SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

SUBJECT	DSDV	SUBJECT CODE	BEC 302

COURSE OUTCOME

- 1 To impart the concepts of simplifying Boolean expression using K-map techniques and Quine-McCluskey minimization techniques.
- 2 To impart the concepts of designing and analyzing combinational logic circuits.
- 3 To impart design methods and analysis of sequential logic circuits.
- 4To impart the concepts of Verilog HDL-data flow and behavioural models for the design of digital systems.

PROGRAM OUTCOMES

PO1 Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.

PO2 Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3 Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.

PO4 Conduct investigations of complex Problem: An ability to identify, formulate, comprehend, analyze, design synthesis of the information to solve complex engineering problems and provide valid conclusions.

PO5 Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex engineering activities.

PO6 The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.

PO7 Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9 Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10 Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.

PO11 Project management and finance: An ability to use the modern engineering tools, techniques, skills and management principles to do work as a member and leader in a team, to manage projects in multidisciplinary environments.

PO12 Life-long learning: A recognition of the need for, and an ability to engage in, to resolve contemporary issues and acquire lifelong learning.

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY				
FACULTY NAME	Dr. UMESHA G B				
BRANCH	ECE	ACADEMIC YEAR	2023-24		
COURSE	B.E	SEMESTER	III	SECTION	ECE
SUBJECT	DSDV	SUBJECT CODE	BEC 302		

CO & PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	2	-	-								
CO2	1	2										
CO3	1	1	1									
CO4	3	3	-	2								
AVERAGE	2	2.5	-	2								
OVERALL MAPPING OF SUBJECT												2.16

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO1
CO1	54.25%	1.08	1.08										
CO2	47.61%	0.47	0.95										
CO3	63.09%	0.63	0.63	0.63									
CO4	63.09%	1.89	1.89		1.26								
AVERAGE	57.01	1.01	1.13	0.63	1.26								
FINAL ATTAINMENT LEVEL													1.07

			BEC302		2023-2024 ODD				SEM: VI SEM		Di-UMESHA G B				DSDV												
						T1		T2		T3	IPCC,LAB & ASSIGNMENT 15/3						SEE MARKS					Final					
Roll No	USN	Name	T1(15)	T2(15)	T3(15)	CO1-20	CO2-10	CO3-10	CO4-10	CO5-10	CO1-7	CO2-7	CO3-7	CO4-7	CO5-7	80	CO1-10	CO2-10	CO3-10	CO4-10	CO5-10	CO1-46	CO2-36	CO3-36	CO4-26	CO5-26	TOTAL AVERAGE
1	1SI22EC001	ADITHYA [illegible]	14	0	5	14	0	0	2.5	2.5	7	7	7	7	7	20	4	4.2	4.2	4.2	4.2	25	11.2	11.2	13.7	13.7	14.96
2	1SV22EC002	ABHAY M. K.	6	12	9	0	6	6	4	4	7	7	7	7	7	31	6.2	4.2	4.2	4.2	4.2	19.2	17.2	17.2	19.2	19.2	15.28
3	1SV22EC003	[illegible]	13	14	9	15	7	7	0	0	7	7	7	7	7	28	5.2	4.2	4.2	4.2	4.2	27.2	18.2	18.2	11.2	11.2	16.4
4	1SV22EC004	[illegible]	13	14	10	15	7	7	7.5	7.5	7	7	7	7	7	44	8.8	4.2	4.2	4.2	4.2	30.8	18.2	18.2	18.7	18.7	18.06
5	1SV22EC005	[illegible]	13	13	11	10	7.5	7.5	6.5	6.5	7	7	7	7	7	18	3.6	4.2	4.2	4.2	4.2	23.6	18.7	18.7	17.7	17.7	20.3
6	1SV22EC006	[illegible]	13	13	11	15	7.5	7.5	7.5	7.5	7	7	7	7	7	31	6.2	4.2	4.2	4.2	4.2	29.2	18.7	18.7	18.7	18.7	20.14
7	1SV22EC007	[illegible]	13	13	8	15	8.5	8.5	4	4	7	7	7	7	7	18	3.6	4.2	4.2	4.2	4.2	25.6	17.7	17.7	13.7	13.7	19.44
8	1SV22EC008	[illegible]	7	12	9	5	6	6	0	0	7	7	7	7	7	19	3.8	4.2	4.2	4.2	4.2	15.8	17.2	17.2	11.2	11.2	16.4
9	1SV22EC009	[illegible]	15	15	15	15	7.5	7.5	7.5	7.5	7	7	7	7	7	29	4.6	4.2	4.2	4.2	4.2	26.6	18.7	18.7	18.7	18.7	17.4
11	1SV22EC011	[illegible]	13	9	7	11	4	4	1.5	1.5	7	7	7	7	7	13	2.6	4.2	4.2	4.2	4.2	20.6	15.2	15.2	12.7	12.7	13.28
12	1SV22EC012	[illegible]	13	13	11	15	7.5	7.5	7.5	7.5	7	7	7	7	7	33	6.6	4.2	4.2	4.2	4.2	28.6	18.7	18.7	18.7	18.7	17.98
13	1SV22EC013	[illegible]	13	14	7	13	7	7	3.5	3.5	7	7	7	7	7	8	1.2	4.2	4.2	4.2	4.2	21.2	18.2	18.2	14.7	14.7	19.04
14	1SV22EC014	[illegible]	13	13	11	15	7.5	7.5	7.5	7.5	7	7	7	7	7	34	6.8	4.2	4.2	4.2	4.2	28.8	18.7	18.7	18.7	18.7	15.06
15	1SV22EC015	[illegible]	13	14	13	15	7	7	7	7	7	7	7	7	7	33	6.6	4.2	4.2	4.2	4.2	28.6	18.2	18.2	18.2	18.2	20.5
16	1SV22EC016	[illegible]	13	14	13	15	7	7	7.5	7.5	7	7	7	7	7	19	3.8	4.2	4.2	4.2	4.2	25.8	18.2	18.2	18.7	18.7	20.5
17	1SV22EC017	[illegible]	13	13	13	15	7.5	7.5	7.5	7.5	7	7	7	7	7	30	7.8	4.2	4.2	4.2	4.2	28.8	18.7	18.7	18.7	18.7	20.42
18	1SV22EC018	[illegible]	11	13	9	11	6.5	6.5	4.5	4.5	7	7	7	7	7	20	4	4.2	4.2	4.2	4.2	22	17.2	17.2	15.7	15.7	19.94
19	1SV22EC019	[illegible]	12	14	11	12	7	7	7.5	7.5	7	7	7	7	7	34	6.8	4.2	4.2	4.2	4.2	25.8	18.2	18.2	18.7	18.7	18.86
20	1SV22EC020	[illegible]	13	13	14	15	7.5	7.5	7	7	7	7	7	7	7	21	4.2	4.2	4.2	4.2	4.2	26.2	18.7	18.7	18.2	18.2	19.86
21	1SV22EC021	[illegible]	13	13	11	15	7.5	7.5	6.5	6.5	7	7	7	7	7	45	9	4.2	4.2	4.2	4.2	31	18.7	18.7	17.7	17.7	20.38
22	1SV22EC022	[illegible]	12	9	9	12	4.5	4.5	4.5	4.5	7	7	7	7	7	18	3.6	4.2	4.2	4.2	4.2	22.6	15.7	15.7	15.7	15.7	18.92
23	1SV22EC023	[illegible]	13		11	15	0	0	7.5	7.5	7	7	7	7	7	26	5.2	4.2	4.2	4.2	4.2	27.2	11.2	11.2	18.7	18.7	17.24
24	1SV22EC024	[illegible]	9	13	9	9	6.5	6.5	2.5	2.5	7	7	7	7	7	28	5.6	4.2	4.2	4.2	4.2	21.6	17.7	17.7	13.7	13.7	17.24
25	1SV22EC025	[illegible]	13	13	11	15	7.5	7.5	7.5	7.5	7	7	7	7	7	31	6.2	4.2	4.2	4.2	4.2	26.2	18.7	18.7	18.7	18.7	18.74
26	1SV22EC026	[illegible]	10	10	10	10	5	5	5	5	7	7	7	7	7	18	3.6	4.2	4.2	4.2	4.2	20.6	16.2	16.2	16.2	16.2	18.84
27	1SV22EC027	[illegible]	13	13	11	15	7.5	7.5	7.5	7.5	7	7	7	7	7	26	5.2	4.2	4.2	4.2	4.2	27.2	18.7	18.7	18.7	18.7	18.74
28	1SV22EC028	[illegible]	13	13	11	15	7.5	7.5	7.5	7.5	7	7	7	7	7	27	5.4	4.2	4.2	4.2	4.2	27.4	18.7	18.7	18.7	18.7	20.42
29	1SV22EC030	[illegible]	12	11	9	12	7.5	7.5	6	6	7	7	7	7	7	18	3.6	4.2	4.2	4.2	4.2	22.6	18.7	18.7	11.2	11.2	18.46
30	1SV22EC031	[illegible]	13	13	11	13	7.5	7.5	7.5	7.5	7	7	7	7	7	29	5.8	4.2	4.2	4.2	4.2	27.8	18.7	18.7	18.7	18.7	18.5
31	1SV22EC032	[illegible]	13	12	10	15	8	8	0	0	7	7	7	7	7	29	5.8	4.2	4.2	4.2	4.2	27.8	17.2	17.2	11.2	11.2	18.73
32	1SV22EC033	[illegible]	13	13	11	15	7.5	7.5	6.5	6.5	7	7	7	7	7	31	6.2	4.2	4.2	4.2	4.2	28.2	18.7	18.7	17.7	17.7	18.56
33	1SV22EC034	[illegible]	14	12	9	14	6	6	4.5	4.5	7	7	7	7	7	18	3.6	4.2	4.2	4.2	4.2	24.6	17.2	17.2	15.7	15.7	18.14
34	1SV22EC035	[illegible]	13	14	11	15	7	7	7	7	7	7	7	7	7	29	5.8	4.2	4.2	4.2	4.2	27.8	18.2	18.2	18.2	18.2	19.1
35	1SV22EC037	[illegible]	13	13	11	15	7.5	7.5	7.5	7.5	7	7	7	7	7	27	5.4	4.2	4.2	4.2	4.2	27.4	18.7	18.7	18.7	18.7	20.28
36	1SV22EC038	[illegible]	11	14	11	11	7	7	6	6	7	7	7	7	7	28	7.6	4.2	4.2	4.2	4.2	25.6	18.2	18.2	17.2	17.2	19.08727
37	1SV22EC039	[illegible]	8	10	11	8	5	5	5.5	5.5	7	7	7	7	7	20	4	4.2	4.2	4.2	4.2	19	16.2	16.2	16.7	16.7	18.12
38	1SV22EC040	[illegible]	13	13	11	15	7.5	7.5	7.5	7.5	7	7	7	7	7	35	7	4.2	4.2	4.2	4.2	29	18.7	18.7	18.7	18.7	18.86
39	1SV22EC041	[illegible]	13	13	11	15	7.5	7.5	7.5	7.5	7	7	7	7	7	27	5.4	4.2	4.2	4.2	4.2	27.4	18.7	18.7	18.7	18.7	20.8
40	1SV22EC042	[illegible]	6	6	10	6	3	3	3	3	7	7	7	7	7	3	0.6	4.2	4.2	4.2	4.2	13.6	14.2	14.2	16.2	16.2	17.66
41	1SV22EC043	[illegible]	13	13	10	15	7.5	7.5	7.5	7.5	7	7	7	7	7	30	6	4.2	4.2	4.2	4.2	28	18.7	18.7	18.7	18.7	17.72
42	1SV22EC045	[illegible]	13	13	11	13	6.5	6.5	6	6	7	7	7	7	7	26	5.2	4.2	4.2	4.2	4.2	25.2	17.7	17.7	17.2	17.2	19.78
43	1SV22EC046	[illegible]	14	12	10	14	8	8	5	5	7	7	7	7	7	18	3.6	4.2	4.2	4.2	4.2	24.6	17.2	17.2	16.2	16.2	18.64
44	1SV22EC047	[illegible]	13	10	11	15	8	5	5.5	5.5	7	7	7	7	7	14	2.8	4.2	4.2	4.2	4.2	24.8	16.2	16.2	16.7	16.7	18.2
45	1SV22EC401	[illegible]	10	0	7	10	0	0	3.5	3.5	7	7	7	7	7	25	5	4.2	4.2	4.2	4.2	22	11.2	11.2	14.7	14.7	16.44
46	1SV22EC402	[illegible]	14	0	9	14	0	0	0	0	7	7	7	7	7	15	3	4.2	4.2	4.2	4.2	24	11.2	11.2	11.2	11.2	14.26
47	1SV22EC403	[illegible]	13	13	11	15	7.5	7.5	6	6	7	7	7	7	7	10	2	4.2	4.2	4.2	4.2	24	18.7	18.7	17.2	17.2	17.972
48	1SV22EC016	[illegible]	9	11	7	9	5.5	5.5	3.5	3.5	7	7	7	7	7	9	1.8	4.2	4.2	4.2	4.2	17.8	16.7	16.7	14.7	14.7	17.64
	1SV22EC400	[illegible]	10	4	4	10	2	2	2	2	7	7	7	7	7	25	5	4.2	4.2	4.2	4.2	22	13.2	13.2	13.2	13.2	15.54
49	1SV22EC401	[illegible]	20	5	5	20	2.5	2.5	2.5	2.5	7	7	7	7	7	7	1.4	4.2	4.2	4.2	4.2	28.4	13.7	13.7	13.7	13.7	15.90667
																						24.9551	17.13878	17.13878	16.40408	16.40408	
																						54.25%	47.61%	47.61%	63.09%	63.09%	

HOD
Dept of E&C
SIET, Tumkur-8

PRINCIPAL
SIET, TUMKUR.

COURSE INSTRUCTOR HOD PRINCIPAL

SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

SUBJECT	ELECTRONIC PRINCIPLES AND CIRCUITS	SUBJECT CODE	BEC 303

COURSE OUTCOME

- CO1 Design and analyse the BJT circuits as an amplifier and voltage regulation.
- CO2 Design of MOSFET Amplifiers and analyse the basic amplifier configurations using small signal equivalent circuit models
- CO3 Design of operational amplifiers circuits as Comparators, DAC and filters.
- CO4 Understand the concept of positive and negative feedback.
- CO5 Analyze Power amplifier circuits in different modes of operation.

PROGRAM OUTCOMES

PO1 Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.

PO2 Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3 Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.

PO4 Conduct investigations of complex Problem: An ability to identify, formulate, comprehend, analyze, design synthesis of the information to solve complex engineering problems and provide valid conclusions.

PO5 Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex engineering activities.

PO6 The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.

PO7 Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9 Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10 Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.

PO11 Project management and finance: An ability to use the modern engineering tools, techniques, skills and management principles to do work as a member and leader in a team, to manage projects in multidisciplinary environments.

PO12 Life-long learning: A recognition of the need for, and an ability to engage in, to resolve contemporary issues and acquire lifelong learning.

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	PROF.ROOPA T C											
BRANCH	ECE			ACADEMIC YEAR			2023-24					
COURSE	B.E	SEMESTER	III	SECTION	ECE							
SUBJECT	EPC					SUBJECT CODE	BEC 303					
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	2	-	-								
CO2	1	2										
CO3	1	1	1									
CO4	2	3	-	2								
CO5	2	3		3								
AVERAGE	1.6	2.2	1	2.5								
											OVERALL MAPPING OF SUBJECT	1.82

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO1
CO1	84.57	1.32	1.32	-	-								
CO2	61.18	0.61	1.22										
CO3	61.18	0.61	0.61	0.61									
CO4	75.23	1.50	2.25	-	1.22								
CO5	75.23	1.50	2.25		2.25								
AVERAGE	63.7	1.32	1.53	0.61	1.15								
												FINAL ATTAINMENT LEVEL	1.15

			BEE 303		2023-2024 ODD			SEM : III SEM		PROF. ROOPA T C				ELECTRONICS PRINCIPLES AND CIRCUITS										
						T1	T2		T3		ASSIGNMENT and Quiz 25/5						SEE MARKS					Final				
Roll No	USN	Name	T1(25)	T2(25)	T3(25)	CO1-20	CO2-10	CO3-10	CO4-10	CO5-10	CO1-8	CO2-8	CO3-8	CO4-8	CO5-8	50	CO1-10	CO2-10	CO3-10	CO4-10	CO5-10	CO1-40	CO2-20	CO3-20	CO4-20	CO5-20	TOTAL AVERAGE
1	1SV22EC001	ABHIJITH S [illegible]	13	6	25	13	0	0	10.5	10.5	8	8	8	8	8	9	1.8	1.8	1.8	0.36	0.36	20.8	7.8	7.8	16.86	16.86	14.034
2	1SV22EC002	ABHILASH K	14	14	0	14	7	7	0	0	8	8	8	8	8	16	3.6	3.6	3.6	4.2	4.2	23.6	16.6	16.6	10.2	10.2	14.752
3	1SV22EC003	ADVAITH [illegible]	13	14	0	15	7	7	0	0	8	8	8	8	8	19	3.8	3.8	3.8	4.2	4.2	24.8	16.8	16.8	10.2	10.2	15.8
4	1SV22EC004	BHAVANA T N	15	13	27	15	7.5	7.5	12.5	12.5	8	8	8	8	8	18	3.6	3.6	3.6	4.2	4.2	24.6	17.1	17.1	22.7	22.7	18.1
5	1SV22EC005	CHAITHANYA HS	17	13	23	15	7.5	7.5	12.5	12.5	8	8	8	8	8	23	4.6	4.6	4.6	4.2	4.2	25.6	18.1	18.1	22.7	22.7	21.14
6	1SV22EC006	[illegible] K E	13	13	23	15	7.5	7.5	12.5	12.5	8	8	8	8	8	20	5	5	5	4.2	4.2	29	18.5	18.5	22.7	22.7	21.54
7	1SV22EC007	[illegible]	14	13	0	14	6.5	6.5	0	0	8	8	8	8	8	19	3.8	3.8	3.8	4.2	4.2	23.8	16.3	16.3	10.2	10.2	18.12
8	1SV22EC008	[illegible]	9	9	0	9	4.5	4.5	0	0	8	8	8	8	8	3	0.6	0.6	0.6	4.2	4.2	15.6	11.1	11.1	10.2	10.2	13.5
9	1SV22EC009	[illegible]	13	13	23	15	7.5	7.5	12.5	12.5	8	8	8	8	8	27	5.4	5.4	5.4	4.2	4.2	26.4	18.9	18.9	22.7	22.7	18.78
11	1SV22EC010	[illegible]	8	8	19	8	4	4	9.5	9.5	8	8	8	8	8	7	1.4	1.4	1.4	4.2	4.2	25.4	11.4	11.4	19.7	19.7	15.52
12	1SV22EC011	[illegible]	13	13	23	15	7.5	7.5	12.5	12.5	8	8	8	8	8	21	4.2	4.2	4.2	4.2	4.2	25.2	17.7	17.7	22.7	22.7	18.96
13	1SV22EC012	[illegible]	14	11	11	14	5.5	5.5	5.5	5.5	8	8	8	8	8	4	0.8	0.8	0.8	4.2	4.2	20.8	12.3	12.3	15.7	15.7	14.28
14	1SV22EC013	[illegible]	10	13	23	10	7.5	7.5	12.5	12.5	8	8	8	8	8	18	3.6	3.6	3.6	4.2	4.2	23.6	17.1	17.1	22.7	22.7	17.6
15	1SV22EC014	[illegible]	13	14	23	15	7	7	11.5	11.5	8	8	8	8	8	8	1.6	1.6	1.6	4.2	4.2	22.6	14.6	14.6	21.7	21.7	19.44
16	1SV22EC015	[illegible]	13	13	23	15	7.5	7.5	12.5	12.5	8	8	8	8	8	8	1.6	1.6	1.6	4.2	4.2	22.6	15.1	15.1	22.7	22.7	19.34
17	1SV22EC017	[illegible]	14	13	23	14	7.5	7.5	12.5	12.5	8	8	8	8	8	24	4.8	4.8	4.8	4.2	4.2	24.8	18.3	18.3	22.7	22.7	20.5
18	1SV22EC018	[illegible]	14	14	21	14	7	7	10.5	10.5	8	8	8	8	8	18	3.6	3.6	3.6	4.2	4.2	23.6	16.6	16.6	20.7	20.7	20.5
19	1SV22EC019	[illegible]	13	13	23	15	7.5	7.5	12.5	12.5	8	8	8	8	8	26	5.2	5.2	5.2	4.2	4.2	26.2	18.7	18.7	22.7	22.7	20.72
20	1SV22EC020	[illegible]	14	14	23	14	7	7	11.5	11.5	8	8	8	8	8	20	4	4	4	4.2	4.2	24	17	17	21.7	21.7	21.04
21	1SV22EC021	[illegible]	14	14	20	14	7	7	12.5	12.5	8	8	8	8	8	11	2.2	2.2	2.2	4.2	4.2	22.2	15.2	15.2	22.7	22.7	19.94
22	1SV22EC022	[illegible]	11	7	14	15	3.5	3.5	7	7	8	8	8	8	8	11	2.2	2.2	2.2	4.2	4.2	23.2	11.7	11.7	17.2	17.2	17.9
23	1SV22EC023	[illegible]	13	13	19	15	7.5	7.5	12.5	12.5	8	8	8	8	8	27	5.4	5.4	5.4	4.2	4.2	26.4	18.9	18.9	22.7	22.7	19.06
24	1SV22EC024	[illegible]	8	13	20	8	7.5	7.5	10	10	8	8	8	8	8	19	3.8	3.8	3.8	4.2	4.2	17.8	17.3	17.3	20.2	20.2	20.24
25	1SV22EC025	[illegible]	14	13	25	14	7.5	7.5	12.5	12.5	8	8	8	8	8	28	5.6	5.6	5.6	4.2	4.2	25.6	19.1	19.1	22.7	22.7	20.2
26	1SV22EC026	[illegible]	14	12	21	14	6	6	10.5	10.5	8	8	8	8	8	13	2.6	2.6	2.6	4.2	4.2	22.6	14.6	14.6	20.7	20.7	20.24
27	1SV22EC028	[illegible]	13	13	19	15	7.5	7.5	12.5	12.5	8	8	8	8	8	25	5	5	5	4.2	4.2	26	18.5	18.5	22.7	22.7	20.16
28	1SV22EC029	[illegible]	13	13	24	15	7.5	7.5	12	12	8	8	8	8	8	20	4	4	4	4.2	4.2	25	17.5	17.5	22.2	22.2	21.28
29	1SV22EC030	[illegible]	14	14	9	14	7	7	0	0	8	8	8	8	8	18	3.6	3.6	3.6	4.2	4.2	23.6	16.6	16.6	10.2	10.2	18.16
30	1SV22EC031	[illegible]	14	13	19	14	7.5	7.5	12.5	12.5	8	8	8	8	8	18	3.6	3.6	3.6	4.2	4.2	23.6	17.3	17.3	22.7	22.7	18.1
31	1SV22EC032	[illegible]	14	13	19	14	7.5	7.5	12.5	12.5	8	8	8	8	8	20	4	4	4	4.2	4.2	24	17.5	17.5	21.7	22.7	20.82
32	1SV22EC033	[illegible]	13	14	19	15	7	7	12.5	12.5	8	8	8	8	8	37	7.4	7.4	7.4	4.2	4.2	28.4	20.4	20.4	22.7	22.7	21.9
33	1SV22EC034	[illegible]	14	14	20	14	7	7	10	10	8	8	8	8	8	13	2.6	2.6	2.6	4.2	4.2	22.6	15.6	15.6	20.2	20.2	20.88
34	1SV22EC035	[illegible]	15	15	19	15	7.5	7.5	12.5	12.5	8	8	8	8	8	18	3.6	3.6	3.6	4.2	4.2	24.6	17.1	17.1	22.7	22.7	19.84
35	1SV22EC037	[illegible]	13	14	21	15	7	7	12.5	12.5	8	8	8	8	8	18	3.6	3.6	3.6	4.2	4.2	24.6	16.6	16.6	22.7	22.7	20.74
36	1SV22EC038	[illegible]	14	13	19	14	6.5	6.5	12.5	12.5	8	8	8	8	8	25	5	5	5	4.2	4.2	25	17.5	17.5	22.7	22.7	20.23636
37	1SV22EC039	[illegible]	13	14	19	15	7	7	6.5	6.5	8	8	8	8	8	4	0.8	0.8	0.8	4.2	4.2	21.8	13.8	13.8	16.7	16.7	18.82
38	1SV22EC040	[illegible]	13	13	21	15	6.5	6.5	12.5	12.5	8	8	8	8	8	27	5.4	5.4	5.4	4.2	4.2	26.4	17.9	17.9	22.7	22.7	19.04
39	1SV22EC041	[illegible]	13	13	20	15	7.5	7.5	12.5	12.5	8	8	8	8	8	18	3.6	3.6	3.6	4.2	4.2	24.6	17.1	17.1	22.7	22.7	21.18
40	1SV22EC042	[illegible]	4	3	17	4	1.5	1.5	8.5	8.5	8	8	8	8	8	10	2	2	2	4.2	4.2	12	9.5	9.5	18.7	18.7	17.26
41	1SV22EC043	[illegible]	13	13	20	15	7.5	7.5	12.5	12.5	8	8	8	8	8	21	4.2	4.2	4.2	4.2	4.2	25.2	17.7	17.7	22.7	22.7	17.44
42	1SV22EC063	[illegible]	12	14	19	12	7	7	12	12	8	8	8	8	8	19	3.8	3.8	3.8	4.2	4.2	21.8	16.8	16.8	22.2	22.2	20.58
43	1SV22EC046	[illegible]	13	12	20	13	6	6	10	10	8	8	8	8	8	12	2.4	2.4	2.4	4.2	4.2	21.4	14.4	14.4	20.2	20.2	19.04
44	1SV22EC047	[illegible]	14	14	20	14	7	7	10	10	8	8	8	8	8	18	3.6	3.6	3.6	4.2	4.2	23.6	16.6	16.6	20.2	20.2	18.78
45	1SV23EC401	[illegible]	0	7	20	0	3.5	3.5	8	8	8	8	8	8	8	21	4.2	4.2	4.2	4.2	4.2	30.2	13.7	13.7	15.2	15.2	16.52
46	1SV23EC402	[illegible]	0	13	8	0	6.5	6.5	0	0	8	8	8	8	8	7	1.4	1.4	1.4	4.2	4.2	7.4	13.9	13.9	10.2	10.2	12.36
47	1SV23EC403	[illegible]	13	13	21	15	7.5	7.5	12.5	12.5	8	8	8	8	8	19	3.8	3.8	3.8	4.2	4.2	24.8	17.3	17.3	22.7	22.7	18.04
48	1SV23EC404	[illegible]	14	13	14	14	6.5	6.5	7	7	8	8	8	8	8	5	1	1	1	4.2	4.2	21	13.5	13.5	17.2	17.2	18.72
	1SV23EC400	[illegible]	0	10	19	0	5	5	7.5	7.5	8	8	8	8	8	8	1.6	1.6	1.6	4.2	4.2	7.6	12.6	12.6	17.7	17.7	15.06
49	1SV23EC405	[illegible]	0	10	9	0	5	5		0	8	8	8	8	8	11	2.2	2.2	2.2	4.2	4.2	8.2	13.2	13.2	10.2	10.2	13.70667
																						21.98776	15.90612	15.90612	19.56041	19.56041	
																						84.57%	61.18%	61.18%	75.23%	75.23%	

COURSE INSTRUCTOR

HOD

Dept of E&C

SIET, Tumkur

PRINCIPAL

PRINCIPAL

SIET, TUMKUR

SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

SUBJECT	NETWORK ANALYSIS	SUBJECT CODE	BEC 304

COURSE OUTCOME

1. Apply mesh and nodal techniques to solve an electrical network.
2. Solve different problems related to Electrical circuits using Network Theorems and Two port network.
3. Familiarize with the use of Laplace transforms to solve network problems.
4. Study two port network parameters and their applications.
5. Study of RLC Series and parallel tuned circuit.

PROGRAM OUTCOMES

PO1 Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.

PO2 Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3 Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.

PO4 Conduct investigations of complex Problem: An ability to identify, formulate, comprehend, analyze, design synthesis of the information to solve complex engineering problems and provide valid conclusions.

PO5 Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex engineering activities.

PO6 The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.

PO7 Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9 Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10 Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.

PO11 Project management and finance: An ability to use the modern engineering tools, techniques, skills and management principles to do work as a member and leader in a team, to manage projects in multidisciplinary environments.

PO12 Life-long learning: A recognition of the need for, and an ability to engage in, to resolve contemporary issues and acquire lifelong learning.

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	PROF.MALLIKARJUN Y P											
BRANCH	ECE			ACADEMIC YEAR			2023-24					
COURSE	B.E	SEMESTER	III	SECTION	ECE							
SUBJECT	NT			SUBJECT CODE	BEC 304							
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	2	-	-								
CO2	2	2	2									
CO3	1	1	1									
CO4	2	3	-	2								
CO5	2		2									
AVERAGE	1.75	2	1.5	2								
OVERALL MAPPING OF SUBJECT												1.81

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	61.43	1.22	1.22										
CO2	60.31	1.20	1.20	1.20									
CO3	60.29	0.60	0.60	0.60									
CO4	75.71	1.51	2.27	-	1.51								
CO5	75.71	1.51		1.50									
AVERAGE	63.7	1.20	1.32	1.1	1.51								
FINAL ATTAINMENT LEVEL													1.28

			BEC304		2023-2024 ODD			SEM III SEM		PROF. MALLIKARJUN Y P			Network theory												
			T1			T2		T3		ASSIGNMENT and Quiz :30/3						SEE MARKS					Final					
Roll No.	USN	Name	T1(20)	T2(20)	T3(20)	CO1-20	CO2-10	CO3-10	CO4-10	CO5-10	CO1-6	CO2-6	CO3-6	CO4-6	CO5-6	50	CO1-10	CO2-10	CO3-10	CO4-10	CO5-10	CO1-40	CO2-26	CO3-26	CO4-26	CO5-26	TOTAL AVERAGE
1	1SV22EC001	ADITYA [illegible]	15	0	10	25	0	0	6	6	6	6	6	6	6	5	1	0.2	0	0	0	32	8.2	6	14	14	14.44
2	1SV22EC002	ADHILA M K	0	22	23	0	11	11	12.5	12.5	6	6	6	6	6	10	3.8	4.2	4.2	4.2	4.2	9.6	21.2	21.2	22.7	22.7	16.96
3	1SV22EC003	AVANTHIKA SP [illegible]	20	24	0	20	12	12	0	0	6	6	6	6	6	10	3.8	4.2	4.2	4.2	4.2	29.8	22.2	22.2	10.2	10.2	19.2
4	1SV22EC004	BHUVAN K S	23	23	23	23	12.5	12.5	12.5	12.5	6	6	6	6	6	10	3.8	4.2	4.2	4.2	4.2	32.8	22.7	22.7	22.7	22.7	21.8
5	1SV22EC005	CHANDANA HS	22	24	24	22	12	12	12	12	6	6	6	6	6	7	1.4	4.2	4.2	4.2	4.2	29.4	22.2	22.2	22.2	22.2	24.16
6	1SV22EC006	CHANDAN K R	25	25	25	25	12.5	12.5	12.5	12.5	6	6	6	6	6	28	5.2	4.2	4.2	4.2	4.2	36.2	22.7	22.7	22.7	22.7	24.52
7	1SV22EC007	DARSHAN R	25	24	0	25	12	12	0	0	6	6	6	6	6	10	2	4.2	4.2	4.2	4.2	33	22.2	22.2	10.2	10.2	22.44
8	1SV22EC008	D C DHANUSH GR	22	22	0	22	11	11	0	0	6	6	6	6	6	5	1	4.2	4.2	4.2	4.2	29	21.2	21.2	10.2	10.2	18.96
9	1SV22EC009	DEEPTHAVEGOWDA M	17	24	25	17	12	12	12.5	12.5	6	6	6	6	6	18	3.6	4.2	4.2	4.2	4.2	26.6	22.2	22.2	22.7	22.7	20.82
11	1SV22EC010	DOOTHAM AI	19	19	21	19	9.5	9.5	10.5	10.5	6	6	6	6	6	2	0.4	4.2	4.2	4.2	4.2	25.4	19.7	19.7	20.7	20.7	21.34
12	1SV22EC011	GREESHMA G	23	23	23	25	12.5	12.5	12.5	12.5	6	6	6	6	6	20	4	4.2	4.2	4.2	4.2	35	22.7	22.7	22.7	22.7	23.2
13	1SV22EC012	H HEMA C	21	21	19	21	10.5	10.5	9.5	9.5	6	6	6	6	6	7	1.4	4.2	4.2	4.2	4.2	28.4	20.7	20.7	19.7	19.7	23.5
14	1SV22EC013	HEMASHREE [illegible]	19	23	23	19	12.5	12.5	12.5	12.5	6	6	6	6	6	28	5.2	4.2	4.2	4.2	4.2	30.2	22.7	22.7	22.7	22.7	23.02
15	1SV22EC014	JAGAVI CHOUHAN	14	23	13	14	12.5	12.9	7.5	7.5	6	6	6	6	6	22	4.4	4.2	4.2	4.2	4.2	24.4	22.7	22.7	17.7	17.7	22.62
16	1SV22EC015	JEEVAN H L	21	23	19	21	12.5	12.5	9.5	9.5	6	6	6	6	6	19	3.8	4.2	4.2	4.2	4.2	30.8	22.7	22.7	19.7	19.7	22.08
17	1SV22EC017	KIRAN GOUDA PATROLE	25	25	25	25	12.5	12.5	12.5	12.5	6	6	6	6	6	18	3.6	4.2	4.2	4.2	4.2	34.6	22.7	22.7	22.7	22.7	24.1
18	1SV22EC018	KUSHI GOWDA H L	21	19	24	21	9.5	9.5	12	12	6	6	6	6	6	10	2	4.2	4.2	4.2	4.2	29	19.7	19.7	22.2	22.2	23.82
19	1SV22EC019	LAKSHMISHREE K S	21	23	23	21	12.5	12.5	12.5	12.5	6	6	6	6	6	7	1.4	4.2	4.2	4.2	4.2	28.4	22.7	22.7	22.7	22.7	23.2
20	1SV22EC020	LEKHANA	24	24	23	24	12	12	12.5	12.5	6	6	6	6	6	18	3.6	4.2	4.2	4.2	4.2	33.6	22.2	22.2	22.7	22.7	24.26
21	1SV22EC021	LEKHANASHREE K S	22	24	23	22	12	12	12.5	12.5	6	6	6	6	6	19	3.8	4.2	4.2	4.2	4.2	31.8	22.2	22.2	22.7	22.7	24.5
22	1SV22EC022	LOHITH H S	22	23	0	22	12.5	12.5	0	0	6	6	6	6	6	9	1.8	4.2	4.2	4.2	4.2	29.8	22.7	22.7	10.2	10.2	21.72
23	1SV22EC023	M MAMATHA	20	23	24	20	12.5	12.5	12.5	12.5	6	6	6	6	6	41	8.2	4.2	4.2	4.2	4.2	34.2	22.7	22.7	22.7	22.7	23.06
24	1SV22EC024	MALLIKARJUN YALAMPALLI	20	24	23	20	12	12	11.5	11.5	6	6	6	6	6	20	4	4.2	4.2	4.2	4.2	30	22.2	22.2	21.7	21.7	24.28
25	1SV22EC025	MANASA H R	24	23	24	24	12.5	12.5	12.5	12.5	6	6	6	6	6	19	3.8	4.2	4.2	4.2	4.2	33.8	22.7	22.7	22.7	22.7	24.24
26	1SV22EC026	MEGHANA K	7	24	24	7	12	12	12.5	12.5	6	6	6	6	6	14	2.8	4.2	4.2	4.2	4.2	15.8	22.2	22.2	22.7	22.7	23.02
27	1SV22EC028	PAVITHRA K	18	23	23	18	12.5	12.5	12.5	12.5	6	6	6	6	6	6	1.2	4.2	4.2	4.2	4.2	25.2	22.7	22.7	22.7	22.7	22.16
28	1SV22EC029	PRAKASH SIDDAGOL	23	23	24	23	11.5	11.5	12	12	6	6	6	6	6	31	6.2	4.2	4.2	4.2	4.2	37.2	21.7	21.7	23.2	22.2	24.1
29	1SV22EC030	PRAVEEN YADAV L R	25	24	0	25	12	12	0	0	6	6	6	6	6	7	1.4	4.2	4.2	4.2	4.2	32.4	22.2	22.2	10.2	10.2	22.22
30	1SV22EC031	PRIYADARSHINI	25	25	25	25	12.5	12.5	12.5	12.5	6	6	6	6	6	22	4.4	4.2	4.2	4.2	4.2	35.4	22.7	22.7	22.7	22.7	22.34
31	1SV22EC032	PRITHVI M U	25	25	25	25	12.5	12.5	12.5	12.5	6	6	6	6	6	20	4	4.2	4.2	4.2	4.2	35	22.7	22.7	22.7	22.7	25.2
32	1SV22EC033	RAGHU G	25	25	26	25	12.5	12.5	10	10	6	6	6	6	6	21	4.2	4.2	4.2	4.2	4.2	35.2	22.7	22.7	20.2	20.2	24.68
33	1SV22EC034	RAHUL HT	24	20	19	24	10	10	7.5	7.5	6	6	6	6	6	19	3.8	4.2	4.2	4.2	4.2	33.8	20.2	20.2	17.7	17.7	23.06
34	1SV22EC035	RAKSHITHA GH	20	24	19	20	12	12	12.5	12.5	6	6	6	6	6	11	2.2	4.2	4.2	4.2	4.2	28.2	22.2	22.2	22.7	22.7	22.78
35	1SV22EC037	SACHIN HE	21	23	23	21	12.5	12.5	12.5	12.5	6	6	6	6	6	25	5	4.2	4.2	4.2	4.2	32	22.7	22.7	22.7	22.7	24.08
36	1SV22EC038	SAHANA K N	19	23	23	19	11.5	11.5	12.5	12.5	6	6	6	6	6	7	1.4	4.2	4.2	4.2	4.2	29.4	21.7	21.7	22.7	22.7	23.51818
37	1SV22EC039	SHARUKH [illegible]	25	24	23	25	12	12	12.5	12.5	6	6	6	6	6	3	0.6	4.2	4.2	4.2	4.2	31.6	22.2	22.2	22.7	22.7	23.66
38	1SV22EC040	SHIVANANDHI DHARPA	23	23	23	23	10.5	10.5	12.5	12.5	6	6	6	6	6	18	3.6	4.2	4.2	4.2	4.2	34.6	20.7	20.7	22.7	22.7	24.28
39	1SV22EC041	SHRUTI ARVAL	23	23	23	23	12.5	12.5	12.5	12.5	6	6	6	6	6	20	4	4.2	4.2	4.2	4.2	33	22.7	22.7	22.7	22.7	24.52
40	1SV22EC042	SHRIHAR M	11	19	23	11	9.5	9.5	10.5	10.5	6	6	6	6	6	7	1.4	4.2	4.2	4.2	4.2	18.4	19.7	19.7	20.7	20.7	22.3
41	1SV22EC043	SUSHMA S	23	23	23	23	12.5	12.5	12.5	12.5	6	6	6	6	6	20	5.8	4.2	4.2	4.2	4.2	34.8	22.7	22.7	22.7	22.7	22.48
42	1SV22EC045	VINAY G P	25	23	0	25	12.5	12.5	0	0	6	6	6	6	6	8	1.6	4.2	4.2	4.2	4.2	32.6	22.7	22.7	10.2	10.2	22.4
43	1SV22EC046	VINODH	24	23	23	24	12.5	12.5	12.5	12.5	6	6	6	6	6	8	1.2	4.2	4.2	4.2	4.2	31.2	22.7	22.7	22.7	22.7	22.04
44	1SV22EC047	VAIBAVSURYA	22	23	23	22	12.5	12.5	12.5	12.5	6	6	6	6	6	8	1.2	4.2	4.2	4.2	4.2	29.2	22.7	22.7	22.7	22.7	24.2
45	1SV21CA405	VISHITH R	0	21	17	0	10.5	10.5	8.5	8.5	6	6	6	6	6	1	0.2	4.2	4.2	4.2	4.2	8.2	20.7	20.7	18.7	18.7	20.5
46	1SV21EC402	VIDHYASHREE S P	0	24	0	0	12	12	0	0	6	6	6	6	6	0	0	4.2	4.2	4.2	4.2	6	22.2	22.2	10.2	10.2	15.56
47	1SV22EC060	SHOBHASHREE KARI	22	24	23	22	12	12	12.5	12.5	6	6	6	6	6	18	3.6	4.2	4.2	4.2	4.2	31.6	22.2	22.2	22.7	22.7	23.752
48	1SV22EC016	KARTAPPA C	20	23	23	20	11.5	11.5	6.5	6.5	6	6	6	6	6	7	1.4	4.2	4.2	4.2	4.2	27.4	21.7	21.7	16.7	16.7	22.56
	1SV21CA400	CHARAN K H	0	24	23	0	12	12	8.5	8.5	6	6	6	6	6	5	1	4.2	4.2	4.2	4.2	7	22.2	22.2	18.7	18.7	19.3
49	1SV21CA401	MOKSHA M	0	22	0	0	11	11	0	0	6	6	6	6	6	4	0.8	4.2	4.2	4.2	4.2	6.8	21.2	21.2	10.2	10.2	17.30667
																						28.25714	21.7102	21.70612	19.68571	19.68571	
																						61.43%	60.31%	60.29%	75.71%	75.71%	

COURSE INSTRUCTOR

HOD
Dept of E&C
SIET, Tumkur-6

PRINCIPAL
SIET, TUMKUR.

PRINCIPAL

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

SUBJECT	COA	SUBJECT CODE	BEC 306 C

COURSE OUTCOME

- 1 Explain the basic sub systems of a computer, their organization, structure and operation.
- 2 Illustrate the concept of programs as sequences of machine instructions.
- 3 Demonstrate different ways of communicating with I/O devices
- 4 Describe memory hierarchy and concept of virtual memory.
- 5 Illustrate organization of simple pipelined processor and other computing systems.

PROGRAM OUTCOMES

PO1 Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.

PO2 Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3 Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.

PO4 Conduct investigations of complex Problem: An ability to identify, formulate, comprehend, analyze, design synthesis of the information to solve complex engineering problems and provide valid conclusions.

PO5 Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex engineering activities.

PO6 The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.

PO7 Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9 Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10 Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.

PO11 Project management and finance: An ability to use the modern engineering tools, techniques, skills and management principles to do work as a member and leader in a team, to manage projects in multidisciplinary environments.

PO12 Life-long learning: A recognition of the need for, and an ability to engage in, to resolve contemporary issues and acquire lifelong learning.

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY				
FACULTY NAME	PROF.ROOPA T C				
BRANCH	ECE	ACADEMIC YEAR	2023-24		
COURSE	B.E	SEMESTER	III	SECTION	ECE
SUBJECT	COA	SUBJECT CODE	BEC 306C		

CO & PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	2	2	-								
CO2	3	3										
CO3	1	2	1									
CO4	2	3	-	-								
CO5	3	2		3								
AVERAGE	2.2	2.4	1.5	3								
OVERALL MAPPING OF SUBJECT												2.275

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	65.71	1.31	1.31	1.31									
CO2	55.26	1.65	1.65										
CO3	56.39	0.56	1.12	0.56									
CO4	71.69	1.43	2.15	-									
CO5	71.69	2.15	1.43		2.15								
AVERAGE	64.14	1.42	1.53	0.93	2.15								
FINAL ATTAINMENT LEVEL													1.50

			RECKONC		2023-2024 ODD			SEM III SEM		PROF. RDOPA.T.C				COA												
						T1	T2		T3	ASSIGNMENT and Quiz 15/5							SEE MARKS					Final					TOTAL AVERAGE
Roll No.	USN	Name	T1(25)	T2(25)	T3(25)	CO1-20	CO2-10	CO3-15	CO4-10	CO5-10	CO1-5	CO2-5	CO3-5	CO4-5	CO5-5	80	CO1-10	CO2-10	CO3-10	CO4-10	CO5-10	CO1-40	CO2-30	CO3-30	CO4-20	CO5-20	
1	1SV22EC001	ADITI A	19	0	21	19	0	0	10.5	10.5	5	5	5	5	5	7	1.4	4.2	4.2	4.2	4.2	25.4	9.2	9.2	19.7	19.7	16.64
2	1SV22EC002	SHILA M K	24	24	0	24	12	12	0	0	5	5	5	5	5	1	0.2	4.2	4.2	4.2	4.2	29.2	21.2	21.2	9.2	9.2	17.32
3	1SV22EC003	AVANISHRI APPA MALAPARI	22	20	0	22	10	10	0	0	5	5	5	5	5	24	4.8	4.2	4.2	4.2	4.2	31.8	18.2	18.2	9.2	9.2	17.84
4	1SV22EC004	BHAVANA V U	25	25	25	25	12.5	12.5	12.5	12.5	5	5	5	5	5	20	3.6	4.2	4.2	4.2	4.2	31.8	21.7	21.7	21.7	21.7	21.12
5	1SV22EC005	CHANDANA DS	24	25	25	24	12.5	12.5	12.5	12.5	5	5	5	5	5	23	4.6	4.2	4.2	4.2	4.2	33.6	21.7	21.7	21.7	21.7	24.3
6	1SV22EC006	CHANDANA K T	25	25	25	25	12.5	12.5	12.5	12.5	5	5	5	5	5	40	8	4.2	4.2	4.2	4.2	38	21.7	21.7	21.7	21.7	24.52
7	1SV22EC007	DARSHAN B	15	21	0	15	10.5	10.5	0	0	5	5	5	5	5	10	2.0	4.2	4.2	4.2	4.2	23.8	18.7	18.7	9.2	9.2	20.52
8	1SV22EC008	G C DEEKSHA	13	10	0	13	9.5	9.5	0	0	5	5	5	5	5	2	0.4	4.2	4.2	4.2	4.2	22.4	18.7	18.7	9.2	9.2	15.66
9	1SV22EC009	GEETHANJALI T U	25	25	25	25	12.5	12.5	12.5	12.5	5	5	5	5	5	34	6.8	4.2	4.2	4.2	4.2	36.8	21.7	21.7	21.7	21.7	19.88
11	1SV22EC010	GOUTHAMI G	18	11	19	18	5.5	5.5	9.5	9.5	5	5	5	5	5	8	1.6	4.2	4.2	4.2	4.2	24.6	14.7	14.7	18.7	18.7	18.28
12	1SV22EC011	GREESHMA H	25	25	25	25	12.5	12.5	12.5	12.5	5	5	5	5	5	21	4.2	4.2	4.2	4.2	4.2	34.2	21.7	21.7	21.7	21.7	21.24
13	1SV22EC012	HARSHITA	17	16	11	17	9	9	5.5	5.5	5	5	5	5	5	13	2.6	4.2	4.2	4.2	4.2	24.6	18.2	18.2	14.7	14.7	21.14
14	1SV22EC013	HEMAMPARI C	25	24	25	25	12	12	12.5	12.5	5	5	5	5	5	27	5.4	4.2	4.2	4.2	4.2	33.4	21.2	21.2	21.7	21.7	21.16
15	1SV22EC014	JAGATI CHETHAN	24	25	25	24	11.5	11.5	11.5	11.5	5	5	5	5	5	23	4.6	4.2	4.2	4.2	4.2	33.6	20.7	20.7	20.7	20.7	23.76
16	1SV22EC015	JEEVAN B J	25	25	25	25	12.5	12.5	12.5	12.5	5	5	5	5	5	20	4	4.2	4.2	4.2	4.2	34	21.7	21.7	21.7	21.7	23.72
17	1SV22EC017	KIRAN [illegible]	25	25	25	25	12.5	12.5	12.5	12.5	5	5	5	5	5	38	7.6	4.2	4.2	4.2	4.2	37.6	21.7	21.7	21.7	21.7	24.52
18	1SV22EC018	K SHAG [illegible]	24	24	21	24	12	12	10.5	10.5	5	5	5	5	5	31	6.2	4.2	4.2	4.2	4.2	35.2	21.2	21.2	18.7	18.7	24.24
19	1SV22EC019	LAKSHMIPRIYA V	25	25	25	25	12.5	12.5	12.5	12.5	5	5	5	5	5	39	7.8	4.2	4.2	4.2	4.2	37.8	21.7	21.7	21.7	21.7	24.16
20	1SV22EC020	LEKHANA	23	24	23	25	12	12	11.5	11.5	5	5	5	5	5	30	6	4.2	4.2	4.2	4.2	36	21.2	21.2	20.7	20.7	24.44
21	1SV22EC021	LEKHANASHREE K S	25	25	25	25	12.5	12.5	12.5	12.5	5	5	5	5	5	32	6.4	4.2	4.2	4.2	4.2	38.4	21.7	21.7	21.7	21.7	24.3
22	1SV22EC022	LOHITH H S	14	18	16	14	9	9	7	7	5	5	5	5	5	7	1.4	4.2	4.2	4.2	4.2	20.4	18.2	18.2	18.2	18.2	21.24
23	1SV22EC023	M MAMATHA	25	25	25	25	12.5	12.5	12.5	12.5	5	5	5	5	5	28	5.6	4.2	4.2	4.2	4.2	33.8	21.7	21.7	21.7	21.7	21.18
24	1SV22EC024	MALLIKARJUNAGAUDA V [illegible]	24	24	20	24	12	12	10	10	5	5	5	5	5	24	4.8	4.2	4.2	4.2	4.2	33.8	21.2	21.2	18.2	18.2	23.72
25	1SV22EC025	MANOJ G H	25	25	25	25	12.5	12.5	12.5	12.5	5	5	5	5	5	41	8.2	4.2	4.2	4.2	4.2	39.2	21.7	21.7	21.7	21.7	23.96
26	1SV22EC026	MEGHANA K	10	19	21	10	9.5	9.5	10.5	10.5	5	5	5	5	5	24	4.8	4.2	4.2	4.2	4.2	28.8	18.7	18.7	19.7	19.7	23.16
27	1SV22EC028	PAVITRA K	25	25	25	25	12.5	12.5	12.5	12.5	5	5	5	5	5	34	6.8	4.2	4.2	4.2	4.2	36.8	21.7	21.7	21.7	21.7	22.02
28	1SV22EC029	PRAKASH HEGADE	25	25	24	25	12.5	12.5	12	12	5	5	5	5	5	31	6.2	4.2	4.2	4.2	4.2	36.2	21.7	21.7	21.2	21.2	24.56
29	1SV22EC030	PRAVEEN VARDA [illegible]	23	23	0	23	11.5	11.5	0	0	5	5	5	5	5	31	6.2	4.2	4.2	4.2	4.2	34.2	20.7	20.7	9.2	9.2	23.6
30	1SV22EC031	PRITAM SHETTY	25	25	25	25	12.5	12.5	12.5	12.5	5	5	5	5	5	28	5.6	4.2	4.2	4.2	4.2	31.6	21.7	21.7	21.7	21.7	21.64
31	1SV22EC032	PRUDHVI S C	25	24	25	25	12	12	12.5	12.5	5	5	5	5	5	28	5.6	4.2	4.2	4.2	4.2	31.6	21.2	21.2	21.7	21.7	24.38
32	1SV22EC033	RAGHU N	25	24	25	25	12	12	12.5	12.5	5	5	5	5	5	31	6.2	4.2	4.2	4.2	4.2	36.2	21.2	21.2	21.7	21.7	24.34
33	1SV22EC034	RAHUL H	24	23	20	24	11.5	11.5	10	10	5	5	5	5	5	25	5	4.2	4.2	4.2	4.2	34	20.7	20.7	19.2	19.2	23.58
34	1SV22EC035	RAMAKRISHNA SH	25	24	25	25	12	12	12.5	12.5	5	5	5	5	5	32	6.4	4.2	4.2	4.2	4.2	36.4	21.2	21.2	21.7	21.7	23.6
35	1SV22EC037	SACHIN G C	25	24	25	25	12	12	12.5	12.5	5	5	5	5	5	28	5.6	4.2	4.2	4.2	4.2	31.6	21.2	21.2	21.7	21.7	24.36
36	1SV22EC038	SANJANA K N	25	24	25	25	12	12	12.5	12.5	5	5	5	5	5	27	5.4	4.2	4.2	4.2	4.2	31.4	21.2	21.2	21.7	21.7	23.28304
37	1SV22EC039	SHASHANK T B	18	19	18	18	9.5	9.5	8.5	8.5	5	5	5	5	5	14	2.8	4.2	4.2	4.2	4.2	25.8	18.7	18.7	15.7	15.7	21.58
38	1SV22EC040	SHIVASANKARSWAMY KUMATAGI	25	24	25	25	12	12	12.5	12.5	5	5	5	5	5	38	7.6	4.2	4.2	4.2	4.2	37.6	21.2	21.2	21.7	21.7	21.8
39	1SV22EC041	SHRUTI ARYA	25	25	25	25	12.5	12.5	12.5	12.5	5	5	5	5	5	22	4.4	4.2	4.2	4.2	4.2	34.4	21.7	21.7	21.7	21.7	24.46
40	1SV22EC042	SHUBHAM M	10	19	17	10	9.5	9.5	8.5	8.5	5	5	5	5	5	10	2	4.2	4.2	4.2	4.2	17	18.7	18.7	17.7	17.7	21.1
41	1SV22EC043	SUSHMA S	25	25	25	25	12.5	12.5	12.5	12.5	5	5	5	5	5	24	4.8	4.2	4.2	4.2	4.2	34.8	21.7	21.7	21.7	21.7	21.14
42	1SV22EC045	VINAY H P	23	23	24	23	11.5	11.5	12	12	5	5	5	5	5	18	3.6	4.2	4.2	4.2	4.2	31.8	20.7	20.7	21.2	21.2	23.7
43	1SV22EC046	VISHAV	24	24	18	24	12	12	10	10	5	5	5	5	5	11	2.2	4.2	4.2	4.2	4.2	31.2	18.2	21.2	19.2	19.2	22.24
44	1SV22EC047	VYSHNAVI S	23	23	26	25	11.5	11.5	10	10	5	5	5	5	5	18	3.6	4.2	4.2	4.2	4.2	33.6	15.7	20.7	19.2	19.2	21.54
45	1SV22EC401	VISMITH S	0	18	18	0	9	9	5	5	5	5	5	5	5	15	3	4.2	4.2	4.2	4.2	8	13.2	18.2	14.2	14.2	17.62
46	1SV22EC402	VIDHYASHREE V P	0	23	0	0	10.5	10.5	0	0	5	5	5	5	5	12	2.4	4.2	4.2	4.2	4.2	7.4	14.7	19.7	9.2	9.2	12.8
47	1SV22EC403	MOHAMMED KAIF	25	25	25	25	12.5	12.5	12.5	12.5	5	5	5	5	5	20	4	4.2	4.2	4.2	4.2	34	21.7	21.7	21.7	21.7	20.712
48	1SV22EC016	KARTAPPA C	16	23	19	16	11.5	11.5	7	7	5	5	5	5	5	10	2	4.2	4.2	4.2	4.2	23	20.7	20.7	16.2	16.2	21.76
	1SV21EC408	CHARAN K N	0	16	19	0	8	8	7.5	7.5	5	5	5	5	5	18	3.6	4.2	4.2	4.2	4.2	8.6	17.2	17.2	16.7	16.7	17.32
49	1SV21EC401	MOHSHA M	0	18	0	0	9	9	0	0	5	5	5	5	5	10	2	4.2	4.2	4.2	4.2	7	18.2	18.2	9.2	9.2	13.66667
																						30.23649	19.89388	20.30204	18.63878	18.63878	
																						65.71%	55.26%	56.39%	71.69%	71.69%	

COURSE INSTRUCTOR

HOD
Dept of E&C
SIET, Tumkur-6

HOD

PRINCIPAL
SIET, TUMKUR

PRINCIPAL

SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

SUBJECT	IOT INFRASTRUCTURE	SUBJECT CODE	BEC358 D

COURSE OUTCOME

CO1. To provide an understanding of the concepts, principles, and applications of IoT in the context of smart infrastructure.

CO2. To explore the role of IoT technologies in transforming infrastructure into smart, efficient, and sustainable systems and analyse the challenges, opportunities, and considerations in implementing IoT for smart infrastructure.

CO3. To examine real-world case studies and successful implementations of IoT in smart cities, buildings, transportation, and energy management and explore future trends and emerging technologies shaping the field of IoT for smart infrastructure.

PROGRAM OUTCOMES

PO1 Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.

PO2 Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3 Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.

PO4 Conduct investigations of complex Problem: An ability to identify, formulate, comprehend, analyze, design synthesis of the information to solve complex engineering problems and provide valid conclusions.

PO5 Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex engineering activities.

PO6 The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.

PO7 Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9 Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10 Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.

PO11 Project management and finance: An ability to use the modern engineering tools, techniques, skills and management principles to do work as a member and leader in a team, to manage projects in multidisciplinary environments.

PO12 Life-long learning: A recognition of the need for, and an ability to engage in, to resolve contemporary issues and acquire lifelong learning.

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY				
FACULTY NAME	PROF.PRADEEP KUMAR S S				
BRANCH	ECE	ACADEMIC YEAR	2023-24		
COURSE	B.E	SEMESTER	III	SECTION	ECE
SUBJECT	IOT INFRASTRUCTURE	SUBJECT CODE	BEC358 D		

CO & PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	2	-	-								
CO2	2		2									
CO3	1	3	2									
AVERAGE	2	2.5	-	2								
OVERALL MAPPING OF SUBJECT												2.16

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	77.24	1.54	1.54	-	-								
CO2	63.37	1.26		1.26									
CO3	63.37	0.63	2.02	1.26									
AVERAGE	67.23	1.14	1.78	1.26									
FINAL ATTAINMENT LEVEL													1.39

			6EC358D		2023-2024 ODD			SEM: IIISEM		PROF. PRADEEP KUMAR S S					IOT INFRASTRUCTURE										
						T1	T2		T3	ASSIGNMENT and Quiz: 30/5						SEE MARKS					Final					TOTAL AVERAGE
Roll No.	USN	Name	T1(20)	T1(20)	T3(20)	CO1-20	CO2-10	CO3-10	CO4-10	CO5-10	CO1-6	CO2-6	CO3-6	CO4-6	CO5-6	30	CO1-10	CO2-10	CO3-10	CO4-10	CO5-10	CO1-40	CO2-26	CO3-26	CO4-26	CO5-26	
1	1SV22EC001	ADITYA DHANAKEERTI. B	25	25	25	25	12.5	12.5	12.5	12.5	6	6	6	6	6	22	4.4	4.2	4.2	4.2	4.2	35.4	22.7	22.7	22.7	22.7	25.24
2	1SV22EC002	ANSA M. K	25	25	25	25	12.5	12.5	12.5	12.5	6	6	6	6	6	19	3.8	4.2	4.2	4.2	4.2	34.8	22.7	22.7	22.7	22.7	25.18
3	1SV22EC003	ANANDSHIVAPPA HADAGAD	25	25	25	25	12.5	12.5	12.5	12.5	6	6	6	6	6	25	5	4.2	4.2	4.2	4.2	36	22.7	22.7	22.7	22.7	25.24
4	1SV22EC004	BHAVANA T N	25	25	25	25	12.5	12.5	12.5	12.5	6	6	6	6	6	20	4	4.2	4.2	4.2	4.2	35	22.7	22.7	22.7	22.7	25.26
5	1SV22EC005	CHANDANA DV	25	25	25	25	12.5	12.5	12.5	12.5	6	6	6	6	6	24	4.8	4.2	4.2	4.2	4.2	35.8	22.7	22.7	22.7	22.7	25.24
6	1SV22EC006	CHANDANA K T	25	25	25	25	12.5	12.5	12.5	12.5	6	6	6	6	6	23	4.6	4.2	4.2	4.2	4.2	35.6	22.7	22.7	22.7	22.7	25.3
7	1SV22EC007	DARSHAN R	25	25	25	25	12.5	12.5	12.5	12.5	6	6	6	6	6	20	4	4.2	4.2	4.2	4.2	35	22.7	22.7	22.7	22.7	25.22
8	1SV22EC008	G C DIVAKAR	25	25	25	25	12.5	12.5	12.5	12.5	6	6	6	6	6	24	4.8	4.2	4.2	4.2	4.2	35.8	22.7	22.7	22.7	22.7	25.24
9	1SV22EC009	GEETHANJALI T M	25	25	25	25	12.5	12.5	12.5	12.5	6	6	6	6	6	29	5.8	4.2	4.2	4.2	4.2	36.8	22.7	22.7	22.7	22.7	25.42
11	1SV22EC010	GOUTHAM G	25	25	25	25	12.5	12.5	12.5	12.5	6	6	6	6	6	23	4.6	4.2	4.2	4.2	4.2	35.6	22.7	22.7	22.7	22.7	25.28
12	1SV22EC011	GREESHMA G	25	25	25	25	12.5	12.5	12.5	12.5	6	6	6	6	6	21	4.2	4.2	4.2	4.2	4.2	35.2	22.7	22.7	22.7	22.7	25.24
13	1SV22EC012	HARSHAV	25	25	25	25	12.5	12.5	12.5	12.5	6	6	6	6	6	21	4.2	4.2	4.2	4.2	4.2	35.2	22.7	22.7	22.7	22.7	25.2
14	1SV22EC013	HIMASHWETHA C	25	25	25	25	12.5	12.5	12.5	12.5	6	6	6	6	6	28	5.6	4.2	4.2	4.2	4.2	36.6	22.7	22.7	22.7	22.7	25.34
15	1SV22EC014	JAHAVI CHINIWAR	25	25	25	25	12.5	12.5	12.5	12.5	6	6	6	6	6	26	5.2	4.2	4.2	4.2	4.2	36.2	22.7	22.7	22.7	22.7	25.44
16	1SV22EC015	JEYASH G L	25	25	25	25	12.5	12.5	12.5	12.5	6	6	6	6	6	22	4.4	4.2	4.2	4.2	4.2	35.4	22.7	22.7	22.7	22.7	25.32
17	1SV22EC017	KIRAN ARBOL HARIJAN	25	25	25	25	12.5	12.5	12.5	12.5	6	6	6	6	6	27	5.4	4.2	4.2	4.2	4.2	35.4	22.7	22.7	22.7	22.7	25.34
18	1SV22EC018	KOMAL GOWDA H L	25	25	25	25	12.5	12.5	12.5	12.5	6	6	6	6	6	26	5.2	4.2	4.2	4.2	4.2	36.2	22.7	22.7	22.7	22.7	25.42
19	1SV22EC019	LAKSHMISHREE S	25	25	25	25	12.5	12.5	12.5	12.5	6	6	6	6	6	22	4.4	4.2	4.2	4.2	4.2	35.4	22.7	22.7	22.7	22.7	25.32
20	1SV22EC020	LEKHANA	25	25	25	25	12.5	12.5	12.5	12.5	6	6	6	6	6	25	5	4.2	4.2	4.2	4.2	36	22.7	22.7	22.7	22.7	25.3
21	1SV22EC021	LEKHANASHREE K S	25	25	25	25	12.5	12.5	12.5	12.5	6	6	6	6	6	22	4.4	4.2	4.2	4.2	4.2	35.4	22.7	22.7	22.7	22.7	25.3
22	1SV22EC022	LOHITH H K	25	25	25	25	12.5	12.5	12.5	12.5	6	6	6	6	6	22	4.4	4.2	4.2	4.2	4.2	35.4	22.7	22.7	22.7	22.7	25.24
23	1SV22EC023	M MAMATHA	25	25	25	25	12.5	12.5	12.5	12.5	6	6	6	6	6	23	4.6	4.2	4.2	4.2	4.2	35.6	22.7	22.7	22.7	22.7	25.26
24	1SV22EC024	MALLIKARJUNNKA DRA VANI	25	25	25	25	12.5	12.5	12.5	12.5	6	6	6	6	6	22	4.4	4.2	4.2	4.2	4.2	35.4	22.7	22.7	22.7	22.7	25.26
25	1SV22EC025	MANASA DS	25	25	25	25	12.5	12.5	12.5	12.5	6	6	6	6	6	26	5.2	4.2	4.2	4.2	4.2	36.2	22.7	22.7	22.7	22.7	25.32
26	1SV22EC026	MEGHANA K	25	25	25	25	12.5	12.5	12.5	12.5	6	6	6	6	6	25	5	4.2	4.2	4.2	4.2	36	22.7	22.7	22.7	22.7	25.38
27	1SV22EC028	PAVITRA K	25	25	25	25	12.5	12.5	12.5	12.5	6	6	6	6	6	20	4	4.2	4.2	4.2	4.2	35	22.7	22.7	22.7	22.7	25.26
28	1SV22EC029	PRAKASH SHIGADI	25	25	25	25	12.5	12.5	12.5	12.5	6	6	6	6	6	20	4	4.2	4.2	4.2	4.2	35	22.7	22.7	22.7	22.7	25.16
29	1SV22EC030	PRAVEEN YADAV L B	25	25	25	25	12.5	12.5	12.5	12.5	6	6	6	6	6	24	4.8	4.2	4.2	4.2	4.2	35.8	22.7	22.7	22.7	22.7	25.24
30	1SV22EC031	PRIYADARSHINI	25	25	25	25	12.5	12.5	12.5	12.5	6	6	6	6	6	23	4.6	4.2	4.2	4.2	4.2	35.6	22.7	22.7	22.7	22.7	25.3
31	1SV22EC032	PRITHVI M U	25	25	25	25	12.5	12.5	12.5	12.5	6	6	6	6	6	21	4.2	4.2	4.2	4.2	4.2	35.2	22.7	22.7	22.7	22.7	25.24
32	1SV22EC033	RAKSHA N	25	25	25	25	12.5	12.5	12.5	12.5	6	6	6	6	6	22	4.4	4.2	4.2	4.2	4.2	35.4	22.7	22.7	22.7	22.7	25.22
33	1SV22EC034	RAHUL HH	25	25	25	25	12.5	12.5	12.5	12.5	6	6	6	6	6	26	5.2	4.2	4.2	4.2	4.2	36.2	22.7	22.7	22.7	22.7	25.32
34	1SV22EC035	RAKSHITHA MH	25	25	25	25	12.5	12.5	12.5	12.5	6	6	6	6	6	21	4.2	4.2	4.2	4.2	4.2	35.2	22.7	22.7	22.7	22.7	25.3
35	1SV22EC037	SACHIN G C	25	25	25	25	12.5	12.5	12.5	12.5	6	6	6	6	6	23	4.6	4.2	4.2	4.2	4.2	35.6	22.7	22.7	22.7	22.7	25.24
36	1SV22EC038	SAJANA K N	25	25	25	25	12.5	12.5	12.5	12.5	6	6	6	6	6	21	4.2	4.2	4.2	4.2	4.2	35.2	22.7	22.7	22.7	22.7	25.25455
37	1SV22EC039	SHASHANK T R	25	25	25	25	12.5	12.5	12.5	12.5	6	6	6	6	6	22	4.4	4.2	4.2	4.2	4.2	35.4	22.7	22.7	22.7	22.7	25.22
38	1SV22EC040	SHIVANANDREKAP PA KUMATAGAR	25	25	25	25	12.5	12.5	12.5	12.5	6	6	6	6	6	26	5.2	4.2	4.2	4.2	4.2	36.2	22.7	22.7	22.7	22.7	25.32
39	1SV22EC041	SHRUTI ARYAL	25	25	25	25	12.5	12.5	12.5	12.5	6	6	6	6	6	23	4.6	4.2	4.2	4.2	4.2	35.6	22.7	22.7	22.7	22.7	25.34
40	1SV22EC042	SHRIYAR M	25	25	25	25	12.5	12.5	12.5	12.5	6	6	6	6	6	20	4	4.2	4.2	4.2	4.2	35	22.7	22.7	22.7	22.7	25.22
41	1SV22EC043	SUSHMA N	25	25	25	25	12.5	12.5	12.5	12.5	6	6	6	6	6	20	4	4.2	4.2	4.2	4.2	35	22.7	22.7	22.7	22.7	25.16
42	1SV22EC045	VINAY G P	25	25	25	25	12.5	12.5	12.5	12.5	6	6	6	6	6	23	4.6	4.2	4.2	4.2	4.2	35.6	22.7	22.7	22.7	22.7	25.22
43	1SV22EC046	VINOD V	25	25	25	25	12.5	12.5	12.5	12.5	6	6	6	6	6	22	4.4	4.2	4.2	4.2	4.2	35.4	22.7	22.7	22.7	22.7	25.26
44	1SV22EC047	YAHAH SUHA	25	25	25	25	12.5	12.5	12.5	12.5	6	6	6	6	6	20	4	4.2	4.2	4.2	4.2	35	22.7	22.7	22.7	22.7	25.2
45	1SV23EC401	VISMITH S	25	25	25	25	12.5	12.5	12.5	12.5	6	6	6	6	6	15	3	4.2	4.2	4.2	4.2	34	22.7	22.7	22.7	22.7	25.06
46	1SV23EC402	VIDHYASHREE V P	25	25	25	25	12.5	12.5	12.5	12.5	6	6	6	6	6	20	4	4.2	4.2	4.2	4.2	35	22.7	22.7	22.7	22.7	25.06
47	1SV22EC900	MOHAMMED KAIF	25	25	25	25	12.5	12.5	12.5	12.5	6	6	6	6	6	20	4	4.2	4.2	4.2	4.2	35	22.7	22.7	22.7	22.7	25.156
48	1SV22EC916	KARTAPPA C	25	25	25	25	12.5	12.5	12.5	12.5	6	6	6	6	6	23	4.6	4.2	4.2	4.2	4.2	35.6	22.7	22.7	22.7	22.7	25.22
	1SV23EC400	CHARAN K N	25	25	25	25	12.5	12.5	12.5	12.5	6	6	6	6	6	22	4.4	4.2	4.2	4.2	4.2	35.4	22.7	22.7	22.7	22.7	25.26
49	1SV23EC405	MONISHA M	25	36	25	25	18	18	12.5	12.5	6	6	6	6	6	26	5.2	4.2	4.2	4.2	4.2	36.2	26.2	26.2	22.7	22.7	26.04
																						35.53061	22.81224	22.81224	22.7	22.7	
																						77.24%	63.37%	63.37%	87.31%	87.31%	

COURSE INSTRUCTOR

HOD

Dept of E&C
SIET, Tumkur-5

PRINCIPAL

PRINCIPAL
SIET, TUMKUR

SHRIDEVI

SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

SUBJECT	DIGITAL COMMUNICATION	SUBJECT CODE	21EC51

COURSE OUTCOME

CO 1. Understand the concept of signal processing of digital data and signal conversion to symbols at the transmitter and receiver.

CO 2. Compute performance metrics and parameters for symbol processing and recovery in ideal and corrupted channel conditions.

CO3. Understand the principles of spread spectrum communications.

CO4. Understand the basic principles of information theory and various source coding techniques.

CO5. Build a comprehensive knowledge about various Source and Channel Coding techniques.

PROGRAM OUTCOMES

PO1 Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.

PO2 Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3 Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.

PO4 Conduct investigations of complex Problem: An ability to identify, formulate, comprehend, analyze, design synthesis of the information to solve complex engineering problems and provide valid conclusions.

PO5 Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex engineering activities.

PO6 The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.

PO7 Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9 Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10 Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.

PO11 Project management and finance: An ability to use the modern engineering tools, techniques, skills and management principles to do work as a member and leader in a team, to manage projects in multidisciplinary environments.

PO12 Life-long learning: A recognition of the need for, and an ability to engage in, to resolve contemporary issues and acquire lifelong learning. .

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY				
FACULTY NAME	PROF. AIJAZ AHAMED SHARIEF				
BRANCH	ECE	ACADEMIC YEAR	2023-24		
COURSE	B.E	SEMESTER	V	SECTION	ECE
SUBJECT	DIGITAL COMMUNICATION	SUBJECT CODE	21EC51		

CO & PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	2	-	-								
CO2	1	2	1									
CO3		2	2									
CO4	3		3									
CO5	2	1	-	2								
AVERAGE	2	2.25	2	2								
											OVERALL MAPPING OF SUBJECT	2.06

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO1
CO1	69.90%	1.39	1.39										
CO2	95.25%	0.95	1.90	0.95									
CO3	95.25%		1.90	1.90									
CO4	95.03%	2.85		2.86									
CO5	95.03%	1.90	0.95		1.90								
AVERAGE	90.09	1.77	1.53	1.90	1.90								
												FINAL ATTAINMENT LEVEL	1.77

			21EC51		2023-2024 ODD				SEM :V SEM		PROF. AIJAZ AHAMMED SHARIEF				DIGITAL COMMUNICATION											
						T1	T2		T3		ASSIGNMENT and Quiz :10/5						SEE MARKS					Final					TOTAL
Roll No	USN	Name	T1(40)	T2(40)	T3(40)	CO1-40	CO2-20	CO3-20	CO4-20	CO5-20	CO1-2	CO2-2	CO3-2	CO4-2	CO5-2	S0	CO1-10	CO2-10	CO3-10	CO4-10	CO5-10	CO1-53	CO2-22	CO3-22	CO4-22	CO5-22	AVERAGE
1	1SV21EC001	ABHISHEK H K	30	18	22	30	9	9	11	11	2	2	2	2	2	6	1.2	1.2	1.2	1.2	1.2	33.2	12.2	12.2	14.2	14.2	17.2
2	1SV21EC002	ASHWINI R	40	40	40	40	20	20	20	20	2	2	2	2	2	34	6.8	6.8	6.8	6.8	6.8	48.8	28.8	28.8	28.8	28.8	25
3	1SV21EC003	BHAVANA M S	40	40	35	40	20	20	17.5	17.5	2	2	2	2	2	30	6	6	6	6	6	48	26	26	25.5	25.5	31.9
4	1SV21EC004	DINESH RAO CHARAN	30	26	20	30	13	13	10	10	2	2	2	2	2	15	3	3	3	3	3	35	18	18	15	15	25.6
5	1SV21EC005	DIVYASHREE SS	35	36	25	35	18	18	12.5	12.5	2	2	2	2	2	19	3.8	3.8	3.8	3.8	3.8	40.8	23.8	23.8	18.3	18.3	22.6
6	1SV21EC006	GAGAN KUMAR N	27	21	22	27	10.5	10.5	11	11	2	2	2	2	2	23	4.6	4.6	4.6	4.6	4.6	33.6	17.1	17.1	17.6	17.6	22.8
7	1SV21EC007	GOWTHAMI B L	30	40	0	30	20	20	0	0	2	2	2	2	2	18	3.6	3.6	3.6	3.6	3.6	35.6	25.6	25.6	5.6	5.6	20.1
8	1SV21EC008	HAMSAVENI T D	40	40	30	40	20	20	15	15	2	2	2	2	2	32	6.4	6.4	6.4	6.4	6.4	48.4	28.4	28.4	23.4	23.4	28
9	1SV21EC009	HARSHITHA T	40	40	30	40	20	20	15	15	2	2	2	2	2	27	5.4	5.4	5.4	5.4	5.4	47.4	27.4	27.4	22.4	22.4	29.9
10	1SV21EC010	KAVYA S M	38	40	38	38	20	20	19	19	2	2	2	2	2	24	4.8	4.8	4.8	4.8	4.8	44.8	26.8	26.8	25.8	25.8	29.7
11	1SV21EC011	KEERTI KOTEPPA DODAMANI	40	40	30	40	20	20	15	15	2	2	2	2	2	29	5.8	5.8	5.8	5.8	5.8	47.8	27.8	27.8	22.8	22.8	29.9
12	1SV21EC012	LOKESH D	34	35	32	34	17.5	17.5	16	16	2	2	2	2	2	18	3.6	3.6	3.6	3.6	3.6	39.6	23.1	23.1	21.6	21.6	27.8
13	1SV21EC013	M VEDA	40	40	30	40	20	20	15	15	2	2	2	2	2	32	6.4	6.4	6.4	6.4	6.4	48.4	28.4	28.4	23.4	23.4	28.1
14	1SV21EC014	MAMATHA N	38	38	30	38	19	19	15	15	2	2	2	2	2	19	3.8	3.8	3.8	3.8	3.8	43.8	24.8	24.8	20.8	20.8	28.7
15	1SV21EC015	MEGHANA M P	40	40	40	40	20	20	20	20	2	2	2	2	2	45	9	9	9	9	9	51	31	31	31	31	31
16	1SV21EC016	MOHAMMED SAADMDDQ	28	20	12	28	10	10	6	6	2	2	2	2	2	24	4.8	4.8	4.8	4.8	4.8	34.8	16.8	16.8	12.8	12.8	26.9
17	1SV21EC017	MOHAN K. R	0	12	20	0	6	6	10	10	2	2	2	2	2	2	0.4	0.4	0.4	0.4	0.4	2.4	8.4	8.4	12.4	12.4	13.8
18	1SV21EC018	MONIKA K. R	40	40	40	40	20	20	20	20	2	2	2	2	2	36	7.2	7.2	7.2	7.2	7.2	49.2	29.2	29.2	29.2	29.2	31
19	1SV21EC019	NANDAN KUMAR T	40	40	40	40	20	20	20	20	2	2	2	2	2	38	7.8	7.8	7.8	7.8	7.8	49.8	29.8	29.8	29.8	29.8	33.5
20	1SV21EC020	NANDINI T	40	40	30	40	20	20	15	15	2	2	2	2	2	20	4	4	4	4	4	46	26	26	21	21	30.9
21	1SV21EC021	NAVEENA K. J	18	8	14	18	4	4	7	7	2	2	2	2	2	6	1.2	1.2	1.2	1.2	1.2	21.2	7.2	7.2	10.2	10.2	19.6
22	1SV21EC022	NETHRAVATHI V	38	34	40	38	17	17	20	20	2	2	2	2	2	23	4.6	4.6	4.6	4.6	4.6	44.6	23.6	23.6	26.6	26.6	30.1
23	1SV21EC023	NIHARIKA S	30	31	30	30	15.5	15.5	15	15	2	2	2	2	2	27	5.4	5.4	5.4	5.4	5.4	37.4	22.9	22.9	22.4	22.4	27.3
24	1SV19EC027	POOJASHREE V	40	40	40	40	20	20	20	20	2	2	2	2	2	26	5.2	5.2	5.2	5.2	5.2	47.2	27.2	27.2	27.2	27.2	28.4
25	1SV19EC028	R P YASHWITH PATIL	24	12	28	24	6	6	14	14	2	2	2	2	2	18	3.6	3.6	3.6	3.6	3.6	29.6	11.6	11.6	19.6	19.6	24.8
26	1SV19EC029	SANGEETHA BASAVAREDDY	35	40	37	35	20	20	18.5	18.5	2	2	2	2	2	20	4	4	4	4	4	41	26	26	24.5	24.5	28.4
27	1SV21EC024	SANJANA N J	21	0	8	21	0	0	4	4	2	2	2	2	2	4	0.8	0.8	0.8	0.8	0.8	23.8	2.8	2.8	6.8	6.8	18.5
28	1SV21EC025	SIDDARTH KUMAR C N	28	24	19	28	12	12	9.5	9.5	2	2	2	2	2	7	1.4	1.4	1.4	1.4	1.4	31.4	15.4	15.4	12.9	12.9	13.1
29	1SV21EC027	SHOBHARAJ H L	35	24	30	35	12	12	15	15	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	41.2	18.2	18.2	21.2	21.2	20.8
30	1SV21EC028	SUPRITH K U	20	23	22	20	11.5	11.5	11	11	2	2	2	2	2	26	5.2	5.2	5.2	5.2	5.2	27.2	18.7	18.7	18.2	18.2	22.1
31	1SV21EC029	SYED AYAZ	0	25	26	0	12.5	12.5	13	13	2	2	2	2	2	8	1.6	1.6	1.6	1.6	1.6	3.6	16.1	16.1	16.6	16.6	17
32	1SV21EC030	THANUJA	40	34	33	40	17	17	16.5	16.5	2	2	2	2	2	23	4.6	4.6	4.6	4.6	4.6	45.6	23.6	23.6	23.1	23.1	20.9
33	1SV21EC031	USHA R	40	40	35	40	20	20	17.5	17.5	2	2	2	2	2	28	5.6	5.6	5.6	5.6	5.6	47.6	27.6	27.6	25.1	25.1	29.3
34	1SV21EC032	VAISHNAVI C T	39	40	35	39	20	20	17.5	17.5	2	2	2	2	2	23	4.6	4.6	4.6	4.6	4.6	45.6	26.6	26.6	24.1	24.1	30
35	1SV22EC401	JYOTHI N	0	0	22	0	0	0	11	11	2	2	2	2	2	12	2.4	2.4	2.4	2.4	2.4	4.4	4.4	4.4	15.4	15.4	19.1
36	1SV22EC402	PRIYANKA. N	0	0	25	0	0	0	12.5	12.5	2	2	2	2	2	7	1.4	1.4	1.4	1.4	1.4	3.4	3.4	3.4	15.9	15.9	19.8
37	1SV22EC403	SHASHANK P	0	0	22	0	0	0	11	11	2	2	2	2	2	22	4.4	4.4	4.4	4.4	4.4	6.4	6.4	6.4	17.4	17.4	9.6
38	1SV22EC405	SHIVARAJ M H	0	0	27	0	0	0	13.5	13.5	2	2	2	2	2	24	4.8	4.8	4.8	4.8	4.8	6.8	6.8	6.8	20.3	20.3	11.5
39	1SV22EC404	C.K Pushpalatha	39	40	40	39	20	20	20	20	2	2	2	2	2	30	6	6	6	6	6	47	28	28	28	28	22
40	1SV22EC415	JAMUNA S	40	40	40	40	20	20	20	20	2	2	2	2	2	27	5.4	5.4	5.4	5.4	5.4	47.4	27.4	27.4	27.4	27.4	31.6
41	1SV22EC406	NIVEDITHA N	40	40	38	40	20	20	19	19	2	2	2	2	2	22	4.4	4.4	4.4	4.4	4.4	46.4	26.4	26.4	25.4	25.4	30.7
42	1SV22EC407	PREETHI A	40	40	40	40	20	20	20	20	2	2	2	2	2	32	6.4	6.4	6.4	6.4	6.4	48.4	28.4	28.4	28.4	28.4	32.4
																						36.34762	20.95476	20.955	20.9071	20.9071	
																						69.90%	95.25%	95.25%	95.03%	95.03%	

COURSE INSTRUCTOR

HOD*

HOD
Dept of E&C
SIET, Tumkur-6

PRINCIPAL
SIET. TUMKUR.

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

SUBJECT	COA	SUBJECT CODE	21EC52

COURSE OUTCOME

1. Explain the basic organization of a computer system.
2. Demonstrate functioning of different sub systems, such as processor, Input/output, and memory.
3. Describe the architectural features and instructions of 32-bit microcontroller ARM Cortex M3.
4. Apply the knowledge gained for Programming ARM Cortex M3 for different applications.
5. Understand the basic hardware components and their selection method based on the characteristics and attributes of an embedded system.

PROGRAM OUTCOMES

PO1 Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.

PO2 Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3 Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.

PO4 Conduct investigations of complex Problem: An ability to identify, formulate, comprehend, analyze, design synthesis of the information to solve complex engineering problems and provide valid conclusions.

PO5 Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex engineering activities.

PO6 The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.

PO7 Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9 Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10 Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.

PO11 Project management and finance: An ability to use the modern engineering tools, techniques, skills and management principles to do work as a member and leader in a team, to manage projects in multidisciplinary environments.

PO12 Life-long learning: A recognition of the need for, and an ability to engage in, to resolve contemporary issues and acquire lifelong learning.

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	PROF. MALLIKARJUN Y P											
BRANCH	ECE			ACADEMIC YEAR			2023-24					
COURSE	B.E	SEMESTER	V	SECTION	ECE							
SUBJECT	COA			SUBJECT CODE	21EC52							

CO & PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	-	-	-								
CO2	2	3	-	-								
CO3	3	-	-	2								
CO4	-	-	2	-								
CO5		2	2									
AVERAGE	2.3	2.5	2	2								
											OVERALL MAPPING OF SUBJECT	2.325

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	76.40%	1.52											
CO2	72.46%	1.09	1.64	-	-								
CO3	89.18%	1.64	-	-	1.09								
CO4	99.35%	-	-	1.06	-								
CO5	99.35%		1.06	1.06									
AVERAGE	87.34	1.25	1.64	1.06	1.09								
												FINAL ATTAINMENT LEVEL	1.26

			21EC52		2023-2024 ODD			SEM /V SEM		PROF. MALLIKARJUN Y P				COA											
						T1	T2		T3	ASSIGNMENT and Quiz :10/5						SEE MARKS					Final					
Roll No.	USN	Name	T1(40)	T2(40)	T3(40)	CO1-40	CO2-20	CO3-20	CO4-20	CO5-20	CO1-2	CO2-2	CO3-2	CO4-2	CO5-2	50	CO1-10	CO2-10	CO3-10	CO4-10	CO5-10	CO1-32	CO2-32	CO3-32	CO4-32	CO5-32	TOTAL AVERAGE
1	1SV21EC003	ABHISHEK H K	22	29	26	22	12.5	12.5	13	13	2	2	2	2	2	9	1.8	4.2	4.2	4.2	4.2	25.8	18.7	18.7	19.2	19.2	20.32
2	1SV21EC005	ANIRUDH E	40	40	40	40	20	20	20	20	2	2	2	2	2	28	5.6	4.2	4.2	4.2	4.2	47.6	26.2	26.2	26.2	26.2	25.4
3	1SV21EC007	BHAVANA M N	40	40	40	40	20	20	20	20	2	2	2	2	2	35	1.2	4.2	4.2	4.2	4.2	43.2	26.2	26.2	26.2	26.2	30.04
4	1SV21EC009	CHAAN	35	18	17	35	9	9	8.5	8.5	2	2	2	2	2	6	2.6	4.2	4.2	4.2	4.2	39.6	15.2	15.2	14.7	14.7	24.76
5	1SV21EC005	DIVYASHREE SN	31	37	38	31	18.5	18.5	19	19	2	2	2	2	2	13	4.6	4.2	4.2	4.2	4.2	37.6	24.7	24.7	25.2	25.2	23.68
6	1SV21EC006	GAGAN KUMAR N	15	21	29	15	10.5	10.5	14.5	14.5	2	2	2	2	2	23	3.6	4.2	4.2	4.2	4.2	30.6	16.7	16.7	20.7	20.7	23.28
7	1SV21EC007	GOWTHAMI B L	38	40	40	38	20	20	20	20	2	2	2	2	2	18	5.8	4.2	4.2	4.2	4.2	45.8	26.2	26.2	26.2	26.2	24.6
8	1SV21EC008	HARSHAVENI T D	38	40	40	38	20	20	20	20	2	2	2	2	2	29	6.4	4.2	4.2	4.2	4.2	46.4	26.2	26.2	26.2	26.2	30.16
9	1SV21EC009	HARSHITHA T	40	40	40	40	20	20	20	20	2	2	2	2	2	32	4.2	4.2	4.2	4.2	4.2	46.2	26.2	26.2	26.2	26.2	30.22
10	1SV21EC010	KAVYA S M	30	38	40	30	19	19	20	20	2	2	2	2	2	21	6.2	4.2	4.2	4.2	4.2	47.2	25.2	25.2	26.2	26.2	30.1
11	1SV21EC011	KUSUMANJALI	38	40	40	38	20	20	20	20	2	2	2	2	2	31	6.2	4.2	4.2	4.2	4.2	46.2	26.2	26.2	26.2	26.2	30.1
12	1SV21EC012	LOKESH U	33	31	27	33	15.5	15.5	13.5	13.5	2	2	2	2	2	31	6.4	4.2	4.2	4.2	4.2	41.4	21.7	21.7	19.7	19.7	27.52
13	1SV21EC013	M VEDA	40	40	39	40	20	20	19.5	19.5	2	2	2	2	2	32	6.4	4.2	4.2	4.2	4.2	48.4	26.2	26.2	25.7	25.7	27.64
14	1SV21EC014	MAMATHA N	40	40	40	40	20	20	20	20	2	2	2	2	2	32	7.6	4.2	4.2	4.2	4.2	49.6	26.2	26.2	26.2	26.2	30.66
15	1SV21EC015	MEGHANA M P	40	40	340	40	20	20	170	170	2	2	2	2	2	38	4.6	4.2	4.2	4.2	4.2	46.6	26.2	26.2	176.2	176.2	40.58
16	1SV21EC016	NEHAL	28	16	27	28	8	8	13.5	13.5	2	2	2	2	2	23	0.8	4.2	4.2	4.2	4.2	30.8	14.2	14.2	19.7	19.7	55
17	1SV21EC017	MOHAN K P	0	23	29	0	11.5	11.5	14.5	14.5	2	2	2	2	2	4	6.8	4.2	4.2	4.2	4.2	8.8	17.7	17.7	20.7	20.7	18.42
18	1SV21EC018	MUNNA K R	40	40	39	40	20	20	19.5	19.5	2	2	2	2	2	34	5.6	4.2	4.2	4.2	4.2	47.4	26.2	26.2	25.7	25.7	23.68
19	1SV21EC019	T	40	37	38	40	18.5	18.5	19	19	2	2	2	2	2	27	6.8	4.2	4.2	4.2	4.2	48.8	24.7	24.7	25.2	25.2	29.98
20	1SV21EC020	NANDINI T	37	40	40	37	20	20	20	20	2	2	2	2	2	34	1.8	4.2	4.2	4.2	4.2	40.8	26.2	26.2	26.2	26.2	29.42
21	1SV21EC021	NAVEENA K J	23	16	14	23	8	8	7	7	2	2	2	2	2	8	1.6	4.2	4.2	4.2	4.2	26.6	14.2	14.2	13.2	13.2	22.7
22	1SV21EC022	NETHRAVATHI A V	30	35	26	30	17.5	17.5	13	13	2	2	2	2	2	8	6.4	4.2	4.2	4.2	4.2	38.4	23.7	23.7	19.2	19.2	20.56
23	1SV21EC023	NIHARIKA S	40	40	40	40	20	20	20	20	2	2	2	2	2	32	6.4	4.2	4.2	4.2	4.2	48.4	26.2	26.2	26.2	26.2	27.74
24	1SV19EC027	PUNYASHREE V	40	40	40	40	20	20	20	20	2	2	2	2	2	32	3.6	4.2	4.2	4.2	4.2	45.6	26.2	26.2	26.2	26.2	30.56
25	1SV19EC028	PATIL	27	36	38	27	18	18	19	19	2	2	2	2	2	18	5	4.2	4.2	4.2	4.2	34	24.2	24.2	25.2	25.2	28.32
26	1SV19EC029	RAHAYABEEN	4	38	40	4	19	19	20	20	2	2	2	2	2	25	4	4.2	4.2	4.2	4.2	10	25.2	25.2	26.2	26.2	24.56
27	1SV21EC024	NANJANA N J	20	20	36	20	10	10	18	18	2	2	2	2	2	20	5.8	4.2	4.2	4.2	4.2	27.8	16.2	16.2	24.2	24.2	22.14
28	1SV21EC025	S N	28	21	29	28	10.5	10.5	14	14	2	2	2	2	2	29	4	4.2	4.2	4.2	4.2	34	16.7	16.7	20.2	20.2	21.64
29	1SV21EC027	SHOBHARANI H L	33	24	35	33	12	12	17.5	17.5	2	2	2	2	2	20	4.8	4.2	4.2	4.2	4.2	39.8	18.2	18.2	23.7	23.7	23.14
30	1SV21EC028	SUPRITH K U	27	22	33	27	11	11	16.5	16.5	2	2	2	2	2	24	0.4	4.2	4.2	4.2	4.2	29.4	17.2	17.2	22.7	22.7	23.28
31	1SV21EC029	SYED AYAZ		23	34	0	11.5	11.5	17	17	2	2	2	2	2	2	6	4.2	4.2	4.2	4.2	8	17.7	17.7	23.2	23.2	19.5
32	1SV21EC030	THANUJA	39	40	40	39	20	20	20	20	2	2	2	2	2	30	7.4	4.2	4.2	4.2	4.2	48.4	26.2	26.2	26.2	26.2	24.3
33	1SV21EC031	USHA R	40	40	39	40	20	20	19.5	19.5	2	2	2	2	2	37	4	4.2	4.2	4.2	4.2	48	26.2	26.2	25.7	25.7	30.3
34	1SV21EC032	VAISHNAVI C T	40	40	40	40	20	20	20	20	2	2	2	2	2	20	2.6	4.2	4.2	4.2	4.2	44.6	26.2	26.2	26.2	26.2	29.92
35	1SV22EC400	JYOTHI N	40	38	0	40	19	19	0	0	2	2	2	2	2	13	1.6	4.2	4.2	4.2	4.2	43.6	25.2	25.2	6.2	6.2	25.56
36	1SV22EC401	PRIYANKA N	40	38	0	40	19	19	0	0	2	2	2	2	2	6	2.2	4.2	4.2	4.2	4.2	44.2	25.2	25.2	6.2	6.2	23.95636
37	1SV22EC402	SHASHANK P	40	40	0	40	20	20	0	0	2	2	2	2	2	11	7.4	4.2	4.2	4.2	4.2	49.4	26.2	26.2	6.2	6.2	22.12
38	1SV22EC403	SHIVARAJ M H	40	36	0	40	18	18	0	0	2	2	2	2	2	37	5.8	4.2	4.2	4.2	4.2	47.8	24.2	24.2	6.2	6.2	22.28
39	1SV22EC404	Pushpalatha	40	37	40	40	18.5	18.5	20	20	2	2	2	2	2	29	6	4.2	4.2	4.2	4.2	50	24.7	24.7	26.2	26.2	26.04
40	1SV22EC405	SAMUHA S	40	40	39	40	20	20	19.5	19.5	2	2	2	2	2	40	4.2	4.2	4.2	4.2	4.2	46.2	26.2	26.2	25.7	25.7	30.18
41	1SV22EC406	SAVEERTHA N	40	37	38	40	18.5	18.5	19	19	2	2	2	2	2	21	6.8	4.2	4.2	4.2	4.2	48.8	24.7	24.7	25.2	25.2	29.86
42	1SV22EC407	PREETHI A	40	40	40	40	20	20	20	20	2	2	2	2	2	34	6.8	4.2	4.2	4.2	4.2	48.8	26.2	26.2	26.2	26.2	30.72
																						39.72857	23.1881	23.1881	25.83095	25.83095	
																						76.40%	72.46%	89.18%	99.35%	99.35%	

COURSE INSTRUCTOR

HOD

HOD
Dept of E&C
SIET, Tumkur-6

PRINCIPAL

PRINCIPAL
SIET, TUMKUR.

SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

SUBJECT	CCN	SUBJECT CODE	21EC53

COURSE OUTCOME

CO1. Understand the layering architecture of OSI reference model and TCP/IP protocol suite.
CO2. Understand the protocols associated with each layer.
CO3. Learn the different networking architectures and their representations.
CO4. Learn the functions and services associated with each layer.

PROGRAM OUTCOMES

PO1 Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.

PO2 Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3 Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.

PO4 Conduct investigations of complex Problem: An ability to identify, formulate, comprehend, analyze, design synthesis of the information to solve complex engineering problems and provide valid conclusions.

PO5 Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex engineering activities.

PO6 The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.

PO7 Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9 Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10 Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.

PO11 Project management and finance: An ability to use the modern engineering tools, techniques, skills and management principles to do work as a member and leader in a team, to manage projects in multidisciplinary environments.

PO12 Life-long learning: A recognition of the need for, and an ability to engage in, to resolve contemporary issues and acquire lifelong learning.

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY				
FACULTY NAME	PROF. PRADEEP KUMAR S S				
BRANCH	ECE	ACADEMIC YEAR	2023-24		
COURSE	B.E	SEMESTER	V	SECTION	ECE
SUBJECT	CCN	SUBJECT CODE	21EC53		

CO & PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	2	-	-								
CO2	2	3	-	-								
CO3	2	-	-	2								
CO4	-	3		2								
AVERAGE	2	2.6		2								
											OVERALL MAPPING OF SUBJECT	2.2

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	64.80%	1.29	1.29										
CO2	79.75%	1.59	2.39	-	-								
CO3	72.56%	1.45	-	-	1.45								
CO4	72.56%	-	2.17		1.45								
AVERAGE	72.41	1.44	1.95		1.45								
												FINAL ATTAINMENT LEVEL	1.61

			21EC53		2023-2024 ODD			SEM /V SEM		PROF. PRADEEP KUMAR S S			CCN											
			T1			T2		T3		ASSIGNMENT and Quiz 10/5						SEE MARKS					Final					
Rol No	USN	Name	T1(40)	T2(40)	T3(40)	CO1-40	CO2-20	CO3-20	CO4-20	CO5-20	CO1-2	CO2-2	CO3-2	CO4-2	CO5-2	50	CO1-10	CO2-10	CO3-10	CO4-10	CO5-10	CO1-32	CO2-32	CO3-32	CO4-32	CO5-32	TOTAL AVERAGE
1	1SV21EC001	[illegible]	29	17	30	29	8.5	8.5	15	15	2	2	2	2	2	6	1.2	4.2	4.2	4.2	4.2	32.2	14.7	14.7	21.2	21.2	20.8
2	1SV21EC002	[illegible]	40	37	39	40	18.5	18.5	19.5	19.5	2	2	2	2	2	36	7.2	4.2	4.2	4.2	4.2	49.2	24.7	24.7	25.7	25.7	25.4
3	1SV21EC003	BHAVANA M S	38	39	38	38	19.5	19.5	19	19	2	2	2	2	2	36	7.2	4.2	4.2	4.2	4.2	47.2	25.7	25.7	25.2	25.2	29.9
4	1SV21EC004	G HARAN	10	18	18	10	9	9	9	9	2	2	2	2	2	18	3.6	4.2	4.2	4.2	4.2	15.6	15.2	15.2	15.2	15.2	22.54
5	1SV21EC005	[illegible]	26	36	27	26	18	18	13.5	13.5	2	2	2	2	2	25	5	4.2	4.2	4.2	4.2	33	24.2	24.2	19.7	19.7	19.72
6	1SV21EC006	N	9	14	14	9	7	7	7	7	2	2	2	2	2	25	5	4.2	4.2	4.2	4.2	18	13.2	13.2	13.2	13.2	18.96
7	1SV21EC007	[illegible]	33	37	38	35	18.5	18.5	19	19	2	2	2	2	2	22	4.4	4.2	4.2	4.2	4.2	41.4	24.7	24.7	25.2	25.2	21
8	1SV21EC008	[illegible]	40	40	39	40	20	20	19.5	19.5	2	2	2	2	2	36	7.2	4.2	4.2	4.2	4.2	49.2	26.2	26.2	25.7	25.7	29.42
9	1SV21EC009	HARSHITHA T	34	37	39	34	18.5	18.5	19.5	19.5	2	2	2	2	2	36	7.2	4.2	4.2	4.2	4.2	43.2	24.7	24.7	25.7	25.7	29.7
10	1SV21EC010	KAVYA. S M	24	36	27	24	18	18	13.5	13.5	2	2	2	2	2	28	5.2	4.2	4.2	4.2	4.2	31.2	25.2	25.2	19.7	19.7	26.5
11	1SV21EC011	[illegible]	31	35	33	31	17.5	17.5	16.5	16.5	2	2	2	2	2	24	4.8	4.2	4.2	4.2	4.2	37.8	23.7	23.7	22.7	22.7	25.16
12	1SV21EC012	[illegible]	28	18	27	28	9	9	13.5	13.5	2	2	2	2	2	36	7.2	4.2	4.2	4.2	4.2	37.2	15.2	15.2	19.7	19.7	23.76
13	1SV21EC013	M VIJYA	36	39	36	36	19.5	19.5	18	18	2	2	2	2	2	32	6.4	4.2	4.2	4.2	4.2	44.4	25.7	25.7	24.2	24.2	25.12
14	1SV21EC014	MAMATHA N	32	30	30	32	15	15	15	15	2	2	2	2	2	28	5.6	4.2	4.2	4.2	4.2	39.6	21.2	21.2	21.2	21.2	26.88
15	1SV21EC015	MEGHANA M P	36	38	39	36	19	19	19.5	19.5	2	2	2	2	2	31	6.2	4.2	4.2	4.2	4.2	44.2	25.2	25.2	25.7	25.7	27.04
16	1SV21EC016	[illegible]	19	15	8	19	7.5	7.5	4	4	2	2	2	2	2	12	2.4	4.2	4.2	4.2	4.2	23.4	13.7	13.7	10.2	10.2	21.72
17	1SV21EC017	MOHAN K R		8	13	0	3	3	6.5	6.5	2	2	2	2	2	3	0.6	4.2	4.2	4.2	4.2	2.6	9.2	9.2	12.7	12.7	11.76
18	1SV21EC018	MUNIKA K R	40	38	39	40	19	19	19.5	19.5	2	2	2	2	2	33	6.6	4.2	4.2	4.2	4.2	48.6	25.2	25.2	25.7	25.7	19.68
19	1SV21EC019	KUMAR T	36	38	38	36	19	19	18.5	19.5	2	2	2	2	2	37	7.4	4.2	4.2	4.2	4.2	45.4	25.2	25.2	25.7	25.7	29.76
20	1SV21EC020	NANDINI T	35	29	36	35	14.5	14.5	18	18	2	2	2	2	2	31	6.2	4.2	4.2	4.2	4.2	43.2	20.7	20.7	24.2	24.2	28.02
21	1SV21EC021	NAVEENA K J	10	14	19	10	7	7	9.5	9.5	2	2	2	2	2	20	4	4.2	4.2	4.2	4.2	16	13.2	13.2	15.7	15.7	20.68
22	1SV21EC022	V	18	27	27	18	13.5	13.5	13.5	13.5	2	2	2	2	2	23	4.6	4.2	4.2	4.2	4.2	34.6	19.7	19.7	19.7	19.7	17.72
23	1SV21EC023	MHARIKA N	38	23	35	38	12.5	12.5	17.5	17.5	2	2	2	2	2	23	4.6	4.2	4.2	4.2	4.2	44.6	18.7	18.7	23.7	23.7	23.28
24	1SV19EC027	POOJASHREE V	39	40	38	39	20	20	19	19	2	2	2	2	2	28	5.6	4.2	4.2	4.2	4.2	48.6	26.2	26.2	25.2	25.2	27.88
25	1SV19EC028	PATIL [illegible]	16	27	23	16	13.5	13.5	12.5	12.5	2	2	2	2	2	28	5.6	4.2	4.2	4.2	4.2	23.6	19.7	19.7	18.7	18.7	24.98
26	1SV19EC029	[illegible]	26	23	37	26	12.5	12.5	18.5	18.5	2	2	2	2	2	26	5.6	4.2	4.2	4.2	4.2	33.6	18.7	18.7	24.7	24.7	22.08
27	1SV21EC024	SANJANA N J	10	0	6	10	0	0	3	3	2	2	2	2	2	6	1.2	4.2	4.2	4.2	4.2	13.2	6.2	6.2	9.2	9.2	16.44
28	1SV21EC025	KUMAR [illegible] N	10	4	16	10	2	2	8	8	2	2	2	2	2	10	2	4.2	4.2	4.2	4.2	14	8.2	8.2	14.2	14.2	10.28
29	1SV21EC027	[illegible]	32	27	19	32	13.5	13.5	9.5	9.5	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	38.2	19.7	19.7	15.7	15.7	16.78
30	1SV21EC028	NAVNITH K U	10	17	16	10	8.5	8.5	8	8	2	2	2	2	2	19	3.8	4.2	4.2	4.2	4.2	15.8	14.7	14.7	14.2	14.2	18.26
31	1SV21EC029	SYED AYAZ	0	27	0	0	13.5	13.5	0	0	2	2	2	2	2	12	2.4	4.2	4.2	4.2	4.2	6.4	19.7	19.7	6.2	6.2	12.98
32	1SV21EC030	THANUJA	39	38	37	39	19	19	18.5	18.5	2	2	2	2	2	27	5.4	4.2	4.2	4.2	4.2	46.4	25.2	25.2	24.7	24.7	30.24
33	1SV21EC031	USHA R	39	38	38	39	19	19	19	19	2	2	2	2	2	26	5.2	4.2	4.2	4.2	4.2	46.2	25.2	25.2	25.2	25.2	29.32
34	1SV21EC032	T	36	32	0	36	16	16	0	0	2	2	2	2	2	32	5.2	4.2	4.2	4.2	4.2	43.2	22.2	22.2	6.2	6.2	24.7
35	1SV22EC401	JYOTHI N	40	38	0	40	19	19	0	0	2	2	2	2	2	28	6.4	4.2	4.2	4.2	4.2	48.4	25.2	25.2	6.2	6.2	21.12
36	1SV22EC402	PRIYANKA N	27	24	0	27	12	12	0	0	2	2	2	2	2	19	3.8	4.2	4.2	4.2	4.2	34.8	18.2	18.2	6.2	6.2	19.08727
37	1SV22EC403	P	29	35	0	29	17.5	17.5	0	0	2	2	2	2	2	18	3.8	4.2	4.2	4.2	4.2	34.8	23.7	23.7	6.2	6.2	17.8
38	1SV22EC404	SHIVARAJ M H	30	37	0	30	18.5	18.5	0	0	2	2	2	2	2	30	3.6	4.2	4.2	4.2	4.2	35.6	24.7	24.7	6.2	6.2	19.2
39	1SV22EC405	Pushpalatha	33	37	34	33	18.5	18.5	17	17	2	2	2	2	2	25	6	4.2	4.2	4.2	4.2	41	24.7	24.7	23.2	23.2	23.42
40	1SV22EC406	JAMUNA S	21	38	36	21	19	19	18	18	2	2	2	2	2	35	5	4.2	4.2	4.2	4.2	28	25.2	25.2	24.2	24.2	26.36
41	1SV22EC407	SHWEDITHA N	38	33	33	38	16.5	16.5	16.5	16.5	2	2	2	2	2	18	7	4.2	4.2	4.2	4.2	47	22.7	22.7	22.7	22.7	26.46
42	1SV22EC408	PREETHI A	40	39	39	40	19.5	19.5	19.5	19.5	2	2	2	2	2	33	3.6	4.2	4.2	4.2	4.2	45.6	25.7	25.7	25.7	25.7	29.68
																	6.6					34.52381	20.73571	20.73571	18.86667	18.86667	
																						66.39%	64.80%	79.75%	72.56%	72.56%	

COURSE INSTRUCTOR

HOD

HOD
Dept of E&C
SIET, Tumkur-6

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SIET. TUMKUR.

SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

SUBJECT	ELECTROMAGNETIC WAVES	SUBJECT CODE	21EC54

COURSE OUTCOME

CO 1.Describe the microwave properties and its transmission media.
CO 2 Describe the microwave devices for several applications.
CO 3 Understand the basic concepts of antenna theory.
CO4 Identify antenna types for specific applications.

PROGRAM OUTCOMES

PO1 Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.
PO2 Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
PO3 Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.
PO4 Conduct investigations of complex Problem: An ability to identify, formulate, comprehend, analyze, design synthesis of the information to solve complex engineering problems and provide valid conclusions.
PO5 Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex engineering activities.
PO6 The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.
PO7 Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
PO8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
PO9 Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
PO10 Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.
PO11 Project management and finance: An ability to use the modern engineering tools, techniques, skills and management principles to do work as a member and leader in a team, to manage projects in multidisciplinary environments.
PO12 Life-long learning: A recognition of the need for, and an ability to engage in, to resolve contemporary issues and acquire lifelong learning.

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY				
FACULTY NAME	DR.GIREESHA B				
BRANCH	ECE	ACADEMIC YEAR	2023-24		
COURSE	B.E	SEMESTER	V	SECTION	ECE
SUBJECT	ELECTROMAGNETIC WAVES			SUBJECT CODE	21EC54

CO & PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	2	-	-								
CO2	2	3	-	-								
CO3	3	-	-	2								
CO4	-	-	2	-								
AVERAGE	2.3	3	2	2								
OVERALL MAPPING OF SUBJECT												2.325

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	55.57%	1.2	1.2		-								
CO2	68.40%	1.4	2.1	-	-								
CO3	71.05%	1.9	-	-	1.2								
CO4	71.05%	-	-	1.2	-								
AVERAGE	66.51	1.25	1.64	1.06	1.09								
FINAL ATTAINMENT LEVEL													1.26

			21EC54		2023-2024 ODD			SEM :IV SEM		DR.GIREESHA B				EW											
						T1	T2		T3	ASSIGNMENT and Quiz :30/5						SEE MARKS					Final					
Roll No	USN	Name	T1(30)	T2(20)	T3(20)	CO1-30	CO3-10	CO3-10	CO4-10	CO5-10	CO1-6	CO2-6	CO3-6	CO4-6	CO5-6	60	CO1-10	CO2-10	CO3-10	CO4-10	CO5-10	CO1-62	CO2-32	CO3-32	CO4-32	CO5-32	TOTAL AVERAGE
1	1SV21EC001	ABHISHEK H K	0	10	11	0	5	5	5.5	5.5	6	6	6	6	6	10	2	4.2	4.2	4.2	4.2	8	15.2	15.2	15.7	15.7	13.96
2	1SV21EC002	ABHISHEK R	20	20	20	20	10	10	10	10	6	6	6	6	6	36	7.2	4.2	4.2	4.2	4.2	33.2	20.2	20.2	20.2	20.2	18.38
3	1SV21EC003	BHAVANA M N	20	20	20	20	10	10	10	10	6	6	6	6	6	31	6.2	4.2	4.2	4.2	4.2	32.2	20.2	20.2	20.2	20.2	22.7
4	1SV21EC004	CHARAN	16	8	13	16	4	4	6.5	6.5	6	6	6	6	6	29	5.8	4.2	4.2	4.2	4.2	29.8	14.2	14.2	16.7	16.7	20.46
5	1SV21EC005	DIVYASHREE N N	16	18	16	16	9	9	8	8	6	6	6	6	6	11	2.2	4.2	4.2	4.2	4.2	24.2	19.2	19.2	18.2	18.2	19.06
6	1SV21EC006	GAGAN KUMAR N	4	18	7	4	9	9	3.5	3.5	6	6	6	6	6	8	1.6	4.2	4.2	4.2	4.2	13.6	19.2	19.2	13.7	13.7	17.64
7	1SV21EC007	GOWTHAMI H L	20	17	20	20	8.5	8.5	10	10	6	6	6	6	6	7	1.4	4.2	4.2	4.2	4.2	27.4	18.7	18.7	20.2	20.2	18.26
8	1SV21EC008	HAMSAVENI T H	20	20	20	20	10	10	10	10	6	6	6	6	6	18	3.6	4.2	4.2	4.2	4.2	29.6	20.2	20.2	20.2	20.2	21.56
9	1SV21EC009	HARSHITHA T	20	20	20	20	10	10	10	10	6	6	6	6	6	20	4	4.2	4.2	4.2	4.2	30	20.2	20.2	20.2	20.2	22.12
10	1SV21EC010	KAVYA S M	19	17	19	19	8.5	8.5	9.5	9.5	6	6	6	6	6	29	5.8	4.2	4.2	4.2	4.2	30.8	18.7	18.7	19.7	19.7	21.84
11	1SV21EC011	DIVYAMANI	19	19	20	19	9.5	9.5	10	10	6	6	6	6	6	18	3.6	4.2	4.2	4.2	4.2	28.6	19.7	19.7	20.2	20.2	21.6
12	1SV21EC012	LOKESH H	5	10	15	5	5	5	7.5	7.5	6	6	6	6	6	1	0.2	4.2	4.2	4.2	4.2	11.2	15.2	15.2	17.7	17.7	14.54
13	1SV21EC013	M. NEHA	19	19	19	19	9.5	9.5	9.5	9.5	6	6	6	6	6	8	1.6	4.2	4.2	4.2	4.2	28.6	19.7	19.7	19.7	19.7	18.24
14	1SV21EC014	MAMATHA N	18	18	18	18	9	9	9	9	6	6	6	6	6	9	1.8	4.2	4.2	4.2	4.2	25.8	19.2	19.2	19.2	19.2	20.8
15	1SV21EC015	MEGHANA M P	20	18	20	20	9	9	10	10	6	6	6	6	6	10	2	4.2	4.2	4.2	4.2	28	19.2	19.2	20.2	20.2	20.94
16	1SV21EC016	RAGHAVENDRA J	7	7	6	7	3.5	3.5	3	3	6	6	6	6	6	2	0.4	4.2	4.2	4.2	4.2	13.4	13.7	13.7	13.2	13.2	17.4
17	1SV21EC017	MUNAF K. H	8	8	9	8	4	4	4.5	4.5	6	6	6	6	6	0	0	4.2	4.2	4.2	4.2	14	14.2	14.2	14.7	14.7	13.9
18	1SV21EC018	MUNIRA K. H	20	20	20	20	10	10	10	10	6	6	6	6	6	18	3.6	4.2	4.2	4.2	4.2	29.6	20.2	20.2	20.2	20.2	18.22
19	1SV21EC019	N	18	20	19	18	10	10	9.5	9.5	6	6	6	6	6	30	7.8	4.2	4.2	4.2	4.2	31.8	20.2	20.2	19.7	19.7	22.2
20	1SV21EC020	NANDINI T	19	18	19	19	9	9	9.5	9.5	6	6	6	6	6	29	5.8	4.2	4.2	4.2	4.2	30.8	19.2	19.2	19.7	19.7	22.02
21	1SV21EC021	NAVEENA K J	20	6	0	20	3	3	0	0	6	6	6	6	6	0	0	4.2	4.2	4.2	4.2	26	13.2	13.2	10.2	10.2	18.14
22	1SV21EC022	NITHRAVATHI S	8	11	13	8	5.5	5.5	6.5	6.5	6	6	6	6	6	11	2.2	4.2	4.2	4.2	4.2	16.2	15.7	15.7	16.7	16.7	15.38
23	1SV21EC023	NIHARIKA N	5	10	15	5	5	5	7.5	7.5	6	6	6	6	6	39	7.8	4.2	4.2	4.2	4.2	16.8	15.2	15.2	17.7	17.7	16.56
24	1SV19EC027	POORNASHREE V	20	18	19	20	9	9	9.5	9.5	6	6	6	6	6	39	7.8	4.2	4.2	4.2	4.2	33.8	19.2	19.2	19.7	19.7	19.62
25	1SV19EC028	PATIL	10	14	17	10	7	7	8.5	8.5	6	6	6	6	6	23	4.6	4.2	4.2	4.2	4.2	20.6	17.2	17.2	18.7	18.7	20.4
26	1SV19EC029	RAMAVARDHAN	19	11	18	19	5.5	5.5	9	9	6	6	6	6	6	25	5	4.2	4.2	4.2	4.2	30	15.7	15.7	19.2	19.2	19.22
27	1SV21EC024	NANJANA N J	12	4	8	12	2	2	4	4	6	6	6	6	6	7	1.4	4.2	4.2	4.2	4.2	19.4	12.2	12.2	14.2	14.2	17.2
28	1SV21EC025	P N	18	11	0	18	5.5	5.5	0	0	6	6	6	6	6	2	0.4	4.2	4.2	4.2	4.2	24.4	15.7	15.7	10.2	10.2	14.84
29	1SV21EC027	PRABHARAJ H L	17	13	14	17	8.5	8.5	7	7	6	6	6	6	6	26	5.2	4.2	4.2	4.2	4.2	26.2	16.7	16.7	17.2	17.2	17.22
30	1SV21EC030	NIPREEN K U	17	6	11	17	3	3	5.5	5.5	6	6	6	6	6	20	4	4.2	4.2	4.2	4.2	27	13.2	13.2	15.7	15.7	18.08
31	1SV21EC029	SYED AYAZ	13	14	16	13	7	7	8	8	6	6	6	6	6	18	3.6	4.2	4.2	4.2	4.2	22.6	17.2	17.2	18.2	18.2	17.82
32	1SV21EC030	THANUJA	20	20	20	20	10	10	10	10	6	6	6	6	6	37	7.4	4.2	4.2	4.2	4.2	33.4	20.2	20.2	20.2	20.2	20.76
33	1SV21EC031	USHA E	19	19	20	19	9.5	9.5	10	10	6	6	6	6	6	18	3.6	4.2	4.2	4.2	4.2	28.6	19.7	19.7	20.2	20.2	22.26
34	1SV21EC032	VAIBHAVI C T	20	20	20	20	10	10	10	10	6	6	6	6	6	29	5.8	4.2	4.2	4.2	4.2	31.8	20.2	20.2	20.2	20.2	22.1
35	1SV22EC401	JYOTHI N	20	16	22	20	8	8	11	11	6	6	6	6	6	27	5.4	4.2	4.2	4.2	4.2	31.4	18.2	18.2	21.2	21.2	22.28
36	1SV22EC405	PRIYANKA N	18	15	24	18	7.5	7.5	12	12	6	6	6	6	6	18	3.6	4.2	4.2	4.2	4.2	27.6	17.7	17.7	22.2	22.2	19.54909
37	1SV22EC412	SHASHANK P	16	15	32	16	7.5	7.5	16	16	6	6	6	6	6	9	1.8	4.2	4.2	4.2	4.2	23.8	17.7	17.7	26.2	26.2	21.9
38	1SV22EC413	SHIVARAJ M H	16	16	17	16	8	8	8.5	8.5	6	6	6	6	6	22	4.4	4.2	4.2	4.2	4.2	26.4	18.2	18.2	18.7	18.7	21.18
39	1SV22EC414	Pushpalatha	19	18	19	19	9	9	9.5	9.5	6	6	6	6	6	34	6.8	4.2	4.2	4.2	4.2	31.8	19.2	19.2	19.7	19.7	20.98
40	1SV22EC415	JAMUNA S	20	18	20	20	9	9	10	10	6	6	6	6	6	34	6.8	4.2	4.2	4.2	4.2	32.8	19.2	19.2	20.2	20.2	22.12
41	1SV22EC416	NIVEDITHA N	19	18	19	19	9	9	9.5	9.5	6	6	6	6	6	18	3.6	4.2	4.2	4.2	4.2	28.6	19.2	19.2	19.7	19.7	21.8
42	1SV22EC417	PREETHI A	20	19	20	20	9.5	9.5	10	10	6	6	6	6	6	36	7.2	4.2	4.2	4.2	4.2	33.2	19.7	19.7	20.2	20.2	22.6
																						26.02381	17.78333	17.78333	18.47381	18.47381	
																						50.05%	55.57%	55.57%	71.05%	71.05%	

COURSE INSTRUCTOR

HOD

HOD
Dept of E&C
SIET, Tumkur-6

PRINCIPAL

PRINCIPAL
SIET. TUMKUR.

SHRIDEVI

SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

SUBJECT	ENVIRONMENTAL STUDIES	SUBJECT CODE	21CIV57

COURSE OUTCOME

- CO1: Understand the principles of ecology and environmental issues that apply to air, land, and water issues on a global scale.
- CO2: Develop critical thinking and/or observation skills, and apply them to the analysis of a problem or question related to the environment.
- CO3: Demonstrate ecology knowledge of a complex relationship between biotic and a biotic components.
- CO4: Apply their ecological knowledge to illustrate and graph a problem and describe the realities that managers face when dealing with complex issues.

PROGRAM OUTCOMES

PO1 Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.

PO2 Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3 Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.

PO4 Conduct investigations of complex Problem: An ability to identify, formulate, comprehend, analyze, design synthesis of the information to solve complex engineering problems and provide valid conclusions.

PO5 Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex engineering activities.

PO6 The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.

PO7 Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9 Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10 Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.

PO11 Project management and finance: An ability to use the modern engineering tools, techniques, skills and management principles to do work as a member and leader in a team, to manage projects in multidisciplinary environments.

PO12 Life-long learning: A recognition of the need for, and an ability to engage in, to resolve contemporary issues and acquire lifelong learning.

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	Dr. UMESHA G B											
BRANCH	ECE			ACADEMIC YEAR			2023-24					
COURSE	B.E	SEMESTER	V	SECTION	ECE							
SUBJECT	ENVIRONMENTAL STUDIES			SUBJECT CODE	21CIV57							
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	2	-	-								
CO2	1	2										
CO3	1	1	1									
CO4	3	3	-	2								
AVERAGE	2	2.5	-	2								
											OVERALL MAPPING OF SUBJECT	2.16

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	51.59%	1.08	1.08										
CO2	51.59%	0.47	0.95										
CO3	79.57%	0.63	0.63	0.63									
CO4	79.57%	1.89	1.89		1.26								
AVERAGE	65.58	1.01	1.13	0.63	1.26								
												FINAL ATTAINMENT LEVEL	1.007

			21EC57		2025-2024 ODD				SEM /V SEM		PROF. SHREE LAKSHMI				ES											
					T1	T2			T3		ASSIGNMENT and Quiz :10/5						SEE MARKS					Final					
Reg No	USN	Name	T1(40)	T2(40)	T3(40)	CO1-40	CO2-20	CO3-20	CO4-20	CO5-20	CO1-2	CO2-2	CO3-2	CO4-2	CO5-2	80	CO1-10	CO2-10	CO3-10	CO4-10	CO5-10	CO1-32	CO2-32	CO3-32	CO4-32	CO5-32	TOTAL AVERAGE
1	1SV21EC001	ABHISHEK H K	14	17	22	14	8.5	8.5	11	11	2	2	2	2	2	22	4.4	4.2	4.2	4.2	4.2	20.4	14.7	14.7	17.2	17.2	16.84
2	1SV21EC002	ANANDA B	16	16	40	16	8	8	20	20	2	2	2	2	2	33	6.6	4.2	4.2	4.2	4.2	24.6	14.2	14.2	26.2	26.2	18.96
3	1SV21EC003	BHAVANA M V	13	18	35	13	9	9	17.5	17.5	2	2	2	2	2	34	6.8	4.2	4.2	4.2	4.2	23.8	15.2	15.2	23.7	23.7	20.5
4	1SV21EC004	DAWOOD SAIF HASSAN	14	14	20	14	7	7	10	10	2	2	2	2	2	18	3.6	4.2	4.2	4.2	4.2	19.6	13.2	13.2	16.2	16.2	17.9
5	1SV21EC005	DIVYASHREE S A	14	16	25	14	8	8	12.5	12.5	2	2	2	2	2	36	7.2	4.2	4.2	4.2	4.2	23.2	14.2	14.2	18.7	18.7	16.74
6	1SV21EC006	GAGAN KUMAR N	16	17	22	16	8.5	8.5	11	11	2	2	2	2	2	18	3.6	4.2	4.2	4.2	4.2	21.6	14.7	14.7	17.2	17.2	17.44
7	1SV21EC007	GAYITHAMBIKA	14	16	0	14	8	8	0	0	2	2	2	2	2	26	5.2	4.2	4.2	4.2	4.2	21.2	14.2	14.2	6.2	6.2	14.34
8	1SV21EC008	HARSHAVENI T H	0	16	30	0	8	8	15	15	2	2	2	2	2	33	6.6	4.2	4.2	4.2	4.2	8.6	14.2	14.2	21.2	21.2	14.14
9	1SV21EC009	HARSHITHA T	16	17	30	16	8.5	8.5	15	15	2	2	2	2	2	38	7.6	4.2	4.2	4.2	4.2	25.6	14.7	14.7	21.2	21.2	17.68
10	1SV21EC010	KAVYA N M	14	16	38	14	8	8	19	19	2	2	2	2	2	25	5	4.2	4.2	4.2	4.2	21	14.2	14.2	25.2	25.2	19.72
11	1SV21EC011	[illegible]	15	16	30	15	8	8	15	15	2	2	2	2	2	34	6.8	4.2	4.2	4.2	4.2	23.8	14.2	14.2	21.2	21.2	19.44
12	1SV21EC012	[illegible]	0	14	32	0	7	7	16	16	2	2	2	2	2	35	7	4.2	4.2	4.2	4.2	9	13.2	13.2	22.2	22.2	17.44
13	1SV21EC013	M VEENA	16	18	30	16	9	9	15	15	2	2	2	2	2	20	4	4.2	4.2	4.2	4.2	22	15.2	15.2	21.2	21.2	17.46
14	1SV21EC014	MAMATHA N	13	16	30	13	8	8	15	15	2	2	2	2	2	33	6.6	4.2	4.2	4.2	4.2	21.6	14.2	14.2	21.2	21.2	18.72
15	1SV21EC015	MUCHANA M P	14	15	40	14	7.5	7.5	20	20	2	2	2	2	2	44	8.8	4.2	4.2	4.2	4.2	24.8	13.7	13.7	26.2	26.2	19.7
16	1SV21EC016	MUNI[illegible]	14	12	12	14	6	6	6	6	2	2	2	2	2	10	2	4.2	4.2	4.2	4.2	18	12.2	12.2	12.2	12.2	17.14
17	1SV21EC017	MUNNA K R	0	17	20	0	8.5	8.5	10	10	2	2	2	2	2	7	1.4	4.2	4.2	4.2	4.2	5.4	14.7	14.7	16.2	16.2	13.2
18	1SV21EC018	NAVIKA K R	16	16	40	16	8	8	20	20	2	2	2	2	2	40	8	4.2	4.2	4.2	4.2	26	14.2	14.2	26.2	26.2	17.2
19	1SV21EC019	NANDAN KUMAR T	15	18	40	15	8	8	20	20	2	2	2	2	2	39	7.8	4.2	4.2	4.2	4.2	24.8	14.2	14.2	26.2	26.2	21.34
20	1SV21EC020	NANDINI T	16	16	30	16	8	8	15	15	2	2	2	2	2	29	5.8	4.2	4.2	4.2	4.2	23.8	14.2	14.2	21.2	21.2	20.02
21	1SV21EC021	NAVEENA K J	13	17	14	13	8.5	8.5	7	7	2	2	2	2	2	0	0	4.2	4.2	4.2	4.2	15	14.7	14.7	13.2	13.2	16.54
22	1SV21EC022	NITHRAVATHI S V	15	15	40	15	7.5	7.5	20	20	2	2	2	2	2	11	2.2	4.2	4.2	4.2	4.2	19.2	13.7	13.7	26.2	26.2	16.98
23	1SV21EC023	NIHARIKA S	0	17	30	0	8.5	8.5	15	15	2	2	2	2	2	39	7.8	4.2	4.2	4.2	4.2	9.8	14.7	14.7	21.2	21.2	18.06
24	1SV19EC027	POOJASHREE V	16	17	40	16	8.5	8.5	20	20	2	2	2	2	2	39	7.8	4.2	4.2	4.2	4.2	25.8	14.7	14.7	26.2	26.2	18.92
25	1SV19EC028	R P HARSHITH PATIL	13	14	28	13	7	7	14	14	2	2	2	2	2	23	4.6	4.2	4.2	4.2	4.2	19.6	13.2	13.2	20.2	20.2	15.4
26	1SV19EC029	RENAVAREDDY	15	19	33	15	9.5	9.5	18.5	18.5	2	2	2	2	2	25	5	4.2	4.2	4.2	4.2	22	15.7	15.7	24.7	24.7	18.92
27	1SV21EC024	SANJANA N J	14	16	8	14	8	8	4	4	2	2	2	2	2	7	1.4	4.2	4.2	4.2	4.2	17.4	14.2	14.2	10.2	10.2	16.9
28	1SV21EC025	SI	14	15	19	14	7.5	7.5	9.5	9.5	2	2	2	2	2	2	0.4	4.2	4.2	4.2	4.2	16.4	13.7	13.7	15.7	15.7	14.14
29	1SV21EC027	SHOBHARAJ H L	16	15	30	16	7.5	7.5	15	15	2	2	2	2	2	26	5.2	4.2	4.2	4.2	4.2	23.2	13.7	13.7	21.2	21.2	16.82
30	1SV21EC028	SUSHITH K U	14	16	22	14	8	8	11	11	2	2	2	2	2	20	4	4.2	4.2	4.2	4.2	20	14.2	14.2	17.2	17.2	17.58
31	1SV21EC029	SYED AYAZ	0	16	26	0	8	8	13	13	2	2	2	2	2	18	3.6	4.2	4.2	4.2	4.2	5.6	14.2	14.2	19.2	19.2	15.52
32	1SV21EC030	THANUJA	16	17	33	16	8.5	8.5	16.5	16.5	2	2	2	2	2	37	7.4	4.2	4.2	4.2	4.2	25.4	14.7	14.7	22.7	22.7	17.26
33	1SV21EC031	USHA R	16	16	35	16	8	8	17.5	17.5	2	2	2	2	2	18	3.6	4.2	4.2	4.2	4.2	21.6	14.2	14.2	23.7	23.7	19.76
34	1SV21EC032	VAISHNAVI C T	16	16	35	16	8	8	17.5	17.5	2	2	2	2	2	29	5.8	4.2	4.2	4.2	4.2	23.8	14.2	14.2	23.7	23.7	19.7
35	1SV22EC400	JYOTHI N	0	0	22	0	0	0	11	11	2	2	2	2	2	27	5.4	4.2	4.2	4.2	4.2	7.4	6.2	6.2	17.2	17.2	15.38
36	1SV22EC401	PRIYANKA N	0	0	25	0	0	0	12.5	12.5	2	2	2	2	2	18	3.6	4.2	4.2	4.2	4.2	5.6	6.2	6.2	18.7	18.7	16.34909
37	1SV22EC402	SHASHANK P	0	0	22	0	0	0	11	11	2	2	2	2	2	9	1.8	4.2	4.2	4.2	4.2	3.8	6.2	6.2	17.2	17.2	10.6
38	1SV22EC403	SHIVARAJ M H	0	0	27	0	0	0	13.5	13.5	2	2	2	2	2	22	4.4	4.2	4.2	4.2	4.2	6.4	6.2	6.2	19.7	19.7	10.88
39	1SV22EC404	C.K. Pushpalatha	14	14	40	14	7	7	20	20	2	2	2	2	2	34	6.8	4.2	4.2	4.2	4.2	22.8	13.2	13.2	26.2	26.2	15.96
40	1SV22EC405	JAMUNA S	15	16	40	15	8	8	20	20	2	2	2	2	2	34	6.8	4.2	4.2	4.2	4.2	23.8	14.2	14.2	26.2	26.2	20.62
41	1SV22EC406	NIVEDITHA N	14	16	38	14	8	8	19	19	2	2	2	2	2	18	3.6	4.2	4.2	4.2	4.2	19.6	14.2	14.2	25.2	25.2	20.3
42	1SV22EC407	PREETHI A	14	15	40	14	7.5	7.5	20	20	2	2	2	2	2	36	7.2	4.2	4.2	4.2	4.2	23.2	13.7	13.7	26.2	26.2	20.6
																						18.62381	13.41429	13.41429	20.6881	20.6881	
																						35.82%	51.59%	51.59%	79.57%	79.57%	

COURSE INSTRUCTOR

HOD

HOD
Dept of E&C
SIET, Tumkur-6

PRINCIPAL

PRINCIPAL
SIET. TUMKUR.

SHRIDEVI

SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY
SIRA ROAD, TUMKUR- 572 106.

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

SUBJECT	COMPUTEER NETWORKS	SUBJECT CODE	18EC71

COURSE OUTCOME

CO 1. Associate and apply the concepts of Band pass sampling to well specified signals and channels.

CO 2. Analyze and compute performance parameters and transfer rates for low pass and band pass symbol under ideal and corrupted non band limited channels.

CO 3. Test and validate symbol processing and performance parameters at the receiver under ideal and corrupted band limited channels.

CO 4. Demonstrate that band pass signals subjected to corruption and distortion in a band limited channel can be processed at the receiver to meet specified performance criteria.

CO 5. Understand the principles of spread spectrum communications.

PROGRAM OUTCOMES

PO1 Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.

PO2 Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3 Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.

PO4 Conduct investigations of complex Problem: An ability to identify, formulate, comprehend, analyze, design synthesis of the information to solve complex engineering problems and provide valid conclusions.

PO5 Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex engineering activities.

PO6 The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.

PO7 Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9 Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10 Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.

PO11 Project management and finance: An ability to use the modern engineering tools, techniques, skills and management principles to do work as a member and leader in a team, to manage projects in multidisciplinary environments.

PO12 Life-long learning: A recognition of the need for, and an ability to engage in, to resolve contemporary issues and acquire lifelong learning.

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	Mrs.PRADEEP KUMAR S S											
BRANCH	ECE		ACADEMIC YEAR		2023-24							
COURSE	B.E	SEMESTER	VII	SECTION	ECE							
SUBJECT	COMPUTEER NETWORKS			SUBJECT CODE	18EC71							
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	-	-	2								
CO2	2	2	-	-								
CO3	2	-	-	-								
CO4	-	-	3	-								
CO5		2										
AVERAGE	2	2	3	2								
OVERALL MAPPING OF SUBJECT												2.325

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO1
CO1	76.13%	1.49			1.49								
CO2	73.96%	1.48	1.48	-	-								
CO3	73.96%	1.48	-	-	-								
CO4	80.63%	-	-	2.42	-								
CO5	80.63%		1.49										
AVERAGE	75.78	1.48	1.48	2.42	1.49								
FINAL ATTAINMENT LEVEL													1.7

			18EC71		2023-2024 ODD			SEM :VII SEM		PROF. PRADEEP KUMAR S S				COMPUTER NETWORKS										
						T1	T2		T3	ASSIGNMENT 10/5					SEE	SEE MARKS					Final				
Reg. No.	USN	Name	T1(40)	T2(40)	T3(40)	CO1-40	CO2-20	CO3-20	CO4-20	CO5-20	CO1-2	CO2-2	CO3-2	CO4-2	CO5-2	60	CO1-15	CO2-15	CO3-15	CO4-15	CO5-15	CO1-37	CO2-37	CO3-37	CO4-37	CO5-37	TOTAL AVERAGE
1	1SV20EC001	ABHISHEK B	36	37	36	34	18.5	18.5	18	18	2	2	2	2	2	43	8.6	8.6	8.6	8.6	8.6	44.6	29.1	29.1	28.6	28.6	32
2	1SV20EC002	ANJANA A	0	8	16	0	4	4	8	8	2	2	2	2	2	12	2.4	2.4	2.4	2.4	2.4	4.4	8.4	8.4	12.4	12.4	20.4
3	1SV20EC003	ANUSHA S	36	34	32	33	17	17	17	17	2	2	2	2	2	31	6.2	6.2	6.2	6.2	6.2	41.2	25.2	25.2	25.2	25.2	28.8
4	1SV20EC004	CHETHANSHREE H K	38	35	36	28	17.5	17.5	18	18	2	2	2	2	2	26	5.2	5.2	5.2	5.2	5.2	33.2	24.7	24.7	25.2	25.2	27.5
5	1SV20EC005	DARSHAN M R	30	34	31	20	17	17	15.5	15.5	2	2	2	2	2	28	5.6	5.6	5.6	5.6	5.6	27.6	24.6	24.6	23.1	23.1	25.6
6	1SV20EC006	K	24	32	34	36	16	16	17.5	17.5	2	2	2	2	2	29	5.8	5.8	5.8	5.8	5.8	43.8	23.8	23.8	25.3	25.3	26.5
7	1SV20EC007	HARSHITH M J	33	33	33	32	16.5	16.5	16.5	16.5	2	2	2	2	2	37	7.4	7.4	7.4	7.4	7.4	41.4	25.9	25.9	25.9	25.9	28.7
8	1SV20EC008	HARSHITHA S	40	39	39	40	19.5	19.5	19.5	19.5	2	2	2	2	2	38	7.6	7.6	7.6	7.6	7.6	49.6	29.1	29.1	29.1	29.1	31.1
9	1SV20EC009	IMTIYAZ PASHA	24	28	34	28	19	19	17	17	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	32.2	25.2	25.2	23.2	23.2	29.5
10	1SV20EC010	MEGHANA N G	36	30	32	27	15	15	17	17	2	2	2	2	2	28	5.6	5.6	5.6	5.6	5.6	34.6	22.6	22.6	24.6	24.6	25.8
11	1SV20EC011	MUKTHA H K	40	40	39	40	20	20	19.5	19.5	2	2	2	2	2	52	10.4	10.4	10.4	10.4	10.4	52.4	32.4	32.4	31.9	31.9	33
12	1SV20EC013	PRATHIKSHA	32		37	33	0	0	16.5	16.5	2	2	2	2	2	32	6.4	6.4	6.4	6.4	6.4	41.4	8.4	8.4	24.9	24.9	21.6
13	1SV20EC014	R M SUCHITRA	36	39	37	40	19.5	19.5	16.5	16.5	2	2	2	2	2	39	7.8	7.8	7.8	7.8	7.8	49.8	29.3	29.3	28.3	28.3	27.3
14	1SV20EC015	RACHANA N	40	40	39	40	20	20	19.5	19.5	2	2	2	2	2	32	6.4	6.4	6.4	6.4	6.4	48.4	28.4	28.4	27.9	27.9	32.8
15	1SV20EC016	S PAVITHRA	40	39	38	40	19.5	19.5	19	19	2	2	2	2	2	42	8.4	8.4	8.4	8.4	8.4	50.4	29.9	29.9	29.4	29.4	33
16	1SV20EC017	SHOBHA HUGAR	40	36	36	36	18	18	18	18	2	2	2	2	2	42	8	8	8	8	8	49	28	28	29	29	31.2
17	1SV20EC018	YASHAS K R	28	30	37	31	15	15	18.5	18.5	2	2	2	2	2	42	8.4	8.4	8.4	8.4	8.4	41.4	25.4	25.4	28.9	28.9	31.3
18	1SV20EC019	HARSHITHA U	36	0	36	20	0	0	18	18	2	2	2	2	2	28	5.6	5.6	5.6	5.6	5.6	27.6	7.6	7.6	25.6	25.6	24.4
19	1SV21EC400	MANOJ	20	29	29	32	14.5	14.5	14.5	14.5	2	2	2	2	2	26	5.2	5.2	5.2	5.2	5.2	39.2	21.7	21.7	21.7	21.7	33
																						39.58947	23.68842	23.68842	25.8	25.8	
																						76.13%	73.96%	73.96%	80.63%	80.63%	

COURSE INSTRUCTOR

HOD

HOD
Dept of E&C
SIET, Tumkur-6

PRINCIPAL

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SIET, TUMKUR.

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

SUBJECT	VLSI DESIGN	SUBJECT CODE	18EC72

COURSE OUTCOME

CO 1. Understand the mathematical representation of signal, symbol, noise and channels.

CO 2. Apply the concept of signal conversion to symbols and signal processing to symbols in transmitter and receiver functional blocks.

CO 3. Identify Compute performance issues and parameters for symbol processing and recovery in ideal and corrupted channel conditions.

CO 4. Write Compute performance parameters and mitigate for these parameters in corrupted and distorted channel conditions.

CO 5. Explain the need of real time operating system for embedded system applications.

PROGRAM OUTCOMES

PO1 Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.

PO2 Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3 Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.

PO4 Conduct investigations of complex Problem: An ability to identify, formulate, comprehend, analyze, design synthesis of the information to solve complex engineering problems and provide valid conclusions.

PO5 Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex engineering activities.

PO6 The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.

PO7 Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9 Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10 Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.

PO11 Project management and finance: An ability to use the modern engineering tools, techniques, skills and management principles to do work as a member and leader in a team, to manage projects in multidisciplinary environments.

PO12 Life-long learning: A recognition of the need for, and an ability to engage in, to resolve contemporary issues and acquire lifelong learning.

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	PROF.MALLIKARJUN Y P											
BRANCH	ECE			ACADEMIC YEAR			2023-24					
COURSE	B.E	SEMESTER	VI	SECTION	ECE							
SUBJECT	VLSI DESIGN				SUBJECT CODE	18EC72						

CO & PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	-	-	-								
CO2	2	3	-	-								
CO3	3	-	-	-								
CO4	-	-	2	-								
CO5	-	-	-	2								
AVERAGE	2.3	3	2	2								
OVERALL MAPPING OF SUBJECT												2.325

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	74.37%	1.48	-	-	-								
CO2	80.15%	1.52	1.24	-	-								
CO3	80.15%	2.28	-	-	-								
CO4	83.85%	-	-	1.57	-								
CO5	83.85%	-	-	-	1.57								
AVERAGE	79.77	1.76	1.24	1.57	1.57								
FINAL ATTAINMENT LEVEL													1.53

			18EC72		2023-2024 ODD				SEM /VII SEM		PROF.MALLIKARJUN Y P				VLSI												
					T1		T2		T3		ASSIGNMENT (CO)					SEE	SEE MARKS					Final					TOTAL AVERAGE
Roll No	USN	Name	T1(40)	T2(40)	T3(40)	CO1-40	CO2-20	CO3-20	CO4-20	CO5-20	CO1-2	CO2-2	CO3-2	CO4-2	CO5-2	60	CO1-15	CO2-15	CO3-15	CO4-15	CO5-15	CO1-37	CO2-37	CO3-37	CO4-37	CO5-37	
1	1SV20EC001	ABHISHEK B	36	36	37	34	18	18	18.5	18.5	2	2	2	2	2	29	5.8	5.8	5.8	5.8	5.8	41.8	25.8	25.8	26.3	26.3	29.2
2	1SV20EC002	ANJANA A	0	36	36	0	18	18	18	18	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	8.2	24.2	24.2	24.2	24.2	24.6
3	1SV20EC003	BHUMIKA S	36	38	39	33	19	19	19.5	19.5	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	10.2	25.2	25.2	25.7	25.7	29
4	1SV20EC004	K	40	40	40	38	20	20	20	20	2	2	2	2	2	23	4.6	4.6	4.6	4.6	4.6	12.6	26.6	26.6	26.6	26.6	26.7
5	1SV20EC005	DARSHAN M R	37	38	39	35	19	19	19.5	19.5	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	10.2	25.2	25.2	25.7	25.7	26.8
6	1SV20EC006	K	36	36	37	35	18	18	18.5	18.5	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	42.2	24.2	24.2	24.7	24.7	27.7
7	1SV20EC007	HARSHITH M J	35	36	35	32	18	18	17.5	17.5	2	2	2	2	2	24	4.8	4.8	4.8	4.8	4.8	38.8	24.8	24.8	24.3	24.3	29.8
8	1SV20EC008	HARSHITHA S	39	40	40	40	20	20	19.5	19.5	2	2	2	2	2	32	6.4	6.4	6.4	6.4	6.4	48.4	28.4	28.4	27.9	27.9	29.9
9	1SV20EC009	IMTIYAZ PASHA	35	36	38	36	18	18	19	19	2	2	2	2	2	28	5.6	5.6	5.6	5.6	5.6	33.6	25.6	25.6	26.6	26.6	28.3
10	1SV20EC010	MEGHANA N G	39	40	37	37	20	20	18.5	18.5	2	2	2	2	2	31	6.2	6.2	6.2	6.2	6.2	43.2	26.2	26.2	26.7	26.7	30.4
11	1SV20EC011	MUKTHA H K	40	40	40	40	20	20	20	20	2	2	2	2	2	29	5.8	5.8	5.8	5.8	5.8	40.8	27.8	27.8	27.8	27.8	32.8
12	1SV20EC013	PRATHIKSHA	35	35	37	33	17.5	17.5	18.5	18.5	2	2	2	2	2	28	5.6	5.6	5.6	5.6	5.6	40.6	25.1	25.1	26.1	26.1	28.6
13	1SV20EC014	R M SUCHITRA	39	40	40	40	20	20	20	20	2	2	2	2	2	40	8	8	8	8	8	50	30	30	30	30	31.3
14	1SV20EC015	RACHANA N	40	40	40	40	20	20	20	20	2	2	2	2	2	29	5.8	5.8	5.8	5.8	5.8	47.8	27.8	27.8	27.8	27.8	32.9
15	1SV20EC016	S PAVITHRA	40	40	40	40	20	20	20	20	2	2	2	2	2	42	8.4	8.4	8.4	8.4	8.4	50.4	30.4	30.4	30.4	30.4	33.1
16	1SV20EC017	SHOBHA HUGAR	39	40	39	39	20	20	19.5	19.5	2	2	2	2	2	26	5.2	5.2	5.2	5.2	5.2	45.2	27.2	27.2	26.7	26.7	32.6
17	1SV20EC018	YASHAS K R	39	36	38	31	18	18	19	19	2	2	2	2	2	24	4.8	4.8	4.8	4.8	4.8	37.8	24.8	24.8	25.8	25.8	29.3
18	1SV20EC019	HARSHITHA U	40	0	20	20	0	0	18.5	18.5	2	2	2	2	2	40	8	8	8	8	8	10	10	10	29.5	29.5	24.8
19	1SV21EC400	MANOJ	20	36	38	32	18	18	18	19	2	2	2	2	2	30	6	6	6	6	6	40	26	26	27	27	25.5
																						38.5736R	25.64737	25.64737	26.83158	26.83158	
																						74.37%	80.15%	80.15%	83.85%	83.85%	

COURSE INSTRUCTOR

HOD

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Dept of E&C
SIET, Tumkur-6

PRINCIPAL

PRINCIPAL
SIET, TUMKUR.

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

SUBJECT	SATELLITE COMMUNICATION	SUBJECT CODE	18EC732

COURSE OUTCOME

CO1. Describe the satellite orbits and its trajectories with the definitions of parameters associated with it.

CO2. Describe the electronic hardware systems associated with the satellite subsystem and earth station.

CO3. Describe the communication satellites with the focus on national satellite system.

CO4. Compute the satellite link parameters under various propagatlon conditions with the illustration of multiple access techniques.

CO5. Describe the satellites used for applications in remote sensing, weather forecasting and navigation.

PROGRAM OUTCOMES

PO1 Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.

PO2 Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3 Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.

PO4 Conduct investigations of complex Problem: An ability to identify, formulate, comprehend, analyze, design synthesis of the information to solve complex engineering problems and provide valid conclusions.

PO5 Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex engineering activities.

PO6 The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.

PO7 Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9 Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10 Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.

PO11 Project management and finance: An ability to use the modern engineering tools, techniques, skills and management principles to do work as a member and leader in a team, to manage projects in multidisciplinary environments.

PO12 Life-long learning: A recognition of the need for, and an ability to engage in, to resolve contemporary issues and acquire lifelong learning.

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY				
FACULTY NAME	PROF.AIJAZ AHAMED SHAEIF				
BRANCH	ECE	ACADEMIC YEAR	2023-24		
COURSE	B.E	SEMESTER	VII	SECTION	ECE
SUBJECT	SATELLITE COMMUNICATION	SUBJECT CODE	18EC732		

CO & PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	-	-	2								
CO2	2	3	-	-								
CO3	3	-	-	-								
CO4	-	-	2	-								
CO5	2			2								
AVERAGE	2.3	3	2	2								
OVERALL MAPPING OF SUBJECT												2.325

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	78.02%	1.56			1.56								
CO2	85.99%	1.71	2.57	-	-								
CO3	85.99%	2.57	-	-	-								
CO4	87.22%	-	-	1.74	-								
CO5	87.22%	1.74			1.74								
AVERAGE	85.80	1.89	2.57	1.74	1.65								
FINAL ATTAINMENT LEVEL													1.96

			18EC732		2023-2024 ODD			SEM :VIISEM		PROF. AIJAZ AHAMED SHARIEF				SATELLITE COMMUNICATION										
			T1	T2	T3					ASSIGNMENT 10/5					SEE	SEE MARKS					Final					TOTAL AVERAGE
Roll No.	USN	Name	T1(40)	T2(40)	T3(40)	CO1-40	CO2-20	CO3-20	CO4-20	CO5-20	CO1-2	CO2-2	CO3-2	CO4-2	CO5-2	60	CO1-15	CO2-15	CO3-15	CO4-15	CO5-15	CO1-37	CO2-37	CO3-37	CO4-37	CO5-37	
1	1SV20EC001	ABHISHEK B	29	37	35	34	18.5	18.5	17.5	17.5	2	2	2	2	2	42	8.4	8.4	8.4	8.4	8.4	44.4	28.9	28.9	27.9	27.9	31.6
2	1SV20EC002	ANJANA A	0	31	34	0	15.5	15.5	17	17	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	8.2	21.7	21.7	23.2	23.2	25.4
3	1SV20EC005	BHUMIKA R	40	40	40	38	20	20	20	20	2	2	2	2	2	37	7.4	7.4	7.4	7.4	7.4	42.4	29.4	29.4	29.4	29.4	29.6
4	1SV20EC004	K	40	40	40	20	20	20	20	20	2	2	2	2	2	35	7	7	7	7	7	35	29	29	29	29	31.1
5	1SV20EC005	DARSHAN M R	23	39	28	20	19.5	19.5	14	14	2	2	2	2	2	35	7	7	7	7	7	29	28.5	28.5	23	23	28.3
6	1SV20EC006	H K	35	39	32	36	17.5	17.5	16	16	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	42.2	23.7	23.7	22.2	22.2	28.6
7	1SV20EC007	HARSHITH M J	36	35	35	32	17.5	17.5	17.5	17.5	2	2	2	2	2	38	7.6	7.6	7.6	7.6	7.6	41.6	27.1	27.1	27.1	27.1	28.4
8	1SV20EC008	HARSHITHA S	40	40	40	40	20	20	20	20	2	2	2	2	2	46	9.2	9.2	9.2	9.2	9.2	53.2	31.2	31.2	31.2	31.2	32.6
9	1SV20EC009	IMTIYAZ PASHA	40	36	36	26	18	18	18	18	2	2	2	2	2	27	5.4	5.4	5.4	5.4	5.4	33.4	25.4	25.4	25.4	25.4	27.1
10	1SV20EC010	MEGHANA N G	28	40	40	27	20	20	20	20	2	2	2	2	2	44	8.8	8.8	8.8	8.8	8.8	37.8	30.8	30.8	30.8	30.8	29.6
11	1SV20EC011	MUKTHA H.K	39	40	40	40	20	20	20	20	2	2	2	2	2	51	10.2	10.2	10.2	10.2	10.2	52.2	32.2	32.2	32.2	32.2	34.2
12	1SV20EC013	PRATHIKSHA	40	32	33	33	16	16	16.5	16.5	2	2	2	2	2	39	7.8	7.8	7.8	7.8	7.8	42.8	25.8	25.8	26.3	26.3	29.4
13	1SV20EC014	R M SUCHITRA	25	40	40	40	20	20	20	20	2	2	2	2	2	42	8.4	8.4	8.4	8.4	8.4	50.4	30.4	30.4	30.4	30.4	31.9
14	1SV20EC015	RACHANA N	40	40	40	40	20	20	20	20	2	2	2	2	2	47	9.4	9.4	9.4	9.4	9.4	51.4	31.4	31.4	31.4	31.4	34.9
15	1SV20EC016	S PAVITHRA	40	40	40	40	20	20	20	20	2	2	2	2	2	45	9	9	9	9	9	51	31	31	31	31	33.2
16	1SV20EC017	SHOBHA HUGAR	40	40	40	39	20	20	20	20	2	2	2	2	2	37	7.4	7.4	7.4	7.4	7.4	48.4	29.4	29.4	29.4	29.4	34.1
17	1SV20EC018	YASHAS K R	37	38	40	31	19	19	20	20	2	2	2	2	2	50	10	10	10	10	10	43	31	31	32	32	33.5
18	1SV20EC019	HARSHITHA U	39	0	26	20	0	0	13	13	2	2	2	2	2	38	7.6	7.6	7.6	7.6	7.6	29.6	9.6	9.6	22.6	22.6	26.3
19	1SV21EC401	MANOJ	28	39	38	32	19.5	19.5	19	19	2	2	2	2	2	24	4.8	4.8	4.8	4.8	4.8	38.8	26.3	26.3	25.8	25.8	23.7
																						40.56842	27.51579	27.51579	27.91053	27.91053	
																						78.02%	85.99%	85.99%	87.22%	87.22%	

COURSE INSTRUCTOR

HOD

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SIET, Tumkur-6

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SIET, TUMKUR.

SHRIDEVI

SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

SUBJECT	IoT& WIRELESS SENSOR NETWORKS	SUBJECT CODE	18EC741

COURSE OUTCOME

CO 1. Describe the OSI Model for IoT/M2M Systems.

CO 2 Understand the architecture and design principles for device supporting IoT.

CO 3 Develop competence in programming for IoT Applications.

CO 4 Identify the uplink and downlink communication protocols which best suits the specific application of IOT / WSNs. **PROGRAM OUTCOMES**

PO1 Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.

PO2 Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3 Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.

PO4 Conduct investigations of complex Problem: An ability to identify, formulate, comprehend, analyze, design synthesis of the information to solve complex engineering problems and provide valid conclusions.

PO5 Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex engineering activities.

PO6 The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.

PO7 Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9 Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10 Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.

PO11 Project management and finance: An ability to use the modern engineering tools, techniques, skills and management principles to do work as a member and leader in a team, to manage projects in multidisciplinary environments.

PO12 Life-long learning: A recognition of the need for, and an ability to engage in, to resolve contemporary issues and acquire lifelong learning.

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	DR LOKESH B S											
BRANCH	ECE			ACADEMIC YEAR			2023-24					
COURSE	B.E	SEMESTER	VII	SECTION			ECE					
SUBJECT	IoT& WIRELESS SENSOR NETWORKS			SUBJECT CODE			18EC741					

CO & PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	-	-	-								
CO2	2	3	-	-								
CO3	3	-	-	-								
CO4	-	-	2	-								
AVERAGE	2.3	3	2	2								
OVERALL MAPPING OF SUBJECT												2.325

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	77.77%	1.53	-	-	-								
CO2	74.49%	1.57	2.36	-	-								
CO3	74.49%	2.36	-	-	-								
CO4	78.85%	-	-	1.68	-								
AVERAGE	76.4	1.82	2.02	1.68	1.68								
FINAL ATTAINMENT LEVEL													1.8

			18EC741		2023-2024 ODD			SEM :VII SEM		Dr LOKESH B S				IOT											
			T1		T3	T2		T3		ASSIGNMENT 10/5					SET	SEE MARKS					Final					
Roll No	USN	Name	T1(40)	T2(40)	T3(40)	CO1-40	CO2-20	CO3-20	CO4-20	CO5-20	CO1-2	CO2-2	CO3-2	CO4-2	CO5-2	60	CO1-15	CO2-15	CO3-15	CO4-15	CO5-15	CO1-37	CO2-37	CO3-37	CO4-37	CO5-37	TOTAL AVERAGE
1	1SV20EC101	ABHISHEK B	29	34	35	34	17	17	17.5	17.5	2	2	2	2	2	48	9.6	9.6	9.6	9.6	9.6	45.6	28.6	28.6	29.1	29.1	32.2
2	1SV20EC102	ANJANA A	11	21	0	0	10.5	10.5	0	0	2	2	2	2	2	8	1.2	1.2	1.2	1.2	1.2	3.2	13.7	13.7	3.2	3.2	15.8
3	1SV20EC103	BHUMIKA S	37	36	38	33	16	16	19	19	2	2	2	2	2	33	4.8	4.8	4.8	4.8	4.8	33.8	24.8	24.8	25.6	25.6	17.7
4	1SV20EC104	CHITRASHREE H K	30	36	38	26	16	16	19	19	2	2	2	2	2	36	7.2	7.2	7.2	7.2	7.2	35.2	27.2	27.2	28.2	28.2	28.6
5	1SV20EC105	DARSHAN M R	17	26	30	30	13	13	15	15	2	2	2	2	2	37	7.4	7.4	7.4	7.4	7.4	29.4	22.4	22.4	24.4	24.4	26.9
6	1SV20EC106	GAGANASHREE H K	22	30	31	36	15	15	15.5	15.5	2	2	2	2	2	45	9	9	9	9	9	47	26	26	26.5	26.5	27.5
7	1SV20EC107	HARSHITH M J	21	25	29	32	12.5	12.5	14.5	14.5	2	2	2	2	2	45	9	9	9	9	9	43	23.5	23.5	25.5	25.5	29.3
8	1SV20EC108	HARSHITHA S	36	40	38	40	20	20	19	19	2	2	2	2	2	38	7.6	7.6	7.6	7.6	7.6	45.6	25.6	25.6	28.6	28.6	30.7
9	1SV20EC109	IMTIYAZ PASHA	19	18	28	28	9	9	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	32.2	15.2	15.2	20.2	20.2	26.9
10	1SV20EC110	MEGHANA N G	30	24	32	27	12	12	16	16	2	2	2	2	2	45	9	9	9	9	9	38	23	23	27	27	24.1
11	1SV20EC111	MUKTHA H K	38	39	34	40	19.5	19.5	17	17	2	2	2	2	2	39	7.8	7.8	7.8	7.8	7.8	49.8	29.3	29.3	26.8	26.8	30
12	1SV20EC113	PRATHIKSHA	22	29	26	33	14.5	14.5	13	13	2	2	2	2	2	40	8	8	8	8	8	43	24.5	24.5	23	23	27.6
13	1SV20EC114	R M SUCHITRA	37	38	38	40	19	19	19	19	2	2	2	2	2	49	9.8	9.8	9.8	9.8	9.8	51.8	30.8	30.8	30.8	30.8	33.3
14	1SV20EC115	RACHANA N	34	39	39	40	19.5	19.5	19.5	19.5	2	2	2	2	2	47	9.4	9.4	9.4	9.4	9.4	51.4	30.9	30.9	30.9	30.9	35
15	1SV20EC116	S PAVITHRA	37	38	36	40	19	19	18	18	2	2	2	2	2	50	10	10	10	10	10	52	31	31	30	30	34.9
16	1SV20EC117	SHOBHA HUGAR	35	30	32	39	15	15	16	16	2	2	2	2	2	35	7	7	7	7	7	48	24	24	25	25	32
17	1SV20EC118	VASHAS K R	26	22	35	31	11	11	17.5	17.5	2	2	2	2	2	41	8.2	8.2	8.2	8.2	8.2	41.2	21.2	21.2	27.7	27.7	28.5
18	1SV20EC119	HARSHITHA U	34	0	33	20	0	0	16.5	16.5	2	2	2	2	2	33	6.6	6.6	6.6	6.6	6.6	26.6	6.6	6.6	25.1	25.1	23.5
19	1SV21EC400	MANJU	20	22	28	32	11	11	14	14	2	2	2	2	2	29	5.8	5.8	5.8	5.8	5.8	39.8	18.8	18.8	21.8	21.8	21.7
																						40.44211	23.83684	23.83684	25.23158	25.23158	
																						77.77%	74.49%	74.49%	78.85%	78.85%	

COURSE INSTRUCTOR

HOD

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

SUBJECT	E P M	SUBJECT CODE	18CV753

COURSE OUTCOME

1. Appreciate the elements of Corporate Environmental Management systems complying to international environmental management system standards.
2. Lead pollution prevention assessment team and implement waste minimization options.
3. Develop, Implement, maintain and Audit Environmental Management systems for Organizations.

PROGRAM OUTCOMES

PO1 Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.

PO2 Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3 Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.

PO4 Conduct investigations of complex Problem: An ability to identify, formulate, comprehend, analyze, design synthesis of the information to solve complex engineering problems and provide valid conclusions.

PO5 Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex engineering activities.

PO6 The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.

PO7 Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9 Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10 Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.

PO11 Project management and finance: An ability to use the modern engineering tools, techniques, skills and management principles to do work as a member and leader in a team, to manage projects in multidisciplinary environments.

PO12 Life-long learning: A recognition of the need for, and an ability to engage in, to resolve contemporary issues and acquire lifelong learning.

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	PROF.SREE LAKSHMI											
BRANCH	ECE			ACADEMIC YEAR			2023-24					
COURSE	B.E	SEMESTER	VII	SECTION	ECE							
SUBJECT	E P M			SUBJECT CODE	18CV753							
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	-	-	-								
CO2	2	3	-	-								
CO3	3	-	-	-								
AVERAGE	2.3	3										
OVERALL MAPPING OF SUBJECT												2.325

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	80.08%	1.50	-	-									
CO2	80.87%	1.49	2.24	-									
CO3	80.87%	2.24	-	-									
AVERAGE	74.86	1.74	2.24										
FINAL ATTAINMENT LEVEL													1.99

			18CV753		2023-2024 ODD			SEM :VII SEM		PROF. SRI LAKSHMI				EPM											
					T1	T2		T3		ASSIGNMENT 10/5					SEE	SEE MARKS					Final					TOTAL AVERAGE
Roll No	USN	Name	T1(40)	T2(40)	T3(40)	CO1-40	CO2-20	CO3-20	CO4-20	CO5-20	CO1-2	CO2-2	CO3-2	CO4-2	CO5-2	60	CO1-15	CO2-15	CO3-15	CO4-15	CO5-15	CO1-37	CO2-37	CO3-37	CO4-37	CO5-37	
1	1SV20EC001	ABHISHEK B	30	34	36	34	17	17	18	18	2	2	2	2	2	45	8	8	8	8	8	45	28	28	29	29	31.8
2	1SV20EC002	ANJANA A	0	0	20	0	0	0	10	10	2	2	2	2	2	11	2.2	2.2	2.2	2.2	2.2	4.2	4.2	4.2	14.2	14.2	20
3	1SV20EC003	BHUMIKA S	33	37	39	33	18.5	18.5	19.5	19.5	2	2	2	2	2	47	9.4	9.4	9.4	9.4	9.4	44.4	29.9	29.9	30.9	30.9	20.7
4	1SV20EC004	K	28	34	32	28	17	17	11	11	2	2	2	2	2	32	6.4	6.4	6.4	6.4	6.4	34.4	25.4	25.4	19.4	19.4	29
5	1SV20EC005	DARSHAN M R	22	28	36	20	14	14	18	18	2	2	2	2	2	48	9.6	9.6	9.6	9.6	9.6	31.6	25.6	25.6	29.6	29.6	26.6
6	1SV20EC006	K	0	31	37	36	15.5	15.5	18.5	18.5	2	2	2	2	2	47	9.4	9.4	9.4	9.4	9.4	47.4	26.9	26.9	29.9	29.9	30.3
7	1SV20EC007	HARSHITH M J	28	29	36	32	14.5	14.5	18	18	2	2	2	2	2	47	9.4	9.4	9.4	9.4	9.4	43.4	25.9	25.9	29.4	29.4	31.5
8	1SV20EC008	HARSHITHA S	38	39	40	40	19.5	19.5	20	20	2	2	2	2	2	59	11.8	11.8	11.8	11.8	11.8	58.8	33.3	33.3	33.8	33.8	34.2
9	1SV20EC009	IMTIYAZ PASHA	36	33	38	26	16.5	16.5	19	19	2	2	2	2	2	45	9	9	9	9	9	57	27.5	27.5	30	30	34
10	1SV20EC010	MEGHANA N G	33	35	36	27	17.5	17.5	18	18	2	2	2	2	2	40	8	8	8	8	8	37	27.5	27.5	28	28	30
11	1SV20EC011	MUKTHA H K	34	36	38	40	18	18	19	19	2	2	2	2	2	55	11	11	11	11	11	53	31	31	32	32	32.7
12	1SV20EC013	PRATHIKSHA	32	35	34	33	17.5	17.5	17	17	2	2	2	2	2	36	7.2	7.2	7.2	7.2	7.2	42.2	26.7	26.7	26.2	26.2	29.6
13	1SV20EC014	R M SUCHITRA	38	39	40	40	19.5	19.5	20	20	2	2	2	2	2	42	8.4	8.4	8.4	8.4	8.4	50.4	29.9	29.9	30.4	30.4	31.9
14	1SV20EC015	RACHANA N	33	36	38	40	18	18	19	19	2	2	2	2	2	44	8.8	8.8	8.8	8.8	8.8	50.8	28.8	28.8	29.8	29.8	33.9
15	1SV20EC016	S PAVITHRA	38	38	40	40	19	19	20	20	2	2	2	2	2	50	10	10	10	10	10	52	31	31	32	32	34.6
16	1SV20EC017	SHOBHA HUGAR	30	35	38	39	17.5	17.5	19	19	2	2	2	2	2	41	8.2	8.2	8.2	8.2	8.2	49.2	27.7	27.7	28.2	28.2	34.1
17	1SV20EC018	YASHAS K R	30	33	37	31	16.5	16.5	18.5	18.5	2	2	2	2	2	55	11	11	11	11	11	44	29.5	29.5	31.5	31.5	32.9
18	1SV20EC019	HARSHITHA U	34	0	36	20	0	0	18	18	2	2	2	2	2	41	8.2	8.2	8.2	8.2	8.2	30.2	10.2	10.2	28.2	28.2	27.9
19	1SV21EC400	MANOJ	19	27	29	32	13.5	13.5	14.5	14.5	2	2	2	2	2	36	7.2	7.2	7.2	7.2	7.2	41.2	22.7	22.7	23.7	23.7	24.1
																						41.6421	25.879	25.8789	28.2737	28.2737	
																						80.08%	80.87%	80.87%	88.36%	88.36%	

COURSE INSTRUCTOR

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

SUBJECT	WIRELESS AND CELLULAR COMMUNICATION	SUBJECT CODE	18EC81

COURSE OUTCOME

CO 1. Understand the concepts of propagation over wireless channels from a physics standpoint.

CO 2. Application of Communication theory both Physical and networking to understand GSM systems that handle mobile telephony

CO 3. Application of Communication theory both Physical and networking to understand CDMA systems that handle mobile telephony.

CO 4. Application of Communication theory both Physical and networking to understand LTE-4G systems

PROGRAM OUTCOMES

PO1 Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.

PO2 Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3 Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.

PO4 Conduct investigations of complex Problem: An ability to identify, formulate, comprehend, analyze, design synthesis of the information to solve complex engineering problems and provide valid conclusions.

PO5 Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex engineering activities.

PO6 The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.

PO7 Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9 Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10 Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.

PO11 Project management and finance: An ability to use the modern engineering tools, techniques, skills and management principles to do work as a member and leader in a team, to manage projects in multidisciplinary environments.

PO12 Life-long learning: A recognition of the need for, and an ability to engage in, to resolve contemporary issues and acquire lifelong learning.

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	Dr.GIREESHA B											
BRANCH	ECE			ACADEMIC YEAR			2023-24					
COURSE	B.E	SEMESTER		VIII	SECTION		ECE					
SUBJECT	WIRELESS AND CELLULAR COMMUNICATION				SUBJECT CODE		18EC81					
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	-	-	-								
CO2	2	3	-	-								
CO3	3	-	-	-								
CO4	-	-	2	2								
AVERAGE	2.3	3	2	2								
OVERALL MAPPING OF SUBJECT												2.325

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	76.84%	1.43	-	-	-								
CO2	58.01%	1.36	2.04	-	-								
CO3	58.01%	2.04	-	-	-								
CO4	58.01%	-	-	1.36	1.36								
AVERAGE	62.71	1.61	2.04	1.36	1.36								
FINAL ATTAINMENT LEVEL													1.02

			18EC81		2023-2024 EVEN			SEM :VIII SEM		Dr.GIREESHA B				WIRELESS COMMUNICATION											
			T1	T2	T3	T2		T3		ASSIGNMENT 10/E						SEE	SEE MARKS					Final					
Roll No.	USN	Name	T1(40)	T2(40)	T3(40)	CO1-40	CO2-20	CO3-20	CO4-20	CO5-20	CO1-2	CO2-2	CO3-2	CO4-2	CO5-2	60	CO1-15	CO2-15	CO3-15	CO4-15	CO5-15	CO1-37	CO2-37	CO3-37	CO4-37	CO5-37	TOTAL AVERAGE
1	1SV20EC001	ABHISHEK S	20	20	20	34	10	10	10	10	2	2	2	2	2	33	6.6	6.6	6.6	6.6	6.6	42.6	18.6	18.6	18.6	18.6	23.4
2	1SV20EC002	ANJANA A	18	18	18	0	9	9	9	9	2	2	2	2	2	9	1.8	1.8	1.8	1.8	1.8	5.8	12.8	12.8	12.8	12.8	17.2
3	1SV20EC003	BHUMIKA S	19	19	19	33	9.5	9.5	9.5	9.5	2	2	2	2	2	38	7.6	7.6	7.6	7.6	7.6	42.6	19.1	19.1	19.1	19.1	17.4
4	1SV20EC004	CHITRASHREE H.R	18	18	18	26	9	9	9	9	2	2	2	2	2	30	6	6	6	6	6	34	17	17	17	17	22.1
5	1SV20EC005	DARSHAN M R	18	18	18	20	9	9	9	9	2	2	2	2	2	45	9	9	9	9	9	51	20	20	20	20	21.3
6	1SV20EC006	K	18	18	18	36	9	9	9	9	2	2	2	2	2	15	3	3	3	3	3	41	14	14	14	14	20.8
7	1SV20EC007	HARSHITH M J	18	18	18	32	9	9	9	9	2	2	2	2	2	42	8.4	8.4	8.4	8.4	8.4	42.4	19.4	19.4	19.4	19.4	21.7
8	1SV20EC008	HARSHITHA A	20	20	20	40	10	10	10	10	2	2	2	2	2	51	10.2	10.2	10.2	10.2	10.2	52.2	22.2	22.2	22.2	22.2	26.1
9	1SV20EC009	IMTIYAZ PASHA	18	19	19	26	8.5	8.5	8.5	8.5	2	2	2	2	2	35	7	7	7	7	7	35	18.5	18.5	18.5	18.5	25
10	1SV20EC010	MEGHANA N G	20	20	20	27	10	10	10	10	2	2	2	2	2	31	6.2	6.2	6.2	6.2	6.2	35.2	18.2	18.2	18.2	18.2	21.7
11	1SV20EC011	MUKTHA H K	20	20	20	40	10	10	10	10	2	2	2	2	2	53	10.6	10.6	10.6	10.6	10.6	52.6	22.6	22.6	22.6	22.6	25.1
12	1SV20EC013	PRATHIKSHA	20	20	20	33	10	10	10	10	2	2	2	2	2	29	5.8	5.8	5.8	5.8	5.8	40.8	17.8	17.8	17.8	17.8	22.4
13	1SV20EC014	R M SUCHITRA	20	20	20	40	10	10	10	10	2	2	2	2	2	34	6.8	6.8	6.8	6.8	6.8	46.8	18.8	18.8	18.8	18.8	23.6
14	1SV20EC015	RACHANA N	20	20	20	40	10	10	10	10	2	2	2	3	2	47	9.4	9.4	9.4	9.4	9.4	51.4	21.4	21.4	21.4	21.4	26.1
15	1SV20EC016	S PAVITHRA	20	20	20	40	10	10	10	10	2	2	2	2	2	48	9.6	9.6	9.6	9.6	9.6	51.6	21.6	21.6	21.6	21.6	27.5
16	1SV20EC017	SHOBHA HUGAR	20	20	20	39	10	10	10	10	2	2	2	2	2	40	8	8	8	8	8	49	20	20	20	20	28.7
17	1SV20EC018	YASHAS K R	20	20	20	31	10	10	10	10	2	2	2	2	2	34	6.8	6.8	6.8	6.8	6.8	39.8	18.8	18.8	18.8	18.8	24.6
18	1SV20EC019	HARSHITHA U	19	19	19	20	9.5	9.5	9.5	9.5	2	2	2	2	2	30	6	6	6	6	6	28	17.5	17.5	17.5	17.5	21.3
19	1SV21EC401	MANOJ	18	18	18	32	9	9	9	9	2	2	2	2	2	17	3.4	3.4	3.4	3.4	3.4	37.4	14.4	14.4	14.4	14.4	19.3
																						38.95789	18.56316	18.56316	18.56316	18.56316	
																						76.84%	58.01%	58.01%	58.01%	58.01%	

COURSE INSTRUCTOR

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SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

SUBJECT	OPTICAL COMMUNICATION NETWORK	SUBJECT CODE	18EC824

COURSE OUTCOME

CO 1. Learn the basic principle of optical fiber communication with different modes of light Propagation

CO 2. Understand the transmission characteristics and losses in optical fiber.

CO 3. Study of optical components and its applications in optical communication networks.

CO 4. Learn the network standards in optical fiber and understand the network architectures along with its functionalities.

PROGRAM OUTCOMES

PO1 Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.

PO2 Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3 Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.

PO4 Conduct investigations of complex Problem: An ability to identify, formulate, comprehend, analyze, design synthesis of the information to solve complex engineering problems and provide valid conclusions.

PO5 Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex engineering activities.

PO6 The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.

PO7 Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9 Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10 Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.

PO11 Project management and finance: An ability to use the modern engineering tools, techniques, skills and management principles to do work as a member and leader in a team, to manage projects in multidisciplinary environments.

PO12 Life-long learning: A recognition of the need for, and an ability to engage in, to resolve contemporary issues and acquire lifelong learning.

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	PROF.LOKESH.B S											
BRANCH	ECE			ACADEMIC YEAR			2023-24					
COURSE	B.E	SEMESTER	VIII	SECTION	ECE							
SUBJECT	OPTICAL COMMUNICATION NETWORK			SUBJECT CODE	18EC824							

CO & PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	-	-	-								
CO2	2	3	-	-								
CO3	3	-	-	-								
CO4	-	-	2	2								
AVERAGE	2.3	3	2	2								
OVERALL MAPPING OF SUBJECT												2.325

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	72.75%	1.43	-	-	-								
CO2	76.78%	1.36	2.04	-	-								
CO3	76.78%	2.04	-	-	-								
CO4	71.92%	-	-	1.36	1.36								
AVERAGE	74.13	1.61	2.04	1.36	1.36								
FINAL ATTAINMENT LEVEL													1.29

			18EC824		2023-2024 EVEN			SEM /VIII SEM		Dr.LOKESH B S				OCN										
						T1	T2		T3	ASSIGNMENT 10/5					SEE	SEE MARKS					Final				
Roll No	USN	Name	T1(40)	T2(40)	T3(40)	CO1-40	CO2-20	CO3-20	CO4-20	CO5-20	CO1-2	CO2-2	CO3-2	CO4-2	CO5-2	60	CO1-15	CO2-15	CO3-15	CO4-15	CO5-15	CO1-37	CO2-37	CO3-37	CO4-37	CO5-37	TOTAL AVERAGE
1	1SV20EC001	ABHISHEK B	38	37	32	34	18.5	18.5	16	16	2	2	2	2	2	28	5.6	5.6	5.6	5.6	5.6	41.6	26.1	26.1	23.6	23.6	28.2
2	1SV20EC002	ANJANA A	22	34	25	0	17	17	12.5	12.5	2	2	2	2	2	5	1	1	1	1	1	8	20	20	13.5	13.5	21.5
3	1SV20EC003	BHUMIKA S	33	34	38	33	17	17	19	19	2	2	2	2	2	25	5	5	5	5	5	40	24	24	26	26	31.4
4	1SV20EC004	K	26	35	36	26	17.5	17.5	18	18	2	2	2	2	2	14	2.8	2.8	2.8	2.8	2.8	30.8	22.3	22.3	22.8	22.8	26.1
5	1SV20EC005	DARSHAN M B	37	39	5	20	19.5	19.5	2.5	2.5	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	26.2	25.7	25.7	8.7	8.7	21.6
6	1SV20EC006	K	27	28	31	36	14	14	15.5	15.5	2	2	2	2	2	14	2.8	2.8	2.8	2.8	2.8	40.8	18.8	18.8	20.3	20.3	21.4
7	1SV20EC007	HARSHITH M J	30	35	20	32	17.5	17.5	10	10	2	2	2	2	2	23	4.6	4.6	4.6	4.6	4.6	38.6	24.1	24.1	16.6	16.6	23.9
8	1SV20EC008	HARSHITHA S	40	38	40	40	19	19	20	20	2	2	2	2	2	26	5.2	5.2	5.2	5.2	5.2	47.2	26.2	26.2	27.2	27.2	27.4
9	1SV20EC009	IMTIYAZ PASHA	31	32	37	26	16	16	18.5	18.5	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	32.2	22.2	22.2	24.7	24.7	28
10	1SV20EC010	MEGHANA N G	40	38	38	27	19	19	19	19	2	2	2	2	2	25	5	5	5	5	5	34	26	26	26	26	26.4
11	1SV20EC011	MUKTHA H K	40	39	36	40	19.5	19.5	18	18	2	2	2	2	2	36	7.2	7.2	7.2	7.2	7.2	49.2	28.7	28.7	27.2	27.2	29.9
12	1SV20EC013	PRATHIKSHA	9	19	30	33	9.5	9.5	15	15	2	2	2	2	2	23	4.6	4.6	4.6	4.6	4.6	39.6	16.1	16.1	21.6	21.6	23
13	1SV20EC014	R M SUCHITRA	40	39	40	40	19.5	19.5	20	20	2	2	2	2	2	28	5.6	5.6	5.6	5.6	5.6	47.6	27.1	27.1	27.6	27.6	27.7
14	1SV20EC015	RACHANA N	39	38	39	40	19	19	19.5	19.5	2	2	2	2	2	36	7.2	7.2	7.2	7.2	7.2	49.2	28.2	28.2	28.7	28.7	32
15	1SV20EC016	S PAVITHRA	39	40	40	40	20	20	20	20	2	2	2	2	2	36	7.2	7.2	7.2	7.2	7.2	49.2	29.2	29.2	29.2	29.2	32.9
16	1SV20EC017	SHOBHA HUGAR	35	39	34	39	19.5	19.5	17	17	2	2	2	2	2	32	6.4	6.4	6.4	6.4	6.4	47.4	27.9	27.9	25.4	25.4	32
17	1SV20EC018	YASHAS K R	32	39	35	31	19.5	19.5	17.5	17.5	2	2	2	2	2	29	5.8	5.8	5.8	5.8	5.8	38.8	27.3	27.3	25.3	25.3	29.8
18	1SV20EC019	HARSHITHA U	34	35	33	20	17.5	17.5	16.5	16.5	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	26.2	25.7	25.7	22.7	22.7	26.3
19	1SV21EC400	MANOJ	32	36	26	32	16	16	13	13	2	2	2	2	2	16	3.2	3.2	3.2	3.2	3.2	37.2	23.2	23.2	18.2	18.2	23.9
																						37.83158	24.56842	24.56842	23.01579	23.01579	
																						72.75%	76.78%	76.78%	71.92%	71.92%	

COURSE INSTRUCTOR

HOD

HOD
Dept of E&C
SIET, Tumkur-6

PRINCIPAL

PRINCIPAL
SIET, TUMKUR.