1	87.48	100	96.99	93.28	97.85	3
C314.2	69.75	101	87.9	83.19	86.96	2
C314.3	100	100	100	94.68	98.94	3
C314.4	100	100	100	100	100	3
C314.5	52.94	100	81.18	88.24	82.59	2
C314.6	0	100	60	88.8	65.76	2

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
LEVEL	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	3.00	3.00	3.00	1.00	1.00	-	-	-	-	-	1.00	1.00	3.00	1.00
C314.2	2.00	2.00	2.00	0.67	0.67	-	-	-	-	-	0.67	0.67	2.00	0.67
C314.3	3.00	3.00	3.00	1.00	1.00	-	-	-	-	-	1.00	1.00	3.00	1.00
C314.4	3.00	3.00	3.00	1.00	1.00	-	-	-	-	-	1.00	1.00	3.00	1.00
C314.5	2.00	2.00	2.00	0.67	0.67	-	-	-	-	-	0.67	0.67	2.00	0.67
C314.6	2.00	2.00	2.00	0.67	0.67	-	-	-	-	-	0.67	0.67	2.00	0.67
Level	2.50	2.50	2.50	0.83	0.83	-	-	-	-	-	0.83	0.83	2.50	0.83

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	2.50	2.50	2.50	0.83	0.83	-	-	-	-	-	0.83	0.83	2.50	0.83

HOD/ECE

Saranathan College of Engineering

Department of Electronics and Communication Engineering

COURSE CODE / TITLE	WIRELESS NETWORKS	**NBA Code**	C315PE6
SEMESTER / YEAR	VI sem / III Year	**Academic year**	2020-2021
COORDINATOR	Dr.S.Rajeswari / Dr.S.A.Arunmozhi		
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
C315PE6.1	99.16	98	98.46	93.28	97.43	3
C315PE6.2	99.16	98	98.46	79.55	94.68	3
C315PE6.3	100	98	98.8	94.68	97.98	3
C315PE6.4	100	98	98.8	100	99.04	3
C315PE6.5	100	98	98.8	85.99	98.24	3
C315PE6.6	0	98	58.8	88.8	64.8	2

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C315PE6.1	2	2	2	1	1	1	-	-	1	1	1	1	1	2
C315PE6.2	2	2	2	1	1	1	-	-	1	1	1	1	1	2
C315PE6.3	2	2	2	1	1	1	-	-	1	1	1	1	1	2
C315PE6.4	2	2	2	1	1	1	-	-	1	1	1	1	1	2
C315PE6.5	2	2	2	1	1	1	-	-	1	1	1	1	1	2
C315PE6.6	2	2	2	1	1	1	-	-	1	1	1	1	1	2
LEVEL	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
C315PE6.1	2.00	2.00	2.00	1.00	1.00	1.00	-	-	1.00	1.00	1.00	1.00	1.00	2.00
C315PE6.2	2.00	2.00	2.00	1.00	1.00	1.00	-	-	1.00	1.00	1.00	1.00	1.00	2.00
C315PE6.3	2.00	2.00	2.00	1.00	1.00	1.00	-	-	1.00	1.00	1.00	1.00	1.00	2.00
C315PE6.4	2.00	2.00	2.00	1.00	1.00	1.00	-	-	1.00	1.00	1.00	1.00	1.00	2.00
C315PE6.5	2.00	2.00	2.00	1.00	1.00	1.00	-	-	1.00	1.00	1.00	1.00	1.00	2.00
C315PE6.6	1.33	1.33	1.33	0.67	0.67	0.67	-	-	0.67	0.67	0.67	0.67	0.67	1.33
Level	1.89	1.89	1.89	0.94	0.94	0.94	-	-	0.94	0.94	0.94	0.94	0.94	1.89

Attainment of PO & PSO level

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C315PE6	2	2	2	1	1	1	-	-	1	1	1	1	1	2
Attainment	1.89	1.89	1.89	0.94	0.94	0.94	-	-	0.94	0.94	0.94	0.94	0.94	1.89

HOD/ECE

COURSE CODE / TITLE	EC8681 Microprocessor and Microcontroller Lab	NBA Code	C316
SEMESTER / YEAR	VI sem III	Academic year	2019-2020
COORDINATOR	M.Anbuselvan (vice V.Dinesh)	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-UNT) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNT) (%)	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 PO & PSO 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	2019-2020
COORDINATOR	R.DEVI, 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-UNT) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNT) (%)	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	1.166667	1.166667	-	-	2	1	1	1.666667	1.166667

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	1.166667	1.166667	-	-	2	1	1	1.666667	1.166667

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	1.166667	1.166667	-	-	2	1	1	1.666667	1.166667
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

COURSE CODE / TITLE	EC8611 / Technical Seminar	NBA Code	C318
SEMESTER / YEAR	VI sem III	Academic year	2019-2020
COORDINATOR	Dr.S.Rajeswari & Dr.M.Padma	Credits	1
CO Attainment Level: 1-(<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	1058581 / Professional Communication	NBA Code	C319
SEMESTER / YEAR	VI sem III	Academic year	2019-2020
COORDINATOR	Mr.Sriram	Credits	1
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) (%)	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
C319	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

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	2021-2022
COORDINATOR	Dr V Mohan / Dr P Shanmugapriya		
CO Attainment Level: 1-(0% - 60%) 2-(61%-90%) 3-(91% and		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
C401.1	61.34	100	84.54	85.15	84.66	2
C401.2	42.02	100	76.81	80.95	77.64	2
C401.3	48.74	100	79.5	82.91	80.18	2
C401.4	63.03	100	85.21	82.07	84.58	2
C401.5	45.38	100	78.15	84.31	79.38	2
C401.6	0	100	60	81.23	64.25	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
C401	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

HOD/ECE

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	2021-2022
COORDINATOR	Dr K. Malaisamy / Ms A Shamim Banu		
CO Attainment Level	1 - (0% - 60%) 2- (61%-90%) 3-(91% and	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
C402.1	100	100	100	81.79	96.36	3
C402.2	100	100	100	82.35	96.47	3
C402.3	100	100	100	84.03	96.81	3
C402.4	28.57	100	71.43	82.91	73.72	2
C402.5	42.02	100	76.81	82.35	77.92	2
C402.6	0	100	60	82.63	64.53	2

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
C402	2	2	1	1	1	0.83	0.67	0.33	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	2.00	2.00	1.00	1.00	1.00				1.00	1.00	1.00	1.00	2.00	2.00
C402.2	2.00	2.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	2.00	2.00
C402.3	2.00	2.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	2.00	2.00
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	1.33	1.33	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	1.33	1.33
Level	1.67	1.67	0.83	0.83	0.83	0.80	0.83	0.67	0.83	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
C402	2	2	1	1	1	0.83	0.67	0.33	1	1	1	1	2	2
Attainment	1.67	1.67	0.83	0.83	0.83	0.80	0.83	0.67	0.83	0.83	0.83	0.83	1.67	1.67

HOD/ECE

Saranathan College of Engineering

Department of Electronics and Communication Engineering

COURSE CODE / TITLE	EC8791 EMBEDDED AND REAL TIME SYSTEMS	**NBA Code**	C403
SEMESTER / YEAR	VII sem / IV Year	**Academic year**	2021-2022
COORDINATOR	Ms.P Sivagamasundhari / Ms.J.Endhumathy		
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
C403.1	95	100	97.98	82.63	94.91	3
C403.2	99	100	99.66	80.95	95.92	3
C403.3	98	100	99.33	83.19	96.1	3
C403.4	66	100	86.55	81.79	85.6	2
C403.5	78	100	91.26	82.07	89.42	2
C403.6	24	100	69.41	81.23	71.78	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	1	2	2
C403.2	2	2	1	1	1	1			1	1	1	1	2	2
C403.3	2	2	1	1	1	1			1	1	1	1	2	2
C403.4	2	2	1	1	1	1			1	1	1	1	2	2
C403.5	2	2	1	1	1	1			1	1	1	1	2	2
C403.6	2	2	1	1	1	1			1	1	1	1	2	2
C403	2	2	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
C403.1	2.00	2.00	1.00	1.00	1.00	1.00			1.00	1.00	1.00	1.00	2.00	2.00
C403.2	2.00	2.00	1.00	1.00	1.00	1.00			1.00	1.00	1.00	1.00	2.00	2.00
C403.3	2.00	2.00	1.00	1.00	1.00	1.00			1.00	1.00	1.00	1.00	2.00	2.00
C403.4	1.33	1.33	0.67	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	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	0.67	1.33	1.33
Level	1.67	1.67	0.83	0.83	0.83	0.83			0.83	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
C403	2	2	1	1	1	1			1	1	1	1	2	2
Attainment	1.67	1.67	0.83	0.83	0.83	0.83			0.83	0.83	0.83	0.83	1.67	1.67

HOD/ECE

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	2021-2022
COORDINATOR	Dr.S.Rajeswari / Dr.S.A.Arunmozhi		
CO Attainment Level: 1 - (0% - 60%) 2- (61%-90%) 3-(91% and		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
C404.1	96.64	99	98.06	81.51	94.75	3
C404.2	98.32	99	98.73	83.75	95.73	3
C404.3	98.32	99	98.73	85.15	96.01	3
C404.4	81.51	99	92.01	82.07	90.02	2
C404.5	52.94	99	80.58	85.15	81.49	2
C404.6	44.54	99	77.22	82.63	78.3	2

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	1	2
C404.2	2	2	1	1	1	1	1	1		1	1	1	1	2
C404.3	2	2	1	1	1	1	1	1		1	1	1	1	2
C404.4	2	2	1	1	1	1	1	1		1	1	1	1	2
C404.5	2	2	1	1	1	1	1	1		1	1	1	1	2
C404.6	2	2	1	1	1	1	1	1		1	1	1	1	2
C404	2	2	1	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	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
C404.2	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
C404.3	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
C404.4	1.33	1.33	0.67	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	0.67	1.33
C404.6	1.33	1.33	0.67	0.67	0.67	0.67	0.67	0.67		0.67	0.67	0.67	0.67	1.33
Level	1.67	1.67	0.83	0.83	0.83	0.83	0.83	0.83		0.83	0.83	0.83	0.83	1.67

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	1	2
Attainment	1.67	1.67	0.83	0.83	0.83	0.83	0.83	0.83		0.83	0.83	0.83	0.83	1.67

HOD/ECE

Saranathan College of Engineering

Department of Electronics and Communication Engineering

COURSE CODE / TITLE	EC8071-COGNITIVE RADIO	NBA Code	C405PE3
SEMESTER / YEAR	VII sem / IV Year	Academic year	2021-2022
COORDINATOR	Dr C Veenila / Mr G Sivakanna		
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
C405PE3.1	100	100	100	80.39	96.08	3
C405PE3.2	100	100	100	82.07	96.41	3
C405PE3.3	100	100	100	82.91	96.58	3
C405PE3.4	42.7	100	77.48	82.63	78.51	2
C405PE3.5	42.02	100	76.81	83.75	78.3	2
C405PE3.6	0	100	60	82.07	64.41	2

Expected CO-PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C405PE3.1	2	2	2	1	1	1				1			2	2
C405PE3.2	2	2	2	1	1	1				1			2	2
C405PE3.3	2	2	2	1	1	1				1			2	2
C405PE3.4	2	2	2	1	1	1				1			2	2
C405PE3.5	2	2	2	1	1	1				1			2	2
C405PE3.6	2	2	1	1	1	2				1	2		2	2
C405PE3	2	2	1.83	1.00	1.00	1.17				1	2		2	2

PO Attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C405PE3.1	2.00	2.00	2.00	1.00	1.00	1.00				1.00			2.00	2.00
C405PE3.2	2.00	2.00	2.00	1.00	1.00	1.00				1.00			2.00	2.00
C405PE3.3	2.00	2.00	2.00	1.00	1.00	1.00				1.00			2.00	2.00
C405PE3.4	1.33	1.33	1.33	0.67	0.67	0.67				0.67			1.33	1.33
C405PE3.5	1.33	1.33	1.33	0.67	0.67	0.67				0.67			1.33	1.33
C405PE3.6	1.33	1.33	0.67	0.67	0.67	1.33				0.67	1.33		1.33	1.33
Level	1.67	1.67	1.56	0.83	0.83	0.94				0.83	1.33		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
C405PE3	2	2	1.833333333	1	1	1.16666667				1	2		2	2
Attainment	1.67	1.67	1.56	0.83	0.83	0.94				0.83	1.33		1.67	1.67

HOD/ECE

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**	2021-2022
COORDINATOR	P SIVAGAMASUNDHARI, 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	99.16	99.50	80	3
C407.2	100.00	99.16	99.50	80	3
C407.3	100.00	99.16	99.50	80	3
C407.4	100.00	99.16	99.50	80	3
C407.5	100.00	99.16	99.50	80	3
C407.6	100.00	99.16	99.50	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

HOD/ECE

Saranathan College of Engineering

Department of Electronics and Communication Engineering

COURSE CODE / TITLE	GE8076 PROFESSIONAL ETHICS IN ENGINEERING	NBA Code	C409PE4
SEMESTER / YEAR	VIII sem / IV Year	Academic year	2021-2022
COORDINATOR	Dr S.Rajeswari / Dr S.A Arunmozhi		
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 + 0.60x(CO-UNI) (%)	Indirect CO Attainment (Course End Survey)	Over all CO Attainment (0.8xDirect + 0.2xIndirect) (%)	Over all CO Attainment Level
C409PE4.1	26.89	93	66.56	85.71	70.39	2
C409PE4.2	19.33	93	63.53	84.03	67.63	2
C409PE4.3	6.72	93	58.49	83.75	63.54	2
C409PE4.4	12.61	93	60.84	84.59	65.59	2
C409PE4.5	9.24	93	59.5	84.03	64.4	2
C409PE4.6	0	93	55.8	81.79	61	1

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C409PE4.1	2	2	1	1	1	2	2	2	1	1	1	1	2	2
C409PE4.2	2	2	1	1	1	2	2	2	1	1	1	1	2	2
C409PE4.3	2	2	1	1	1	2	2	2	1	1	1	1	2	2
C409PE4.4	2	2	1	1	1	2	2	2	1	1	1	1	2	2
C409PE4.5	2	2	1	1	1	2	2	2	1	1	1	1	2	2
C409PE4.6	2	2	1	1	1	2	2	2	1	1	1	1	2	2
C409PE4	2	2	1	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
C409PE4.1	1.33	1.33	0.67	0.67	0.67	1.33	1.33	1.33	0.67	0.67	0.67	0.67	1.33	1.33
C409PE4.2	1.33	1.33	0.67	0.67	0.67	1.33	1.33	1.33	0.67	0.67	0.67	0.67	1.33	1.33
C409PE4.3	1.33	1.33	0.67	0.67	0.67	1.33	1.33	1.33	0.67	0.67	0.67	0.67	1.33	1.33
C409PE4.4	1.33	1.33	0.67	0.67	0.67	1.33	1.33	1.33	0.67	0.67	0.67	0.67	1.33	1.33
C409PE4.5	1.33	1.33	0.67	0.67	0.67	1.33	1.33	1.33	0.67	0.67	0.67	0.67	1.33	1.33
C409PE4.6	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
Level	1.22	1.22	0.61	0.61	0.61	1.22	1.22	1.22	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
C409PE4	2	2	1	1	1	2	2	2	1	1	1	1	2	2
Attainment	1.22	1.22	0.61	0.61	0.61	1.22	1.22	1.22	0.61	0.61	0.61	0.61	1.22	1.22

HOD/ECE

Saranathan College of Engineering

Department of Electronics and Communication Engineering

COURSE CODE / TITLE	[illegible] SATELLITE COMMUNICATION	NBA Code	C410PE5
SEMESTER / YEAR	VII sem / IV Year	Academic year	2021-2022
COORDINATOR	Ms P [illegible] / Ms J [illegible]		
CO Attainment Level 1 : (0% - 60%) 2: (61%-90%) 3:(91% and		Credits	3

CO ATTAINMENT

CO	CO Attainment Internal (CO-INT) (%)	CO Attainment University (CO-UNI) (%)	Direct CO Attainment (0.4b(CO-INT) + 0.6b(CO-UNI)) (%)	Indirect CO Attainment (Course End Survey)	Over all CO Attainment (0.8xDirect + 0.2xIndirect) (%)	Over all CO Attainment Level
C410PE5.1	0	96	57.6	83.19	62.72	2
C410PE5.2	0	96	57.6	79.55	61.99	2
C410PE5.3	0.84	96	57.94	80.63	62.48	2
C410PE5.4	0.84	96	57.94	80.95	62.54	2
C410PE5.5	0	96	57.6	84.31	62.94	2
C410PE5.6	0	96	57.6	82.35	62.55	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	OIC751 TRANSDUCER ENGINEERING	NBA Code	C406OE2
SEMESTER / YEAR	VII sem / IV Year	Academic year	2021-2022
COORDINATOR	Mr.V.Koushick / Dr.M.Padmaa		
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	89.92	100	95.97	84.31	93.64	3
C406OE2.2	99.16	100	99.66	85.15	96.76	3
C406OE2.3	97.48	100	98.99	82.39	95.66	3
C406OE2.4	75.63	100	90.25	83.47	88.9	2
C406OE2.5	68.07	100	87.23	84.59	86.7	2
C406OE2.6	33.61	100	73.45	83.19	75.39	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						3	2	1	1
C406OE2.3	2	2	2	1	1						3	2	1	1
C406OE2.4	2	2	2	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
C406OE2	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	2.00	2.00	2.00	0.00	1.00						3.00	2.00	1.00	1.00
C406OE2.3	2.00	2.00	2.00	1.00	1.00						3.00	2.00	1.00	1.00
C406OE2.4	1.33	1.33	1.33	0.67	0.00						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	1.67	1.67	1.67	0.67	0.72						2.50	1.67	0.83	0.83

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
Attained	1.67	1.67	1.67	0.67	0.72						2.50	1.67	0.83	0.83

HOD/ECE

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	2021-2022
COORDINATOR	Dr C VENNILA / MS A SHAMIM BANU	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
C408.1	100.00	100.00	100.00	80	3
C408.2	100.00	100.00	100.00	80	3
C408.3	100.00	100.00	100.00	80	3
C408.4	100.00	100.00	100.00	80	3
C408.5	100.00	100.00	100.00	80	3
C408.6	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
C408.1	2	2	2	2	2	2	-	-	-	-	1	2	2	2
C408.2	2	2	2	2	2	2	-	-	-	-	1	2	2	2
C408.3	2	2	2	2	2	2	-	-	-	-	1	2	2	2
C408.4	2	2	2	2	2	2	-	-	-	-	1	2	2	2
C408.5	2	2	2	2	2	2	-	-	-	-	1	2	2	2
C408.6	2	2	2	2	2	2	-	-	-	-	1	2	2	2
LEVEL	2	2	2	2	2	2	-	-	-	-	1	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

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

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	2021-2022
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 (0.40x(CO-INT) + 0.60x(CO-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	2	2	2	2	2	2	2	2	2	3	3
C411.2	3	3	3	3	2	2	2	2	2	2	2	2	3	3
C411.3	3	3	2	2	3	3	2	2	2	2	2	2	3	3
C411.4	3	3	2	2	2	2	3	3	2	2	3	3	3	3
C411.5	3	3	2	2	2	2	2	2	3	3	2	2	3	3
C411.6	3	3	2	2	2	2	2	2	3	3	3	3	3	3
LEVEL	3	3	2.17	2.17	2.17	2.17	2.17	2.17	2.33	2.33	2.33	2.33	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	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	3.00	3.00
C411.2	3.00	3.00	3.00	3.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	3.00	3.00
C411.3	3.00	3.00	2.00	2.00	3.00	3.00	2.00	2.00	2.00	2.00	2.00	2.00	3.00	3.00
C411.4	3.00	3.00	2.00	2.00	2.00	2.00	3.00	3.00	2.00	2.00	3.00	3.00	3.00	3.00
C411.5	3.00	3.00	2.00	2.00	2.00	2.00	2.00	2.00	3.00	3.00	2.00	2.00	3.00	3.00
C411.6	3.00	3.00	2.00	2.00	2.00	2.00	2.00	2.00	3.00	3.00	3.00	3.00	3.00	3.00
Level	3.00	3.00	2.17	2.17	2.17	2.17	2.17	2.17	2.33	2.33	2.33	2.33	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	2.17	2.17	2.17	2.17	2.17	2.17	2.33	2.33	2.33	2.33	3	3
Attainment	3.00	3.00	2.17	2.17	2.17	2.17	2.17	2.17	2.33	2.33	2.33	2.33	3.00	3.00

HOD/ECE

SARANATHAN COLLEGE OF ENGINEERING

DEPARTMENT OF ECE
COURSE OUTCOMES 2020-2022 BATCH PG

S.NO	Course code/Name	Attainment (%)	CO attainment level
1	OPTICAL NETWORKS	80.002	2
		80.002	2
		80.002	2
		80.002	2
		80.002	2
		80.002	2
2	ADVANCED DIGITAL COMMUNICATION SYSTEMS	100	3
		100	3
		100	3
		100	3
		100	3
		100	3
3	ADVANCED SATELLITE COMMUNICATION AND NAVIGATION SYSTEM	100	3
		100	3
		100	3
		100	3
		100	3
		100	3
4	ADVANCED RADIATION SYSTEMS	100	3
		100	3
		100	3
		100	3
		100	3
		100	3
5	ADVANCED DIGITAL SIGNAL PROCESSING	100	3
		100	3
		100	3
		100	3
		100	3
		100	3
6	APPLIED MATHEMATICS FOR ELECTRONICS & COMMUNICATION	80.00	2.00
		80.00	2.00
		66.67	2.00
		80.00	2.00
		66.67	2.00
		80.00	2.00

7	**ELECTROMAGNETIC INTERFERENCE AND COMPATIBILITY**	80	2
		80	2
		80	2
		80	2
		80	2
		80	2
8	**DIGITAL COMMUNICATION RECEIVERS**	100	3
		100	3
		100	3
		100	3
		100	3
		100	3
9	**ADVANCED WIRELESS COMMUNICATION SYSTEMS**	100	3
		100	3
		100	3
		100	3
		100	3
		100	3
10	**MIC AND RF SYSTEM DESIGN**	100	3
		100	3
		100	3
		100	3
		100	3
		100	3
11	**SPEECH PROCESSING AND SYNTHESIS**	100	3
		100	3
		100	3
		100	3
		100	3
		100	3
12	**PATTERN RECOGNITION AND MACHINE LEARNING**	100	3
		100	3
		100	3
		100	3
		100	3
		100	3
13	**COMMUNICATION SYSTEM LABORATORY**	100	3
		100	3
		100	3
		100	3
		100	3
		100	3
14	**RF SYSTEM DESIGN LABORATORY**	100	3
		100	3
		100	3

		100	3
		100	3
		100	3
15	**TERM PAPER WRITING AND SEMINAR**	100	3
		100	3
		100	3
		100	3
		100	3
		100	3
16	**COMMUNICATION NETWORK SECURITY**	100	3
		100	3
		100	3
		100	3
		100	3
		100	3
17	**MILIMETER WAVE COMMUNICATION**	80	2
		80	2
		80	2
		80	2
		80	2
		80	2
18	**MULTIMEDIA COMPRESSION TECHNIQUES**	80	2
		80	2
		80	2
		80	2
		80	2
		80	2
19	**PROJECT WORK PHASE I**	100	3
		100	3
		100	3
		100	3
		100	3
		100	3
20	**PROJECT WORK PHASE II**	100	3
		100	3
		100	3
		100	3
		100	3
		100	3

HOD/ECE

PROGRAM OUTCOMES AND PROGRAM SPECIFIC OUTCOMES (PG 2020-2022 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	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
C103	3.00	2.00	1.00	1.00	2.00	1.00	-	-	2.00	-	-	2.00	2.00	2.00
C104	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
C105	3.00	2.00	2.00	1.00	2.00	1.00	1.00	-	1.00	-	-	2.00	2.00	2.00
C106	3.00	3.00	1.00	1.00	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	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
C109	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	2.00	2.00	2.00	1.00	1.00	1.00	-	-	-	1.00	1.00	1.00	2.00	2.00
C111	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
C112	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
C113PE4	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
C114	2.00	2.00	2.00	2.00	2.00	-	-	-	-	1.00	1.00	1.17	2.00	2.00
C115	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	3.00	2.00	2.00	1.00	1.00	2.00	1.00	1.00	3.00	2.00	2.00
C202PE5	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
C202PE6	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
C204	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	3.00	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
AVERAGE	2.75	2.65	2.25	2.05	2.15	1.94	1.79	1.31	2.00	1.46	1.31	2.21	2.10	2.11

HOD/ECE

PROGRAM OUTCOMES AND PROGRAM SPECIFIC OUTCOMES (PG 2020-2022 Batch) ATTAINED

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C101	2.00	2.00	1.33	0.67	0.67	-	-	-	-	-	-	0.67	1.33	-
C102	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
C103	3.00	2.00	1.00	1.00	2.00	1.00	-	-	2.00	-	-	2.00	2.00	2.00
C104	3.00	1.00	3.00	3.00	3.00	3.00	2.00	1.00	1.00	1.00	1.00	2.00	2.00	2.00
C105	2.00	1.33	1.33	0.67	1.33	0.67	0.67	-	0.67	-	-	1.33	1.33	1.33
C106PE1	3.00	3.00	1.00	1.00	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	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
C109	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	1.33	1.33	1.33	0.67	0.67	0.67	-	-	-	0.67	0.67	0.67	1.33	1.33
C111PE2	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
C112PE3	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
C113PE4	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
C114	2.00	2.00	2.00	2.00	2.00	-	-	-	-	3.00	1.00	1.17	2.00	2.00
C115	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	2	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
C202PE5	2	2.00	1.33	1.33	2.00	1.33	1.33	0.67	1.33	1.33	0.67	2.00	1.33	1.33
C202PE6	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
C204	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	3.00	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
AVERAGE	2.49	2.44	2.07	1.80	1.91	1.72	1.52	1.25	1.81	1.30	1.06	2.00	1.87	1.90

HOD/ECE

SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF ECE

COURSE CODE / TITLE	MA5154-APPLIED MATHEMATICS FOR ELECTRONICS & COMMUNICATION	NBA Code	C101
CLASS / YEAR	MECS / I	BATCH	2020-2022
COORDINATOR	geetha-mat	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
C101.1	100.00	66.67	80.00	2
C101.2	100.00	66.67	80.00	2
C101.3	66.67	66.67	66.67	2
C101.4	100.00	66.67	80.00	2
C101.5	66.67	66.67	66.67	2
C101.6	100.00	66.67	80.00	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	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	2.00	2.00	1.33	0.67	0.67	-	-	-	-	-	-	0.67	1.33	-
C101.2	2.00	2.00	1.33	0.67	0.67	-	-	-	-	-	-	0.67	1.33	-
C101.3	2.00	2.00	1.33	0.67	0.67	-	-	-	-	-	-	0.67	1.33	-
C101.4	2.00	2.00	1.33	0.67	0.67	-	-	-	-	-	-	0.67	1.33	-
C101.5	2.00	2.00	1.33	0.67	0.67	-	-	-	-	-	-	0.67	1.33	-
C101.6	2.00	2.00	1.33	0.67	0.67	-	-	-	-	-	-	0.67	1.33	-
Level	2.00	2.00	1.33	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
C101	3	3	2	1	1	-	-	-	-	-	-	1	2	-
Attainment	2.00	2.00	1.33	0.67	0.67	-	-	-	-	-	-	0.67	1.33	-

HOD/ECE

SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF ECE

COURSE CODE / TITLE	CU5191-ADVANCED RADIATION SYSTEMS	NBA Code	C102
CLASS / YEAR	ME-CS / I	BATCH	2020-2022
COORDINATOR	saranathan-ece	Credits	3
CO Attainment Level: 1 - (51% - 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
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	3	3	2	2	2	2	2	1	2	-	1	2	2	2
C102.2	3	3	2	2	2	2	2	1	2	-	1	2	2	2
C102.3	3	3	2	2	2	2	2	1	2	-	1	2	2	2
C102.4	3	3	2	2	2	2	2	1	2	-	1	2	2	2
C102.5	3	3	2	2	2	2	2	1	2	-	1	2	2	2
C102.6	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
C102.1	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
C102.2	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
C102.3	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
C102.4	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
C102.5	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
C102.6	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
C102	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

HOD/ECE

SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF ECE

COURSE CODE / TITLE	AP5152-ADVANCED DIGITAL SIGNAL PROCESSING	NBA Code	C104
CLASS / YEAR	MECS / I	BATCH	2020-2022
COORDINATOR	mohan-ece	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
C104.1	100.00	100.00	100.00	2
C104.2	100.00	100.00	100.00	2
C104.3	100.00	100.00	100.00	2
C104.4	100.00	100.00	100.00	2
C104.5	100.00	100.00	100.00	2
C104.6	100.00	100.00	100.00	2

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C104.1	3	3	3	3	3	3	2	1	1	1	1	2	2	2
C104.2	3	3	3	3	3	3	2	1	1	1	1	2	2	2
C104.3	3	3	3	3	3	3	2	1	1	1	1	2	2	2
C104.4	3	3	3	3	3	3	2	1	1	1	1	2	2	2
C104.5	3	3	3	3	3	3	2	1	1	1	1	2	2	2
C104.6	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
C104.1	2.00	2.00	2.00	2.00	2.00	2.00	1.33	0.67	0.67	0.67	0.67	1.33	1.33	1.33
C104.2	2.00	2.00	2.00	2.00	2.00	2.00	1.33	0.67	0.67	0.67	0.67	1.33	1.33	1.33
C104.3	2.00	2.00	2.00	2.00	2.00	2.00	1.33	0.67	0.67	0.67	0.67	1.33	1.33	1.33
C104.4	2.00	2.00	2.00	2.00	2.00	2.00	1.33	0.67	0.67	0.67	0.67	1.33	1.33	1.33
C104.5	2.00	2.00	2.00	2.00	2.00	2.00	1.33	0.67	0.67	0.67	0.67	1.33	1.33	1.33
C104.6	2.00	2.00	2.00	2.00	2.00	2.00	1.33	0.67	0.67	0.67	0.67	1.33	1.33	1.33
Level	2.00	2.00	2.00	2.00	2.00	2.00	1.33	0.67	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
C104	3	3	3	3	3	3	2	1	1	1	1	2	2	2
Attainment	2.00	2.00	2.00	2.00	2.00	2.00	1.33	0.67	0.67	0.67	0.67	1.33	1.33	1.33

HOD/ECE

SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF ECE

COURSE CODE / TITLE	CU5192-OPTICAL NETWORKS	NBA Code	C105
CLASS / YEAR	MECS / I	BATCH	2020-2022
COORDINATOR	vaishanavi-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
C105.1	100.00	66.67	80.00	2
C105.2	100.00	66.67	80.00	2
C105.3	100.00	66.67	80.00	2
C105.4	100.00	66.67	80.00	2
C105.5	100.00	66.67	80.00	2
C105.6	100.00	66.67	80.00	2

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C105.1	3	2	2	1	2	1	1	-	1	-	-	2	2	2
C105.2	3	2	2	1	2	1	1	-	1	-	-	2	2	2
C105.3	3	2	2	1	2	1	1	-	1	-	-	2	2	2
C105.4	3	2	2	1	2	1	1	-	1	-	-	2	2	2
C105.5	3	2	2	1	2	1	1	-	1	-	-	2	2	2
C105.6	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
C105.1	2.00	1.33	1.33	0.67	1.33	0.67	0.67	-	0.67	-	-	1.33	1.33	1.33
C105.2	2.00	1.33	1.33	0.67	1.33	0.67	0.67	-	0.67	-	-	1.33	1.33	1.33
C105.3	2.00	1.33	1.33	0.67	1.33	0.67	0.67	-	0.67	-	-	1.33	1.33	1.33
C105.4	2.00	1.33	1.33	0.67	1.33	0.67	0.67	-	0.67	-	-	1.33	1.33	1.33
C105.5	2.00	1.33	1.33	0.67	1.33	0.67	0.67	-	0.67	-	-	1.33	1.33	1.33
C105.6	2.00	1.33	1.33	0.67	1.33	0.67	0.67	-	0.67	-	-	1.33	1.33	1.33
Level	2.00	1.33	1.33	0.67	1.33	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
C105	3	2	2	1	2	1	1	-	1	-	-	2	2	2
Attainment	2.00	1.33	1.33	0.67	1.33	0.67	0.67	-	0.67	-	-	1.33	1.33	1.33

HOD/ECE

SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF ECE

COURSE CODE / TITLE	CU5091-ADVANCED SATELLITE COMMUNICATION AND NAVIGATION	NBA Code	C106PE1
CLASS / YEAR	MECS - I	BATCH	2020-2022
COORDINATOR	banthabegum-ece	Credits	3
CO Attainment Level: 1 - (50%-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
C106PE1.1	100.00	100.00	100.00	3
C106PE1.2	100.00	100.00	100.00	3
C106PE1.3	100.00	100.00	100.00	3
C106PE1.4	100.00	100.00	100.00	3
C106PE1.5	100.00	100.00	100.00	3
C106PE1.6	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
C106PE1.1	3	3	1	1	2	1	-	-	2	1	-	2	2	2
C106PE1.2	3	3	1	1	2	1	-	-	2	1	-	2	2	2
C106PE1.3	3	3	1	1	2	1	-	-	2	1	-	2	2	2
C106PE1.4	3	3	1	1	2	1	-	-	2	1	-	2	2	2
C106PE1.5	3	3	1	1	2	1	-	-	2	1	-	2	2	2
C106PE1.6	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
C106PE1.1	3.00	3.00	1.00	1.00	2.00	1.00	-	-	2.00	1.00	-	2.00	2.00	2.00
C106PE1.2	3.00	3.00	1.00	1.00	2.00	1.00	-	-	2.00	1.00	-	2.00	2.00	2.00
C106PE1.3	3.00	3.00	1.00	1.00	2.00	1.00	-	-	2.00	1.00	-	2.00	2.00	2.00
C106PE1.4	3.00	3.00	1.00	1.00	2.00	1.00	-	-	2.00	1.00	-	2.00	2.00	2.00
C106PE1.5	3.00	3.00	1.00	1.00	2.00	1.00	-	-	2.00	1.00	-	2.00	2.00	2.00
C106PE1.6	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
C106PE1	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

HOD/ECE

SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF ECE

COURSE CODE / TITLE	CU5291-ADVANCED WIRELESS COMMUNICATION SYSTEMS	**NBA Code**	C108
CLASS / YEAR	MECS / I	**BATCH**	2020-2022
COORDINATOR	sivakamu-ece	**Credits**	3
CO Attainment Level: 1 - (0%-80%) 2- (81%-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
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	3	3	2	2	2	2	2	1	2	-	1	2	2	2
C108.2	3	3	2	2	2	2	2	1	2	-	1	2	2	2
C108.3	3	3	2	2	2	2	2	1	2	-	1	2	2	2
C108.4	3	3	2	2	2	2	2	1	2	-	1	2	2	2
C108.5	3	3	2	2	2	2	2	1	2	-	1	2	2	2
C108.6	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
C108.1	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
C108.2	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
C108.3	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
C108.4	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
C108.5	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
C108.6	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
C108	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

HOD/ECE

SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF ECE

COURSE CODE / TITLE	CU5292-ELECTROMAGNETIC INTERFERENCE AND COMPATIBILITY	NBA Code	C110
CLASS / YEAR	MECS / 1	BATCH	2020-2022
COORDINATOR	CU5292-anthonyraj.da-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
C110.1	100.00	66.67	80.00	2
C110.2	100.00	66.67	80.00	2
C110.3	100.00	66.67	80.00	2
C110.4	100.00	66.67	80.00	2
C110.5	100.00	66.67	80.00	2
C110.6	100.00	66.67	80.00	2

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C110.1	2	2	2	1	1	1	-	-	-	1	1	1	2	2
C110.2	2	2	2	1	1	1	-	-	-	1	1	1	2	2
C110.3	2	2	2	1	1	1	-	-	-	1	1	1	2	2
C110.4	2	2	2	1	1	1	-	-	-	1	1	1	2	2
C110.5	2	2	2	1	1	1	-	-	-	1	1	1	2	2
C110.6	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
C110.1	1.33	1.33	1.33	0.67	0.67	0.67	-	-	-	0.67	0.67	0.67	1.33	1.33
C110.2	1.33	1.33	1.33	0.67	0.67	0.67	-	-	-	0.67	0.67	0.67	1.33	1.33
C110.3	1.33	1.33	1.33	0.67	0.67	0.67	-	-	-	0.67	0.67	0.67	1.33	1.33
C110.4	1.33	1.33	1.33	0.67	0.67	0.67	-	-	-	0.67	0.67	0.67	1.33	1.33
C110.5	1.33	1.33	1.33	0.67	0.67	0.67	-	-	-	0.67	0.67	0.67	1.33	1.33
C110.6	1.33	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	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
C110	2	2	2	1	1	1	-	-	-	1	1	1	2	2
Attainment	1.33	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 ECE

COURSE CODE / TITLE	CU5201-MIC AND RF SYSTEM DESIGN	NBA Code	C109
CLASS / YEAR	MECS - I	BATCH	2020-2022
COORDINATOR	CU5201-barithabegum-ece	Credits	3
CO Attainment Level 1 - (0% - 65%), 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) (%)	Over all CO Attainment Level
C109.1	100.00	100.00	100.00	3
C109.2	100.00	100.00	100.00	3
C109.3	100.00	100.00	100.00	3
C109.4	100.00	100.00	100.00	3
C109.5	100.00	100.00	100.00	3
C109.6	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
C109.1	2	2	3	3	2	3	-	1	2	1	1	3	2	2
C109.2	2	2	3	3	2	3	-	1	2	1	1	3	2	2
C109.3	2	2	3	3	2	3	-	1	2	1	1	3	2	2
C109.4	2	2	3	3	2	3	-	1	2	1	1	3	2	2
C109.5	2	2	3	3	2	3	-	1	2	1	1	3	2	2
C109.6	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
C109.1	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
C109.2	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
C109.3	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
C109.4	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
C109.5	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
C109.6	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
C109	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

HOD/ECE

SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF ECE

COURSE CODE / TITLE	CU5292-ELECTROMAGNETIC INTERFERENCE AND COMPATIBILITY	NBA Code	C110
CLASS / YEAR	MECS / I	BATCH	2020-2022
COORDINATOR	CU5292-anthiravanhvdin-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
C110.1	100.00	66.67	80.00	2
C110.2	100.00	66.67	80.00	2
C110.3	100.00	66.67	80.00	2
C110.4	100.00	66.67	80.00	2
C110.5	100.00	66.67	80.00	2
C110.6	100.00	66.67	80.00	2

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C110.1	2	2	2	1	1	1	-	-	-	1	1	1	2	2
C110.2	2	2	2	1	1	1	-	-	-	1	1	1	2	2
C110.3	2	2	2	1	1	1	-	-	-	1	1	1	2	2
C110.4	2	2	2	1	1	1	-	-	-	1	1	1	2	2
C110.5	2	2	2	1	1	1	-	-	-	1	1	1	2	2
C110.6	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
C110.1	1.33	1.33	1.33	0.67	0.67	0.67	-	-	-	0.67	0.67	0.67	1.33	1.33
C110.2	1.33	1.33	1.33	0.67	0.67	0.67	-	-	-	0.67	0.67	0.67	1.33	1.33
C110.3	1.33	1.33	1.33	0.67	0.67	0.67	-	-	-	0.67	0.67	0.67	1.33	1.33
C110.4	1.33	1.33	1.33	0.67	0.67	0.67	-	-	-	0.67	0.67	0.67	1.33	1.33
C110.5	1.33	1.33	1.33	0.67	0.67	0.67	-	-	-	0.67	0.67	0.67	1.33	1.33
C110.6	1.33	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	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
C110	2	2	2	1	1	1	-	-	-	1	1	1	2	2
Attainment	1.33	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 ECE

COURSE CODE / TITLE	CU5096-PATTERN RECOGNITION AND MACHINE LEARNING	NBA Code	C113PE4
CLASS / YEAR	MECS / I	BATCH	2020-2022
COORDINATOR	mohan-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
C113PE4.1	100.00	100.00	100.00	3
C113PE4.2	100.00	100.00	100.00	3
C113PE4.3	100.00	100.00	100.00	3
C113PE4.4	100.00	100.00	100.00	3
C113PE4.5	100.00	100.00	100.00	3
C113PE4.6	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
C113PE4.1	2	2	3	3	3	2	2	1	2	2	1	3	2	2
C113PE4.2	2	2	3	3	3	2	2	1	2	2	1	3	2	2
C113PE4.3	2	2	3	3	3	2	2	1	2	2	1	3	2	2
C113PE4.4	2	2	3	3	3	2	2	1	2	2	1	3	2	2
C113PE4.5	2	2	3	3	3	2	2	1	2	2	1	3	2	2
C113PE4.6	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
C113PE4.1	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
C113PE4.2	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
C113PE4.3	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
C113PE4.4	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
C113PE4.5	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
C113PE4.6	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
C113PE4	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

HOD/ECE

SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF ECE

COURSE CODE / TITLE	CP5281-TERM PAPER WRITING AND SEMINAR	NBA Code	C115
CLASS / YEAR	MECS / I	BATCH	2020-2022
		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	3	2	1	2	1	1	2	2	1	3	2	2
C115.2	3	3	3	2	1	2	1	1	2	2	1	3	2	2
C115.3	3	3	3	2	1	2	1	1	2	2	1	3	2	2
C115.4	3	3	3	2	1	2	1	1	2	2	1	3	2	2
C115.5	3	3	3	2	1	2	1	1	2	2	1	3	2	2
C115.6	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
C115.1	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
C115.2	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
C115.3	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
C115.4	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
C115.5	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
C115.6	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
C115	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

HOD/ECE

PROGRAM OUTCOMES AND PROGRAM SPECIFIC OUTCOMES (PG 2020-2022 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	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
C103	3.00	2.00	1.00	1.00	2.00	1.00	-	-	2.00	-	-	2.00	2.00	2.00
C104	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
C105	3.00	2.00	2.00	1.00	2.00	1.00	1.00	-	1.00	-	-	2.00	2.00	2.00
C106	3.00	3.00	1.00	1.00	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	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
C109	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	2.00	2.00	2.00	1.00	1.00	1.00	-	-	-	1.00	1.00	1.00	2.00	2.00
C111	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
C112	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
C113PE4	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
C114	2.00	2.00	2.00	2.00	2.00	-	-	-	-	1.00	1.00	1.17	2.00	2.00
C115	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
AVERAGE	2.67	2.60	2.20	1.87	2.00	1.77	1.56	1.25	1.83	1.33	1.09	2.14	2.00	2.00

HOD/ECE

PROGRAM OUTCOMES AND PROGRAM SPECIFIC OUTCOMES (PG 2020-2022 Batch) ATTAINED

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C101	2.00	2.00	1.33	0.67	0.67	-	-	-	-	-	-	0.67	1.33	-
C102	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
C103	3.00	2.00	1.00	1.00	2.00	1.00	-	-	2.00	-	-	2.00	2.00	2.00
C104	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
C105	2.00	1.33	1.33	0.67	1.33	0.67	0.67	-	0.67	-	-	1.33	1.33	1.33
C106PE1	3.00	3.00	1.00	1.00	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	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
C109	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	1.33	1.33	1.33	0.67	0.67	0.67	-	-	-	0.67	0.67	0.67	1.33	1.33
C111PE2	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
C112PE3	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
C113PE4	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
C114	2.00	2.00	2.00	2.00	2.00	-	-	-	-	1.00	1.00	1.17	2.00	2.00
C115	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
AVERAGE	2.49	2.44	2.07	1.80	1.91	1.72	1.52	1.25	1.81	1.30	1.06	2.06	1.87	1.90

HOD/ECE

SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF ECE

COURSE CODE / TITLE	CP5211-RF SYSTEM DESIGN LABORATORY	NBA Code	C114
CLASS / YEAR	M.E.(C.S.) I	BATCH	2020-2022
		Credits	2

CO Attainment Level: 1-(50%-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) (%)	Over all CO Attainment Level
C114.1	100.00	100.00	100.00	3
C114.2	100.00	100.00	100.00	3
C114.3	100.00	100.00	100.00	3
C114.4	100.00	100.00	100.00	3
C114.5	100.00	100.00	100.00	3
C114.6	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
C114.1	2	2	2	2	2	-	-	-	-	1	1	1	2	2
C114.2	2	2	2	2	2	-	-	-	-	1	1	1	2	2
C114.3	2	2	2	2	2	-	-	-	-	1	1	1	2	2
C114.4	2	2	2	2	2	-	-	-	-	1	1	1	2	2
C114.5	2	2	2	2	2	-	-	-	-	1	1	1	2	2
C114.6	2	2	2	2	2	-	-	-	-	1	1	1	2	2
C114	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
C114.1	2.00	2.00	2.00	2.00	2.00	-	-	-	-	1.00	1.00	1.00	2.00	2.00
C114.2	2.00	2.00	2.00	2.00	2.00	-	-	-	-	1.00	1.00	1.00	2.00	2.00
C114.3	2.00	2.00	2.00	2.00	2.00	-	-	-	-	1.00	1.00	1.00	2.00	2.00
C114.4	2.00	2.00	2.00	2.00	2.00	-	-	-	-	1.00	1.00	1.00	2.00	2.00
C114.5	2.00	2.00	2.00	2.00	2.00	-	-	-	-	1.00	1.00	1.00	2.00	2.00
C114.6	2.00	2.00	2.00	2.00	2.00	-	-	-	-	1.00	1.00	2.00	2.00	2.00
Level	2.00	2.00	2.00	2.00	2.00	-	-	-	-	1.00	1.00	1.00	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
C114	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

HOD/ECE

SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF ECE

COURSE CODE / TITLE	CP5096-SPEECH PROCESSING AND SYNTHESIS	NBA Code	C112PE3
CLASS / YEAR	MECS / I	BATCH	2020-2022
COORDINATOR	CP5096-kousalya-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
C112PE3.1	100.00	100.00	100.00	3
C112PE3.2	100.00	100.00	100.00	3
C112PE3.3	100.00	100.00	100.00	3
C112PE3.4	100.00	100.00	100.00	3
C112PE3.5	100.00	100.00	100.00	3
C112PE3.6	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
C112PE3.1	3	3	3	3	3	3	2	2	2	2	1	3	2	2
C112PE3.2	3	3	3	3	3	3	2	2	2	2	1	3	2	2
C112PE3.3	3	3	3	3	3	3	2	2	2	2	1	3	2	2
C112PE3.4	3	3	3	3	3	3	2	2	2	2	1	3	2	2
C112PE3.5	3	3	3	3	3	3	2	2	2	2	1	3	2	2
C112PE3.6	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
C112PE3.1	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
C112PE3.2	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
C112PE3.3	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
C112PE3.4	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
C112PE3.5	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
C112PE3.6	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
C112PE3	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	CU5161-COMMUNICATION SYSTEM LABORATORY	NBA Code	C107
CLASS / YEAR	MECS / I	BATCH	2020-2022
		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
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/ECE

SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF ECE

COURSE CODE / TITLE	CU5151-ADVANCED DIGITAL COMMUNICATION SYSTEMS	NBA Code	C103
CLASS / YEAR	MECS / I	BATCH	2020-2022
COORDINATOR	tamiyav-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
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	2	1	1	2	1	-	-	2	-	-	2	2	2
C103.2	3	2	1	1	2	1	-	-	2	-	-	2	2	2
C103.3	3	2	1	1	2	1	-	-	2	-	-	2	2	2
C103.4	3	2	1	1	2	1	-	-	2	-	-	2	2	2
C103.5	3	2	1	1	2	1	-	-	2	-	-	2	2	2
C103.6	3	2	1	1	2	1	-	-	2	-	-	2	2	2
LEVEL	3	2	1	1	2	1	-	-	2	-	-	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	2.00	1.00	1.00	2.00	1.00	-	-	2.00	-	-	2.00	2.00	2.00
C103.2	3.00	2.00	1.00	1.00	2.00	1.00	-	-	2.00	-	-	2.00	2.00	2.00
C103.3	3.00	2.00	1.00	1.00	2.00	1.00	-	-	2.00	-	-	2.00	2.00	2.00
C103.4	3.00	2.00	1.00	1.00	2.00	1.00	-	-	2.00	-	-	2.00	2.00	2.00
C103.5	3.00	2.00	1.00	1.00	2.00	1.00	-	-	2.00	-	-	2.00	2.00	2.00
C103.6	3.00	2.00	1.00	1.00	2.00	1.00	-	-	2.00	-	-	2.00	2.00	2.00
Level	3.00	2.00	1.00	1.00	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
C103	3	2	1	1	2	1	-	-	2	-	-	2	2	2
Attainment	3.00	2.00	1.00	1.00	2.00	1.00	-	-	2.00	-	-	2.00	2.00	2.00

HOD/ECE

SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF ECE

COURSE CODE / TITLE	CU5301-MILIMETER WAVE COMMUNICATION	NBA Code	C201
CLASS / YEAR	ME CS / II	BATCH	2020-2022
COORDINATOR	sivakarmece	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	66.67	80.00	2
C201.2	100.00	66.67	80.00	2
C201.3	100.00	66.67	80.00	2
C201.4	100.00	66.67	80.00	2
C201.5	100.00	66.67	80.00	2
C201.6	100.00	66.67	80.00	2

Expected CO PO level

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

COURSE CODE / TITLE	MU5091-MULTIMEDIA COMPRESSION TECHNIQUES	NBA Code	C202PE5
CLASS / YEAR	MECS / II	BATCH	2020-2022
COORDINATOR	santhim	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
C202PE5.1	100.00	66.67	80.00	2
C202PE5.2	100.00	66.67	80.00	2
C202PE5.3	100.00	66.67	80.00	2
C202PE5.4	100.00	66.67	80.00	2
C202PE5.5	100.00	66.67	80.00	2
C202PE5.6	100.00	66.67	80.00	2

Expected CO PO level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C202PE5.1	3	3	2	2	3	2	2	1	2	2	1	3	2	2
C202PE5.2	3	3	2	2	3	2	2	1	2	2	1	3	2	2
C202PE5.3	3	3	2	2	3	2	2	1	2	2	1	3	2	2
C202PE5.4	3	3	2	2	3	2	2	1	2	2	1	3	2	2
C202PE5.5	3	3	2	2	3	2	2	1	2	2	1	3	2	2
C202PE5.6	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
C202PE5.1	2.00	2.00	1.33	1.33	2.00	1.33	1.33	0.67	1.33	1.33	0.67	2.00	1.33	1.33
C202PE5.2	2.00	2.00	1.33	1.33	2.00	1.33	1.33	0.67	1.33	1.33	0.67	2.00	1.33	1.33
C202PE5.3	2.00	2.00	1.33	1.33	2.00	1.33	1.33	0.67	1.33	1.33	0.67	2.00	1.33	1.33
C202PE5.4	2.00	2.00	1.33	1.33	2.00	1.33	1.33	0.67	1.33	1.33	0.67	2.00	1.33	1.33
C202PE5.5	2.00	2.00	1.33	1.33	2.00	1.33	1.33	0.67	1.33	1.33	0.67	2.00	1.33	1.33
C202PE5.6	2.00	2.00	1.33	1.33	2.00	1.33	1.33	0.67	1.33	1.33	0.67	2.00	1.33	1.33
Level	2.00	2.00	1.33	1.33	2.00	1.33	1.33	0.67	1.33	1.33	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
C202PE5	3	3	2	2	3	2	2	1	2	2	1	3	2	2
Attainment	2.00	2.00	1.33	1.33	2.00	1.33	1.33	0.67	1.33	1.33	0.67	2.00	1.33	1.33

HOD/ECE

SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF ECE

COURSE CODE / TITLE	NC5291-COMMUNICATION NETWORK SECURITY	**NBA Code**	C203PE6
CLASS / YEAR	MI-CN / II	**BATCH**	2020-2022
COORDINATOR	Padma-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
C203PE6.1	100.00	100.00	100.00	3
C203PE6.2	100.00	100.00	100.00	3
C203PE6.3	100.00	100.00	100.00	3
C203PE6.4	100.00	100.00	100.00	3
C203PE6.5	100.00	100.00	100.00	3
C203PE6.6	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
C203PE6.1	3	3	2	2	2	2	2	1	2	-	1	2	2	2
C203PE6.2	3	3	2	2	2	2	2	1	2	-	1	2	2	2
C203PE6.3	3	3	2	2	2	2	2	1	2	-	1	2	2	2
C203PE6.4	3	3	2	2	2	2	2	1	2	-	1	2	2	2
C203PE6.5	3	3	2	2	2	2	2	1	2	-	1	2	2	2
C203PE6.6	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
C203PE6.1	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
C203PE6.2	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
C203PE6.3	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
C203PE6.4	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
C203PE6.5	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
C203PE6.6	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
C203PE6	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

HOD/ECE

SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF ECE

COURSE CODE / TITLE	CU5311-PROJECT WORK PHASE I	NBA Code	C204
CLASS / YEAR	MECS / II	BATCH	2020-2022
COORDINATOR	santhim	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 (0.40x(CO-INT + 0.60x(CO-UNI) (%)	Over all CO Attainment Level
C204.1	100.00	100.00	100.00	3
C204.2	100.00	100.00	100.00	3
C204.3	100.00	100.00	100.00	3
C204.4	100.00	100.00	100.00	3
C204.5	100.00	100.00	100.00	3
C204.6	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
C204.1	3	3	3	3	3	3	3	2	3	2	3	2	3	3
C204.2	3	3	3	3	3	3	3	2	3	2	3	2	3	3
C204.3	3	3	3	3	3	3	3	2	3	2	3	2	3	3
C204.4	3	3	3	3	3	3	3	2	3	2	3	2	3	3
C204.5	3	3	3	3	3	3	3	2	3	2	3	2	3	3
C204.6	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
C204.1	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
C204.2	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
C204.3	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
C204.4	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
C204.5	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
C204.6	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
C204	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

HOD/ECE

SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF ECE

COURSE CODE / TITLE	CU5411-Project Work Phase II	NBA Code	C205
CLASS / YEAR	MECS / II	BATCH	2020-2022
COORDINATOR	santhim	Credits	24

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 (0.40x(CO-INT + 0.60x(CO-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

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 2021 - 2022 / ODD Semester

COURSE CODE/TITLE	**EMBEDDED AND REAL TIME SYSTEMS**																		**Batch**				**2018 - 2022**				
CLASS / SECTION	**Sem 7 / ECE A & B**																		**COURSE OUTCOME**	**1**	**2**	**3**	**4**	**5**	**6**		
COURSE COORDINATOR	**Ms.P.Sivagamasundhari / Ms.J.Eindhumathy**																		**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																									
			IAT-1 MARKS ALLOTED						**IAT-2 MARKS ALLOTED**						**IAT-3 MARKS ALLOTED**						**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**	
S.NO	**REG NO**	**NAME OF THE STUDENT**	**80**	**20**							**40**		**40**	**20**				**40**	**40**	**20**	**80**	**20**	**40**	**40**	**80**	**40**	
1	813818106001	AAISHA THAHSEENA. M	63	16							58		34					38	32	18	63	16	58	38	66	18	
2	813818106002	ABDULLA. N	64	14							56		32					0	0	0	64	14	56	0	32	0	
3	813818106003	ABDUL RAHMAN. M	68	16							54		32					0	0	0	68	16	54	0	32	0	
4	813818106004	ABINAYA. S	71	18							56		36					38	40	18	71	18	56	38	76	18	
5	813818106005	ABISHEK. M	73	16							56		28					0	0	0	73	16	56	0	28	0	
6	813818106006	AHILAN. C	70	18							54		32					20	32	0	70	18	54	20	64	0	
7	813818106007	AJAIPRAMOTH. A	70	14							54		34					36	30	16	70	14	54	36	64	16	
8	813818106008	AJAY. S	68	16							50		30					38	40	16	68	16	50	38	70	16	
9	813818106009	AKSHAYA GODINA. D	70	14							50		28					38	40	18	70	14	50	38	68	18	

10	813818106010	ANTONY JOHN JASON. S	70	15							54		34					0	0	0	70	15	54	0	34	0
11	813818106012	ATCHAYA. M	70	14							56		34					34	28	12	70	14	56	34	62	12
12	813818106013	ATCHAYA. R	62	14							56		36					38	40	0	62	14	56	38	76	0
13	813818106014	ATHISANKAR. A	70	18							54		32					38	40	18	70	18	54	38	72	18
14	813818106015	ATSHAYA. R	70	14							50		34					36	38	20	70	14	50	36	72	20
15	813818106017	BANU PRIYA. B	68	16							56		38					34	40	0	68	16	56	34	78	0
16	813818106018	BAVITHRAN. G R	50	14							54		34					0	0	0	50	14	54	0	34	0
17	813818106019	CAROLINE RUBY. S	72	16							50		32					34	40	16	72	16	50	34	72	16
18	813818106020	CAVWIN DHEEPAK. R	50	16							54		32					0	0	0	50	16	54	0	32	0
19	813818106021	CHARUDHARSHANA. M	72	16							50		30					0	0	0	72	16	50	0	30	0
20	813818106022	DEVA DARSHINI. S	70	16							52		34					30	34	16	70	16	52	30	68	16
21	813818106023	DHAARANI. B	72	14							52		36					38	38	18	72	14	52	38	74	18
22	813818106024	DHANAVIDHYA. G	70	14							56		34					38	38	18	70	14	56	38	72	18
23	813818106025	DHANIYA LAKSHMI. J	72	16							50		38					38	38	18	72	16	50	38	76	18
24	813818106026	DILEEPAN. M	70	14							52		34					30	22	18	70	14	52	30	56	18
25	813818106027	DINESH RAM. R	64	14							52		34					20	30	14	64	14	52	20	64	14
26	813818106028	DIRAVIDAMANI. M	66	14							56		36					0	0	0	66	14	56	0	36	0
27	813818106029	DIVYA BHARATHI. S	72	16							52		36					0	0	0	72	16	52	0	36	0
28	813818106030	DURGASRI. R	70	14							52		38					38	40	18	70	14	52	38	78	18
29	813818106031	GOKULAKRISHNAN. M J	60	14							56		36					0	0	0	60	14	56	0	36	0
30	813818106033	IRFAN AHMED. I	64	14							52		34					24	40	18	64	14	52	24	74	18
31	813818106034	JAIBALAJI. C	70	14							50		30					20	30	14	70	14	50	20	60	14
32	813818106035	JANNIFER. D	72	16							50		32					24	40	16	72	16	50	24	72	16
33	813818106036	JAYAPRIYA. M	70	14							52		38					20	36	18	70	14	52	20	74	18

34	813818106037	JAYASHREE. RI	72	18							54		36					34	28	12	72	18	54	34	64	12
35	813818106038	JAYSHRINIVAAS. B	70	16							54		34					38	40	18	70	16	54	38	74	18
36	813818106039	JERSON FENADICT ANDRO. A M	64	14							52		28					26	32	16	64	14	52	26	60	16
37	813818106040	KADHIR MANI. S	66	12							50		30					32	36	16	66	12	50	32	66	16
38	813818106041	KAMALAKANNAN. K	68	16							54		32					0	0	0	68	16	54	0	32	0
39	813818106042	KARISHMA. G	58	14							50		30					34	36	16	58	14	50	34	66	16
40	813818106043	KARTHIGA DEVI. G	68	14							52		32					38	40	18	68	14	52	38	72	18
41	813818106044	KARTHIKEYAN. M M	68	16							50		30					30	40	18	68	16	50	30	70	18
42	813818106045	KAVIMANI. A	66	16							51		32					34	36	14	66	16	51	34	68	14
43	813818106046	KAVIYA. S	70	14							54		36					38	40	18	70	14	54	38	76	18
44	813818106047	KAVYA. K S	70	16							54		34					38	40	14	70	16	54	38	74	14
45	813818106048	KEERTHANA. G.R	72	14							54		32					38	36	16	72	14	54	38	68	16
46	813818106049	KINGSLEY PATRICK JOY. J	70	16							54		30					30	40	10	70	16	54	30	70	10
47	813818106050	KISHORE. G	70	14							54		28					0	0	0	70	14	54	0	28	0
48	813818106051	KRISHNA KUMAR. K	68	16							54		32					0	0	0	68	16	54	0	32	0
49	813818106052	KUMARAGURUPHARAN. S	68	16							54		36					28	30	8	68	16	54	28	66	8
50	813818106053	KUMARESAN. A	68	18							50		28					28	30	8	68	18	50	28	58	8
51	813818106054	MADHESH. S	72	14							52		34					26	40	16	72	14	52	26	74	16
52	813818106055	MADHUMITHA. J	72	16							50		36					26	30	2	72	16	50	26	66	2
53	813818106056	MANIKANDAN. R	60	14							52		30					0	0	0	60	14	52	0	30	0
54	813818106057	MANODURGA. V	68	16							54		36					38	40	18	68	16	54	38	76	18
55	813818106058	MANOJKUMAR. S	64	14							48		30					8	28	0	64	14	48	8	58	0
56	813818106059	MANOJ KUMAR A.	68	14							50		30					36	26	0	68	14	50	36	56	0

57	813818106060	MOHAMED SHAFIQUR RAHMAN. J	74	18							40		40	20				30	34	10	74	18	40	30	74	30
58	813818106061	MOHAMED UWAIS. K	66	18							40		40	20				36	32	12	66	18	40	36	72	32
59	813818106062	NAGAMMAI. N	62	18							40		36	20				32	40	18	62	18	40	32	76	38
60	813818106063	NIGILESH. D	66	18							40		20	20				0	0	0	66	18	40	0	20	20
61	813818106064	NIKHIL RAJ. M	56	18							40		40	0				22	34	0	56	18	40	22	74	0
62	813818106065	NIRUBAN. J	72	18							40		40	20				0	0	0	72	18	40	0	40	20
63	813818106066	NITHISHA. U	76	18							40		40	20				28	40	16	76	18	40	28	80	36
64	813818106067	PAUL SNEKA. L	74	18							40		40	0				38	34	0	74	18	40	38	74	0
65	813818106068	PAVITRA. B	70	18							40		36	20				38	34	18	70	18	40	38	70	38
66	813818106069	POOJA. B	74	18							40		36	20				0	0	0	74	18	40	0	36	20
67	813818106070	POOJA. D	74	18							40		36	20				38	40	18	74	18	40	38	76	38
68	813818106071	POORNIMA. S	74	18							40		36	20				34	34	0	74	18	40	34	70	20
69	813818106072	PRAVEEN. D	66	18							40		40	20				28	34	16	66	18	40	28	74	36
70	813818106073	PREETHI. B	70	18							40		36	20				38	40	18	70	18	40	38	76	38
71	813818106074	PRIYA. S	74	18							36		40	20				38	40	18	74	18	36	38	80	38
72	813818106075	RAHUL. R	70	18							40		40	20				18	34	12	70	18	40	18	74	32
73	813818106076	RAJA LAKSHMI. P	70	18							40		36	20				38	34	16	70	18	40	38	70	36
74	813818106077	RATHNA. M	70	18							40		36	20				34	34	18	70	18	40	34	70	38
75	813818106078	RENULEKA. P	70	18							38		38	20				32	38	16	70	18	38	32	76	36
76	813818106079	RESHMA. E	74	18							0		0	0				36	38	16	74	18	0	36	38	16
77	813818106081	RITHIKAA. M	74	18							38		38	20				38	34	12	74	18	38	38	72	32
78	813818106082	RUBIGA. M	58	18							40		36	0				38	34	12	58	18	40	38	70	12
79	813818106083	SAAI RAMYA. B T	74	18							36		28	20				32	38	16	74	18	36	32	66	36
80	813818106084	SAKTHIVEL. S	58	18							38		18	0				34	30	0	58	18	38	34	48	0
81	813818106085	SANJAI. M	66	18							40		40	20				34	34	4	66	18	40	34	74	24

82	813818106086	SANTHOSH. N	72	18							40		40	0				34	32	2	72	18	40	34	72	2
83	813818106087	SANTHOSH. S	70	18							40		40	8				34	32	0	70	18	40	34	72	8
84	813818106088	SANTHOSH KUMAR. S	66	18							40		36	0				34	32	0	66	18	40	34	68	0
85	813818106089	SATHYA. B	74	18							40		36	20				38	34	16	74	18	40	38	70	36
86	813818106090	SHABBNA. K	74	18							40		36	16				38	32	14	74	18	40	38	68	30
87	813818106091	SHANGAVI. G	62	18							40		32	0				32	32	0	62	18	40	32	64	0
88	813818106092	SHANKAR. V	56	18							40		20	20				18	30	2	56	18	40	18	50	22
89	813818106093	SHARMILA R	74	18							40		36	20				34	34	0	74	18	40	34	70	20
90	813818106094	SHARMINI. S	72	18							40		36	20				36	34	16	72	18	40	36	70	36
91	813818106095	SHASINI. M	54	18							40		36	6				34	34	14	54	18	40	34	70	20
92	813818106096	SHREE. G K	72	18							40		40	20				34	34	10	72	18	40	34	74	30
93	813818106097	SINDHUJA. R	74	18							40		40	20				38	40	16	74	18	40	38	80	36
94	813818106098	SIVA GANESH. T	62	18							40		40	20				38	34	6	62	18	40	38	74	26
95	813818106099	SIVARAM. R	56	18							40		36	0				36	32	4	56	18	40	36	68	4
96	813818106100	SOFANA. M	74	18							40		36	20				34	40	18	74	18	40	34	76	38
97	813818106101	SREENITHI. C	66	18							38		38	20				38	40	18	66	18	38	38	78	38
98	813818106102	SRINITHI. S	74	18							40		36	20				34	34	14	74	18	40	34	70	34
99	813818106103	SRINIVASA GUPTA. M	60	18							40		36	0				16	34	0	60	18	40	16	70	0
100	813818106104	SUBASH. A	74	18							40		40	20				20	30	12	74	18	40	20	70	32
101	813818106105	SUBASRI. K	52	18							38		40	18				16	20	6	52	18	38	16	60	24
102	813818106106	SUJITH. K	38	18							40		20	0				12	24	0	38	18	40	12	44	0
103	813818106107	SURESH. R	62	18							40		40	0				16	30	8	62	18	40	16	70	8
104	813818106108	SWASTHIKA. R	64	18							40		36	20				32	36	14	64	18	40	32	72	34
105	813818106109	SWATHI. I R	70	18							40		40	20				30	34	16	70	18	40	30	74	36
106	813818106110	TEJASWINI. S	74	18							40		40	8				32	34	18	74	18	40	32	74	26

107	813818106111	THENMOZHI. A	66	18							36		24	20				32	36	16	66	18	36	32	60	36
108	813818106112	UMA. R	74	18							40		40	20				28	22	12	74	18	40	28	62	32
109	813818106113	VARADAKRISHNAN. B	46	18							32		24	16				0	0	0	46	18	32	0	24	16
110	813818106114	VARSHAA. M	68	18							40		36	20				34	34	0	68	18	40	34	70	20
111	813818106115	VASANTHAKUMAR. R	74	18							40		36	16				0	0	0	74	18	40	0	36	16
112	813818106116	VIBUSHITHA . M S	57	18							40		16	20				32	32	0	57	18	40	32	48	20
113	813818106117	AASATH KHAN. N	56	18							0		0	0				0	0	0	56	18	0	0	0	0
114	813818106301	ANANTHA KUMAR. M R	64	14							50		28					28	28	8	64	14	50	28	56	8
115	813818106302	GOKILA. V	64	14							50		30					34	40	18	64	14	50	34	70	18
116	813818106303	LOGA DASS. J	54	18							40		40	0				14	28	18	54	18	40	14	68	18
117	813818106501	SHANMUGASUNDARA M. R	52	18							36		14	0				0	0	0	52	18	36	0	14	0
118	813818106701	CATHERIN. J	68	14							54		36					40	38	18	68	14	54	40	74	18
119	813818106702	CHARUMATHI N. B	68	16							52		32					38	40	18	68	16	52	38	72	18
CO's Target Value																					52	13	26	26	52	26
No. of Student Secured above CO's Target value																					113	118	117	79	93	28
Percentage of Student Secured above Target																					95	99	98	66	78	24

HOD/ECE

SARANATHAN COLLEGE OF ENGINEERING, Tiruchirappalli - 620012

Department of B.E. Electronics and Communication Engineering

COURSE OUTCOME ATTAINMENT - UNIVERSITY EXAMINATION

COURSE CODE/TITLE	EC8791 EMBEDDED AND REAL TIME SYSTEMS	Batch 2018 - 2022	
CO Attainment Level: 1 - (0% - 60%) 2- (61%-90%) 3-(91% and Above)			
S.NO	**REG. NO.**	**NAME OF THE STUDENT**	**GRADE**
1	813818106001	AAISHA THAHSEENA. M	A+
2	813818106002	ABDULLA. N	A
3	813818106003	ABDUL RAHMAN. M	A+
4	813818106004	ABINAYA. S	O
5	813818106005	ABISHEK. M	A+
6	813818106006	AHILAN. C	A+
7	813818106007	AJAIPRAMOTH. A	A+
8	813818106008	AJAY. S	A+
9	813818106009	AKSHAYA GODINA. D	O
10	813818106010	ANTONY JOHN JASON. S	O
11	813818106012	ATCHAYA. M	A+
12	813818106013	ATCHAYA. R	A+
13	813818106014	ATHISANKAR. A	A+
14	813818106015	ATSHAYA. R	O
15	813818106017	BANU PRIYA. B	A
16	813818106018	BAVITHRAN. G R	A+
17	813818106019	CAROLINE RUBY. S	A+
18	813818106020	CAVWIN DHEEPAK. R	A
19	813818106021	CHARUDHARSHANA. M	O
20	813818106022	DEVA DARSHINI. S	A+
21	813818106023	DHAARANI. B	O
22	813818106024	DHANAVIDHYA. G	A+
23	813818106025	DHANIYA LAKSHMI. J	O
24	813818106026	DILEEPAN. M	A+
25	813818106027	DINESH RAM. R	A+
26	813818106028	DIRAVIDAMANI. M	A+

27	813818106029	DIVYA BHARATHI. S	A+
28	813818106030	DURGASRI. R	O
29	813818106031	GOKULAKRISHNAN. M J	A+
30	813818106033	IRFAN AHMED. I	A+
31	813818106034	JAIBALAJI. C	A+
32	813818106035	JANNIFER. D	A+
33	813818106036	JAYAPRIYA. M	A+
34	813818106037	JAYASHREE. RI	A+
35	813818106038	JAYSHRINIVAAS. B	A+
36	813818106039	JERSON FENADICT ANDRO. A M	O
37	813818106040	KADHIR MANI. S	O
38	813818106041	KAMALAKANNAN. K	A+
39	813818106042	KARISHMA. G	A+
40	813818106043	KARTHIGA DEVI. G	A+
41	813818106044	KARTHIKEYAN. M M	A+
42	813818106045	KAVIMANI. A	A+
43	813818106046	KAVIYA. S	A+
44	813818106047	KAVYA. K S	O
45	813818106048	KEERTHANA. G.R	O
46	813818106049	KINGSLEY PATRICK JOY. J	O
47	813818106050	KISHORE. G	A
48	813818106051	KRISHNA KUMAR. K	A+
49	813818106052	KUMARAGURUPHARAN. S	A+
50	813818106053	KUMARESAN. A	A
51	813818106054	MADHESH. S	A+
52	813818106055	MADHUMITHA. J	A+
53	813818106056	MANIKANDAN. R	A+
54	813818106057	MANODURGA. V	A+
55	813818106058	MANOJKUMAR. S	A+
56	813818106059	MANOJ KUMAR A.	A+
57	813818106060	MOHAMED SHAFIQUR RAHMAN. J	A+
58	813818106061	MOHAMED UWAIS. K	A+
59	813818106062	NAGAMMAI. N	A+

60	813818106063	NIGILESH. D	A+
61	813818106064	NIKHIL RAJ. M	A
62	813818106065	NIRUBAN. J	A+
63	813818106066	NITHISHA. U	A+
64	813818106067	PAUL SNEKA. L	A+
65	813818106068	PAVITRA. B	O
66	813818106069	POOJA. B	A+
67	813818106070	POOJA. D	A+
68	813818106071	POORNIMA. S	A+
69	813818106072	PRAVEEN. D	A+
70	813818106073	PREETHI. B	A+
71	813818106074	PRIYA. S	A+
72	813818106075	RAHUL. R	A+
73	813818106076	RAJA LAKSHMI. P	A+
74	813818106077	RATHNA. M	A+
75	813818106078	RENULEKA. P	A+
76	813818106079	RESHMA. E	A+
77	813818106081	RITHIKAA. M	A+
78	813818106082	RUBIGA. M	A+
79	813818106083	SAAI RAMYA. B T	O
80	813818106084	SAKTHIVEL. S	A+
81	813818106085	SANJAI. M	A+
82	813818106086	SANTHOSH. N	B+
83	813818106087	SANTHOSH. S	A+
84	813818106088	SANTHOSH KUMAR. S	A+
85	813818106089	SATHYA. B	A+
86	813818106090	SHABBNA. K	A+
87	813818106091	SHANGAVI. G	A+
88	813818106092	SHANKAR. V	A
89	813818106093	SHARMILA R	A+
90	813818106094	SHARMINI. S	A+
91	813818106095	SHASINI. M	A+
92	813818106096	SHREE. G K	A+

93	813818106097	SINDHUJA. R	O
94	813818106098	SIVA GANESH. T	A+
95	813818106099	SIVARAM. R	A+
96	813818106100	SOFANA. M	A+
97	813818106101	SREENITHI. C	A+
98	813818106102	SRINITHI. S	A+
99	813818106103	SRINIVASA GUPTA. M	A
100	813818106104	SUBASH. A	A+
101	813818106105	SUBASRI. K	A
102	813818106106	SUJITH. K	A
103	813818106107	SURESH. R	O
104	813818106108	SWASTHIKA. R	O
105	813818106109	SWATHI. I R	O
106	813818106110	TEJASWINI. S	A+
107	813818106111	THENMOZHI. A	A+
108	813818106112	UMA. R	A+
109	813818106113	VARADAKRISHNAN. B	A
110	813818106114	VARSHAA. M	A+
111	813818106115	VASANTHAKUMAR. R	A+
112	813818106116	VIBUSHITHA . M S	A+
113	813818106117	AASATH KHAN. N	A
114	813818106301	ANANTHA KUMAR. M R	A+
115	813818106302	GOKILA. V	O
116	813818106303	LOGA DASS. J	A
117	813818106501	SHANMUGASUNDARAM. R	A
118	813818106701	CATHERIN. J	O
119	813818106702	CHARUMATHI N. B	O
No. of S/O Grade			22
No. of A/A+ Grade			82
No. of B/A Grade			14
No. of C/B+ Grade			1
No. of D/B Grade			0
No. of E/B Grade			0

Target for course outcome Attainment	65
No of students above the target	119
CO-Attainment University	100

HOD/ECE

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

Academic Year: **2021-22ODD** Semester: **7** Programme: **B.E/B.Tech (ECE)**
Subject Code : **EC8791** NBA Code : **C403** Title **Embedded and Real Time systems**
Faculty: Ms.P.Sivagamasundhari / Ms.J.Eindhumathy

Cos	CO Description	Attained Level	%
C403.1	Understand embedded design process and design methodologies	2.48	82.67
C403.2	Understand the architecture and programming of an ARM Processor	2.43	81.00
C403.3	Analyse the issues of real time embedded systems	2.5	83.33
C403.4	Apply the system design techniques to develop software for embedded systems	2.45	81.67
C403.5	Understand the differences between the general purpose operating system and RTOS	2.46	82.00
C403.6	Create embedded systems for real time applications	2.44	81.33

Course Exit Survey - Data Entry Details
No.of Students Participated in the survey: 119

Batchno	subcode	CO1	CO2	CO3	CO4	CO5	CO6	Date of Survey	Branch	Semester
202085	EC8791	3	2	3	2	3	2	30/03/2022	ECE	7
212001	EC8791	2	3	3	2	2	2	30/03/2022	ECE	7
212002	EC8791	2	2	3	3	3	2	30/03/2022	ECE	7
212003	EC8791	2	2	2	2	3	2	30/03/2022	ECE	7
212004	EC8791	2	2	2	3	2	2	30/03/2022	ECE	7
212005	EC8791	3	2	2	3	3	2	30/03/2022	ECE	7
212006	EC8791	3	3	3	3	3	3	30/03/2022	ECE	7
212007	EC8791	3	2	2	2	3	2	30/03/2022	ECE	7
212008	EC8791	3	2	2	3	2	2	30/03/2022	ECE	7
212009	EC8791	2	3	3	2	3	3	30/03/2022	ECE	7
212010	EC8791	3	2	2	2	2	2	30/03/2022	ECE	7
212012	EC8791	2	2	2	2	2	2	30/03/2022	ECE	7
212013	EC8791	2	2	2	3	2	2	30/03/2022	ECE	7
212014	EC8791	2	2	2	2	3	3	30/03/2022	ECE	7
212015	EC8791	2	2	3	3	3	2	30/03/2022	ECE	7

212017	EC8791	2	3	3	2	3	2	30/03/2022	ECE	7
212018	EC8791	2	2	2	3	3	3	30/03/2022	ECE	7
212019	EC8791	3	2	2	3	3	2	30/03/2022	ECE	7
212020	EC8791	2	3	3	3	2	3	30/03/2022	ECE	7
212021	EC8791	2	2	2	2	2	2	30/03/2022	ECE	7
212022	EC8791	3	2	3	2	2	2	30/03/2022	ECE	7
212023	EC8791	3	3	2	2	3	3	30/03/2022	ECE	7
212024	EC8791	2	2	2	2	3	3	30/03/2022	ECE	7
212025	EC8791	3	2	2	3	3	2	30/03/2022	ECE	7
212026	EC8791	3	3	3	2	3	3	30/03/2022	ECE	7
212027	EC8791	2	3	2	3	3	3	30/03/2022	ECE	7
212028	EC8791	2	2	3	2	3	2	30/03/2022	ECE	7
212029	EC8791	2	2	2	2	2	2	30/03/2022	ECE	7
212030	EC8791	2	2	3	3	3	3	30/03/2022	ECE	7
212031	EC8791	3	2	2	3	2	2	30/03/2022	ECE	7
212033	EC8791	2	3	3	3	2	2	30/03/2022	ECE	7
212034	EC8791	3	2	2	3	2	3	30/03/2022	ECE	7
212035	EC8791	2	2	3	2	3	3	30/03/2022	ECE	7
212036	EC8791	2	3	3	3	2	2	30/03/2022	ECE	7
212037	EC8791	3	3	2	2	3	2	30/03/2022	ECE	7
212038	EC8791	2	2	2	2	3	2	30/03/2022	ECE	7
212039	EC8791	3	2	3	2	2	2	30/03/2022	ECE	7
212040	EC8791	3	2	2	2	2	3	30/03/2022	ECE	7
212041	EC8791	3	3	2	3	2	3	30/03/2022	ECE	7
212042	EC8791	2	3	3	2	2	3	30/03/2022	ECE	7
212043	EC8791	2	3	2	3	2	2	30/03/2022	ECE	7
212044	EC8791	3	3	2	2	3	3	30/03/2022	ECE	7
212045	EC8791	2	3	2	2	3	2	30/03/2022	ECE	7
212046	EC8791	3	2	3	3	2	3	30/03/2022	ECE	7
212047	EC8791	3	2	3	2	2	3	30/03/2022	ECE	7
212048	EC8791	2	2	3	3	2	2	30/03/2022	ECE	7

212049	EC8791	3	2	3	3	3	3	30/03/2022	ECE	7
212050	EC8791	2	3	3	2	2	2	30/03/2022	ECE	7
212051	EC8791	3	2	2	3	3	2	30/03/2022	ECE	7
212052	EC8791	3	3	2	2	3	3	30/03/2022	ECE	7
212053	EC8791	3	2	3	2	2	3	30/03/2022	ECE	7
212054	EC8791	3	3	2	3	3	3	30/03/2022	ECE	7
212055	EC8791	2	2	2	3	2	2	30/03/2022	ECE	7
212056	EC8791	3	2	3	3	2	3	30/03/2022	ECE	7
212057	EC8791	3	3	3	3	2	2	30/03/2022	ECE	7
212058	EC8791	2	3	2	2	2	2	30/03/2022	ECE	7
212059	EC8791	3	3	3	3	3	3	30/03/2022	ECE	7
212060	EC8791	3	2	3	2	2	2	30/03/2022	ECE	7
212061	EC8791	3	2	3	3	3	3	30/03/2022	ECE	7
212062	EC8791	3	2	2	2	2	2	30/03/2022	ECE	7
212063	EC8791	2	2	3	2	2	3	30/03/2022	ECE	7
212064	EC8791	3	2	2	3	2	3	30/03/2022	ECE	7
212065	EC8791	2	2	3	3	2	3	30/03/2022	ECE	7
212066	EC8791	2	2	3	2	2	2	30/03/2022	ECE	7
212067	EC8791	2	2	2	2	2	2	30/03/2022	ECE	7
212068	EC8791	3	2	3	2	3	2	30/03/2022	ECE	7
212069	EC8791	2	2	2	3	2	2	30/03/2022	ECE	7
212070	EC8791	2	2	2	3	3	3	30/03/2022	ECE	7
212071	EC8791	2	3	3	2	3	2	30/03/2022	ECE	7
212072	EC8791	3	3	3	3	3	2	30/03/2022	ECE	7
212073	EC8791	2	2	2	2	2	3	30/03/2022	ECE	7
212074	EC8791	2	2	3	3	3	2	30/03/2022	ECE	7
212075	EC8791	3	2	3	2	2	2	30/03/2022	ECE	7
212076	EC8791	2	3	3	2	3	3	30/03/2022	ECE	7
212077	EC8791	3	2	2	2	2	3	30/03/2022	ECE	7
212078	EC8791	3	2	3	2	2	2	30/03/2022	ECE	7
212079	EC8791	3	3	3	3	3	3	30/03/2022	ECE	7

212081	EC8791	2	2	3	2	2	3	30/03/2022	ECE	7
212082	EC8791	3	3	3	2	2	2	30/03/2022	ECE	7
212083	EC8791	3	2	2	2	3	2	30/03/2022	ECE	7
212084	EC8791	2	3	3	2	2	3	30/03/2022	ECE	7
212085	EC8791	3	3	3	2	2	3	30/03/2022	ECE	7
212086	EC8791	2	2	3	3	2	3	30/03/2022	ECE	7
212087	EC8791	2	3	3	3	3	2	30/03/2022	ECE	7
212088	EC8791	3	3	2	2	3	3	30/03/2022	ECE	7
212089	EC8791	2	2	2	2	2	3	30/03/2022	ECE	7
212090	EC8791	3	3	2	3	2	2	30/03/2022	ECE	7
212091	EC8791	2	3	2	2	2	2	30/03/2022	ECE	7
212092	EC8791	2	2	3	2	2	2	30/03/2022	ECE	7
212093	EC8791	2	2	2	3	3	2	30/03/2022	ECE	7
212094	EC8791	3	2	2	2	2	2	30/03/2022	ECE	7
212095	EC8791	3	3	2	2	3	3	30/03/2022	ECE	7
212096	EC8791	2	2	2	3	2	2	30/03/2022	ECE	7
212097	EC8791	3	2	3	3	2	2	30/03/2022	ECE	7
212098	EC8791	3	3	2	3	2	3	30/03/2022	ECE	7
212099	EC8791	2	2	3	2	2	3	30/03/2022	ECE	7
212100	EC8791	3	3	2	2	3	2	30/03/2022	ECE	7
212101	EC8791	2	2	3	3	3	2	30/03/2022	ECE	7
212102	EC8791	3	2	2	2	3	3	30/03/2022	ECE	7
212103	EC8791	2	2	3	2	2	2	30/03/2022	ECE	7
212104	EC8791	3	3	3	2	2	2	30/03/2022	ECE	7
212105	EC8791	2	3	2	3	2	3	30/03/2022	ECE	7
212106	EC8791	2	3	2	2	3	2	30/03/2022	ECE	7
212107	EC8791	2	3	3	2	3	3	30/03/2022	ECE	7
212108	EC8791	3	3	3	3	3	3	30/03/2022	ECE	7
212109	EC8791	3	3	3	2	3	2	30/03/2022	ECE	7
212110	EC8791	2	2	2	3	3	2	30/03/2022	ECE	7
212111	EC8791	3	3	3	3	2	2	30/03/2022	ECE	7

212112	EC8791	3	2	2	3	2	3	30/03/2022	ECE	7
212113	EC8791	2	3	2	2	3	2	30/03/2022	ECE	7
212114	EC8791	2	3	3	3	3	2	30/03/2022	ECE	7
212115	EC8791	3	3	3	2	2	2	30/03/2022	ECE	7
212116	EC8791	2	2	3	2	2	2	30/03/2022	ECE	7
212117	EC8791	3	3	2	3	2	3	30/03/2022	ECE	7
212118	EC8791	3	3	2	3	2	3	30/03/2022	ECE	7
212119	EC8791	2	3	2	3	3	3	30/03/2022	ECE	7
212120	EC8791	2	3	2	2	2	3	30/03/2022	ECE	7
212121	EC8791	2	2	3	2	3	2	30/03/2022	ECE	7
212122	EC8791	2	3	2	3	3	3	30/03/2022	ECE	7
Attained Level		2.48	2.43	2.5	2.45	2.46	2.44			
%		82.67	81.00	83.33	81.67	82.00	81.33			

HOD/ECE

Saranathan College of Engineering

Department of Electronics and Communication Engineering

COURSE CODE / TITLE	EC8791 EMBEDDED AND REAL TIME SYSTEMS	**NBA Code**	C403
SEMESTER / YEAR	VII sem / IV Year	**Academic year**	2021-2022
COORDINATOR	Ms.P.Sivagamasundhari / Ms.J.Eindhumathy		
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
C403.1	95	100	97.98	82.63	94.91	3
C403.2	99	100	99.66	80.95	95.92	3
C403.3	98	100	99.33	83.19	96.1	3
C403.4	66	100	86.55	81.79	85.6	2
C403.5	78	100	91.26	82.07	89.42	2
C403.6	24	100	69.41	81.23	71.78	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	1	2	2
C403.2	2	2	1	1	1	1			1	1	1	1	2	2
C403.3	2	2	1	1	1	1			1	1	1	1	2	2
C403.4	2	2	1	1	1	1			1	1	1	1	2	2
C403.5	2	2	1	1	1	1			1	1	1	1	2	2
C403.6	2	2	1	1	1	1			1	1	1	1	2	2
C403	2	2	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
C403.1	2.00	2.00	1.00	1.00	1.00	1.00			1.00	1.00	1.00	1.00	2.00	2.00
C403.2	2.00	2.00	1.00	1.00	1.00	1.00			1.00	1.00	1.00	1.00	2.00	2.00
C403.3	2.00	2.00	1.00	1.00	1.00	1.00			1.00	1.00	1.00	1.00	2.00	2.00
C403.4	1.33	1.33	0.67	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	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	0.67	1.33	1.33
Level	1.67	1.67	0.83	0.83	0.83	0.83			0.83	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
C403	2	2	1	1	1	1			1	1	1	1	2	2
Attainment	1.67	1.67	0.83	0.83	0.83	0.83			0.83	0.83	0.83	0.83	1.67	1.67

HOD/ECE

SARANATHAN COLLEGE OF ENGINEERING, Tiruchirappalli - 620012

Department of ECE

COURSE OUTCOME DIRECT MEASUREMENT - Laboratory Course

ACADEMIC YEAR : 2021-2022

COURSE CODE: EC8711	**BATCH: 2018-2022**
	YEAR/SEM: IV/VII
FACULTY INCHARGE: P.SIVAGAMASUNDHARI & J.EINDHUMATHY	**CLASS/SEC: IV ECE A & B**
ATTAINMENT LEVEL: **Level 1: 0 - 69% of the students scored more than target** **Level 2: 70 - 89% of the students scored more than target** **Level 3: 90 - 100% of the students scored more than target**	**TOTAL STRENGTH** **119**
	Target (%) **80**

S.No	AU Reg. No.	Name of the Student	Experiment No											Final Mark
			1	2	3	4	5	6	7	8	9	10	11	
1	813818106001	AAISHA THAHSEENA. M	100	100	100	100	100	100	100	100	100	100	100	100
2	813818106002	ABDULLA. N	100	100	100	100	100	100	100	100	100	100	100	100
3	813818106003	ABDUL RAHMAN. M	95	92.5	100	92.5	100	92.5	97.5	97.5	90	92.5	97.5	95
4	813818106004	ABINAYA. S	100	100	100	100	100	100	100	100	100	100	100	100
5	813818106005	ABISHEK. M	95	92.5	100	92.5	100	92.5	97.5	97.5	90	92.5	97.5	95
6	813818106006	AHILAN. C	95	92.5	100	92.5	100	92.5	97.5	97.5	90	92.5	97.5	95
7	813818106007	AJAIPRAMOTH. A	95	92.5	100	92.5	100	92.5	97.5	97.5	90	92.5	97.5	95
8	813818106008	AJAY. S	95	92.5	100	92.5	100	92.5	97.5	97.5	90	92.5	97.5	95
9	813818106009	AKSHAYA GODINA. D	95	92.5	100	92.5	100	92.5	97.5	97.5	90	92.5	97.5	95
10	813818106010	ANTONY JOHN JASON. S	100	100	100	100	100	100	100	100	100	100	100	100
11	813818106012	ATCHAYA. M	100	100	100	100	100	100	100	100	100	100	100	100
12	813818106013	ATCHAYA. R	85	82.5	100	82.5	100	82.5	97.5	97.5	85	82.5	97.5	90
13	813818106014	ATHISANKAR. A	95	92.5	100	92.5	100	92.5	97.5	97.5	90	92.5	97.5	95
14	813818106015	ATSHAYA. R	95	92.5	100	92.5	100	92.5	97.5	97.5	90	92.5	97.5	95
15	813818106017	BANU PRIYA. B	95	92.5	100	92.5	100	92.5	97.5	97.5	90	92.5	97.5	95
16	813818106018	BAVITHRAN. G R	95	92.5	100	92.5	100	92.5	97.5	97.5	90	92.5	97.5	95
17	813818106019	CAROLINE RUBY. S	95	92.5	100	92.5	100	92.5	97.5	97.5	90	92.5	97.5	95

18	813818106020	CAVWIN DHEEPAK. R	95	92.5	100	92.5	100	92.5	97.5	97.5	90	92.5	97.5	95
19	813818106021	CHARUDHARSHANA. M	100	100	100	100	100	100	100	100	100	100	100	100
20	813818106022	DEVA DARSHINI. S	100	100	100	100	100	100	100	100	100	100	100	100
21	813818106023	DHAARANI. B	100	100	100	100	100	100	100	100	100	100	100	100
22	813818106024	DHANAVIDHYA. G	100	100	100	100	100	100	100	100	100	100	100	100
23	813818106025	DHANIYA LAKSHMI. J	100	100	100	100	100	100	100	100	100	100	100	100
24	813818106026	DILEEPAN. M	100	100	100	100	100	100	100	100	100	100	100	100
25	813818106027	DINESH RAM. R	100	100	100	100	100	100	100	100	100	100	100	100
26	813818106028	DIRAVIDAMANI. M	100	100	100	100	100	100	100	100	100	100	100	100
27	813818106029	DIVYA BHARATHI. S	95	92.5	100	92.5	100	92.5	97.5	97.5	90	92.5	97.5	95
28	813818106030	DURGASRI. R	95	92.5	100	92.5	100	92.5	97.5	97.5	90	92.5	97.5	95
29	813818106031	GOKULAKRISHNAN. M J	95	92.5	100	92.5	100	92.5	97.5	97.5	90	92.5	97.5	95
30	813818106033	IRFAN AHMED. I	100	100	100	100	100	100	100	100	100	100	100	100
31	813818106034	JAIBALAJI. C	100	100	100	100	100	100	100	100	100	100	100	100
32	813818106035	JANNIFER. D	95	92.5	100	92.5	100	92.5	97.5	97.5	90	92.5	97.5	95
33	813818106036	JAYAPRIYA. M	100	100	100	100	100	100	100	100	100	100	100	100
34	813818106037	JAYASHREE. RI	100	100	100	100	100	100	100	100	100	100	100	100
35	813818106038	JAYSHRINIVAAS. B	100	100	100	100	100	100	100	100	100	100	100	100
36	813818106039	JERSON FENADICT ANDRO. A M	95	92.5	100	92.5	100	92.5	97.5	97.5	90	92.5	97.5	95
37	813818106040	KADHIR MANI. S	95	92.5	100	92.5	100	92.5	97.5	97.5	90	92.5	97.5	95
38	813818106041	KAMALAKANNAN. K	100	100	100	100	100	100	100	100	100	100	100	100
39	813818106042	KARISHMA. G	95	92.5	100	92.5	100	92.5	97.5	97.5	90	92.5	97.5	95
40	813818106043	KARTHIGA DEVI. G	95	92.5	100	92.5	100	92.5	97.5	97.5	90	92.5	97.5	95
41	813818106044	KARTHIKEYAN. M M	95	92.5	100	92.5	100	92.5	97.5	97.5	90	92.5	97.5	95
42	813818106045	KAVIMANI. A	95	92.5	100	92.5	100	92.5	97.5	97.5	90	92.5	97.5	95
43	813818106046	KAVIYA. S	95	92.5	100	92.5	100	92.5	97.5	97.5	90	92.5	97.5	95
44	813818106047	KAVYA. K S	95	92.5	100	92.5	100	92.5	97.5	97.5	90	92.5	97.5	95
45	813818106048	KEERTHANA. G.R	95	92.5	100	92.5	100	92.5	97.5	97.5	90	92.5	97.5	95
46	813818106049	KINGSLEY PATRICK JOY. J	100	100	100	100	100	100	100	100	100	100	100	100
47	813818106050	KISHORE. G	95	92.5	100	92.5	100	92.5	97.5	97.5	90	92.5	97.5	95
48	813818106051	KRISHNA KUMAR. K	100	100	100	100	100	100	100	100	100	100	100	100
49	813818106052	KUMARAGURUPHARAN. S	100	100	100	100	100	100	100	100	100	100	100	100
50	813818106053	KUMARESAN. A	100	100	100	100	100	100	100	100	100	100	100	100

51	813818106054	MADHESH. S	95	92.5	100	92.5	100	92.5	97.5	97.5	90	92.5	97.5	95
52	813818106055	MADHUMITHA. J	95	92.5	100	92.5	100	92.5	97.5	97.5	90	92.5	97.5	95
53	813818106056	MANIKANDAN. R	100	100	100	100	100	100	100	100	100	100	100	100
54	813818106057	MANODURGA. V	95	92.5	100	92.5	100	92.5	97.5	97.5	90	92.5	97.5	95
55	813818106058	MANOJKUMAR. S	95	92.5	100	92.5	100	92.5	97.5	97.5	90	92.5	97.5	95
56	813818106059	MANOJ KUMAR A.	95	92.5	100	92.5	100	92.5	97.5	97.5	90	92.5	97.5	95
57	813818106060	MOHAMED SHAFIQUR RAHMAN. J	100	100	100	100	100	100	100	100	100	100	100	100
58	813818106061	MOHAMED UWAIS. K	100	100	100	100	100	100	100	100	100	100	100	100
59	813818106062	NAGAMMAI. N	100	100	100	100	100	100	100	100	100	100	100	100
60	813818106063	NIGILESH. D	85	82.5	100	82.5	100	82.5	97.5	97.5	85	82.5	97.5	90
61	813818106064	NIKHIL RAJ. M	100	100	100	100	100	100	100	100	100	100	100	100
62	813818106065	NIRUBAN. J	95	92.5	100	92.5	100	92.5	97.5	97.5	90	92.5	97.5	95
63	813818106066	NITHISHA. U	100	100	100	100	100	100	100	100	100	100	100	100
64	813818106067	PAUL SNEKA. L	100	100	100	100	100	100	100	100	100	100	100	100
65	813818106068	PAVITRA. B	100	100	100	100	100	100	100	100	100	100	100	100
66	813818106069	POOJA. B	100	100	100	100	100	100	100	100	100	100	100	100
67	813818106070	POOJA. D	100	100	100	100	100	100	100	100	100	100	100	100
68	813818106071	POORNIMA. S	100	100	100	100	100	100	100	100	100	100	100	100
69	813818106072	PRAVEEN. D	100	100	100	100	100	100	100	100	100	100	100	100
70	813818106073	PREETHI. B	100	100	100	100	100	100	100	100	100	100	100	100
71	813818106074	PRIYA. S	100	100	100	100	100	100	100	100	100	100	100	100
72	813818106075	RAHUL. R	85	82.5	100	82.5	100	82.5	97.5	97.5	85	82.5	97.5	90
73	813818106076	RAJA LAKSHMI. P	100	100	100	100	100	100	100	100	100	100	100	100
74	813818106077	RATHNA. M	100	100	100	100	100	100	100	100	100	100	100	100
75	813818106078	RENULEKA. P	100	100	100	100	100	100	100	100	100	100	100	100
76	813818106079	RESHMA. E	100	100	100	100	100	100	100	100	100	100	100	100
77	813818106081	RITHIKAA. M	100	100	100	100	100	100	100	100	100	100	100	100
78	813818106082	RUBIGA. M	100	100	100	100	100	100	100	100	100	100	100	100
79	813818106083	SAAI RAMYA. B T	100	100	100	100	100	100	100	100	100	100	100	100
80	813818106084	SAKTHIVEL. S	100	100	100	100	100	100	100	100	100	100	100	100
81	813818106085	SANJAI. M	100	100	100	100	100	100	100	100	100	100	100	100
82	813818106086	SANTHOSH. N	100	100	100	100	100	100	100	100	100	100	100	100
83	813818106087	SANTHOSH. S	100	100	100	100	100	100	100	100	100	100	100	100

84	813818106088	SANTHOSH KUMAR. S	100	100	100	100	100	100	100	100	100	100	100	100
85	813818106089	SATHYA. B	100	100	100	100	100	100	100	100	100	100	100	100
86	813818106090	SHABBNA. K	85	82.5	100	82.5	100	82.5	97.5	97.5	85	82.5	97.5	90
87	813818106091	SHANGAVI. G	100	100	100	100	100	100	100	100	100	100	100	100
88	813818106092	SHANKAR. V	95	92.5	100	92.5	100	92.5	97.5	97.5	90	92.5	97.5	95
89	813818106093	SHARMILA R	100	100	100	100	100	100	100	100	100	100	100	100
90	813818106094	SHARMINI. S	100	100	100	100	100	100	100	100	100	100	100	100
91	813818106095	SHASINI. M	100	100	100	100	100	100	100	100	100	100	100	100
92	813818106096	SHREE. G K	100	100	100	100	100	100	100	100	100	100	100	100
93	813818106097	SINDHUJA. R	100	100	100	100	100	100	100	100	100	100	100	100
94	813818106098	SIVA GANESH. T	100	100	100	100	100	100	100	100	100	100	100	100
95	813818106099	SIVARAM. R	100	100	100	100	100	100	100	100	100	100	100	100
96	813818106100	SOFANA. M	100	100	100	100	100	100	100	100	100	100	100	100
97	813818106101	SREENITHI. C	100	100	100	100	100	100	100	100	100	100	100	100
98	813818106102	SRINITHI. S	100	100	100	100	100	100	100	100	100	100	100	100
99	813818106103	SRINIVASA GUPTA. M	100	100	100	100	100	100	100	100	100	100	100	100
100	813818106104	SUBASH. A	100	100	100	100	100	100	100	100	100	100	100	100
101	813818106105	SUBASRI. K	100	100	100	100	100	100	100	100	100	100	100	100
102	813818106106	SUJITH. K	100	100	100	100	100	100	100	100	100	100	100	100
103	813818106107	SURESH. R	100	100	100	100	100	100	100	100	100	100	100	100
104	813818106108	SWASTHIKA. R	100	100	100	100	100	100	100	100	100	100	100	100
105	813818106109	SWATHI. I R	100	100	100	100	100	100	100	100	100	100	100	100
106	813818106110	TEJASWINI. S	95	92.5	100	92.5	100	92.5	97.5	97.5	90	92.5	97.5	95
107	813818106111	THENMOZHI. A	100	100	100	100	100	100	100	100	100	100	100	100
108	813818106112	UMA. R	100	100	100	100	100	100	100	100	100	100	100	100
109	813818106113	VARADAKRISHNAN. B	85	82.5	100	82.5	100	82.5	97.5	97.5	85	82.5	97.5	90
110	813818106114	VARSHAA. M	95	92.5	100	92.5	100	92.5	97.5	97.5	90	92.5	97.5	95
111	813818106115	VASANTHAKUMAR. R	100	100	100	100	100	100	100	100	100	100	100	100
112	813818106116	VIBUSHITHA . M S	100	100	100	100	100	100	100	100	100	100	100	100
113	813818106117	AASATH KHAN. N	100	100	100	100	100	100	100	100	100	100	100	100
114	813818106301	ANANTHA KUMAR. M R	95	92.5	100	92.5	100	92.5	97.5	97.5	90	92.5	97.5	95
115	813818106302	GOKILA. V	100	100	100	100	100	100	100	100	100	100	100	100
116	813818106303	LOGA DASS. J	100	100	100	100	100	100	100	100	100	100	100	100

117	813818106501	SHANMUGASUNDARAM. R	100	100	100	100	100	100	100	100	100	100	100	100
118	813818106701	CATHERIN. J	100	100	100	100	100	100	100	100	100	100	100	100
119	813818106702	CHARUMATHI N. B	100	100	100	100	100	100	100	100	100	100	100	100
No. of Students scored above Target Value			119	119	119	119	119	119	119	119	119	119	119	
Percentage of Students scored above Target			100	100	100	100	100	100	100	100	100	100	100	
Level			3	3	3	3	3	3	3	3	3	3	3	

HOD/ECE

SARANATHAN COLLEGE OF ENGINEERING, Tiruchirappalli - 620012
DEPARTMENT OF ECE
COURSE OUTCOME ATTAINMENT - UNIVERSITY EXAMINATION
ACADEMIC YEAR : 2021 - 2022 EVEN SEM

CLASS /SEC: IV ECE / A&B **Batch:2018-2022**
SUBJECT : C407 / EC8711-EMBEDDED LABORATORY
CO Attainment Level: 1 - (0% - 69%) 2- (70%-89%) 3-(90% and Above)

S.NO	Register No	NAME	GE8261
1	813818106001	AAISHA THAHSEENA. M	A+
2	813818106002	ABDULLA. N	A
3	813818106003	ABDUL RAHMAN. M	A+
4	813818106004	ABINAYA. S	O
5	813818106005	ABISHEK. M	O
6	813818106006	AHILAN. C	A+
7	813818106007	AJAIPRAMOTH. A	A+
8	813818106008	AJAY. S	O
9	813818106009	AKSHAYA GODINA. D	O
10	813818106010	ANTONY JOHN JASON. S	A
11	813818106012	ATCHAYA. M	O
12	813818106013	ATCHAYA. R	A+
13	813818106014	ATHISANKAR. A	O
14	813818106015	ATSHAYA. R	O
15	813818106017	BANU PRIYA. B	O

16	813818106018	BAVITHRAN. G R	A
17	813818106019	CAROLINE RUBY. S	A+
18	813818106020	CAVWIN DHEEPAK. R	A+
19	813818106021	CHARUDHARSHANA. M	A+
20	813818106022	DEVA DARSHINI. S	O
21	813818106023	DHAARANI. B	O
22	813818106024	DHANAVIDHYA. G	O
23	813818106025	DHANIYA LAKSHMI. J	O
24	813818106026	DILEEPAN. M	A+
25	813818106027	DINESH RAM. R	A+
26	813818106028	DIRAVIDAMANI. M	A+
27	813818106029	DIVYA BHARATHI. S	O
28	813818106030	DURGASRI. R	O
29	813818106031	GOKULAKRISHNAN. M J	A
30	813818106033	IRFAN AHMED. I	A+
31	813818106034	JAIBALAJI. C	A+
32	813818106035	JANNIFER. D	O
33	813818106036	JAYAPRIYA. M	O
34	813818106037	JAYASHREE. RI	A+
35	813818106038	JAYSHRINIVAAS. B	O
36	813818106039	JERSON FENADICT ANDRO. A M	O
37	813818106040	KADHIR MANI. S	A+
38	813818106041	KAMALAKANNAN. K	A+
39	813818106042	KARISHMA. G	A+

40	813818106043	KARTHIGA DEVI. G	O
41	813818106044	KARTHIKEYAN. M M	O
42	813818106045	KAVIMANI. A	O
43	813818106046	KAVIYA. S	O
44	813818106047	KAVYA. K S	O
45	813818106048	KEERTHANA. G.R	O
46	813818106049	KINGSLEY PATRICK JOY. J	O
47	813818106050	KISHORE. G	O
48	813818106051	KRISHNA KUMAR. K	O
49	813818106052	KUMARAGURUPHARAN. S	O
50	813818106053	KUMARESAN. A	A+
51	813818106054	MADHESH. S	O
52	813818106055	MADHUMITHA. J	O
53	813818106056	MANIKANDAN. R	O
54	813818106057	MANODURGA. V	O
55	813818106058	MANOJKUMAR. S	A+
56	813818106059	MANOJ KUMAR A.	A+
57	813818106060	MOHAMED SHAFIQUR RAHMAN. J	O
58	813818106061	MOHAMED UWAIS. K	O
59	813818106062	NAGAMMAI. N	A+
60	813818106063	NIGILESH. D	O
61	813818106064	NIKHIL RAJ. M	A+
62	813818106065	NIRUBAN. J	O
63	813818106066	NITHISHA. U	O

64	813818106067	PAUL SNEKA. L	O
65	813818106068	PAVITRA. B	O
66	813818106069	POOJA. B	O
67	813818106070	POOJA. D	O
68	813818106071	POORNIMA. S	A+
69	813818106072	PRAVEEN. D	O
70	813818106073	PREETHI. B	O
71	813818106074	PRIYA. S	O
72	813818106075	RAHUL. R	O
73	813818106076	RAJA LAKSHMI. P	O
74	813818106077	RATHNA. M	O
75	813818106078	RENULEKA. P	O
76	813818106079	RESHMA. E	O
77	813818106081	RITHIKAA. M	O
78	813818106082	RUBIGA. M	A+
79	813818106083	SAAI RAMYA. B T	O
80	813818106084	SAKTHIVEL. S	O
81	813818106085	SANJAI. M	O
82	813818106086	SANTHOSH. N	A+
83	813818106087	SANTHOSH. S	O
84	813818106088	SANTHOSH KUMAR. S	A+
85	813818106089	SATHYA. B	O
86	813818106090	SHABBNA. K	O
87	813818106091	SHANGAVI. G	O

88	813818106092	SHANKAR. V	A
89	813818106093	SHARMILA R	O
90	813818106094	SHARMINI. S	O
91	813818106095	SHASINI. M	A+
92	813818106096	SHREE. G K	O
93	813818106097	SINDHUJA. R	O
94	813818106098	SIVA GANESH. T	O
95	813818106099	SIVARAM. R	O
96	813818106100	SOFANA. M	A+
97	813818106101	SREENITHI. C	O
98	813818106102	SRINITHI. S	O
99	813818106103	SRINIVASA GUPTA. M	O
100	813818106104	SUBASH. A	A
101	813818106105	SUBASRI. K	B+
102	813818106106	SUJITH. K	A+
103	813818106107	SURESH. R	A+
104	813818106108	SWASTHIKA. R	A+
105	813818106109	SWATHI. I R	O
106	813818106110	TEJASWINI. S	O
107	813818106111	THENMOZHI. A	O
108	813818106112	UMA. R	A+
109	813818106113	VARADAKRISHNAN. B	O
110	813818106114	VARSHAA. M	O
111	813818106115	VASANTHAKUMAR. R	A

112	813818106116	VIBUSHITHA . M S	O
113	813818106117	AASATH KHAN. N	A+
114	813818106301	ANANTHA KUMAR. M R	O
115	813818106302	GOKILA. V	O
116	813818106303	LOGA DASS. J	A+
117	813818106501	SHANMUGASUNDARAM. R	A+
118	813818106701	CATHERIN. J	O
119	813818106702	CHARUMATHI N. B	O
No. of O Grade			**76**
No. of A+ Grade			**35**
No. of A Grade			**7**
No.of B+ Grade			**1**
No. of B Grade			**0**
No. of UA Grade			**0**
Target for course outcome Attainment			**80**
No of students above the target			**118**
CO-Attainment University (%)			**99.16**

HOD/ECE

SARANATHAN COLLEGE OF E

Depar

COURSE CODE: EC8711 COURSE TITLE : EMBED

S.No	Reg.No	Exp.No. 1					Exp.No. 2					Exp.No. 3					Exp.No. 4					Exp.No. 5				
		P1	P2	P3	P4	TOT	P1	P2	P3	P4	TOT	P1	P2	P3	P4	TOT	P1	P2	P3	P4	TOT	P1	P2	P3	P4	TOT
1	813818106001	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
2	813818106002	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
3	813818106003	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
4	813818106004	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	813818106005	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
6	813818106006	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
7	813818106007	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
8	813818106008	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
9	813818106009	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
10	813818106010	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
11	813818106012	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
12	813818106013	5.0	5.0	5.0	4.0	17.0	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
13	813818106014	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
14	813818106015	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
15	813818106017	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
16	813818106018	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
17	813818106019	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
18	813818106020	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
19	813818106021	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
20	813818106022	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
21	813818106023	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
22	813818106024	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
23	813818106025	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
24	813818106026	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
25	813818106027	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
26	813818106028	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
27	813818106029	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
28	813818106030	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
29	813818106031	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
30	813818106033	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
31	813818106034	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
32	813818106035	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
33	813818106036	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
34	813818106037	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
35	813818106038	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
36	813818106039	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
37	813818106040	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
38	813818106041	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
39	813818106042	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
40	813818106043	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
41	813818106044	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
42	813818106045	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

45	813818106048	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
46	813818106049	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
47	813818106050	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
48	813818106051	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
49	813818106052	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
50	813818106053	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
51	813818106054	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
52	813818106055	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
53	813818106056	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
54	813818106057	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
55	813818106058	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
56	813818106059	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
57	813818106060	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
58	813818106061	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
59	813818106062	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
60	813818106063	5.0	5.0	5.0	4.0	17.0	5.0	4.5	5.0	4.0	16.5	5.0	5.0	5.0	5.0	20.0	5.0	5.0	4.5	4.0	16.5	5.0	5.0	5.0	5.0	20.0
61	813818106064	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
62	813818106065	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
63	813818106066	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
64	813818106067	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
65	813818106068	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
66	813818106069	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
67	813818106070	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
68	813818106071	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
69	813818106072	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
70	813818106073	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
71	813818106074	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
72	813818106075	5.0	5.0	5.0	4.0	17.0	5.0	4.5	5.0	4.0	16.5	5.0	5.0	5.0	5.0	20.0	5.0	5.0	4.5	4.0	16.5	5.0	5.0	5.0	5.0	20.0
73	813818106076	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
74	813818106077	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
75	813818106078	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
76	813818106079	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
77	813818106081	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
78	813818106082	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
79	813818106083	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
80	813818106084	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
81	813818106085	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
82	813818106086	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
83	813818106087	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
84	813818106088	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
85	813818106089	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
86	813818106090	5.0	5.0	5.0	4.0	17.0	5.0	4.5	5.0	4.0	16.5	5.0	5.0	5.0	5.0	20.0	5.0	5.0	4.5	4.0	16.5	5.0	5.0	5.0	5.0	20.0
87	813818106091	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
88	813818106092	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
89	813818106093	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
90	813818106094	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

91	813818106095	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
92	813818106096	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
93	813818106097	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
94	813818106098	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
95	813818106099	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
96	813818106100	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
97	813818106101	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
98	813818106102	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
99	813818106103	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
100	813818106104	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
101	813818106105	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
102	813818106106	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
103	813818106107	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
104	813818106108	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
105	813818106109	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
106	813818106110	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
107	813818106111	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
108	813818106112	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
109	813818106113	5.0	5.0	5.0	4.0	17.0	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
110	813818106114	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
111	813818106115	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
112	813818106116	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
113	813818106117	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
114	813818106301	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
115	813818106302	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
116	813818106303	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
117	813818106501	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
118	813818106701	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
119	813818106702	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
Average		19.6					19.4					20.0					19.4					20.0				

HOD/ECE

ıGINEERING, Tiruchirappalli - 620012

ment of ECE

DED LAB ACADEMIC YEAR : 2021- 2022 BATCH: 2018-2022 FACULTY INCHARGE: P.SIVAGAMASUNDHARI, J.BINDHUMATHY Year/Sem: IV /VII

Experiment Number

Exp.No. 6					Exp.No. 7					Exp.No. 8					Exp.No. 9					Exp.No. 10					Exp.No. 11					
P1	P2	P3	P4	TOT	P1	P2	P3	P4	TOT	P1	P2	P3	P4	TOT	P1	P2	P3	P4	TOT	P1	P2	P3	P4	TOT	P1	P2	P3	P4	TOT	AVG
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	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	20.0
5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	5.0	5.0	5.0	4.5	19.5	5.0	5.0	4.0	4.0	18.0	5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	19.0
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	20.0
5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	5.0	5.0	5.0	4.5	19.5	5.0	5.0	4.0	4.0	18.0	5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	19.0
5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	5.0	5.0	5.0	4.5	19.5	5.0	5.0	4.0	4.0	18.0	5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	19.0
5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	5.0	5.0	5.0	4.5	19.5	5.0	5.0	4.0	4.0	18.0	5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	19.0
5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	5.0	5.0	5.0	4.5	19.5	5.0	5.0	4.0	4.0	18.0	5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	19.0
5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	5.0	5.0	5.0	4.5	19.5	5.0	5.0	4.0	4.0	18.0	5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	19.0
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	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	20.0
5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	5.0	5.0	5.0	4.5	19.5	5.0	5.0	5.0	4.0	17.0	5.0	5.0	4.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	18.0
5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	5.0	5.0	5.0	4.5	19.5	5.0	5.0	4.0	4.0	18.0	5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	19.0
5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	5.0	5.0	5.0	4.5	19.5	5.0	5.0	4.0	4.0	18.0	5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	19.0
5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	5.0	5.0	5.0	4.5	19.5	5.0	5.0	4.0	4.0	18.0	5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	19.0
5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	5.0	5.0	5.0	4.5	19.5	5.0	5.0	4.0	4.0	18.0	5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	19.0
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	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	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	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	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	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	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	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	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	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	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	20.0
5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	5.0	5.0	5.0	4.5	19.5	5.0	5.0	4.0	4.0	18.0	5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	19.0
5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	5.0	5.0	5.0	4.5	19.5	5.0	5.0	4.0	4.0	18.0	5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	19.0
5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	5.0	5.0	5.0	4.5	19.5	5.0	5.0	4.0	4.0	18.0	5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	19.0
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	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	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	20.0
5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	5.0	5.0	5.0	4.5	19.5	5.0	5.0	4.0	4.0	18.0	5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	19.0
5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	5.0	5.0	5.0	4.5	19.5	5.0	5.0	4.0	4.0	18.0	5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	19.0
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	20.0
5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	5.0	5.0	5.0	4.5	19.5	5.0	5.0	4.0	4.0	18.0	5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	19.0
5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	5.0	5.0	5.0	4.5	19.5	5.0	5.0	4.0	4.0	18.0	5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	19.0
5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	5.0	5.0	5.0	4.5	19.5	5.0	5.0	4.0	4.0	18.0	5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	19.0
5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	5.0	5.0	5.0	4.5	19.5	5.0	5.0	4.0	4.0	18.0	5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	19.0

5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	5.0	5.0	5.0	4.5	19.5	5.0	5.0	4.0	4.0	18.0	5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	19.0
5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	5.0	5.0	5.0	4.5	19.5	5.0	5.0	4.0	4.0	18.0	5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	19.0
5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	5.0	5.0	5.0	4.5	19.5	5.0	5.0	4.0	4.0	18.0	5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	19.0
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	20.0
5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	5.0	5.0	5.0	4.5	19.5	5.0	5.0	4.0	4.0	18.0	5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	19.0
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	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	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	20.0
5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	5.0	5.0	5.0	4.5	19.5	5.0	5.0	4.0	4.0	18.0	5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	19.0
5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	5.0	5.0	5.0	4.5	19.5	5.0	5.0	4.0	4.0	18.0	5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	19.0
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	20.0
5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	5.0	5.0	5.0	4.5	19.5	5.0	5.0	4.0	4.0	18.0	5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	19.0
5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	5.0	5.0	5.0	4.5	19.5	5.0	5.0	4.0	4.0	18.0	5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	19.0
5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	5.0	5.0	5.0	4.5	19.5	5.0	5.0	4.0	4.0	18.0	5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	19.0
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	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	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	20.0
5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	5.0	5.0	5.0	4.5	19.5	5.0	5.0	3.0	4.0	17.0	5.0	5.0	4.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	18.0
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	20.0
5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	5.0	5.0	5.0	4.5	19.5	5.0	5.0	4.0	4.0	18.0	5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	19.0
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	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	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	20.0
5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	5.0	5.0	5.0	4.5	19.5	5.0	5.0	3.0	4.0	17.0	5.0	5.0	4.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	18.0
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	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	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	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	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	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	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	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	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	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	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	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	20.0
5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	5.0	5.0	5.0	4.5	19.5	5.0	5.0	3.0	4.0	17.0	5.0	5.0	4.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	18.0
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	20.0
5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	5.0	5.0	5.0	4.5	19.5	5.0	5.0	4.0	4.0	18.0	5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	19.0
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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	20.0
5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	5.0	5.0	5.0	4.5	19.5	5.0	5.0	4.0	4.0	18.0	5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	19.0
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	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	20.0
5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	5.0	5.0	5.0	4.5	19.5	5.0	5.0	5.0	4.0	17.0	5.0	5.0	4.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	18.0
5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	5.0	5.0	5.0	4.5	19.5	5.0	5.0	4.0	4.0	18.0	5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	19.0
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	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	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	20.0
5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	5.0	5.0	5.0	4.5	19.5	5.0	5.0	4.0	4.0	18.0	5.0	4.0	5.0	4.5	18.5	5.0	4.5	5.0	5.0	19.5	19.0
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	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	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	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	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	20.0
19.4					19.8					19.8					19.3					19.4					19.8					

HOD/ECE

Saranathan College of Engineering

Department of Electronics and Communication Engineering

COURSE CODE / TITLE	EC8711 EMBEDDED LAB	**NBA Code**	C407
SEMESTER / YEAR	VII sem/ IV	**Academic year**	2021 - 2022
COORDINATOR	P.SIVAGAMASUNDHARI, 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	99.16	99.50	80	3
C407.2	100.00	99.16	99.50	80	3
C407.3	100.00	99.16	99.50	80	3
C407.4	100.00	99.16	99.50	80	3
C407.5	100.00	99.16	99.50	80	3
C407.6	100.00	99.16	99.50	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	PO 8	PO 9	PO1 0	PO1 1	PO1 2	PSO 1	PSO 2
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	PO 8	PO 9	PO1 0	PO1 1	PO1 2	PSO 1	PSO 2
C407	2	1	1	1	-	-	-	-	-	-	-	-	2	1
Attainment	2.00	1.00	1.00	1.00	-	-	-	-	-	-	-	-	2.00	1.00

HOD/ECE

Print Report

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 2021 - 2022 / ODD Semester

COURSE CODE/TITLE	COMMUNICATION NETWORKS	Batch	2019 - 2023
CLASS / SECTION	Sem 5 / ECE A & B		
COURSE COORDINATOR	Dr.S.A.Arunmozhi / Mr.M.Mahendran		

COURSE OUTCOME	1	2	3	4	5	6
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 ALLOTED						IAT-2 MARKS ALLOTED						IAT-3 MARKS ALLOTED						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
			72	**28**						**68**	**32**						**28**	**56**	**8**	**8**		**10**					**72**	**106**	**60**	**56**	**8**
1	813819106001	AADIL MUHAMED. M S	36	16						44	24						20	32	6	2							36	60	44	32	6
2	813819106002	AARTHI. M	46	18						44	26						24	40	4	4							46	62	50	40	4
3	813819106003	AASHIKAA R MOHAN	48	24						48	26						22	46	8	4							48	72	48	46	8
4	813819106004	AATHITYAA G R	48	14						54	28						22	42	6	2							48	68	50	42	6
5	813819106005	AFRAH ZAINAB KHAN. A	54	22						52	30						24	38	0	6							54	74	54	38	0
6	813819106006	AGALYA. R	56	22						50	28						26	42	6	4							56	72	54	42	6
7	813819106007	AKILA. G	58	18						42	20						0	0	0	0							58	60	20	0	0
8	813819106008	AKILAA. B	62	20						48	22						24	40	8	2							62	68	46	40	8
9	813819106009	AKSHAYA . K	52	18						54	22						24	48	2	2							52	72	46	48	2
10	813819106010	ANTHON. A S K	40	10						40	20						10	32	6	2							40	50	30	32	6
11	813819106011	ARUL JYOTHI. A	38	16						46	22						18	18	4	2							38	62	40	18	4
12	813819106012	ARUN PRIYA RAAJ. P V	32	4						42	20						0	0	0	0							32	46	20	0	0
13	813819106013	BALASUBRAMANIAN. S	32	18						40	12						12	6	0	2							32	58	24	6	0
14	813819106014	BAUMA RANJITH. S	42	20						36	24						18	0	8	0							42	56	42	0	8
15	813819106015	BHARANI KUMAR. S	0	0						30	20						2	0	0	0							0	30	22	0	0
16	813819106016	BHARATH HARI. S	28	10						44	16						22	34	8	0							28	54	38	34	8
17	813819106017	BRINDHA. K	0	0						0	0						0	0	0	0							0	0	0	0	0
18	813819106018	CHARUDESNA. K	0	0						42	14						16	20	8	6							0	42	30	20	8
19	813819106019	CHARUGOBIKA. R D	46	20						56	24						26	44	8	6							46	76	50	44	8
20	813819106020	CRISPIN URSULA CATHERINE. A	50	20						44	26						18	44	8	0							50	64	44	44	8
21	813819106021	DEEPIKHA. R	64	16						46	22						22	44	8	8							64	62	44	44	8
22	813819106022	DEIVANAI. M	42	20						50	24						26	48	6	8							42	70	50	48	6
23	813819106023	DHARSHINI. K	40	20						50	22						20	34	8	4							40	70	42	34	8
24	813819106024	DHARSHINI. S	46	4						40	0						0	0	0	0							46	44	0	0	0
25	813819106025	DHASLIN JENI MONISHA. J	34	16						38	22						22	28	6	4							34	54	44	28	6
26	813819106026	DHIVYA. S	44	18						42	24						24	42	6	6							44	60	48	42	6
27	813819106027	FERDINA. C	56	8						36	24						20	38	0	2							56	44	44	38	0
28	813819106028	GAYATHRI. S	38	12						32	18						4	36	8	2							38	44	22	36	8
29	813819106029	GOPI MANICKAM. R	42	20						42	22						22	36	8	0							42	62	44	36	8
30	813819106030	HARI GANESH . S	38	12						38	22						20	18	8	4							38	50	42	18	8
31	813819106031	HARINI. M	44	22						50	22						22	48	8	4							44	72	44	48	8
32	813819106032	HARINI. V S	42	18						44	26						24	36	2	6							42	62	50	36	2
33	813819106033	HARI PRASATH. D	34	6						48	20						24	40	8	0							34	54	44	40	8
34	813819106034	HARITHAA. S	46	26						56	30						18	46	8	6							46	82	48	46	8
35	813819106035	HARRISH. M	32	0						32	2						0	18	2	0							32	32	2	18	2
36	813819106036	HARSHEETHA. R C	46	22						56	24						22	26	0	2							46	78	46	26	0
37	813819106037	HARSHINI. G	44	20						52	26						22	26	0	2							44	72	48	26	0
38	813819106038	HEMACHANDHAR. N	22	16						20	26						12	14	4	2							22	36	38	14	4
39	813819106039	HEMAVATHI. R	50	24						56	24						26	52	8	6							50	80	50	52	8
40	813819106040	IMMANUAL. V	26	10						42	18						26	20	8	6							26	52	44	20	8
41	813819106041	JAYALAKSHMI. S	50	22						56	28						20	36	6	4							50	78	48	36	6
42	813819106042	JAYASURYA. P	24	0						42	20						12	24	4	0							24	42	32	24	4
43	813819106043	JEFFREY ALAN. A	0	0						54	20						20	38	6	4							0	54	40	38	6
44	813819106044	JENIFAR SHEEBA. A	42	20						58	24						24	32	4	0							42	78	48	32	4
45	813819106045	JOHAN KINGSLY. M	40	2						36	24						12	24	4	2							40	38	36	24	4
46	813819106046	KAARTHIKEYAN. E	36	0						0	0						4	22	0	0							36	0	4	22	0
47	813819106047	KARTHIK. B	28	12						22	4						14	12	0	2							28	34	18	12	0
48	813819106048	KAVIYA. K	42	24						0	0						22	28	2	0							42	24	22	28	2
49	813819106049	KAVIYA. M P	0	0						0	0						12	22	2	2							0	0	12	22	2
50	813819106050	KAVYA. A	40	20						42	24						20	38	6	2							40	62	44	38	6
51	813819106051	KAVYA. M	34	8						0	0						20	36	2	2							34	8	20	36	2
52	813819106052	KAWSIKA. S	28	16						38	22						20	38	8	2							28	54	42	38	8
53	813819106053	KEDZI JERO KATHRIN . P	42	18						46	24						22	42	0	6							42	64	46	42	0
54	813819106054	KEERTHANA. I	48	22						52	24						18	42	0	4							48	74	42	42	0

55	813819106055	KEERTHANA. R	32	20						46	24						20	32	4	4							32	66	44	32	4
56	813819106056	KEERTHIGA. R	50	20						50	20						22	40	4	2							50	70	42	40	4
57	813819106057	KEVIN CARLOS JOY. J	34	18						32	28						18	20	4	0							34	50	46	20	4
58	813819106058	KIRTHIGA. K	48	22						42	24						20	36	0	4							48	64	44	36	0
59	813819106059	LAKSHANAA. H	38	22						38	6						0	0	0	0							38	60	6	0	0
60	813819106060	MADHU MITHA. M	46	18						0	0						22	40	8	4							46	18	22	40	8
61	813819106061	MADUMITHA. S	60	24						54	28						24	46	2	8		10					60	88	52	46	2
62	813819106062	MALAVIKA. M	39	15						44	18						14	20	6	0		10					39	69	32	20	6
63	813819106063	MANOJKUMAR. M	20	8						24	2						2	22	0	0		8					20	40	4	22	0
64	813819106064	MANOJ KUMAR. M	45	17						44	20						22	44	4	4		10					45	71	42	44	4
65	813819106065	MEENATCHI. P	65	25						60	28						24	44	8	8		10					65	95	52	44	8
66	813819106066	MOHAMED MUSARAF. T	52	20						46	28						16	34	0	2		8					52	74	44	34	0
67	813819106067	MOHAMED RIYAS. A B	36	14						36	14						20	18	0	4		9					36	59	34	18	0
68	813819106068	NANDHINI. M	36	14						0	0						20	28	0	2		9					36	23	20	28	0
69	813819106069	NANDHINI. S J	26	10						44	26						16	22	0	2		8					26	62	42	22	0
70	813819106070	NANTHINI. N	45	17						34	16						20	30	0	0		9					45	60	36	30	0
71	813819106071	NISAGAR. S	45	17						46	24						0	34	0	4		8					45	71	24	34	0
72	813819106072	NITHIN RAJ. S	43	17						48	22						14	24	0	0		8					43	73	36	24	0
73	813819106073	NIVEDHA. R	58	22						58	28						22	46	8	4		8					58	88	50	46	8
74	813819106074	PALANIYAPPAN. R	43	17						54	28						24	46	8	2		10					43	81	52	46	8
75	813819106075	POOJAPRIYADHARSHINI. A	58	22						54	28						0	0	0	0		10					58	86	28	0	0
76	813819106076	PRASANNA VENKATESH. B	43	17						38	24						14	40	8	2		9					43	64	38	40	8
77	813819106077	PRAVEENA. M	46	18						50	22						24	48	6	6		9					46	77	46	48	6
78	813819106078	PUJA SRI. K	36	14						54	22						20	44	8	8		10					36	78	42	44	8
79	813819106079	RAGAVI. S	50	20						58	28						20	44	8	8		10					50	88	48	44	8
80	813819106080	RAJKUMAR. M	53	21						46	24						16	30	4	6		8					53	75	40	30	4
81	813819106081	RAKSHANA. S	53	21						40	22						22	36	6	6		10					53	71	44	36	6
82	813819106082	RAMKUMAR. N	45	17						44	16						8	20	0	2		8					45	69	24	20	0
83	813819106083	RENGALAXMI. S	46	18						0	0						24	28	8	6		9					46	27	24	28	8
84	813819106084	RENGANATHAN. A	27	11						52	32						20	28	8	8		9					27	72	52	28	8
85	813819106085	RITHESWETHA. R	52	20						52	30						18	30	2	4		10					52	82	48	30	2
86	813819106086	ROSHANA. V S	36	14						50	26						26	48	8	6		10					36	74	52	48	8
87	813819106087	SAIRA BANU. B	56	22						26	26						22	24	8	2		8					56	56	48	24	8
88	813819106088	SAKTHI NEELAMBARI. R	55	21						48	26						22	38	8	6		10					55	79	48	38	8
89	813819106089	SANTHOSH KUMAR. M	62	24						36	14						22	34	4	4		10					62	70	36	34	4
90	813819106090	SANTHIYA. R	50	20						32	20						20	34	2	2		9					50	61	40	34	2
91	813819106091	SARULATHA. S	39	15						38	22						24	34	0	2		9					39	62	46	34	0
92	813819106092	SHERIN BEGUM. M	36	14						52	26						22	46	4	4		10					36	76	48	46	4
93	813819106093	SHYAM SUNDAR. B	56	22						18	12						0	0	0	0		7					56	47	12	0	0
94	813819106094	SHRUTHI. P S	43	17						58	24						20	46	2	8		10					43	85	44	46	2
95	813819106095	SIDDIQ. A	56	22						48	26						20	26	8	6		8					56	78	46	26	8
96	813819106096	SIVABALA. K	52	20						52	20						10	32	2	2		9					52	81	30	32	2
97	813819106097	SIVASRI. S M	0	0						0	0						12	36	2	0		9					0	9	12	36	2
98	813819106098	SIVETHA. S	46	18						50	20						16	36	6	4		8					46	76	36	36	6
99	813819106099	SNEHA. K	55	21						52	24						22	40	4	6		10					55	83	46	40	4
100	813819106100	SNEKA. M S	58	22						50	22						6	26	4	4		10					58	82	28	26	4
101	813819106101	SOPHIYA. V	43	17						48	24						24	48	8	2		10					43	75	48	48	8
102	813819106102	SRAVANI SOWMYA SHRI. J	55	21						44	22						22	26	8	4		10					55	75	44	26	8
103	813819106103	SRINIVASAN. S	52	20						22	18						14	32	8	2		9					52	51	32	32	8
104	813819106104	SRINIVASAN. T	36	14						44	20						16	40	8	2		8					36	66	36	40	8
105	813819106105	SRI PRASANNA. J	43	17						42	26						18	28	4	2		8					43	67	44	28	4
106	813819106106	SRISUDHARSSAN. R	43	17						40	22						14	28	8	4		8					43	65	36	28	8
107	813819106107	SUBAPREETHI. B	49	19						52	22						20	46	2	4		10					49	81	42	46	2
108	813819106108	SUBIKSHAA. M	52	20						60	22						18	30	0	4		10					52	90	40	30	0
109	813819106109	SUDHAKAR. S	63	25						58	4						12	26	0	4		9					63	92	16	26	0
110	813819106110	SUDHARSHAN. S	52	20						42	18						16	32	0	4		8					52	70	34	32	0
111	813819106111	SUDHARSHNAN. G S	49	19						48	22						20	42	2	6		8					49	75	42	42	2
112	813819106112	SURIYASRI. S	58	22						54	22						0	0	0	0		9					58	85	22	0	0
113	813819106113	THRISHA. K	43	17						52	26						16	38	4	2		10					43	79	42	38	4
114	813819106114	UBENDRAN. V	63	25						56	28						26	54	4	8		10					63	91	54	54	4
115	813819106115	VAISHNAVI. K	52	20						52	24						14	40	4	6		10					52	82	38	40	4
116	813819106116	VASUNTHARA. K	49	19						52	24						20	44	2	2		9					49	80	44	44	2
117	813819106117	VINODHINI. V	58	22						52	30						24	48	8	4		10					58	84	54	48	8
118	813819106118	VISAKAN. M	43	17						0	0						12	16	0	0		8					43	25	12	16	0
119	813819106119	VISWANATH. M	46	18						0	0						10	40	8	2		8					46	26	10	40	8
120	813819106120	YOGESH. S	50	20						46	24						20	32	2	6		10					50	76	44	32	2
																											CO's Target Value	46.80	68.90	39.00	36.40	5.20
																											No. of Student Secured above CO's Target value	46	58	73	48	52
																											Percentage of Student Secured above Target	38.33	48.33	60.83	40.00	43.33

SARANATHAN COLLEGE OF ENGINEERING, Tiruchirappalli - 620012

Department of B.E. Electronics and Communication Engineering

COURSE OUTCOME ATTAINMENT - UNIVERSITY EXAMINATION

COURSE CODE/TITLE	EC8551 COMMUNICATION NETWORKS	Batch	2019 - 2023
CO Attainment Level: 1 - (0% - 60%) 2- (61%-90%) 3-(91% and Above)			

S.NO	REG. NO.	NAME OF THE STUDENT	GRADE
1	813819106001	AADIL MUHAMED. M S	A+
2	813819106002	AARTHI. M	O
3	813819106003	AASHIKAA R MOHAN	O
4	813819106004	AATHITYAA G R	O
5	813819106005	AFRAH ZAINAB KHAN. A	O
6	813819106006	AGALYA. R	O
7	813819106007	AKILA. G	O
8	813819106008	AKILAA. B	O
9	813819106009	AKSHAYA . K	O
10	813819106010	ANTHON. A S K	A+
11	813819106011	ARUL JYOTHI. A	A+
12	813819106012	ARUN PRIYA RAAJ. P V	A
13	813819106013	BALASUBRAMANIAN. S	A+
14	813819106014	BAUMA RANJITH. S	A+
15	813819106015	BHARANI KUMAR. S	A+
16	813819106016	BHARATH HARI. S	A
17	813819106017	BRINDHA. K	
18	813819106018	CHARUDESNA. K	A+
19	813819106019	CHARUGOBIKA. R D	A+
20	813819106020	CRISPIN URSULA CATHERINE. A	O
21	813819106021	DEEPIKHA. R	O
22	813819106022	DEIVANAI. M	O
23	813819106023	DHARSHINI. K	O
24	813819106024	DHARSHINI. S	A+
25	813819106025	DHASLIN JENI MONISHA. J	A+
26	813819106026	DHIVYA. S	O
27	813819106027	FERDINA. C	A+
28	813819106028	GAYATHRI. S	A+
29	813819106029	GOPI MANICKAM. R	O
30	813819106030	HARI GANESH . S	A
31	813819106031	HARINI. M	O
32	813819106032	HARINI. V S	O
33	813819106033	HARI PRASATH. D	A
34	813819106034	HARITHAA. S	O
35	813819106035	HARRISH. M	A
36	813819106036	HARSHEETHA. R C	O
37	813819106037	HARSHINI. G	O
38	813819106038	HEMACHANDHAR. N	A
39	813819106039	HEMAVATHI. R	O
40	813819106040	IMMANUAL. V	A+
41	813819106041	JAYALAKSHMI. S	O
42	813819106042	JAYASURYA. P	A+
43	813819106043	JEFFREY ALAN. A	O
44	813819106044	JENIFAR SHEEBA. A	A+
45	813819106045	JOHAN KINGSLY. M	A+
46	813819106046	KAARTHIKEYAN. E	A+
47	813819106047	KARTHIK. B	A+
48	813819106048	KAVIYA. K	A
49	813819106049	KAVIYA. M P	A+
50	813819106050	KAVYA. A	A+
51	813819106051	KAVYA. M	A+
52	813819106052	KAWSIKA. S	A+
53	813819106053	KEDZI JERO KATHRIN . P	A+
54	813819106054	KEERTHANA. I	O
55	813819106055	KEERTHANA. R	A+
56	813819106056	KEERTHIGA. R	O
57	813819106057	KEVIN CARLOS JOY. J	O
58	813819106058	KIRTHIGA. K	A+
59	813819106059	LAKSHANAA. H	A+
60	813819106060	MADHU MITHA. M	A+
61	813819106061	MADUMITHA. S	O
62	813819106062	MALAVIKA. M	A+
63	813819106063	MANOJKUMAR. M	A+
64	813819106064	MANOJ KUMAR. M	A+

65	813819106065	MEENATCHI. P	A+
66	813819106066	MOHAMED MUSARAF. T	A+
67	813819106067	MOHAMED RIYAS. A B	A+
68	813819106068	NANDHINI. M	A+
69	813819106069	NANDHINI. S J	A+
70	813819106070	NANTHINI. N	A+
71	813819106071	NISAGAR. S	O
72	813819106072	NITHIN RAJ. S	A+
73	813819106073	NIVEDHA. R	O
74	813819106074	PALANIYAPPAN. R	A+
75	813819106075	POOJAPRIYADHARSHINI. A	O
76	813819106076	PRASANNA VENKATESH. B	A+
77	813819106077	PRAVEENA. M	A+
78	813819106078	PUJA SRI. K	O
79	813819106079	RAGAVI. S	O
80	813819106080	RAJKUMAR. M	A+
81	813819106081	RAKSHANA. S	A+
82	813819106082	RAMKUMAR. N	A+
83	813819106083	RENGALAXMI. S	A+
84	813819106084	RENGANATHAN. A	A+
85	813819106085	RITHESWETHA. R	O
86	813819106086	ROSHANA. V S	O
87	813819106087	SAIRA BANU. B	A+
88	813819106088	SAKTHI NEELAMBARI. R	O
89	813819106089	SANTHOSH KUMAR. M	A+
90	813819106090	SANTHIYA. R	O
91	813819106091	SARULATHA. S	A
92	813819106092	SHERIN BEGUM. M	O
93	813819106093	SHYAM SUNDAR. B	A+
94	813819106094	SHRUTHI. P S	A+
95	813819106095	SIDDIQ. A	A+
96	813819106096	SIVABALA. K	A
97	813819106097	SIVASRI. S M	A+
98	813819106098	SIVETHA. S	O
99	813819106099	SNEHA. K	O
100	813819106100	SNEKA. M S	O
101	813819106101	SOPHIYA. V	O
102	813819106102	SRAVANI SOWMYA SHRI. J	O
103	813819106103	SRINIVASAN. S	A+
104	813819106104	SRINIVASAN. T	A+
105	813819106105	SRI PRASANNA. J	A+
106	813819106106	SRISUDHARSSAN. R	A
107	813819106107	SUBAPREETHI. B	A
108	813819106108	SUBIKSHAA. M	A+
109	813819106109	SUDHAKAR. S	A
110	813819106110	SUDHARSHAN. S	A+
111	813819106111	SUDHARSHNAN. G S	A
112	813819106112	SURIYASRI. S	A+
113	813819106113	THRISHA. K	
114	813819106114	UBENDRAN. V	A+
115	813819106115	VAISHNAVI. K	A+
116	813819106116	VASUNTHARA. K	A+
117	813819106117	VINODHINI. V	A+
118	813819106118	VISAKAN. M	A+
119	813819106119	VISWANATH. M	A+
120	813819106120	YOGESH. S	A+
No. of S/O Grade			41
No. of A/A+ Grade			64
No. of B/A Grade			13
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			118
CO-Attainment University			98.00

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
C305.1	38.33	98.00	74.13	83.06	75.92	2
C305.2	48.33	98.00	78.13	82.22	78.95	2
C305.3	60.83	98.00	83.13	83.33	83.17	2
C305.4	40.00	98.00	74.80	83.06	76.45	2
C305.5	43.33	98.00	76.13	82.22	77.35	2
C305.6	24.17	98.00	68.47	84.72	71.72	2

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PS02	PS03
C305.1	2	2	1	1	1					1		1	1	2	
C305.2	2	2	1	1	1					1		1	1	2	
C305.3	2	2	1	1	1					1		1	1	2	
C305.4	2	2	1	1	1					1		1	1	2	
C305.5	2	2	1	1	1					1		1	1	2	
C305.6	2	2	1	1	1					1		1	1	2	
C305	2.00	2.00	1.00	1.00	1.00					1.00		1.00	1.00	2.00	

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PS02	PS03
C305.1	1.33	1.33	0.67	0.67	0.67					0.67		0.67	0.67	1.33	
C305.2	1.33	1.33	0.67	0.67	0.67					0.67		0.67	0.67	1.33	
C305.3	1.33	1.33	0.67	0.67	0.67					0.67		0.67	0.67	1.33	
C305.4	1.33	1.33	0.67	0.67	0.67					0.67		0.67	0.67	1.33	
C305.5	1.33	1.33	0.67	0.67	0.67					0.67		0.67	0.67	1.33	
C305.6	1.33	1.33	0.67	0.67	0.67					0.67		0.67	0.67	1.33	
C305	1.33	1.33	0.67	0.67	0.67					0.67		0.67	0.67	1.33	

Print Report

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 2021 - 2022 / ODD Semester

COURSE CODE/TITLE	AD HOC AND WIRELESS SENSOR NETWORKS	Batch	2018 - 2022
CLASS / SECTION	Sem 7 / ECE A & B		
COURSE COORDINATOR	Dr.S.Rajeswari / Dr.S.A.Arunmozhi		

COURSE OUTCOME	1	2	3	4	5	6
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 ALLOTED						IAT-2 MARKS ALLOTED						IAT-3 MARKS ALLOTED						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
			64	**36**						**36**	**64**							**8**	**52**	**40**	**64**	**72**	**64**	**8**	**52**	**40**
1	813818106001	AAISHA THAHSEENA. M	58	36						34	54							6	26	28	58	70	54	6	26	28
2	813818106002	ABDULLA. N	0	0						34	56							8	28	34	0	34	56	8	28	34
3	813818106003	ABDUL RAHMAN. M	50	30						32	58							8	44	36	50	62	58	8	44	36
4	813818106004	ABINAYA. S	54	34						32	52							8	18	34	54	66	52	8	18	34
5	813818106005	ABISHEK. M	56	34						32	50							6	40	34	56	66	50	6	40	34
6	813818106006	AHILAN. C	52	32						32	54							8	22	24	52	64	54	8	22	24
7	813818106007	AJAIPRAMOTH. A	46	32						32	56							6	40	32	46	64	56	6	40	32
8	813818106008	AJAY. S	56	34						34	60							8	42	36	56	68	60	8	42	36
9	813818106009	AKSHAYA GODINA. D	60	32						34	58							8	42	32	60	66	58	8	42	32
10	813818106010	ANTONY JOHN JASON. S	40	20						30	48							4	4	4	40	50	48	4	4	4
11	813818106012	ATCHAYA. M	54	32						30	48							4	26	24	54	62	48	4	26	24
12	813818106013	ATCHAYA. R	54	34						30	56							8	44	36	54	64	56	8	44	36
13	813818106014	ATHISANKAR. A	56	34						28	54							8	28	34	56	62	54	8	28	34
14	813818106015	ATSHAYA. R	60	32						34	60							8	46	38	60	66	60	8	46	38
15	813818106017	BANU PRIYA. B	58	34						30	58							8	38	32	58	64	58	8	38	32
16	813818106018	BAVITHRAN. G R	50	30						32	58							6	4	12	50	62	58	6	4	12
17	813818106019	CAROLINE RUBY. S	54	32						30	52							8	42	38	54	62	52	8	42	38
18	813818106020	CAVWIN DHEEPAK. R	50	28						32	54							8	44	18	50	60	54	8	44	18
19	813818106021	CHARUDHARSHANA. M	50	32						32	54							6	38	26	50	64	54	6	38	26
20	813818106022	DEVA DARSHINI. S	52	34						30	56							6	32	34	52	64	56	6	32	34
21	813818106023	DHAARANI. B	54	30						30	52							8	36	30	54	60	52	8	36	30
22	813818106024	DHANAVIDHYA. G	52	32						32	56							8	30	34	52	64	56	8	30	34
23	813818106025	DHANIYA LAKSHMI. J	54	30						34	58							8	30	30	54	64	58	8	30	30
24	813818106026	DILEEPAN. M	50	28						34	58							6	8	16	50	62	58	6	8	16
25	813818106027	DINESH RAM. R	52	30						34	52							4	22	30	52	64	52	4	22	30
26	813818106028	DIRAVIDAMANI. M	46	30						34	58							4	24	4	46	64	58	4	24	4
27	813818106029	DIVYA BHARATHI. S	52	32						32	56							8	26	34	52	64	56	8	26	34
28	813818106030	DURGASRI. R	54	28						30	52							8	32	34	54	58	52	8	32	34
29	813818106031	GOKULAKRISHNAN. M J	50	28						28	50							2	2	2	50	56	50	2	2	2
30	813818106033	IRFAN AHMED. I	52	26						30	50							8	26	28	52	56	50	8	26	28
31	813818106034	JAIBALAJI. C	50	26						32	52							8	16	32	50	58	52	8	16	32
32	813818106035	JANNIFER. D	52	32						30	50							8	46	36	52	62	50	8	46	36
33	813818106036	JAYAPRIYA. M	52	32						30	52							6	28	16	52	62	52	6	28	16
34	813818106037	JAYASHREE. RI	54	30						28	56							6	28	18	54	58	56	6	28	18
35	813818106038	JAYSHRINIVAAS. B	56	32						30	54							6	42	28	56	62	54	6	42	28
36	813818106039	JERSON FENADICT ANDRO. A M	54	32						30	54							6	12	14	54	62	54	6	12	14
37	813818106040	KADHIR MANI. S	56	30						32	56							6	22	22	56	62	56	6	22	22
38	813818106041	KAMALAKANNAN. K	34	26						34	56							6	32	32	34	60	56	6	32	32
39	813818106042	KARISHMA. G	52	32						32	56							6	26	34	52	64	56	6	26	34
40	813818106043	KARTHIGA DEVI. G	50	32						34	58							8	46	34	50	66	58	8	46	34
41	813818106044	KARTHIKEYAN. M M	52	30						30	52							6	26	28	52	60	52	6	26	28
42	813818106045	KAVIMANI. A	54	32						34	58							6	26	30	54	66	58	6	26	30
43	813818106046	KAVIYA. S	58	32						34	54							6	46	24	58	66	54	6	46	24
44	813818106047	KAVYA. K S	54	32						32	56							8	30	32	54	64	56	8	30	32
45	813818106048	KEERTHANA. G.R	52	30						30	54							6	40	34	52	60	54	6	40	34
46	813818106049	KINGSLEY PATRICK JOY. J	56	32						30	52							8	42	26	56	62	52	8	42	26
47	813818106050	KISHORE. G	50	30						34	58							8	40	28	50	64	58	8	40	28
48	813818106051	KRISHNA KUMAR. K	46	30						32	58							4	8	4	46	62	58	4	8	4
49	813818106052	KUMARAGURUPHARAN. S	44	28						30	50							8	36	8	44	58	50	8	36	8
50	813818106053	KUMARESAN. A	48	30						32	56							8	42	28	48	62	56	8	42	28

51	813818106054	MADHESH. S	50	28						32	56							6	38	18	50	60	56	6	38	18
52	813818106055	MADHUMITHA. J	52	30						32	50							8	38	20	52	62	50	8	38	20
53	813818106056	MANIKANDAN. R	54	30						30	52							8	16	4	54	60	52	8	16	4
54	813818106057	MANODURGA. V	60	32						34	58							8	48	36	60	66	58	8	48	36
55	813818106058	MANOJKUMAR. S	48	28						32	56							2	8	12	48	60	56	2	8	12
56	813818106059	MANOJ KUMAR A.	54	30						30	56							2	10	12	54	60	56	2	10	12
57	813818106060	MOHAMED SHAFIQUR RAHMAN. J	58	30						32	60							6	46	14	58	62	60	6	46	14
58	813818106061	MOHAMED UWAIS. K	58	28						32	58							6	46	14	58	60	58	6	46	14
59	813818106062	NAGAMMAI. N	56	32						32	58							6	42	26	56	64	58	6	42	26
60	813818106063	NIGILESH. D	56	28						32	58							6	44	12	56	60	58	6	44	12
61	813818106064	NIKHIL RAJ. M	46	28						30	56							6	6	12	46	58	56	6	6	12
62	813818106065	NIRUBAN. J	58	32						32	56							2	8	4	58	64	56	2	8	4
63	813818106066	NITHISHA. U	60	30						32	48							8	26	32	60	62	48	8	26	32
64	813818106067	PAUL SNEKA. L	48	28						32	58							8	46	16	48	60	58	8	46	16
65	813818106068	PAVITRA. B	58	30						32	60							6	44	30	58	62	60	6	44	30
66	813818106069	POOJA. B	60	30						32	48							6	46	32	60	62	48	6	46	32
67	813818106070	POOJA. D	60	32						32	58							8	44	34	60	64	58	8	44	34
68	813818106071	POORNIMA. S	58	28						30	60							0	0	0	58	58	60	0	0	0
69	813818106072	PRAVEEN. D	58	32						34	60							4	48	10	58	66	60	4	48	10
70	813818106073	PREETHI. B	58	28						32	60							8	44	32	58	60	60	8	44	32
71	813818106074	PRIYA. S	58	28						32	62							8	46	30	58	60	62	8	46	30
72	813818106075	RAHUL. R	58	28						34	60							4	36	26	58	62	60	4	36	26
73	813818106076	RAJA LAKSHMI. P	48	28						32	60							8	44	12	48	60	60	8	44	12
74	813818106077	RATHNA. M	58	28						34	60							8	44	30	58	62	60	8	44	30
75	813818106078	RENULEKA. P	58	28						30	60							6	42	30	58	58	60	6	42	30
76	813818106079	RESHMA. E	58	30						32	48							8	26	26	58	62	48	8	26	26
77	813818106081	RITHIKAA. M	60	30						32	60							8	46	32	60	62	60	8	46	32
78	813818106082	RUBIGA. M	60	30						32	48							8	40	12	60	62	48	8	40	12
79	813818106083	SAAI RAMYA. B T	58	28						32	58							8	38	16	58	60	58	8	38	16
80	813818106084	SAKTHIVEL. S	48	28						22	58							8	40	6	48	50	58	8	40	6
81	813818106085	SANJAI. M	58	30						32	58							8	42	16	58	62	58	8	42	16
82	813818106086	SANTHOSH. N	40	32						32	48							4	12	22	40	64	48	4	12	22
83	813818106087	SANTHOSH. S	58	32						32	58							8	14	12	58	64	58	8	14	12
84	813818106088	SANTHOSH KUMAR. S	48	28						32	48							8	40	12	48	60	48	8	40	12
85	813818106089	SATHYA. B	58	30						32	58							8	38	14	58	62	58	8	38	14
86	813818106090	SHABBNA. K	56	30						32	58							8	24	28	56	62	58	8	24	28
87	813818106091	SHANGAVI. G	58	30						32	58							8	44	14	58	62	58	8	44	14
88	813818106092	SHANKAR. V	46	30						32	48							8	14	20	46	62	48	8	14	20
89	813818106093	SHARMILA R	58	30						32	60							2	22	22	58	62	60	2	22	22
90	813818106094	SHARMINI. S	58	32						32	58							8	42	28	58	64	58	8	42	28
91	813818106095	SHASINI. M	58	32						32	50							6	32	22	58	64	50	6	32	22
92	813818106096	SHREE. G K	58	30						32	60							8	42	14	58	62	60	8	42	14
93	813818106097	SINDHUJA. R	60	30						32	58							8	44	28	60	62	58	8	44	28
94	813818106098	SIVA GANESH. T	54	34						30	60							0	0	0	54	64	60	0	0	0
95	813818106099	SIVARAM. R	58	30						32	58							6	42	14	58	62	58	6	42	14
96	813818106100	SOFANA. M	56	34						32	56							6	48	28	56	66	56	6	48	28
97	813818106101	SREENITHI. C	56	30						32	60							6	42	28	56	62	60	6	42	28
98	813818106102	SRINITHI. S	58	32						32	60							8	38	14	58	64	60	8	38	14
99	813818106103	SRINIVASA GUPTA. M	56	30						22	58							4	20	6	56	52	58	4	20	6
100	813818106104	SUBASH. A	58	28						32	60							4	4	4	58	60	60	4	4	4
101	813818106105	SUBASRI. K	56	30						0	0							6	40	10	56	30	0	6	40	10
102	813818106106	SUJITH. K	46	28						32	38							6	10	10	46	60	38	6	10	10
103	813818106107	SURESH. R	58	28						32	60							6	22	18	58	60	60	6	22	18
104	813818106108	SWASTHIKA. R	58	28						32	60							8	36	22	58	60	60	8	36	22
105	813818106109	SWATHI. I R	58	30						32	58							8	44	12	58	62	58	8	44	12
106	813818106110	TEJASWINI. S	58	30						32	58							8	26	28	58	62	58	8	26	28
107	813818106111	THENMOZHI. A	58	30						32	48							6	26	14	58	62	48	6	26	14
108	813818106112	UMA. R	56	30						32	48							6	38	20	56	62	48	6	38	20
109	813818106113	VARADAKRISHNAN. B	46	30						32	58							0	0	0	46	62	58	0	0	0
110	813818106114	VARSHAA. M	58	30						32	58							6	24	12	58	62	58	6	24	12
111	813818106115	VASANTHAKUMAR. R	56	30						32	58							0	0	0	56	62	58	0	0	0
112	813818106116	VIBUSHITHA . M S	58	28						32	58							8	40	12	58	60	58	8	40	12
113	813818106117	AASATH KHAN. N	50	26						30	48							4	4	4	50	56	48	4	4	4
114	813818106301	ANANTHA KUMAR. M R	54	32						32	58							8	44	30	54	64	58	8	44	30
115	813818106302	GOKILA. V	54	32						30	52							6	28	36	54	62	52	6	28	36
116	813818106303	LOGA DASS. J	50	28						24	56							0	34	8	50	52	56	0	34	8

117	813818106501	SHANMUGASUNDARAM. R	46	26						32	42							0	0	0	46	58	42	0	0	0
118	813818106701	CATHERIN. J	52	34						34	60							6	42	34	52	68	60	6	42	34
119	813818106702	CHARUMATHI N. B	54	32						32	52							8	46	34	54	64	52	8	46	34
CO's Target Value																					41.60	46.80	41.60	5.20	33.80	26.00
No. of Student Secured above CO's Target value																					115	117	117	97	63	53
Percentage of Student Secured above Target																					96.64	98.32	98.32	81.51	52.94	44.54

SARANATHAN COLLEGE OF ENGINEERING, Tiruchirappalli - 620012

Department of B.E. Electronics and Communication Engineering

COURSE OUTCOME ATTAINMENT - UNIVERSITY EXAMINATION

COURSE CODE/TITLE	EC8702 AD HOC AND WIRELESS SENSOR NETWORKS	Batch 2018 - 2022
CO Attainment Level: 1 - (0% - 60%) 2- (61%-90%) 3-(91% and Above)		

S.NO	REG. NO.	NAME OF THE STUDENT	GRADE
1	813818106001	AAISHA THAHSEENA. M	A+
2	813818106002	ABDULLA. N	A+
3	813818106003	ABDUL RAHMAN. M	A+
4	813818106004	ABINAYA. S	O
5	813818106005	ABISHEK. M	A+
6	813818106006	AHILAN. C	A+
7	813818106007	AJAIPRAMOTH. A	A+
8	813818106008	AJAY. S	O
9	813818106009	AKSHAYA GODINA. D	A+
10	813818106010	ANTONY JOHN JASON. S	A+
11	813818106012	ATCHAYA. M	O
12	813818106013	ATCHAYA. R	A+
13	813818106014	ATHISANKAR. A	A+
14	813818106015	ATSHAYA. R	A+
15	813818106017	BANU PRIYA. B	O
16	813818106018	BAVITHRAN. G R	A+
17	813818106019	CAROLINE RUBY. S	A+
18	813818106020	CAVWIN DHEEPAK. R	B+
19	813818106021	CHARUDHARSHANA. M	A+
20	813818106022	DEVA DARSHINI. S	A+
21	813818106023	DHAARANI. B	O
22	813818106024	DHANAVIDHYA. G	A+
23	813818106025	DHANIYA LAKSHMI. J	O
24	813818106026	DILEEPAN. M	A+
25	813818106027	DINESH RAM. R	A
26	813818106028	DIRAVIDAMANI. M	A+
27	813818106029	DIVYA BHARATHI. S	A+
28	813818106030	DURGASRI. R	A+
29	813818106031	GOKULAKRISHNAN. M J	A
30	813818106033	IRFAN AHMED. I	A+
31	813818106034	JAIBALAJI. C	A+
32	813818106035	JANNIFER. D	A+
33	813818106036	JAYAPRIYA. M	O
34	813818106037	JAYASHREE. RI	A+
35	813818106038	JAYSHRINIVAAS. B	A+
36	813818106039	JERSON FENADICT ANDRO. A M	A+
37	813818106040	KADHIR MANI. S	O
38	813818106041	KAMALAKANNAN. K	A
39	813818106042	KARISHMA. G	A
40	813818106043	KARTHIGA DEVI. G	O
41	813818106044	KARTHIKEYAN. M M	A+
42	813818106045	KAVIMANI. A	O
43	813818106046	KAVIYA. S	O
44	813818106047	KAVYA. K S	O
45	813818106048	KEERTHANA. G.R	O
46	813818106049	KINGSLEY PATRICK JOY. J	O
47	813818106050	KISHORE. G	B+
48	813818106051	KRISHNA KUMAR. K	A
49	813818106052	KUMARAGURUPHARAN. S	A+
50	813818106053	KUMARESAN. A	A
51	813818106054	MADHESH. S	A+
52	813818106055	MADHUMITHA. J	O
53	813818106056	MANIKANDAN. R	A+
54	813818106057	MANODURGA. V	O
55	813818106058	MANOJKUMAR. S	A+
56	813818106059	MANOJ KUMAR A.	A+
57	813818106060	MOHAMED SHAFIQUR RAHMAN. J	A+
58	813818106061	MOHAMED UWAIS. K	A
59	813818106062	NAGAMMAI. N	O

60	813818106063	NIGILESH. D	A+
61	813818106064	NIKHIL RAJ. M	O
62	813818106065	NIRUBAN. J	A+
63	813818106066	NITHISHA. U	O
64	813818106067	PAUL SNEKA. L	O
65	813818106068	PAVITRA. B	O
66	813818106069	POOJA. B	A+
67	813818106070	POOJA. D	O
68	813818106071	POORNIMA. S	A+
69	813818106072	PRAVEEN. D	A+
70	813818106073	PREETHI. B	A+
71	813818106074	PRIYA. S	O
72	813818106075	RAHUL. R	A+
73	813818106076	RAJA LAKSHMI. P	A+
74	813818106077	RATHNA. M	O
75	813818106078	RENULEKA. P	O
76	813818106079	RESHMA. E	A+
77	813818106081	RITHIKAA. M	O
78	813818106082	RUBIGA. M	A+
79	813818106083	SAAI RAMYA. B T	A+
80	813818106084	SAKTHIVEL. S	A+
81	813818106085	SANJAI. M	A+
82	813818106086	SANTHOSH. N	A
83	813818106087	SANTHOSH. S	A+
84	813818106088	SANTHOSH KUMAR. S	O
85	813818106089	SATHYA. B	A+
86	813818106090	SHABBNA. K	A+
87	813818106091	SHANGAVI. G	O
88	813818106092	SHANKAR. V	A+
89	813818106093	SHARMILA R	O
90	813818106094	SHARMINI. S	A+
91	813818106095	SHASINI. M	A+
92	813818106096	SHREE. G K	A+
93	813818106097	SINDHUJA. R	O
94	813818106098	SIVA GANESH. T	A+
95	813818106099	SIVARAM. R	O
96	813818106100	SOFANA. M	A+
97	813818106101	SREENITHI. C	A+
98	813818106102	SRINITHI. S	A+
99	813818106103	SRINIVASA GUPTA. M	B+
100	813818106104	SUBASH. A	O
101	813818106105	SUBASRI. K	B
102	813818106106	SUJITH. K	A
103	813818106107	SURESH. R	A+
104	813818106108	SWASTHIKA. R	A+
105	813818106109	SWATHI. I R	A+
106	813818106110	TEJASWINI. S	A+
107	813818106111	THENMOZHI. A	A+
108	813818106112	UMA. R	A+
109	813818106113	VARADAKRISHNAN. B	A+
110	813818106114	VARSHAA. M	A+
111	813818106115	VASANTHAKUMAR. R	A+
112	813818106116	VIBUSHITHA . M S	A+
113	813818106117	AASATH KHAN. N	A+
114	813818106301	ANANTHA KUMAR. M R	A+
115	813818106302	GOKILA. V	A+
116	813818106303	LOGA DASS. J	A
117	813818106501	SHANMUGASUNDARAM. R	B+
118	813818106701	CATHERIN. J	A+
119	813818106702	CHARUMATHI N. B	A+
No. of S/O Grade			32
No. of A/A+ Grade			72
No. of B/A Grade			10
No. of C/B+ Grade			4
No. of D/B Grade			1
No. of E/B Grade			0
Target for course outcome Attainment			65

No of students above the target	118
CO-Attainment University	99.00

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
C404.1	96.64	99.00	98.06	81.51	94.75	3
C404.2	98.32	99.00	98.73	83.75	95.73	3
C404.3	98.32	99.00	98.73	85.15	96.01	3
C404.4	81.51	99.00	92.01	82.07	90.02	2
C404.5	52.94	99.00	80.58	85.15	81.49	2
C404.6	44.54	99.00	77.22	82.63	78.30	2

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PS02	PS03
C404.1	2	2	1	1	1	1	1	1		1	1	1	1	2	
C404.2	2	2	1	1	1	1	1	1		1	1	1	1	2	
C404.3	2	2	1	1	1	1	1	1		1	1	1	1	2	
C404.4	2	2	1	1	1	1	1	1		1	1	1	1	2	
C404.5	2	2	1	1	1	1	1	1		1	1	1	1	2	
C404.6	2	2	1	1	1	1	1	1		1	1	1	1	2	
C404	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	

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PS02	PS03
C404.1	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	
C404.2	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	
C404.3	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	
C404.4	1.33	1.33	0.67	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	0.67	1.33	
C404.6	1.33	1.33	0.67	0.67	0.67	0.67	0.67	0.67		0.67	0.67	0.67	0.67	1.33	
C404	1.67	1.67	0.83	0.83	0.83	0.83	0.83	0.83		0.83	0.83	0.83	0.83	1.67	

Print Report

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 2021 - 2022 / ODD Semester

COURSE CODE/TITLE	ELECTRONIC CIRCUITS- I	Batch	2020 - 2024
CLASS / SECTION	Sem 3 / ECE A & B		
COURSE COORDINATOR	Mr.S.Hariprasath / Dr.M.Baritha Begum		

COURSE OUTCOME	1	2	3	4	5	6
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 ALLOTED						IAT-2 MARKS ALLOTED						IAT-3 MARKS ALLOTED						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	C
			72	**28**						**40**	**60**							**60**	**40**		**10**					**10**	**82**	**68**	**60**	**60**	**40**	**1**
1	813820106001	ABINAYA. K	40	14						32	38							42	30		8						48	46	38	42	30	
2	813820106002	AKAASH. T U	26	4						24	16							30	30		8						34	28	16	30	30	
3	813820106003	AKSHARA. P	60	4						38	46							36	32		8						68	42	46	36	32	
4	813820106004	ALAGAMMAI. E	52	4						36	48							52	38		8						60	40	48	52	38	
5	813820106005	ANBARASU. J	46	4						18	2							40	20		8						54	22	2	40	20	
6	813820106006	ARAVIND. S	54	6						38	14							16	34		8						62	44	14	16	34	
7	813820106007	ARAVINDH. D	2	0						6	4							4	26		8						10	6	4	4	26	
8	813820106009	ARUN KUMAR. R	6	0						0	0							10	4		7						13	0	0	10	4	
9	813820106010	BAVAN. G N	14	0						8	8							6	20		7						21	8	8	6	20	
10	813820106011	CAROLINE BLESSY YOVAN	60	6						36	26							48	26		8						68	42	26	48	26	
11	813820106012	CHARIS BENITA. R E	42	10						26	40							46	24		7						49	36	40	46	24	
12	813820106013	DAMINI. N	52	20						32	50							54	36		8						60	52	50	54	36	
13	813820106014	DEEBIKSHA. D	62	14						0	0							56	34		8						70	14	0	56	34	
14	813820106015	DHARANIKA. S	30	14						32	32							56	34		8						38	46	32	56	34	
15	813820106016	DHINESH VEERAMANI. S M	4	0						0	0							0	0		8						12	0	0	0	0	
16	813820106017	DINESH KUMAR. D	4	0						0	0							6	0		7						11	0	0	6	0	
17	813820106018	GOWTHAM. P	44	6						28	36							44	20		7						51	34	36	44	20	
18	813820106019	GUGAN. S S	18	0						0	0							4	6		8						26	0	0	4	6	
19	813820106020	HARANI. M	62	4						38	52							48	30		8						70	42	52	48	30	
20	813820106021	HARIEESHPALANI. P.K	0	0						0	0							2	0		8						8	0	0	2	0	
21	813820106022	HARIHARAN. K	52	8						32	46							42	34		8						60	40	46	42	34	
22	813820106023	HARINI. K B	26	6						38	24							0	0		8						34	44	24	0	0	
23	813820106024	HARSIKA NIVASINI. R G	44	20						30	40							50	32		9						53	50	40	50	32	
24	813820106025	JAHEN. A	46	4						24	14							40	26		8						54	28	14	40	26	
25	813820106026	JANET PRISCILLA. A J	58	8						38	52							56	38		9						67	46	52	56	38	
26	813820106027	JAYAVARSHA. P	48	4						36	28							48	34		9						57	40	28	48	34	
27	813820106028	KABISH. M E	36	0						26	10							20	2		8						44	26	10	20	2	
28	813820106029	KAMALAKANNAN. T	16	0						0	0							2	0		7						23	0	0	2	0	
29	813820106030	KANNATHAL. S	20	0						30	32							34	36		7						27	30	32	34	36	
30	813820106031	KARTHIKA. M	60	24						38	46							56	38		9						69	62	46	56	38	
31	813820106032	KAVYALAKSHMI. S P	52	8						36	28							44	36		9						61	44	28	44	36	
32	813820106033	KEERTHANA. C	20	0						24	4							8	12		9						29	24	4	8	12	
33	813820106034	KISHORE BALAJI. G	6	0						24	26							42	30		8						14	24	26	42	30	
34	813820106035	KISHORE KUMAR. S	12	0						22	18							24	16		8						20	22	18	24	16	
35	813820106036	KRISHNA. R	16	0						0	0							4	2		8						24	0	0	4	2	
36	813820106037	LAKSHADHEEPA. C	18	2						18	54							42	36		8						26	20	54	42	36	
37	813820106038	LOGANATHAN. A	2	0						18	14							28	24		8						10	18	14	28	24	
38	813820106039	LOGESWARI. M	52	4						30	30							46	34		8						60	34	30	46	34	
39	813820106040	MITHRAN. J	42	4						34	52							26	34		8						50	38	52	26	34	
40	813820106041	MOHAMMED ARSHATH. S	50	14						34	40							50	38		8						58	48	40	50	38	
41	813820106042	MUHILAN. S	28	4						12	38							26	34		8						36	16	38	26	34	
42	813820106043	MUKILAN. S	68	22						38	54							54	38		9						77	60	54	54	38	
43	813820106044	NANDHA. S	46	4						28	28							42	32		8						54	32	28	42	32	
44	813820106045	NAVEEN. T	0	2						28	28							32	18		8						8	30	28	32	18	
45	813820106046	NICKSON BABU. I	20	0						24	14							38	12		8						28	24	14	38	12	
46	813820106047	NISHA. M	34	4						36	40							48	36		8						42	40	40	48	36	
47	813820106048	NITHYASREE. P V	46	4						38	44							34	34		8						54	42	44	34	34	
48	813820106049	NIVAEDHITHA. K V	42	12						36	40							46	34		8						50	48	40	46	34	
49	813820106050	NIVETHA. T	50	16						34	30							54	36		8						58	50	30	54	36	
50	813820106051	PARTHIBAN. B	52	4						32	20							34	22		8						60	36	20	34	22	
51	813820106052	PAVITHRA. R	42	12						30	26							54	34		8						50	42	26	54	34	
52	813820106053	POOVIZHI. N	34	4						16	36							6	18		8						42	20	36	6	18	

53	813820106054	PRABAKAR. T	28	10						30	22							34	22							9	28	40	22	34	22	
54	813820106055	PRABHA. K	42	8						32	28							42	28							10	42	40	28	42	28	
55	813820106057	PRAKASH. R	22	0						0	0							0	0							9	22	0	0	0	0	
56	813820106058	PRASANNA VENKATESH. K	46	8						20	28							30	20							9	46	28	28	30	20	
57	813820106059	RAHUL. M	4	0						36	32							16	4							9	4	36	32	16	4	
58	813820106060	RATHI AISHWARYA. G	60	4						0	0							0	0							10	60	4	0	0	0	
59	813820106061	RITUN SRINIVASAN. R G	24	4						20	32							20	14							9	24	24	32	20	14	
60	813820106062	ROSHNI. R	42	8						34	34							50	28							9	42	42	34	50	28	
61	813820106063	SADAM HUSSAIN. S	36	22						38	56							54	34							10	36	60	56	54	34	
62	813820106064	SADHANA. M	34	16						30	26							48	20							10	34	46	26	48	20	
63	813820106065	SANJAY. G	8	0						38	52							0	0							9	8	38	52	0	0	
64	813820106066	SANJAY. M	12	0						26	18							42	12							9	12	26	18	42	12	
65	813820106067	SAROJINI. B	32	18						0	0							52	36							10	32	18	0	52	36	
66	813820106068	SATHYA. N T	56	8						38	38							52	34							10	56	46	38	52	34	
67	813820106069	SELVA MARIYAPPAN. N S	32	4						20	30							0	0							10	32	24	30	0	0	
68	813820106070	SETHURAMALINGAM. K	24	10						2	44							10	12							9	24	12	44	10	12	
69	813820106071	SHAHIN SULAIMAN. M	0	8						28	8							22	28							10	0	36	8	22	28	
70	813820106072	SHAMITA. S	56	22						38	42							48	34							10	56	60	42	48	34	
71	813820106073	SHEELA ANGEL. S	68	26						38	56							46	36							10	68	64	56	46	36	
72	813820106074	SHIFANA RIFATH. A	66	20						36	54							34	34							9	66	56	54	34	34	
73	813820106075	SHRI SHABARISE. G	22	0						26	26							30	22							9	22	26	26	30	22	
74	813820106076	SHRUTHIKA. S	36	4						0	0							48	34							9	36	4	0	48	34	
75	813820106077	SIVAKUMAR. K	34	2						0	0							22	30							9	34	2	0	22	30	
76	813820106078	SIVARANJAN. B	64	10						34	42							44	20							9	64	44	42	44	20	
77	813820106079	SRIDHAR PRASAD. M N	38	22						28	28							34	34							10	38	50	28	34	34	
78	813820106080	SRIHARI. P	32	8						14	26							38	22							9	32	22	26	38	22	
79	813820106081	SRI ISWARYA. S S	44	6						20	46							30	34							10	44	26	46	30	34	
80	813820106082	SRINITHI. R	52	6						34	38							36	20							10	52	40	38	36	20	
81	813820106083	SRIRAM. S U	36	20						22	26							46	36							9	36	42	26	46	36	
82	813820106084	SRIRAM PRASATH. T	44	8						22	30							44	30							9	44	30	30	44	30	
83	813820106085	SRUTI. D	54	4						34	40							50	36							10	54	38	40	50	36	
84	813820106086	SUBASHREE. V S	62	4						30	48							42	28							10	62	34	48	42	28	
85	813820106087	SUBHASHREE. B	42	8						28	30							48	26							10	42	36	30	48	26	
86	813820106088	SUBHIKSHAA SURESH	56	22						28	30							46	36							10	56	50	30	46	36	
87	813820106089	SUDHARSAN. T	58	4						6	4							36	32							9	58	10	4	36	32	
88	813820106090	SUTHIKA. K	46	4						38	40							48	30							10	46	42	40	48	30	
89	813820106091	SWETHA. V	0	0						28	16							36	34							10	0	28	16	36	34	
90	813820106092	TAMILSELVAN. P A	30	4						24	12							28	24							9	30	28	12	28	24	
91	813820106093	TEENA MASCELIN. J	30	22						30	46							42	36							10	30	52	46	42	36	
92	813820106094	THARUNKUMAR. S	34	16						20	26							30	32							10	34	36	26	30	32	
93	813820106095	THAUFIQ AHMED. A M	42	22						30	52							50	34							10	42	52	52	50	34	
94	813820106096	VAANMARAI. S	68	26						38	48							50	34							10	68	64	48	50	34	
95	813820106097	VARNESHWARAN. K	24	8						14	14							16	24							9	24	22	14	16	24	
96	813820106098	VIGNESH. R	48	2						26	24							0	0							9	48	28	24	0	0	
97	813820106099	VIGNESH. T	46	4						28	22							36	36							10	46	32	22	36	36	
98	813820106100	VIGNESH SARAN. T	50	22						16	26							42	28							10	50	38	26	42	28	
99	813820106101	VISHNUPRIYA. H	30	20						0	0							20	24							9	30	20	0	20	24	
100	813820106102	VISHVAMAHARAJA. P	60	22						38	52							52	36							10	60	60	52	52	36	
101	813820106103	VISWA. V	32	0						12	30							0	0							9	32	12	30	0	0	
102	813820106104	VISWASH. S	58	4						36	46							38	36							10	58	40	46	38	36	
103	813820106105	YAHITHA. S	52	20						36	54							46	36							10	52	56	54	46	36	
104	813820106301	ARAVIND. M	38	12						0	0							34	12							9	38	12	0	34	12	
105	813820106302	KADHIRESH. S								4	4							2	8		8						8	4	4	2	8	
106	813820106303	RAJA. N M								4	4							4	4		7						7	4	4	4	4	
107	813820106304	SARAVANAKUMAR. T								0	0							0	8		7						7	0	0	0	8	
108	813820106305	SHIVADEVI. J								36	36							42	32							10		36	36	42	32	
CO's Target Value																											53.30	44.20	39.00	39.00	26.00	6
No. of Student Secured above CO's Target value																											34	23	33	52	60	1
Percentage of Student Secured above Target																											31.48	21.30	30.56	48.15	55.56	10

SARANATHAN COLLEGE OF ENGINEERING, Tiruchirappalli - 620012

Department of B.E. Electronics and Communication Engineering

COURSE OUTCOME ATTAINMENT - UNIVERSITY EXAMINATION

COURSE CODE/TITLE	EC8351 ELECTRONIC CIRCUITS- I	Batch	2020 - 2024
CO Attainment Level: 1 - (0% - 60%) 2- (61%-90%) 3-(91% and Above)			

S.NO	REG. NO.	NAME OF THE STUDENT	GRADE
1	813820106001	ABINAYA. K	A+
2	813820106002	AKAASH. T U	A+
3	813820106003	AKSHARA. P	A+
4	813820106004	ALAGAMMAI. E	A+
5	813820106005	ANBARASU. J	A+
6	813820106006	ARAVIND. S	A+
7	813820106007	ARAVINDH. D	A+
8	813820106009	ARUN KUMAR. R	A
9	813820106010	BAVAN. G N	A+
10	813820106011	CAROLINE BLESSY YOVAN	A+
11	813820106012	CHARIS BENITA. R E	A+
12	813820106013	DAMINI. N	A+
13	813820106014	DEEBIKSHA. D	A+
14	813820106015	DHARANIKA. S	O
15	813820106016	DHINESH VEERAMANI. S M	A+
16	813820106017	DINESH KUMAR. D	A+
17	813820106018	GOWTHAM. P	A+
18	813820106019	GUGAN. S S	A+
19	813820106020	HARANI. M	A+
20	813820106021	HARIEESHPALANI. P.K	B+
21	813820106022	HARIHARAN. K	A+
22	813820106023	HARINI. K B	A+
23	813820106024	HARSIKA NIVASINI. R G	O
24	813820106025	JAHEN. A	A
25	813820106026	JANET PRISCILLA. A J	O
26	813820106027	JAYAVARSHA. P	O
27	813820106028	KABISH. M E	A+
28	813820106029	KAMALAKANNAN. T	A+
29	813820106030	KANNATHAL. S	O
30	813820106031	KARTHIKA. M	O
31	813820106032	KAVYALAKSHMI. S P	A+
32	813820106033	KEERTHANA. C	A+
33	813820106034	KISHORE BALAJI. G	A+
34	813820106035	KISHORE KUMAR. S	A
35	813820106036	KRISHNA. R	A
36	813820106037	LAKSHADHEEPA. C	A+
37	813820106038	LOGANATHAN. A	A+
38	813820106039	LOGESWARI. M	A+
39	813820106040	MITHRAN. J	A+
40	813820106041	MOHAMMED ARSHATH. S	A+
41	813820106042	MUHILAN. S	A+
42	813820106043	MUKILAN. S	A+
43	813820106044	NANDHA. S	A+
44	813820106045	NAVEEN. T	A+
45	813820106046	NICKSON BABU. I	A
46	813820106047	NISHA. M	A+
47	813820106048	NITHYASREE. P V	A
48	813820106049	NIVAEDHITHA. K V	A+
49	813820106050	NIVETHA. T	O
50	813820106051	PARTHIBAN. B	A+
51	813820106052	PAVITHRA. R	A+
52	813820106053	POOVIZHI. N	A+
53	813820106054	PRABAKAR. T	A
54	813820106055	PRABHA. K	A+
55	813820106057	PRAKASH. R	A+
56	813820106058	PRASANNA VENKATESH. K	A+
57	813820106059	RAHUL. M	A+
58	813820106060	RATHI AISHWARYA. G	A+
59	813820106061	RITUN SRINIVASAN. R G	A+
60	813820106062	ROSHNI. R	O
61	813820106063	SADAM HUSSAIN. S	O
62	813820106064	SADHANA. M	A+
63	813820106065	SANJAY. G	A+
64	813820106066	SANJAY. M	A+

65	813820106067	SAROJINI. B	A+
66	813820106068	SATHYA. N T	A+
67	813820106069	SELVA MARIYAPPAN. N S	A+
68	813820106070	SETHURAMALINGAM. K	B
69	813820106071	SHAHIN SULAIMAN. M	A
70	813820106072	SHAMITA. S	A+
71	813820106073	SHEELA ANGEL. S	A+
72	813820106074	SHIFANA RIFATH. A	O
73	813820106075	SHRI SHABARISE. G	A+
74	813820106076	SHRUTHIKA. S	O
75	813820106077	SIVAKUMAR. K	A+
76	813820106078	SIVARANJAN. B	A+
77	813820106079	SRIDHAR PRASAD. M N	O
78	813820106080	SRIHARI. P	A+
79	813820106081	SRI ISWARYA. S S	A+
80	813820106082	SRINITHI. R	A+
81	813820106083	SRIRAM. S U	A+
82	813820106084	SRIRAM PRASATH. T	A+
83	813820106085	SRUTI. D	O
84	813820106086	SUBASHREE. V S	O
85	813820106087	SUBHASHREE. B	A+
86	813820106088	SUBHIKSHAA SURESH	A+
87	813820106089	SUDHARSAN. T	A+
88	813820106090	SUTHIKA. K	A+
89	813820106091	SWETHA. V	O
90	813820106092	TAMILSELVAN. P A	A+
91	813820106093	TEENA MASCELIN. J	O
92	813820106094	THARUNKUMAR. S	B+
93	813820106095	THAUFIQ AHMED. A M	A+
94	813820106096	VAANMARAI. S	O
95	813820106097	VARNESHWARAN. K	A+
96	813820106098	VIGNESH. R	A+
97	813820106099	VIGNESH. T	A+
98	813820106100	VIGNESH SARAN. T	A+
99	813820106101	VISHNUPRIYA. H	O
100	813820106102	VISHVAMAHARAJA. P	A+
101	813820106103	VISWA. V	A+
102	813820106104	VISWASH. S	A+
103	813820106105	YAHITHA. S	A+
104	813820106301	ARAVIND. M	A+
105	813820106302	KADHIRESH. S	A
106	813820106303	RAJA. N M	A+
107	813820106304	SARAVANAKUMAR. T	A
108	813820106305	SHIVADEVI. J	A+
No. of S/O Grade			18
No. of A/A+ Grade			77
No. of B/A Grade			10
No. of C/B+ Grade			2
No. of D/B Grade			1
No. of E/B Grade			0
Target for course outcome Attainment			65
No of students above the target			107
CO-Attainment University			99.00

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
C203.1	31.48	99.00	71.99	81.48	73.89	2
C203.2	21.30	99.00	67.92	82.41	70.82	2
C203.3	30.56	99.00	71.62	82.10	73.72	2
C203.4	48.15	99.00	78.66	83.64	79.66	2
C203.5	55.56	99.00	81.62	83.64	82.03	2
C203.6	100.00	99.00	99.40	81.48	95.82	3

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PS02	PS03
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	
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	

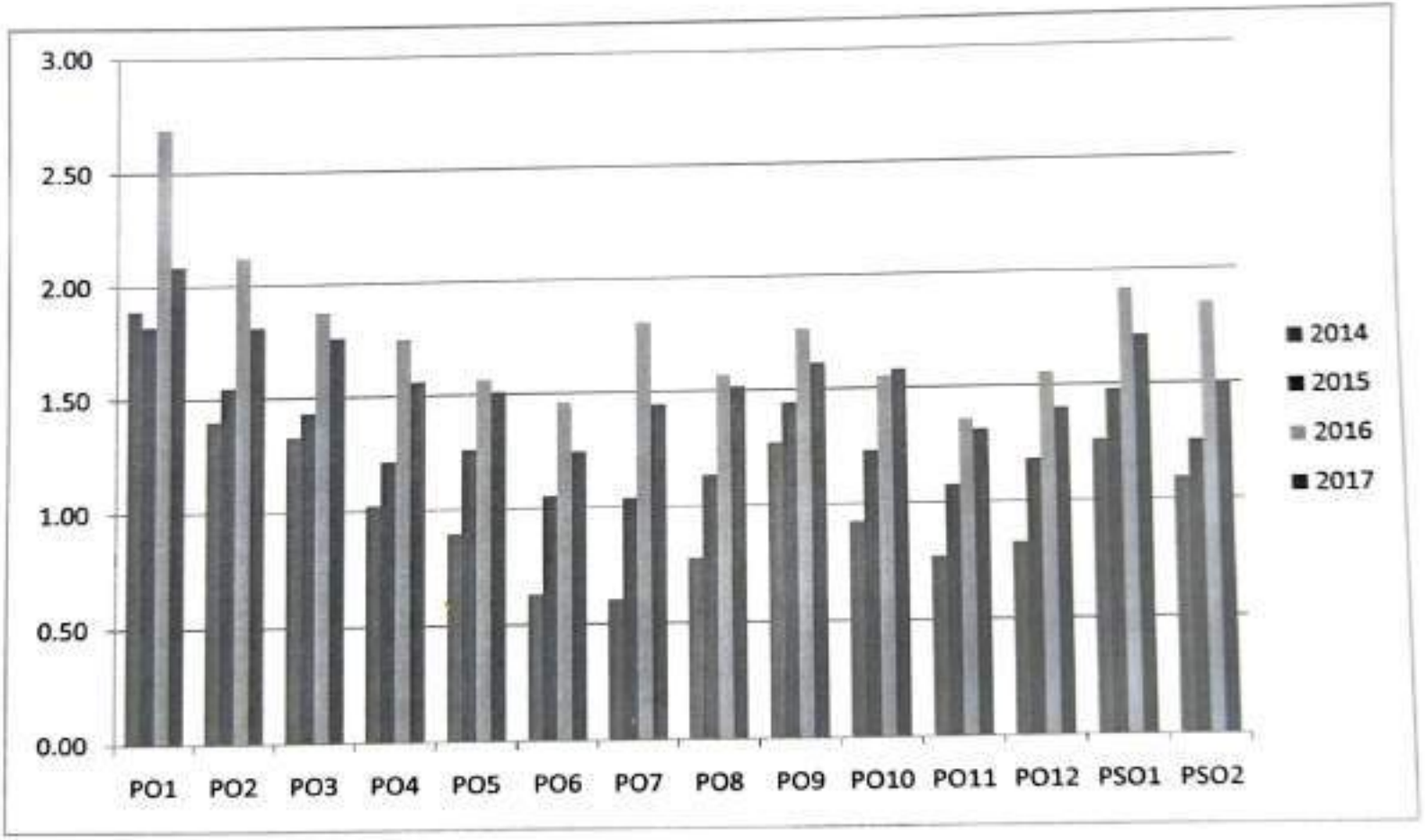
Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PS02	PS03
C203.1	1.33	1.33	1.33	0.67	1.33			0.67	0.67	0.67	0.67	1.33	1.33	0.67	
C203.2	1.33	1.33	1.33	0.67	1.33			0.67	0.67	0.67	0.67	1.33	1.33	0.67	
C203.3	1.33	1.33	1.33	0.67	1.33			0.67	0.67	0.67	0.67	1.33	1.33	0.67	
C203.4	1.33	1.33	1.33	0.67	1.33			0.67	0.67	0.67	0.67	1.33	1.33	0.67	
C203.5	1.33	1.33	1.33	0.67	1.33			0.67	0.67	0.67	0.67	1.33	1.33	0.67	
C203.6	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	1.44	1.44	1.44	0.72	1.44			0.72	0.72	0.72	0.72	1.44	1.44	0.72	

SARANATHAN COLLEGE OF ENGINEERING

DEPARTMENT OF INFORMATION TECHNOLOGY

Batchwise Consolidated Report with Graph for POs and PSOs

year	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
2014	1.89	1.40	1.33	1.02	0.89	0.63	0.60	0.78	1.27	0.93	0.77	0.82	1.26	1.09
2015	1.82	1.55	1.43	1.21	1.26	1.05	1.04	1.13	1.44	1.23	1.07	1.18	1.48	1.25
2016	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	2.08	1.81	1.76	1.56	1.51	1.24	1.44	1.52	1.61	1.58	1.31	1.40	1.71	1.50



Print Report

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 2021 - 2022 / ODD Semester

COURSE CODE/TITLE	COMMUNICATION NETWORKS	Batch	2019 - 2023
CLASS / SECTION	Sem 5 / ECE A & B		
COURSE COORDINATOR	Dr.S.A.Arunmozhi / Mr.M.Mahendran		

COURSE OUTCOME	1	2	3	4	5	6
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 ALLOTED						IAT-2 MARKS ALLOTED						IAT-3 MARKS ALLOTED						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
			72	**28**						**68**	**32**						**28**	**56**	**8**	**8**		**10**					**72**	**106**	**60**	**56**	**8**
1	813819106001	AADIL MUHAMED. M S	36	16						44	24						20	32	6	2							36	60	44	32	6
2	813819106002	AARTHI. M	46	18						44	26						24	40	4	4							46	62	50	40	4
3	813819106003	AASHIKAA R MOHAN	48	24						48	26						22	46	8	4							48	72	48	46	8
4	813819106004	AATHITYAA G R	48	14						54	28						22	42	6	2							48	68	50	42	6
5	813819106005	AFRAH ZAINAB KHAN. A	54	22						52	30						24	38	0	6							54	74	54	38	0
6	813819106006	AGALYA. R	56	22						50	28						26	42	6	4							56	72	54	42	6
7	813819106007	AKILA. G	58	18						42	20						0	0	0	0							58	60	20	0	0
8	813819106008	AKILAA. B	62	20						48	22						24	40	8	2							62	68	46	40	8
9	813819106009	AKSHAYA . K	52	18						54	22						24	48	2	2							52	72	46	48	2
10	813819106010	ANTHON. A S K	40	10						40	20						10	32	6	2							40	50	30	32	6
11	813819106011	ARUL JYOTHI. A	38	16						46	22						18	18	4	2							38	62	40	18	4
12	813819106012	ARUN PRIYA RAAJ. P V	32	4						42	20						0	0	0	0							32	46	20	0	0
13	813819106013	BALASUBRAMANIAN. S	32	18						40	12						12	6	0	2							32	58	24	6	0
14	813819106014	BAUMA RANJITH. S	42	20						36	24						18	0	8	0							42	56	42	0	8
15	813819106015	BHARANI KUMAR. S	0	0						30	20						2	0	0	0							0	30	22	0	0
16	813819106016	BHARATH HARI. S	28	10						44	16						22	34	8	0							28	54	38	34	8
17	813819106017	BRINDHA. K	0	0						0	0						0	0	0	0							0	0	0	0	0
18	813819106018	CHARUDESNA. K	0	0						42	14						16	20	8	6							0	42	30	20	8
19	813819106019	CHARUGOBIKA. R D	46	20						56	24						26	44	8	6							46	76	50	44	8
20	813819106020	CRISPIN URSULA CATHERINE. A	50	20						44	26						18	44	8	0							50	64	44	44	8
21	813819106021	DEEPIKHA. R	64	16						46	22						22	44	8	8							64	62	44	44	8
22	813819106022	DEIVANAI. M	42	20						50	24						26	48	6	8							42	70	50	48	6
23	813819106023	DHARSHINI. K	40	20						50	22						20	34	8	4							40	70	42	34	8
24	813819106024	DHARSHINI. S	46	4						40	0						0	0	0	0							46	44	0	0	0
25	813819106025	DHASLIN JENI MONISHA. J	34	16						38	22						22	28	6	4							34	54	44	28	6
26	813819106026	DHIVYA. S	44	18						42	24						24	42	6	6							44	60	48	42	6
27	813819106027	FERDINA. C	56	8						36	24						20	38	0	2							56	44	44	38	0
28	813819106028	GAYATHRI. S	38	12						32	18						4	36	8	2							38	44	22	36	8
29	813819106029	GOPI MANICKAM. R	42	20						42	22						22	36	8	0							42	62	44	36	8
30	813819106030	HARI GANESH . S	38	12						38	22						20	18	8	4							38	50	42	18	8
31	813819106031	HARINI. M	44	22						50	22						22	48	8	4							44	72	44	48	8
32	813819106032	HARINI. V S	42	18						44	26						24	36	2	6							42	62	50	36	2
33	813819106033	HARI PRASATH. D	34	6						48	20						24	40	8	0							34	54	44	40	8
34	813819106034	HARITHAA. S	46	26						56	30						18	46	8	6							46	82	48	46	8
35	813819106035	HARRISH. M	32	0						32	2						0	18	2	0							32	32	2	18	2
36	813819106036	HARSHEETHA. R C	46	22						56	24						22	26	0	2							46	78	46	26	0
37	813819106037	HARSHINI. G	44	20						52	26						22	26	0	2							44	72	48	26	0
38	813819106038	HEMACHANDHAR. N	22	16						20	26						12	14	4	2							22	36	38	14	4
39	813819106039	HEMAVATHI. R	50	24						56	24						26	52	8	6							50	80	50	52	8
40	813819106040	IMMANUAL. V	26	10						42	18						26	20	8	6							26	52	44	20	8
41	813819106041	JAYALAKSHMI. S	50	22						56	28						20	36	6	4							50	78	48	36	6
42	813819106042	JAYASURYA. P	24	0						42	20						12	24	4	0							24	42	32	24	4
43	813819106043	JEFFREY ALAN. A	0	0						54	20						20	38	6	4							0	54	40	38	6
44	813819106044	JENIFAR SHEEBA. A	42	20						58	24						24	32	4	0							42	78	48	32	4
45	813819106045	JOHAN KINGSLY. M	40	2						36	24						12	24	4	2							40	38	36	24	4
46	813819106046	KAARTHIKEYAN. E	36	0						0	0						4	22	0	0							36	0	4	22	0
47	813819106047	KARTHIK. B	28	12						22	4						14	12	0	2							28	34	18	12	0
48	813819106048	KAVIYA. K	42	24						0	0						22	28	2	0							42	24	22	28	2
49	813819106049	KAVIYA. M P	0	0						0	0						12	22	2	2							0	0	12	22	2
50	813819106050	KAVYA. A	40	20						42	24						20	38	6	2							40	62	44	38	6
51	813819106051	KAVYA. M	34	8						0	0						20	36	2	2							34	8	20	36	2
52	813819106052	KAWSIKA. S	28	16						38	22						20	38	8	2							28	54	42	38	8
53	813819106053	KEDZI JERO KATHRIN . P	42	18						46	24						22	42	0	6							42	64	46	42	0
54	813819106054	KEERTHANA. I	48	22						52	24						18	42	0	4							48	74	42	42	0

55	813819106055	KEERTHANA. R	32	20						46	24						20	32	4	4							32	66	44	32	4
56	813819106056	KEERTHIGA. R	50	20						50	20						22	40	4	2							50	70	42	40	4
57	813819106057	KEVIN CARLOS JOY. J	34	18						32	28						18	20	4	0							34	50	46	20	4
58	813819106058	KIRTHIGA. K	48	22						42	24						20	36	0	4							48	64	44	36	0
59	813819106059	LAKSHANAA. H	38	22						38	6						0	0	0	0							38	60	6	0	0
60	813819106060	MADHU MITHA. M	46	18						0	0						22	40	8	4							46	18	22	40	8
61	813819106061	MADUMITHA. S	60	24						54	28						24	46	2	8		10					60	88	52	46	2
62	813819106062	MALAVIKA. M	39	15						44	18						14	20	6	0		10					39	69	32	20	6
63	813819106063	MANOJKUMAR. M	20	8						24	2						2	22	0	0		8					20	40	4	22	0
64	813819106064	MANOJ KUMAR. M	45	17						44	20						22	44	4	4		10					45	71	42	44	4
65	813819106065	MEENATCHI. P	65	25						60	28						24	44	8	8		10					65	95	52	44	8
66	813819106066	MOHAMED MUSARAF. T	52	20						46	28						16	34	0	2		8					52	74	44	34	0
67	813819106067	MOHAMED RIYAS. A B	36	14						36	14						20	18	0	4		9					36	59	34	18	0
68	813819106068	NANDHINI. M	36	14						0	0						20	28	0	2		9					36	23	20	28	0
69	813819106069	NANDHINI. S J	26	10						44	26						16	22	0	2		8					26	62	42	22	0
70	813819106070	NANTHINI. N	45	17						34	16						20	30	0	0		9					45	60	36	30	0
71	813819106071	NISAGAR. S	45	17						46	24						0	34	0	4		8					45	71	24	34	0
72	813819106072	NITHIN RAJ. S	43	17						48	22						14	24	0	0		8					43	73	36	24	0
73	813819106073	NIVEDHA. R	58	22						58	28						22	46	8	4		8					58	88	50	46	8
74	813819106074	PALANIYAPPAN. R	43	17						54	28						24	46	8	2		10					43	81	52	46	8
75	813819106075	POOJAPRIYADHARSHINI. A	58	22						54	28						0	0	0	0		10					58	86	28	0	0
76	813819106076	PRASANNA VENKATESH. B	43	17						38	24						14	40	8	2		9					43	64	38	40	8
77	813819106077	PRAVEENA. M	46	18						50	22						24	48	6	6		9					46	77	46	48	6
78	813819106078	PUJA SRI. K	36	14						54	22						20	44	8	8		10					36	78	42	44	8
79	813819106079	RAGAVI. S	50	20						58	28						20	44	8	8		10					50	88	48	44	8
80	813819106080	RAJKUMAR. M	53	21						46	24						16	30	4	6		8					53	75	40	30	4
81	813819106081	RAKSHANA. S	53	21						40	22						22	36	6	6		10					53	71	44	36	6
82	813819106082	RAMKUMAR. N	45	17						44	16						8	20	0	2		8					45	69	24	20	0
83	813819106083	RENGALAXMI. S	46	18						0	0						24	28	8	6		9					46	27	24	28	8
84	813819106084	RENGANATHAN. A	27	11						52	32						20	28	8	8		9					27	72	52	28	8
85	813819106085	RITHESWETHA. R	52	20						52	30						18	30	2	4		10					52	82	48	30	2
86	813819106086	ROSHANA. V S	36	14						50	26						26	48	8	6		10					36	74	52	48	8
87	813819106087	SAIRA BANU. B	56	22						26	26						22	24	8	2		8					56	56	48	24	8
88	813819106088	SAKTHI NEELAMBARI. R	55	21						48	26						22	38	8	6		10					55	79	48	38	8
89	813819106089	SANTHOSH KUMAR. M	62	24						36	14						22	34	4	4		10					62	70	36	34	4
90	813819106090	SANTHIYA. R	50	20						32	20						20	34	2	2		9					50	61	40	34	2
91	813819106091	SARULATHA. S	39	15						38	22						24	34	0	2		9					39	62	46	34	0
92	813819106092	SHERIN BEGUM. M	36	14						52	26						22	46	4	4		10					36	76	48	46	4
93	813819106093	SHYAM SUNDAR. B	56	22						18	12						0	0	0	0		7					56	47	12	0	0
94	813819106094	SHRUTHI. P S	43	17						58	24						20	46	2	8		10					43	85	44	46	2
95	813819106095	SIDDIQ. A	56	22						48	26						20	26	8	6		8					56	78	46	26	8
96	813819106096	SIVABALA. K	52	20						52	20						10	32	2	2		9					52	81	30	32	2
97	813819106097	SIVASRI. S M	0	0						0	0						12	36	2	0		9					0	9	12	36	2
98	813819106098	SIVETHA. S	46	18						50	20						16	36	6	4		8					46	76	36	36	6
99	813819106099	SNEHA. K	55	21						52	24						22	40	4	6		10					55	83	46	40	4
100	813819106100	SNEKA. M S	58	22						50	22						6	26	4	4		10					58	82	28	26	4
101	813819106101	SOPHIYA. V	43	17						48	24						24	48	8	2		10					43	75	48	48	8
102	813819106102	SRAVANI SOWMYA SHRI. J	55	21						44	22						22	26	8	4		10					55	75	44	26	8
103	813819106103	SRINIVASAN. S	52	20						22	18						14	32	8	2		9					52	51	32	32	8
104	813819106104	SRINIVASAN. T	36	14						44	20						16	40	8	2		8					36	66	36	40	8
105	813819106105	SRI PRASANNA. J	43	17						42	26						18	28	4	2		8					43	67	44	28	4
106	813819106106	SRISUDHARSSAN. R	43	17						40	22						14	28	8	4		8					43	65	36	28	8
107	813819106107	SUBAPREETHI. B	49	19						52	22						20	46	2	4		10					49	81	42	46	2
108	813819106108	SUBIKSHAA. M	52	20						60	22						18	30	0	4		10					52	90	40	30	0
109	813819106109	SUDHAKAR. S	63	25						58	4						12	26	0	4		9					63	92	16	26	0
110	813819106110	SUDHARSHAN. S	52	20						42	18						16	32	0	4		8					52	70	34	32	0
111	813819106111	SUDHARSHNAN. G S	49	19						48	22						20	42	2	6		8					49	75	42	42	2
112	813819106112	SURIYASRI. S	58	22						54	22						0	0	0	0		9					58	85	22	0	0
113	813819106113	THRISHA. K	43	17						52	26						16	38	4	2		10					43	79	42	38	4
114	813819106114	UBENDRAN. V	63	25						56	28						26	54	4	8		10					63	91	54	54	4
115	813819106115	VAISHNAVI. K	52	20						52	24						14	40	4	6		10					52	82	38	40	4
116	813819106116	VASUNTHARA. K	49	19						52	24						20	44	2	2		9					49	80	44	44	2
117	813819106117	VINODHINI. V	58	22						52	30						24	48	8	4		10					58	84	54	48	8
118	813819106118	VISAKAN. M	43	17						0	0						12	16	0	0		8					43	25	12	16	0
119	813819106119	VISWANATH. M	46	18						0	0						10	40	8	2		8					46	26	10	40	8
120	813819106120	YOGESH. S	50	20						46	24						20	32	2	6		10					50	76	44	32	2
																											CO's Target Value	46.80	68.90	39.00	36.40	5.20
																											No. of Student Secured above CO's Target value	46	58	73	48	52
																											Percentage of Student Secured above Target	38.33	48.33	60.83	40.00	43.33

SARANATHAN COLLEGE OF ENGINEERING, Tiruchirappalli - 620012

Department of B.E. Electronics and Communication Engineering

COURSE OUTCOME ATTAINMENT - UNIVERSITY EXAMINATION

COURSE CODE/TITLE	EC8551 COMMUNICATION NETWORKS	Batch	2019 - 2023
CO Attainment Level: 1 - (0% - 60%) 2- (61%-90%) 3-(91% and Above)			

S.NO	REG. NO.	NAME OF THE STUDENT	GRADE
1	813819106001	AADIL MUHAMED. M S	A+
2	813819106002	AARTHI. M	O
3	813819106003	AASHIKAA R MOHAN	O
4	813819106004	AATHITYAA G R	O
5	813819106005	AFRAH ZAINAB KHAN. A	O
6	813819106006	AGALYA. R	O
7	813819106007	AKILA. G	O
8	813819106008	AKILAA. B	O
9	813819106009	AKSHAYA . K	O
10	813819106010	ANTHON. A S K	A+
11	813819106011	ARUL JYOTHI. A	A+
12	813819106012	ARUN PRIYA RAAJ. P V	A
13	813819106013	BALASUBRAMANIAN. S	A+
14	813819106014	BAUMA RANJITH. S	A+
15	813819106015	BHARANI KUMAR. S	A+
16	813819106016	BHARATH HARI. S	A
17	813819106017	BRINDHA. K	
18	813819106018	CHARUDESNA. K	A+
19	813819106019	CHARUGOBIKA. R D	A+
20	813819106020	CRISPIN URSULA CATHERINE. A	O
21	813819106021	DEEPIKHA. R	O
22	813819106022	DEIVANAI. M	O
23	813819106023	DHARSHINI. K	O
24	813819106024	DHARSHINI. S	A+
25	813819106025	DHASLIN JENI MONISHA. J	A+
26	813819106026	DHIVYA. S	O
27	813819106027	FERDINA. C	A+
28	813819106028	GAYATHRI. S	A+
29	813819106029	GOPI MANICKAM. R	O
30	813819106030	HARI GANESH . S	A
31	813819106031	HARINI. M	O
32	813819106032	HARINI. V S	O
33	813819106033	HARI PRASATH. D	A
34	813819106034	HARITHAA. S	O
35	813819106035	HARRISH. M	A
36	813819106036	HARSHEETHA. R C	O
37	813819106037	HARSHINI. G	O
38	813819106038	HEMACHANDHAR. N	A
39	813819106039	HEMAVATHI. R	O
40	813819106040	IMMANUAL. V	A+
41	813819106041	JAYALAKSHMI. S	O
42	813819106042	JAYASURYA. P	A+
43	813819106043	JEFFREY ALAN. A	O
44	813819106044	JENIFAR SHEEBA. A	A+
45	813819106045	JOHAN KINGSLY. M	A+
46	813819106046	KAARTHIKEYAN. E	A+
47	813819106047	KARTHIK. B	A+
48	813819106048	KAVIYA. K	A
49	813819106049	KAVIYA. M P	A+
50	813819106050	KAVYA. A	A+
51	813819106051	KAVYA. M	A+
52	813819106052	KAWSIKA. S	A+
53	813819106053	KEDZI JERO KATHRIN . P	A+
54	813819106054	KEERTHANA. I	O
55	813819106055	KEERTHANA. R	A+
56	813819106056	KEERTHIGA. R	O
57	813819106057	KEVIN CARLOS JOY. J	O
58	813819106058	KIRTHIGA. K	A+
59	813819106059	LAKSHANAA. H	A+
60	813819106060	MADHU MITHA. M	A+
61	813819106061	MADUMITHA. S	O
62	813819106062	MALAVIKA. M	A+
63	813819106063	MANOJKUMAR. M	A+
64	813819106064	MANOJ KUMAR. M	A+

65	813819106065	MEENATCHI. P	A+
66	813819106066	MOHAMED MUSARAF. T	A+
67	813819106067	MOHAMED RIYAS. A B	A+
68	813819106068	NANDHINI. M	A+
69	813819106069	NANDHINI. S J	A+
70	813819106070	NANTHINI. N	A+
71	813819106071	NISAGAR. S	O
72	813819106072	NITHIN RAJ. S	A+
73	813819106073	NIVEDHA. R	O
74	813819106074	PALANIYAPPAN. R	A+
75	813819106075	POOJAPRIYADHARSHINI. A	O
76	813819106076	PRASANNA VENKATESH. B	A+
77	813819106077	PRAVEENA. M	A+
78	813819106078	PUJA SRI. K	O
79	813819106079	RAGAVI. S	O
80	813819106080	RAJKUMAR. M	A+
81	813819106081	RAKSHANA. S	A+
82	813819106082	RAMKUMAR. N	A+
83	813819106083	RENGALAXMI. S	A+
84	813819106084	RENGANATHAN. A	A+
85	813819106085	RITHESWETHA. R	O
86	813819106086	ROSHANA. V S	O
87	813819106087	SAIRA BANU. B	A+
88	813819106088	SAKTHI NEELAMBARI. R	O
89	813819106089	SANTHOSH KUMAR. M	A+
90	813819106090	SANTHIYA. R	O
91	813819106091	SARULATHA. S	A
92	813819106092	SHERIN BEGUM. M	O
93	813819106093	SHYAM SUNDAR. B	A+
94	813819106094	SHRUTHI. P S	A+
95	813819106095	SIDDIQ. A	A+
96	813819106096	SIVABALA. K	A
97	813819106097	SIVASRI. S M	A+
98	813819106098	SIVETHA. S	O
99	813819106099	SNEHA. K	O
100	813819106100	SNEKA. M S	O
101	813819106101	SOPHIYA. V	O
102	813819106102	SRAVANI SOWMYA SHRI. J	O
103	813819106103	SRINIVASAN. S	A+
104	813819106104	SRINIVASAN. T	A+
105	813819106105	SRI PRASANNA. J	A+
106	813819106106	SRISUDHARSSAN. R	A
107	813819106107	SUBAPREETHI. B	A
108	813819106108	SUBIKSHAA. M	A+
109	813819106109	SUDHAKAR. S	A
110	813819106110	SUDHARSHAN. S	A+
111	813819106111	SUDHARSHNAN. G S	A
112	813819106112	SURIYASRI. S	A+
113	813819106113	THRISHA. K	
114	813819106114	UBENDRAN. V	A+
115	813819106115	VAISHNAVI. K	A+
116	813819106116	VASUNTHARA. K	A+
117	813819106117	VINODHINI. V	A+
118	813819106118	VISAKAN. M	A+
119	813819106119	VISWANATH. M	A+
120	813819106120	YOGESH. S	A+
No. of S/O Grade			41
No. of A/A+ Grade			64
No. of B/A Grade			13
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			118
CO-Attainment University			98.00

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
C305.1	38.33	98.00	74.13	83.06	75.92	2
C305.2	48.33	98.00	78.13	82.22	78.95	2
C305.3	60.83	98.00	83.13	83.33	83.17	2
C305.4	40.00	98.00	74.80	83.06	76.45	2
C305.5	43.33	98.00	76.13	82.22	77.35	2
C305.6	24.17	98.00	68.47	84.72	71.72	2

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PS02	PS03
C305.1	2	2	1	1	1					1		1	1	2	
C305.2	2	2	1	1	1					1		1	1	2	
C305.3	2	2	1	1	1					1		1	1	2	
C305.4	2	2	1	1	1					1		1	1	2	
C305.5	2	2	1	1	1					1		1	1	2	
C305.6	2	2	1	1	1					1		1	1	2	
C305	2.00	2.00	1.00	1.00	1.00					1.00		1.00	1.00	2.00	

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PS02	PS03
C305.1	1.33	1.33	0.67	0.67	0.67					0.67		0.67	0.67	1.33	
C305.2	1.33	1.33	0.67	0.67	0.67					0.67		0.67	0.67	1.33	
C305.3	1.33	1.33	0.67	0.67	0.67					0.67		0.67	0.67	1.33	
C305.4	1.33	1.33	0.67	0.67	0.67					0.67		0.67	0.67	1.33	
C305.5	1.33	1.33	0.67	0.67	0.67					0.67		0.67	0.67	1.33	
C305.6	1.33	1.33	0.67	0.67	0.67					0.67		0.67	0.67	1.33	
C305	1.33	1.33	0.67	0.67	0.67					0.67		0.67	0.67	1.33	

Print Report

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 2021 - 2022 / ODD Semester

COURSE CODE/TITLE	AD HOC AND WIRELESS SENSOR NETWORKS	Batch	2018 - 2022
CLASS / SECTION	Sem 7 / ECE A & B		
COURSE COORDINATOR	Dr.S.Rajeswari / Dr.S.A.Arunmozhi		

COURSE OUTCOME	1	2	3	4	5	6
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 ALLOTED						IAT-2 MARKS ALLOTED						IAT-3 MARKS ALLOTED						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
			64	**36**						**36**	**64**							**8**	**52**	**40**	**64**	**72**	**64**	**8**	**52**	**40**
1	813818106001	AAISHA THAHSEENA. M	58	36						34	54							6	26	28	58	70	54	6	26	28
2	813818106002	ABDULLA. N	0	0						34	56							8	28	34	0	34	56	8	28	34
3	813818106003	ABDUL RAHMAN. M	50	30						32	58							8	44	36	50	62	58	8	44	36
4	813818106004	ABINAYA. S	54	34						32	52							8	18	34	54	66	52	8	18	34
5	813818106005	ABISHEK. M	56	34						32	50							6	40	34	56	66	50	6	40	34
6	813818106006	AHILAN. C	52	32						32	54							8	22	24	52	64	54	8	22	24
7	813818106007	AJAIPRAMOTH. A	46	32						32	56							6	40	32	46	64	56	6	40	32
8	813818106008	AJAY. S	56	34						34	60							8	42	36	56	68	60	8	42	36
9	813818106009	AKSHAYA GODINA. D	60	32						34	58							8	42	32	60	66	58	8	42	32
10	813818106010	ANTONY JOHN JASON. S	40	20						30	48							4	4	4	40	50	48	4	4	4
11	813818106012	ATCHAYA. M	54	32						30	48							4	26	24	54	62	48	4	26	24
12	813818106013	ATCHAYA. R	54	34						30	56							8	44	36	54	64	56	8	44	36
13	813818106014	ATHISANKAR. A	56	34						28	54							8	28	34	56	62	54	8	28	34
14	813818106015	ATSHAYA. R	60	32						34	60							8	46	38	60	66	60	8	46	38
15	813818106017	BANU PRIYA. B	58	34						30	58							8	38	32	58	64	58	8	38	32
16	813818106018	BAVITHRAN. G R	50	30						32	58							6	4	12	50	62	58	6	4	12
17	813818106019	CAROLINE RUBY. S	54	32						30	52							8	42	38	54	62	52	8	42	38
18	813818106020	CAVWIN DHEEPAK. R	50	28						32	54							8	44	18	50	60	54	8	44	18
19	813818106021	CHARUDHARSHANA. M	50	32						32	54							6	38	26	50	64	54	6	38	26
20	813818106022	DEVA DARSHINI. S	52	34						30	56							6	32	34	52	64	56	6	32	34
21	813818106023	DHAARANI. B	54	30						30	52							8	36	30	54	60	52	8	36	30
22	813818106024	DHANAVIDHYA. G	52	32						32	56							8	30	34	52	64	56	8	30	34
23	813818106025	DHANIYA LAKSHMI. J	54	30						34	58							8	30	30	54	64	58	8	30	30
24	813818106026	DILEEPAN. M	50	28						34	58							6	8	16	50	62	58	6	8	16
25	813818106027	DINESH RAM. R	52	30						34	52							4	22	30	52	64	52	4	22	30
26	813818106028	DIRAVIDAMANI. M	46	30						34	58							4	24	4	46	64	58	4	24	4
27	813818106029	DIVYA BHARATHI. S	52	32						32	56							8	26	34	52	64	56	8	26	34
28	813818106030	DURGASRI. R	54	28						30	52							8	32	34	54	58	52	8	32	34
29	813818106031	GOKULAKRISHNAN. M J	50	28						28	50							2	2	2	50	56	50	2	2	2
30	813818106033	IRFAN AHMED. I	52	26						30	50							8	26	28	52	56	50	8	26	28
31	813818106034	JAIBALAJI. C	50	26						32	52							8	16	32	50	58	52	8	16	32
32	813818106035	JANNIFER. D	52	32						30	50							8	46	36	52	62	50	8	46	36
33	813818106036	JAYAPRIYA. M	52	32						30	52							6	28	16	52	62	52	6	28	16
34	813818106037	JAYASHREE. RI	54	30						28	56							6	28	18	54	58	56	6	28	18
35	813818106038	JAYSHRINIVAAS. B	56	32						30	54							6	42	28	56	62	54	6	42	28
36	813818106039	JERSON FENADICT ANDRO. A M	54	32						30	54							6	12	14	54	62	54	6	12	14
37	813818106040	KADHIR MANI. S	56	30						32	56							6	22	22	56	62	56	6	22	22
38	813818106041	KAMALAKANNAN. K	34	26						34	56							6	32	32	34	60	56	6	32	32
39	813818106042	KARISHMA. G	52	32						32	56							6	26	34	52	64	56	6	26	34
40	813818106043	KARTHIGA DEVI. G	50	32						34	58							8	46	34	50	66	58	8	46	34
41	813818106044	KARTHIKEYAN. M M	52	30						30	52							6	26	28	52	60	52	6	26	28
42	813818106045	KAVIMANI. A	54	32						34	58							6	26	30	54	66	58	6	26	30
43	813818106046	KAVIYA. S	58	32						34	54							6	46	24	58	66	54	6	46	24
44	813818106047	KAVYA. K S	54	32						32	56							8	30	32	54	64	56	8	30	32
45	813818106048	KEERTHANA. G.R	52	30						30	54							6	40	34	52	60	54	6	40	34
46	813818106049	KINGSLEY PATRICK JOY. J	56	32						30	52							8	42	26	56	62	52	8	42	26
47	813818106050	KISHORE. G	50	30						34	58							8	40	28	50	64	58	8	40	28
48	813818106051	KRISHNA KUMAR. K	46	30						32	58							4	8	4	46	62	58	4	8	4
49	813818106052	KUMARAGURUPHARAN. S	44	28						30	50							8	36	8	44	58	50	8	36	8
50	813818106053	KUMARESAN. A	48	30						32	56							8	42	28	48	62	56	8	42	28

51	813818106054	MADHESH. S	50	28						32	56							6	38	18	50	60	56	6	38	18
52	813818106055	MADHUMITHA. J	52	30						32	50							8	38	20	52	62	50	8	38	20
53	813818106056	MANIKANDAN. R	54	30						30	52							8	16	4	54	60	52	8	16	4
54	813818106057	MANODURGA. V	60	32						34	58							8	48	36	60	66	58	8	48	36
55	813818106058	MANOJKUMAR. S	48	28						32	56							2	8	12	48	60	56	2	8	12
56	813818106059	MANOJ KUMAR A.	54	30						30	56							2	10	12	54	60	56	2	10	12
57	813818106060	MOHAMED SHAFIQUR RAHMAN. J	58	30						32	60							6	46	14	58	62	60	6	46	14
58	813818106061	MOHAMED UWAIS. K	58	28						32	58							6	46	14	58	60	58	6	46	14
59	813818106062	NAGAMMAI. N	56	32						32	58							6	42	26	56	64	58	6	42	26
60	813818106063	NIGILESH. D	56	28						32	58							6	44	12	56	60	58	6	44	12
61	813818106064	NIKHIL RAJ. M	46	28						30	56							6	6	12	46	58	56	6	6	12
62	813818106065	NIRUBAN. J	58	32						32	56							2	8	4	58	64	56	2	8	4
63	813818106066	NITHISHA. U	60	30						32	48							8	26	32	60	62	48	8	26	32
64	813818106067	PAUL SNEKA. L	48	28						32	58							8	46	16	48	60	58	8	46	16
65	813818106068	PAVITRA. B	58	30						32	60							6	44	30	58	62	60	6	44	30
66	813818106069	POOJA. B	60	30						32	48							6	46	32	60	62	48	6	46	32
67	813818106070	POOJA. D	60	32						32	58							8	44	34	60	64	58	8	44	34
68	813818106071	POORNIMA. S	58	28						30	60							0	0	0	58	58	60	0	0	0
69	813818106072	PRAVEEN. D	58	32						34	60							4	48	10	58	66	60	4	48	10
70	813818106073	PREETHI. B	58	28						32	60							8	44	32	58	60	60	8	44	32
71	813818106074	PRIYA. S	58	28						32	62							8	46	30	58	60	62	8	46	30
72	813818106075	RAHUL. R	58	28						34	60							4	36	26	58	62	60	4	36	26
73	813818106076	RAJA LAKSHMI. P	48	28						32	60							8	44	12	48	60	60	8	44	12
74	813818106077	RATHNA. M	58	28						34	60							8	44	30	58	62	60	8	44	30
75	813818106078	RENULEKA. P	58	28						30	60							6	42	30	58	58	60	6	42	30
76	813818106079	RESHMA. E	58	30						32	48							8	26	26	58	62	48	8	26	26
77	813818106081	RITHIKAA. M	60	30						32	60							8	46	32	60	62	60	8	46	32
78	813818106082	RUBIGA. M	60	30						32	48							8	40	12	60	62	48	8	40	12
79	813818106083	SAAI RAMYA. B T	58	28						32	58							8	38	16	58	60	58	8	38	16
80	813818106084	SAKTHIVEL. S	48	28						22	58							8	40	6	48	50	58	8	40	6
81	813818106085	SANJAI. M	58	30						32	58							8	42	16	58	62	58	8	42	16
82	813818106086	SANTHOSH. N	40	32						32	48							4	12	22	40	64	48	4	12	22
83	813818106087	SANTHOSH. S	58	32						32	58							8	14	12	58	64	58	8	14	12
84	813818106088	SANTHOSH KUMAR. S	48	28						32	48							8	40	12	48	60	48	8	40	12
85	813818106089	SATHYA. B	58	30						32	58							8	38	14	58	62	58	8	38	14
86	813818106090	SHABBNA. K	56	30						32	58							8	24	28	56	62	58	8	24	28
87	813818106091	SHANGAVI. G	58	30						32	58							8	44	14	58	62	58	8	44	14
88	813818106092	SHANKAR. V	46	30						32	48							8	14	20	46	62	48	8	14	20
89	813818106093	SHARMILA R	58	30						32	60							2	22	22	58	62	60	2	22	22
90	813818106094	SHARMINI. S	58	32						32	58							8	42	28	58	64	58	8	42	28
91	813818106095	SHASINI. M	58	32						32	50							6	32	22	58	64	50	6	32	22
92	813818106096	SHREE. G K	58	30						32	60							8	42	14	58	62	60	8	42	14
93	813818106097	SINDHUJA. R	60	30						32	58							8	44	28	60	62	58	8	44	28
94	813818106098	SIVA GANESH. T	54	34						30	60							0	0	0	54	64	60	0	0	0
95	813818106099	SIVARAM. R	58	30						32	58							6	42	14	58	62	58	6	42	14
96	813818106100	SOFANA. M	56	34						32	56							6	48	28	56	66	56	6	48	28
97	813818106101	SREENITHI. C	56	30						32	60							6	42	28	56	62	60	6	42	28
98	813818106102	SRINITHI. S	58	32						32	60							8	38	14	58	64	60	8	38	14
99	813818106103	SRINIVASA GUPTA. M	56	30						22	58							4	20	6	56	52	58	4	20	6
100	813818106104	SUBASH. A	58	28						32	60							4	4	4	58	60	60	4	4	4
101	813818106105	SUBASRI. K	56	30						0	0							6	40	10	56	30	0	6	40	10
102	813818106106	SUJITH. K	46	28						32	38							6	10	10	46	60	38	6	10	10
103	813818106107	SURESH. R	58	28						32	60							6	22	18	58	60	60	6	22	18
104	813818106108	SWASTHIKA. R	58	28						32	60							8	36	22	58	60	60	8	36	22
105	813818106109	SWATHI. I R	58	30						32	58							8	44	12	58	62	58	8	44	12
106	813818106110	TEJASWINI. S	58	30						32	58							8	26	28	58	62	58	8	26	28
107	813818106111	THENMOZHI. A	58	30						32	48							6	26	14	58	62	48	6	26	14
108	813818106112	UMA. R	56	30						32	48							6	38	20	56	62	48	6	38	20
109	813818106113	VARADAKRISHNAN. B	46	30						32	58							0	0	0	46	62	58	0	0	0
110	813818106114	VARSHAA. M	58	30						32	58							6	24	12	58	62	58	6	24	12
111	813818106115	VASANTHAKUMAR. R	56	30						32	58							0	0	0	56	62	58	0	0	0
112	813818106116	VIBUSHITHA . M S	58	28						32	58							8	40	12	58	60	58	8	40	12
113	813818106117	AASATH KHAN. N	50	26						30	48							4	4	4	50	56	48	4	4	4
114	813818106301	ANANTHA KUMAR. M R	54	32						32	58							8	44	30	54	64	58	8	44	30
115	813818106302	GOKILA. V	54	32						30	52							6	28	36	54	62	52	6	28	36
116	813818106303	LOGA DASS. J	50	28						24	56							0	34	8	50	52	56	0	34	8

117	813818106501	SHANMUGASUNDARAM. R	46	26						32	42							0	0	0	46	58	42	0	0	0
118	813818106701	CATHERIN. J	52	34						34	60							6	42	34	52	68	60	6	42	34
119	813818106702	CHARUMATHI N. B	54	32						32	52							8	46	34	54	64	52	8	46	34
CO's Target Value																					41.60	46.80	41.60	5.20	33.80	26.00
No. of Student Secured above CO's Target value																					115	117	117	97	63	53
Percentage of Student Secured above Target																					96.64	98.32	98.32	81.51	52.94	44.54

SARANATHAN COLLEGE OF ENGINEERING, Tiruchirappalli - 620012

Department of B.E. Electronics and Communication Engineering

COURSE OUTCOME ATTAINMENT - UNIVERSITY EXAMINATION

COURSE CODE/TITLE	EC8702 AD HOC AND WIRELESS SENSOR NETWORKS	Batch 2018 - 2022
CO Attainment Level: 1 - (0% - 60%) 2- (61%-90%) 3-(91% and Above)		

S.NO	REG. NO.	NAME OF THE STUDENT	GRADE
1	813818106001	AAISHA THAHSEENA. M	A+
2	813818106002	ABDULLA. N	A+
3	813818106003	ABDUL RAHMAN. M	A+
4	813818106004	ABINAYA. S	O
5	813818106005	ABISHEK. M	A+
6	813818106006	AHILAN. C	A+
7	813818106007	AJAIPRAMOTH. A	A+
8	813818106008	AJAY. S	O
9	813818106009	AKSHAYA GODINA. D	A+
10	813818106010	ANTONY JOHN JASON. S	A+
11	813818106012	ATCHAYA. M	O
12	813818106013	ATCHAYA. R	A+
13	813818106014	ATHISANKAR. A	A+
14	813818106015	ATSHAYA. R	A+
15	813818106017	BANU PRIYA. B	O
16	813818106018	BAVITHRAN. G R	A+
17	813818106019	CAROLINE RUBY. S	A+
18	813818106020	CAVWIN DHEEPAK. R	B+
19	813818106021	CHARUDHARSHANA. M	A+
20	813818106022	DEVA DARSHINI. S	A+
21	813818106023	DHAARANI. B	O
22	813818106024	DHANAVIDHYA. G	A+
23	813818106025	DHANIYA LAKSHMI. J	O
24	813818106026	DILEEPAN. M	A+
25	813818106027	DINESH RAM. R	A
26	813818106028	DIRAVIDAMANI. M	A+
27	813818106029	DIVYA BHARATHI. S	A+
28	813818106030	DURGASRI. R	A+
29	813818106031	GOKULAKRISHNAN. M J	A
30	813818106033	IRFAN AHMED. I	A+
31	813818106034	JAIBALAJI. C	A+
32	813818106035	JANNIFER. D	A+
33	813818106036	JAYAPRIYA. M	O
34	813818106037	JAYASHREE. RI	A+
35	813818106038	JAYSHRINIVAAS. B	A+
36	813818106039	JERSON FENADICT ANDRO. A M	A+
37	813818106040	KADHIR MANI. S	O
38	813818106041	KAMALAKANNAN. K	A
39	813818106042	KARISHMA. G	A
40	813818106043	KARTHIGA DEVI. G	O
41	813818106044	KARTHIKEYAN. M M	A+
42	813818106045	KAVIMANI. A	O
43	813818106046	KAVIYA. S	O
44	813818106047	KAVYA. K S	O
45	813818106048	KEERTHANA. G.R	O
46	813818106049	KINGSLEY PATRICK JOY. J	O
47	813818106050	KISHORE. G	B+
48	813818106051	KRISHNA KUMAR. K	A
49	813818106052	KUMARAGURUPHARAN. S	A+
50	813818106053	KUMARESAN. A	A
51	813818106054	MADHESH. S	A+
52	813818106055	MADHUMITHA. J	O
53	813818106056	MANIKANDAN. R	A+
54	813818106057	MANODURGA. V	O
55	813818106058	MANOJKUMAR. S	A+
56	813818106059	MANOJ KUMAR A.	A+
57	813818106060	MOHAMED SHAFIQUR RAHMAN. J	A+
58	813818106061	MOHAMED UWAIS. K	A
59	813818106062	NAGAMMAI. N	O

60	813818106063	NIGILESH. D	A+
61	813818106064	NIKHIL RAJ. M	O
62	813818106065	NIRUBAN. J	A+
63	813818106066	NITHISHA. U	O
64	813818106067	PAUL SNEKA. L	O
65	813818106068	PAVITRA. B	O
66	813818106069	POOJA. B	A+
67	813818106070	POOJA. D	O
68	813818106071	POORNIMA. S	A+
69	813818106072	PRAVEEN. D	A+
70	813818106073	PREETHI. B	A+
71	813818106074	PRIYA. S	O
72	813818106075	RAHUL. R	A+
73	813818106076	RAJA LAKSHMI. P	A+
74	813818106077	RATHNA. M	O
75	813818106078	RENULEKA. P	O
76	813818106079	RESHMA. E	A+
77	813818106081	RITHIKAA. M	O
78	813818106082	RUBIGA. M	A+
79	813818106083	SAAI RAMYA. B T	A+
80	813818106084	SAKTHIVEL. S	A+
81	813818106085	SANJAI. M	A+
82	813818106086	SANTHOSH. N	A
83	813818106087	SANTHOSH. S	A+
84	813818106088	SANTHOSH KUMAR. S	O
85	813818106089	SATHYA. B	A+
86	813818106090	SHABBNA. K	A+
87	813818106091	SHANGAVI. G	O
88	813818106092	SHANKAR. V	A+
89	813818106093	SHARMILA R	O
90	813818106094	SHARMINI. S	A+
91	813818106095	SHASINI. M	A+
92	813818106096	SHREE. G K	A+
93	813818106097	SINDHUJA. R	O
94	813818106098	SIVA GANESH. T	A+
95	813818106099	SIVARAM. R	O
96	813818106100	SOFANA. M	A+
97	813818106101	SREENITHI. C	A+
98	813818106102	SRINITHI. S	A+
99	813818106103	SRINIVASA GUPTA. M	B+
100	813818106104	SUBASH. A	O
101	813818106105	SUBASRI. K	B
102	813818106106	SUJITH. K	A
103	813818106107	SURESH. R	A+
104	813818106108	SWASTHIKA. R	A+
105	813818106109	SWATHI. I R	A+
106	813818106110	TEJASWINI. S	A+
107	813818106111	THENMOZHI. A	A+
108	813818106112	UMA. R	A+
109	813818106113	VARADAKRISHNAN. B	A+
110	813818106114	VARSHAA. M	A+
111	813818106115	VASANTHAKUMAR. R	A+
112	813818106116	VIBUSHITHA . M S	A+
113	813818106117	AASATH KHAN. N	A+
114	813818106301	ANANTHA KUMAR. M R	A+
115	813818106302	GOKILA. V	A+
116	813818106303	LOGA DASS. J	A
117	813818106501	SHANMUGASUNDARAM. R	B+
118	813818106701	CATHERIN. J	A+
119	813818106702	CHARUMATHI N. B	A+
No. of S/O Grade			32
No. of A/A+ Grade			72
No. of B/A Grade			10
No. of C/B+ Grade			4
No. of D/B Grade			1
No. of E/B Grade			0
Target for course outcome Attainment			65

No of students above the target	118
CO-Attainment University	99.00

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
C404.1	96.64	99.00	98.06	81.51	94.75	3
C404.2	98.32	99.00	98.73	83.75	95.73	3
C404.3	98.32	99.00	98.73	85.15	96.01	3
C404.4	81.51	99.00	92.01	82.07	90.02	2
C404.5	52.94	99.00	80.58	85.15	81.49	2
C404.6	44.54	99.00	77.22	82.63	78.30	2

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PS02	PS03
C404.1	2	2	1	1	1	1	1	1		1	1	1	1	2	
C404.2	2	2	1	1	1	1	1	1		1	1	1	1	2	
C404.3	2	2	1	1	1	1	1	1		1	1	1	1	2	
C404.4	2	2	1	1	1	1	1	1		1	1	1	1	2	
C404.5	2	2	1	1	1	1	1	1		1	1	1	1	2	
C404.6	2	2	1	1	1	1	1	1		1	1	1	1	2	
C404	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	

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PS02	PS03
C404.1	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	
C404.2	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	
C404.3	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	
C404.4	1.33	1.33	0.67	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	0.67	1.33	
C404.6	1.33	1.33	0.67	0.67	0.67	0.67	0.67	0.67		0.67	0.67	0.67	0.67	1.33	
C404	1.67	1.67	0.83	0.83	0.83	0.83	0.83	0.83		0.83	0.83	0.83	0.83	1.67	

Print Report

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 2021 - 2022 / ODD Semester

COURSE CODE/TITLE	ELECTRONIC CIRCUITS- I	Batch	2020 - 2024
CLASS / SECTION	Sem 3 / ECE A & B		
COURSE COORDINATOR	Mr.S.Hariprasath / Dr.M.Baritha Begum		

COURSE OUTCOME	1	2	3	4	5	6
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 ALLOTED						IAT-2 MARKS ALLOTED						IAT-3 MARKS ALLOTED						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	C
			72	**28**						**40**	**60**							**60**	**40**		**10**					**10**	**82**	**68**	**60**	**60**	**40**	**1**
1	813820106001	ABINAYA. K	40	14						32	38							42	30		8						48	46	38	42	30	
2	813820106002	AKAASH. T U	26	4						24	16							30	30		8						34	28	16	30	30	
3	813820106003	AKSHARA. P	60	4						38	46							36	32		8						68	42	46	36	32	
4	813820106004	ALAGAMMAI. E	52	4						36	48							52	38		8						60	40	48	52	38	
5	813820106005	ANBARASU. J	46	4						18	2							40	20		8						54	22	2	40	20	
6	813820106006	ARAVIND. S	54	6						38	14							16	34		8						62	44	14	16	34	
7	813820106007	ARAVINDH. D	2	0						6	4							4	26		8						10	6	4	4	26	
8	813820106009	ARUN KUMAR. R	6	0						0	0							10	4		7						13	0	0	10	4	
9	813820106010	BAVAN. G N	14	0						8	8							6	20		7						21	8	8	6	20	
10	813820106011	CAROLINE BLESSY YOVAN	60	6						36	26							48	26		8						68	42	26	48	26	
11	813820106012	CHARIS BENITA. R E	42	10						26	40							46	24		7						49	36	40	46	24	
12	813820106013	DAMINI. N	52	20						32	50							54	36		8						60	52	50	54	36	
13	813820106014	DEEBIKSHA. D	62	14						0	0							56	34		8						70	14	0	56	34	
14	813820106015	DHARANIKA. S	30	14						32	32							56	34		8						38	46	32	56	34	
15	813820106016	DHINESH VEERAMANI. S M	4	0						0	0							0	0		8						12	0	0	0	0	
16	813820106017	DINESH KUMAR. D	4	0						0	0							6	0		7						11	0	0	6	0	
17	813820106018	GOWTHAM. P	44	6						28	36							44	20		7						51	34	36	44	20	
18	813820106019	GUGAN. S S	18	0						0	0							4	6		8						26	0	0	4	6	
19	813820106020	HARANI. M	62	4						38	52							48	30		8						70	42	52	48	30	
20	813820106021	HARIEESHPALANI. P.K	0	0						0	0							2	0		8						8	0	0	2	0	
21	813820106022	HARIHARAN. K	52	8						32	46							42	34		8						60	40	46	42	34	
22	813820106023	HARINI. K B	26	6						38	24							0	0		8						34	44	24	0	0	
23	813820106024	HARSIKA NIVASINI. R G	44	20						30	40							50	32		9						53	50	40	50	32	
24	813820106025	JAHEN. A	46	4						24	14							40	26		8						54	28	14	40	26	
25	813820106026	JANET PRISCILLA. A J	58	8						38	52							56	38		9						67	46	52	56	38	
26	813820106027	JAYAVARSHA. P	48	4						36	28							48	34		9						57	40	28	48	34	
27	813820106028	KABISH. M E	36	0						26	10							20	2		8						44	26	10	20	2	
28	813820106029	KAMALAKANNAN. T	16	0						0	0							2	0		7						23	0	0	2	0	
29	813820106030	KANNATHAL. S	20	0						30	32							34	36		7						27	30	32	34	36	
30	813820106031	KARTHIKA. M	60	24						38	46							56	38		9						69	62	46	56	38	
31	813820106032	KAVYALAKSHMI. S P	52	8						36	28							44	36		9						61	44	28	44	36	
32	813820106033	KEERTHANA. C	20	0						24	4							8	12		9						29	24	4	8	12	
33	813820106034	KISHORE BALAJI. G	6	0						24	26							42	30		8						14	24	26	42	30	
34	813820106035	KISHORE KUMAR. S	12	0						22	18							24	16		8						20	22	18	24	16	
35	813820106036	KRISHNA. R	16	0						0	0							4	2		8						24	0	0	4	2	
36	813820106037	LAKSHADHEEPA. C	18	2						18	54							42	36		8						26	20	54	42	36	
37	813820106038	LOGANATHAN. A	2	0						18	14							28	24		8						10	18	14	28	24	
38	813820106039	LOGESWARI. M	52	4						30	30							46	34		8						60	34	30	46	34	
39	813820106040	MITHRAN. J	42	4						34	52							26	34		8						50	38	52	26	34	
40	813820106041	MOHAMMED ARSHATH. S	50	14						34	40							50	38		8						58	48	40	50	38	
41	813820106042	MUHILAN. S	28	4						12	38							26	34		8						36	16	38	26	34	
42	813820106043	MUKILAN. S	68	22						38	54							54	38		9						77	60	54	54	38	
43	813820106044	NANDHA. S	46	4						28	28							42	32		8						54	32	28	42	32	
44	813820106045	NAVEEN. T	0	2						28	28							32	18		8						8	30	28	32	18	
45	813820106046	NICKSON BABU. I	20	0						24	14							38	12		8						28	24	14	38	12	
46	813820106047	NISHA. M	34	4						36	40							48	36		8						42	40	40	48	36	
47	813820106048	NITHYASREE. P V	46	4						38	44							34	34		8						54	42	44	34	34	
48	813820106049	NIVAEDHITHA. K V	42	12						36	40							46	34		8						50	48	40	46	34	
49	813820106050	NIVETHA. T	50	16						34	30							54	36		8						58	50	30	54	36	
50	813820106051	PARTHIBAN. B	52	4						32	20							34	22		8						60	36	20	34	22	
51	813820106052	PAVITHRA. R	42	12						30	26							54	34		8						50	42	26	54	34	
52	813820106053	POOVIZHI. N	34	4						16	36							6	18		8						42	20	36	6	18	

53	813820106054	PRABAKAR. T	28	10						30	22							34	22							9	28	40	22	34	22	
54	813820106055	PRABHA. K	42	8						32	28							42	28							10	42	40	28	42	28	
55	813820106057	PRAKASH. R	22	0						0	0							0	0							9	22	0	0	0	0	
56	813820106058	PRASANNA VENKATESH. K	46	8						20	28							30	20							9	46	28	28	30	20	
57	813820106059	RAHUL. M	4	0						36	32							16	4							9	4	36	32	16	4	
58	813820106060	RATHI AISHWARYA. G	60	4						0	0							0	0							10	60	4	0	0	0	
59	813820106061	RITUN SRINIVASAN. R G	24	4						20	32							20	14							9	24	24	32	20	14	
60	813820106062	ROSHNI. R	42	8						34	34							50	28							9	42	42	34	50	28	
61	813820106063	SADAM HUSSAIN. S	36	22						38	56							54	34							10	36	60	56	54	34	
62	813820106064	SADHANA. M	34	16						30	26							48	20							10	34	46	26	48	20	
63	813820106065	SANJAY. G	8	0						38	52							0	0							9	8	38	52	0	0	
64	813820106066	SANJAY. M	12	0						26	18							42	12							9	12	26	18	42	12	
65	813820106067	SAROJINI. B	32	18						0	0							52	36							10	32	18	0	52	36	
66	813820106068	SATHYA. N T	56	8						38	38							52	34							10	56	46	38	52	34	
67	813820106069	SELVA MARIYAPPAN. N S	32	4						20	30							0	0							10	32	24	30	0	0	
68	813820106070	SETHURAMALINGAM. K	24	10						2	44							10	12							9	24	12	44	10	12	
69	813820106071	SHAHIN SULAIMAN. M	0	8						28	8							22	28							10	0	36	8	22	28	
70	813820106072	SHAMITA. S	56	22						38	42							48	34							10	56	60	42	48	34	
71	813820106073	SHEELA ANGEL. S	68	26						38	56							46	36							10	68	64	56	46	36	
72	813820106074	SHIFANA RIFATH. A	66	20						36	54							34	34							9	66	56	54	34	34	
73	813820106075	SHRI SHABARISE. G	22	0						26	26							30	22							9	22	26	26	30	22	
74	813820106076	SHRUTHIKA. S	36	4						0	0							48	34							9	36	4	0	48	34	
75	813820106077	SIVAKUMAR. K	34	2						0	0							22	30							9	34	2	0	22	30	
76	813820106078	SIVARANJAN. B	64	10						34	42							44	20							9	64	44	42	44	20	
77	813820106079	SRIDHAR PRASAD. M N	38	22						28	28							34	34							10	38	50	28	34	34	
78	813820106080	SRIHARI. P	32	8						14	26							38	22							9	32	22	26	38	22	
79	813820106081	SRI ISWARYA. S S	44	6						20	46							30	34							10	44	26	46	30	34	
80	813820106082	SRINITHI. R	52	6						34	38							36	20							10	52	40	38	36	20	
81	813820106083	SRIRAM. S U	36	20						22	26							46	36							9	36	42	26	46	36	
82	813820106084	SRIRAM PRASATH. T	44	8						22	30							44	30							9	44	30	30	44	30	
83	813820106085	SRUTI. D	54	4						34	40							50	36							10	54	38	40	50	36	
84	813820106086	SUBASHREE. V S	62	4						30	48							42	28							10	62	34	48	42	28	
85	813820106087	SUBHASHREE. B	42	8						28	30							48	26							10	42	36	30	48	26	
86	813820106088	SUBHIKSHAA SURESH	56	22						28	30							46	36							10	56	50	30	46	36	
87	813820106089	SUDHARSAN. T	58	4						6	4							36	32							9	58	10	4	36	32	
88	813820106090	SUTHIKA. K	46	4						38	40							48	30							10	46	42	40	48	30	
89	813820106091	SWETHA. V	0	0						28	16							36	34							10	0	28	16	36	34	
90	813820106092	TAMILSELVAN. P A	30	4						24	12							28	24							9	30	28	12	28	24	
91	813820106093	TEENA MASCELIN. J	30	22						30	46							42	36							10	30	52	46	42	36	
92	813820106094	THARUNKUMAR. S	34	16						20	26							30	32							10	34	36	26	30	32	
93	813820106095	THAUFIQ AHMED. A M	42	22						30	52							50	34							10	42	52	52	50	34	
94	813820106096	VAANMARAI. S	68	26						38	48							50	34							10	68	64	48	50	34	
95	813820106097	VARNESHWARAN. K	24	8						14	14							16	24							9	24	22	14	16	24	
96	813820106098	VIGNESH. R	48	2						26	24							0	0							9	48	28	24	0	0	
97	813820106099	VIGNESH. T	46	4						28	22							36	36							10	46	32	22	36	36	
98	813820106100	VIGNESH SARAN. T	50	22						16	26							42	28							10	50	38	26	42	28	
99	813820106101	VISHNUPRIYA. H	30	20						0	0							20	24							9	30	20	0	20	24	
100	813820106102	VISHVAMAHARAJA. P	60	22						38	52							52	36							10	60	60	52	52	36	
101	813820106103	VISWA. V	32	0						12	30							0	0							9	32	12	30	0	0	
102	813820106104	VISWASH. S	58	4						36	46							38	36							10	58	40	46	38	36	
103	813820106105	YAHITHA. S	52	20						36	54							46	36							10	52	56	54	46	36	
104	813820106301	ARAVIND. M	38	12						0	0							34	12							9	38	12	0	34	12	
105	813820106302	KADHIRESH. S								4	4							2	8		8						8	4	4	2	8	
106	813820106303	RAJA. N M								4	4							4	4		7						7	4	4	4	4	
107	813820106304	SARAVANAKUMAR. T								0	0							0	8		7						7	0	0	0	8	
108	813820106305	SHIVADEVI. J								36	36							42	32							10		36	36	42	32	
CO's Target Value																											53.30	44.20	39.00	39.00	26.00	6
No. of Student Secured above CO's Target value																											34	23	33	52	60	1
Percentage of Student Secured above Target																											31.48	21.30	30.56	48.15	55.56	10

SARANATHAN COLLEGE OF ENGINEERING, Tiruchirappalli - 620012

Department of B.E. Electronics and Communication Engineering

COURSE OUTCOME ATTAINMENT - UNIVERSITY EXAMINATION

COURSE CODE/TITLE	EC8351 ELECTRONIC CIRCUITS- I	Batch	2020 - 2024
CO Attainment Level: 1 - (0% - 60%) 2- (61%-90%) 3-(91% and Above)			

S.NO	REG. NO.	NAME OF THE STUDENT	GRADE
1	813820106001	ABINAYA. K	A+
2	813820106002	AKAASH. T U	A+
3	813820106003	AKSHARA. P	A+
4	813820106004	ALAGAMMAI. E	A+
5	813820106005	ANBARASU. J	A+
6	813820106006	ARAVIND. S	A+
7	813820106007	ARAVINDH. D	A+
8	813820106009	ARUN KUMAR. R	A
9	813820106010	BAVAN. G N	A+
10	813820106011	CAROLINE BLESSY YOVAN	A+
11	813820106012	CHARIS BENITA. R E	A+
12	813820106013	DAMINI. N	A+
13	813820106014	DEEBIKSHA. D	A+
14	813820106015	DHARANIKA. S	O
15	813820106016	DHINESH VEERAMANI. S M	A+
16	813820106017	DINESH KUMAR. D	A+
17	813820106018	GOWTHAM. P	A+
18	813820106019	GUGAN. S S	A+
19	813820106020	HARANI. M	A+
20	813820106021	HARIEESHPALANI. P.K	B+
21	813820106022	HARIHARAN. K	A+
22	813820106023	HARINI. K B	A+
23	813820106024	HARSIKA NIVASINI. R G	O
24	813820106025	JAHEN. A	A
25	813820106026	JANET PRISCILLA. A J	O
26	813820106027	JAYAVARSHA. P	O
27	813820106028	KABISH. M E	A+
28	813820106029	KAMALAKANNAN. T	A+
29	813820106030	KANNATHAL. S	O
30	813820106031	KARTHIKA. M	O
31	813820106032	KAVYALAKSHMI. S P	A+
32	813820106033	KEERTHANA. C	A+
33	813820106034	KISHORE BALAJI. G	A+
34	813820106035	KISHORE KUMAR. S	A
35	813820106036	KRISHNA. R	A
36	813820106037	LAKSHADHEEPA. C	A+
37	813820106038	LOGANATHAN. A	A+
38	813820106039	LOGESWARI. M	A+
39	813820106040	MITHRAN. J	A+
40	813820106041	MOHAMMED ARSHATH. S	A+
41	813820106042	MUHILAN. S	A+
42	813820106043	MUKILAN. S	A+
43	813820106044	NANDHA. S	A+
44	813820106045	NAVEEN. T	A+
45	813820106046	NICKSON BABU. I	A
46	813820106047	NISHA. M	A+
47	813820106048	NITHYASREE. P V	A
48	813820106049	NIVAEDHITHA. K V	A+
49	813820106050	NIVETHA. T	O
50	813820106051	PARTHIBAN. B	A+
51	813820106052	PAVITHRA. R	A+
52	813820106053	POOVIZHI. N	A+
53	813820106054	PRABAKAR. T	A
54	813820106055	PRABHA. K	A+
55	813820106057	PRAKASH. R	A+
56	813820106058	PRASANNA VENKATESH. K	A+
57	813820106059	RAHUL. M	A+
58	813820106060	RATHI AISHWARYA. G	A+
59	813820106061	RITUN SRINIVASAN. R G	A+
60	813820106062	ROSHNI. R	O
61	813820106063	SADAM HUSSAIN. S	O
62	813820106064	SADHANA. M	A+
63	813820106065	SANJAY. G	A+
64	813820106066	SANJAY. M	A+

65	813820106067	SAROJINI. B	A+
66	813820106068	SATHYA. N T	A+
67	813820106069	SELVA MARIYAPPAN. N S	A+
68	813820106070	SETHURAMALINGAM. K	B
69	813820106071	SHAHIN SULAIMAN. M	A
70	813820106072	SHAMITA. S	A+
71	813820106073	SHEELA ANGEL. S	A+
72	813820106074	SHIFANA RIFATH. A	O
73	813820106075	SHRI SHABARISE. G	A+
74	813820106076	SHRUTHIKA. S	O
75	813820106077	SIVAKUMAR. K	A+
76	813820106078	SIVARANJAN. B	A+
77	813820106079	SRIDHAR PRASAD. M N	O
78	813820106080	SRIHARI. P	A+
79	813820106081	SRI ISWARYA. S S	A+
80	813820106082	SRINITHI. R	A+
81	813820106083	SRIRAM. S U	A+
82	813820106084	SRIRAM PRASATH. T	A+
83	813820106085	SRUTI. D	O
84	813820106086	SUBASHREE. V S	O
85	813820106087	SUBHASHREE. B	A+
86	813820106088	SUBHIKSHAA SURESH	A+
87	813820106089	SUDHARSAN. T	A+
88	813820106090	SUTHIKA. K	A+
89	813820106091	SWETHA. V	O
90	813820106092	TAMILSELVAN. P A	A+
91	813820106093	TEENA MASCELIN. J	O
92	813820106094	THARUNKUMAR. S	B+
93	813820106095	THAUFIQ AHMED. A M	A+
94	813820106096	VAANMARAI. S	O
95	813820106097	VARNESHWARAN. K	A+
96	813820106098	VIGNESH. R	A+
97	813820106099	VIGNESH. T	A+
98	813820106100	VIGNESH SARAN. T	A+
99	813820106101	VISHNUPRIYA. H	O
100	813820106102	VISHVAMAHARAJA. P	A+
101	813820106103	VISWA. V	A+
102	813820106104	VISWASH. S	A+
103	813820106105	YAHITHA. S	A+
104	813820106301	ARAVIND. M	A+
105	813820106302	KADHIRESH. S	A
106	813820106303	RAJA. N M	A+
107	813820106304	SARAVANAKUMAR. T	A
108	813820106305	SHIVADEVI. J	A+
No. of S/O Grade			18
No. of A/A+ Grade			77
No. of B/A Grade			10
No. of C/B+ Grade			2
No. of D/B Grade			1
No. of E/B Grade			0
Target for course outcome Attainment			65
No of students above the target			107
CO-Attainment University			99.00

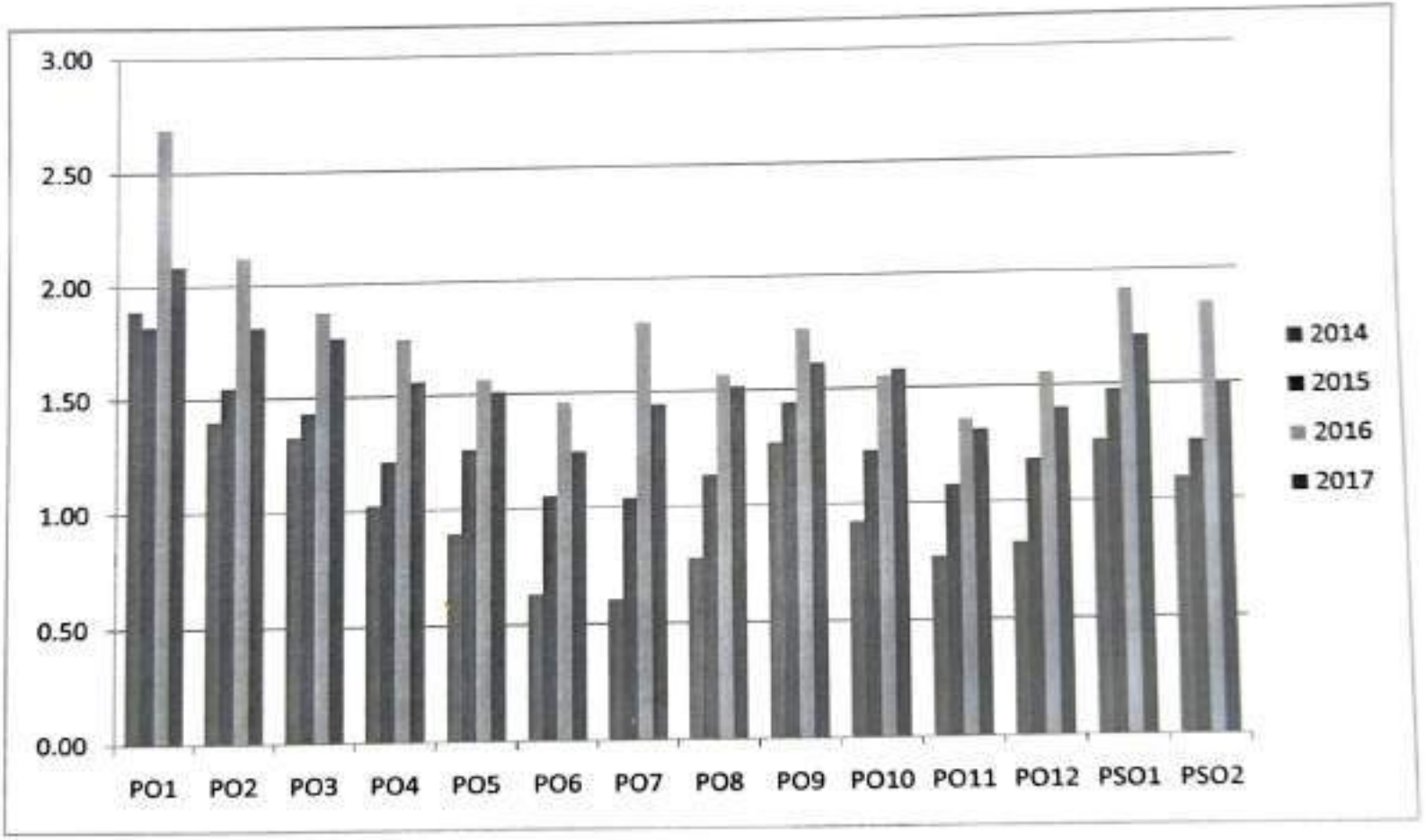
CO	CO-Attainment Internal (CO-INT) (Avg. Attainment of All section) (%)	CO-Attainment University (CO-UNI) (Avg. Attainment of All section) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI) (%)	Indirect CO Attainment (Course End Survey)	Over all CO Attainment (0.8xDirect + 0.2xIndirect) (%)	Over all CO Attainment Level
C203.1	31.48	99.00	71.99	81.48	73.89	2
C203.2	21.30	99.00	67.92	82.41	70.82	2
C203.3	30.56	99.00	71.62	82.10	73.72	2
C203.4	48.15	99.00	78.66	83.64	79.66	2
C203.5	55.56	99.00	81.62	83.64	82.03	2
C203.6	100.00	99.00	99.40	81.48	95.82	3

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PS02	PS03
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	
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	

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PS02	PS03
C203.1	1.33	1.33	1.33	0.67	1.33			0.67	0.67	0.67	0.67	1.33	1.33	0.67	
C203.2	1.33	1.33	1.33	0.67	1.33			0.67	0.67	0.67	0.67	1.33	1.33	0.67	
C203.3	1.33	1.33	1.33	0.67	1.33			0.67	0.67	0.67	0.67	1.33	1.33	0.67	
C203.4	1.33	1.33	1.33	0.67	1.33			0.67	0.67	0.67	0.67	1.33	1.33	0.67	
C203.5	1.33	1.33	1.33	0.67	1.33			0.67	0.67	0.67	0.67	1.33	1.33	0.67	
C203.6	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	1.44	1.44	1.44	0.72	1.44			0.72	0.72	0.72	0.72	1.44	1.44	0.72	

SARANATHAN COLLEGE OF ENGINEERING

DEPARTMENT OF INFORMATION TECHNOLOGY

Batchwise Consolidated Report with Graph for POs and PSOs

year	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
2014	1.89	1.40	1.33	1.02	0.89	0.63	0.60	0.78	1.27	0.93	0.77	0.82	1.26	1.09
2015	1.82	1.55	1.43	1.21	1.26	1.05	1.04	1.13	1.44	1.23	1.07	1.18	1.48	1.25
2016	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	2.08	1.81	1.76	1.56	1.51	1.24	1.44	1.52	1.61	1.58	1.31	1.40	1.71	1.50