

**SHRIDEVI INSTITUTE OF ENGINEERING
AND TECHNOLOGY, TUMKUR**

DEPARTMENT OF ECE

CO-PO ATTAINMENT

ACADEMIC YEAR

2020-21

ODD SEM



SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY
SIRA ROAD, TUMKUR- 572 106
DEPARTMENT OF MATHEMATICS
(COMMON TO ALL BRANCHES)
ACADEMIC YEAR: 2020-2021



SUBJECT: TRANSFORM CALCULUS, FOURIER SERIES AND NUMERICAL TECHNIQUES
SUBJECT CODE: 18MAT31

COURSE OUTCOMES:

- CO1: Use Laplace transform and inverse Laplace transform in solving differential/ integral equation arising in network analysis, control systems and other fields of engineering.
- CO2: Demonstrate Fourier series to study the behaviour of periodic functions and their applications in system communications, digital signal processing and field theory.
- CO3: Make use of Fourier transform and Z-transform to illustrate discrete/continuous function arising in wave and heat propagation, signals and systems.
- CO4: Solve first order ordinary differential equations arising in engineering problems using single step and multistep numerical methods.
- CO5 : Solve second order ordinary differential equations by numerical methods and to determine the externals of functionals using calculus of variations and solve problems arising in dynamics of rigid bodies and vibrational analysis

	APPLY KNOWLEDGE	ANALYSIS	DESIGN	INVESTIGATION	MODERN TOOLS	SOCIETY	ENVIRONMENT	ETHICS	TEAM WORK	COMMUNICATION	PROJ MGMT FINANCE	LIFE LONG LEARN
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO1	2	3	0	0	0	0	0	0	0	0	0	1
CO2	2	3	0	0	0	0	0	0	0	0	0	1
CO3	2	3	0	0	0	0	0	0	0	0	0	1
CO4	2	3	0	0	0	0	0	0	0	0	0	1
CO5	2	3	0	0	0	0	0	0	0	0	0	1
AVG	2	3	0	0	0	0	0	0	0	0	0	1

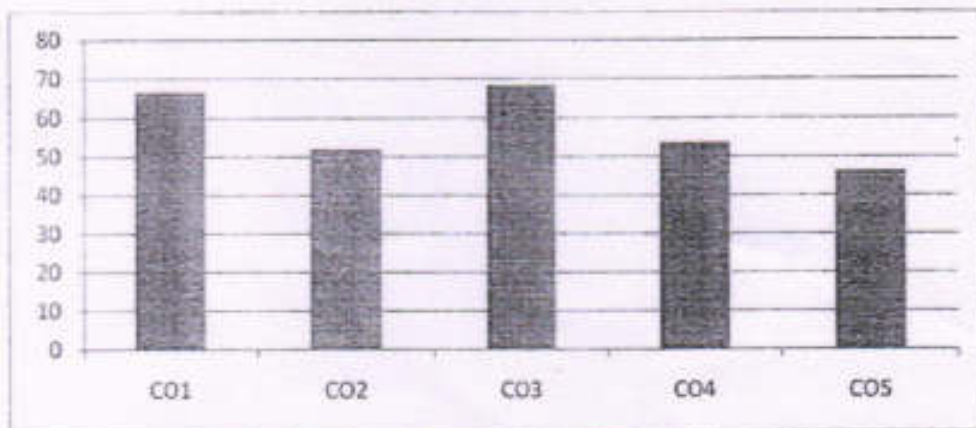
MAPPING CORRELATION	LOW	MODERATELY	HIGHLY	NO
	1	2	3	0



DEPARTMENT OF MATHEMATICS

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY			
FACULTY NAME	Dr. CHETANA C/Prof. RASHMI S B			
BRANCH	ECE/EEE/CSE/CVE/ISE/ME	ACADEMIC YEAR	2020-21	
COURSE	B.E	SEMESTER	III	SECTION
SUBJECT	TRANSFORM CALCULUS, FOURIER SERIES AND NUMERICAL TECHNIQUES		SUBJECT CODE	18MAT31
CO & PO MAPPING				

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	67	1.33	2.00	0	0	0	0	0	0	0	0	0	0.67
CO2	52	1.04	1.56	0	0	0	0	0	0	0	0	0	0.52
CO3	68	1.37	2.05	0	0	0	0	0	0	0	0	0	0.68
CO4	54	1.08	1.61	0	0	0	0	0	0	0	0	0	0.54
CO5	46	0.93	1.39	0	0	0	0	0	0	0	0	0	0.46
AVG.	57	1	2	0	0	0	0	0	0	0	0	0	1
Final attainment level													1.33



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Staff in-charge

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Department of Electronics & Communication Engineering
Course Outcomes and CO-PO Articulation Matrix

2018 Scheme
ACADEMIC YEAR 2020-21
Semester-III

Subject: NETWORK THEORY		Subject Code: 18EC32										
NAME FACULTY: PROF. PRADEEPAKUMAR S S												
Course Outcomes												
CO1	At the end of the course, the students will be able to Determine currents and voltages using source transformation/ source shifting/ mesh/ nodal analysis and reduce given network using star-delta transformation/source transformation/ source shifting											
CO2	Determine currents and voltages using source transformation/ source shifting/ mesh/ nodal analysis and reduce given network using star-delta transformation/source transformation/ source shifting.											
CO3	Solve network problems by applying Superposition/ Reciprocity/ Thevenin's/ Norton's/ Maximum Power Transfer/ Millman's Network Theorems and electrical laws to reduce circuit complexities and to arrive at feasible solutions. Calculate current and voltages for the given circuit under transient conditions.											
CO4	Design applications of Combinational & Sequential Circuits.											
CO5	Apply Laplace transform to solve the given network. Solve the given network using specified two port network parameter like Z or Y or T or h. Understand the concept of resonance											
CO-PO Mapping												
COs	Pos											
	1	2	3	4	5	6	7	8	9	10	11	12
CO1	2	2	2	1	2					1		1
CO2	2	2	2	2	1					1		1
CO3	2	2	2	2	2					2		1
CO4	2	2	2	2	1					1		2
CO5	2	2	2	2	2					1		1
Average	2	2	2	1.8	1.6					1		1.2

ATTAINMENT TABLE

COs	AVG	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	50.24%	1.05	1.05	1.05	0.50	1.05					0.50		0.50
CO2	55.73%	1.11	1.11	1.11	1.11	0.55					0.55		0.55
CO3	42.31%	0.84	0.84	0.84	0.84	0.84					0.84		0.42
CO4	58.86%	1.17	1.17	1.17	1.17	0.59					0.59		1.17
CO5	53.00%	1.06	1.06	1.06	1.06	1.06					0.53		0.53
AVERAGE		1.04	1.04	1.04	0.93	0.82					0.60		0.634
TOTAL ATTAINMENT													0.87

Prof. S S
SUBJECT FACULTY

AS
HOD
Dept of E&C

N. Srinivas
PRINCIPAL
PRINCIPAL

Roll No	LDR	NAME	2020-2021 CGPA					SEM II SEM					PROF. PRACTICE NETWORK THEORY					80	SEM MARKS					TOTAL AVERAGE																					
			T1		T2			T3			ASSIGNMENT US					Final																													
			T1	T2	T3	CO1-13	CO2-7	CO3-4	CO4-7	CO5-4	CO1-1	CO2-1	CO3-1	CO4-1	CO5-1	CO1-12	CO2-12		CO3-12	CO4-12	CO5-12	CO1-20	CO2-20		CO3-21	CO4-20	CO5-21																		
1	SVIN0001	AKASH S CHANDRAN	20	21	10	20	15	8	5	5	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	20.2	21.0	22.2	23.2	24.2	25.2																		
2	SVIN0002	ADITHYAN S	12	12	4	12	6	5	2	2	2	2	2	2	2	26	5.2	5.2	5.2	5.2	5.2	19.2	19.2	19.2	19.2	19.2	19.2																		
3	SVIN0003	ADITHYAN S	10	30	30	10	10	15	15	15	3	2	2	2	2	34	5.5	5.5	5.5	5.5	5.5	19.2	19.2	19.2	19.2	19.2	19.2																		
4	SVIN0004	ADITHYAN S	11	5	24	11	3	2	10	12	2	2	2	2	2	28	5.5	5.5	5.5	5.5	5.5	19.2	19.2	19.2	19.2	19.2	19.2																		
5	SVIN0005	ADITHYAN S	11	26	16	11	12	14	11	3	2	2	2	2	2	25	5	5	5	5	5	18	19	21	18	19	19.2																		
6	SVIN0006	ADITHYAN S	15	23	14	15	11	12	7	7	2	2	2	2	2	20	4	4	4	4	4	21	17	18	18	18	18.6																		
7	SVIN0007	ADITHYAN S	18	7	14	14	4	3	7	7	2	2	2	2	2	31	6.2	6.2	6.2	6.2	6.2	22.2	12.2	11.2	15.2	15.2	15.2																		
8	SVIN0008	ADITHYAN S	14	10	9	14	5	5	4	5	2	2	2	2	2	19	3.8	3.8	3.8	3.8	3.8	18.8	10.8	10.8	8.8	10.8	10.8																		
9	SVIN0009	ADITHYAN S	9	6	2	6	3	3	1	1	2	2	2	2	2	26	5.2	5.2	5.2	5.2	5.2	18.7	10.7	10.2	8.2	8.2	10.8																		
10	SVIN0010	ADITHYAN S	9	9	12	8	4	5	11	1	2	2	2	2	2	27	5.4	5.4	5.4	5.4	5.4	18.4	11.4	12.4	16.4	8.4	11.5																		
11	SVIN0011	ADITHYAN S	10	7	7	10	4	3	4	3	2	2	2	2	2	30	6	6	6	6	6	18	12	11	12	11	13.1																		
12	SVIN0012	ADITHYAN S	15	5	12	15	2	3	8	8	2	2	2	2	2	27	5.4	5.4	5.4	5.4	5.4	22.4	9.4	10.4	13.4	13.4	13.9																		
13	SVIN0013	ADITHYAN S	7	5	11	7	3	2	5	6	2	2	2	2	2	26	5.2	5.2	5.2	5.2	5.2	14.2	10.2	9.2	12.2	13.2	12.8																		
14	SVIN0014	ADITHYAN S	11	24	15	11	12	12	7	8	2	2	2	2	2	31	6.2	6.2	6.2	6.2	6.2	19.2	20.2	20.2	15.2	16.2	15																		
15	SVIN0015	ADITHYAN S	12	12	7	12	6	6	4	3	2	2	2	2	2	28	5.8	5.8	5.8	5.8	5.8	18.8	13.8	13.8	11.8	10.8	16																		
16	SVIN0016	ADITHYAN S	10	11	14	15	6	5	7	7	2	2	2	2	2	26	5.2	5.2	5.2	5.2	5.2	22.2	13.2	13.2	14.2	14.2	14.5																		
17	SVIN0017	ADITHYAN S	8	9	10	9	4	5	5	5	2	2	2	2	2	19	3.8	3.8	3.8	3.8	3.8	13.8	9.8	10.8	10.8	10.8	13.3																		
18	SVIN0018	ADITHYAN S	14	11	14	14	5	6	7	7	2	2	2	2	2	26	5.2	5.2	5.2	5.2	5.2	21.2	12.2	13.2	14.2	14.2	13.1																		
19	SVIN0019	ADITHYAN S	14	12	7	14	6	6	4	3	2	2	2	2	2	26	5.2	5.2	5.2	5.2	5.2	21.2	12.2	13.2	14.2	14.2	13.1																		
20	SVIN0020	ADITHYAN S	9	6	10	9	3	3	5	5	2	2	2	2	2	19	3.8	3.8	3.8	3.8	3.8	13.8	11.8	11.8	9.8	8.8	11.7																		
21	SVIN0021	ADITHYAN S	9	11	11	9	5	6	5	6	2	2	2	2	2	27	5.4	5.4	5.4	5.4	5.4	16.4	10.4	10.4	12.4	12.4	12.4																		
22	SVIN0022	ADITHYAN S	15	9	13	10	5	4	7	6	2	2	2	2	2	17	3.4	3.4	3.4	3.4	3.4	14.4	10.4	11.4	10.4	11.4	12																		
23	SVIN0023	ADITHYAN S	8	4	9	8	3	3	4	5	2	2	2	2	2	10	2	2	2	2	2	14	9	8	11	10	11																		
24	SVIN0024	ADITHYAN S	14	12	11	14	5	12	5	6	2	2	2	2	2	26	5.2	5.2	5.2	5.2	5.2	15.2	10.2	10.2	11.2	12.2	11.1																		
25	SVIN0025	ADITHYAN S	13	20	9	13	5	6	4	5	2	2	2	2	2	19	3.8	3.8	3.8	3.8	3.8	21.2	7.2	19.2	12.2	13.2	13.2																		
26	SVIN0026	ADITHYAN S	0	12	11	0	0	10	8	6	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	17.4	9.4	9.4	8.4	9.4	12.7																		
27	SVIN0027	ADITHYAN S	14	12	4	14	6	6	2	2	2	2	2	2	2	20	4	4	4	4	4	20	12	12	8	8	11.4																		
28	SVIN0028	ADITHYAN S	0	12	14	0	10	0	7	7	2	2	2	2	2	17	3.4	3.4	3.4	3.4	3.4	17.4	5.4	12.4	12.4	12.4	11.5																		
29	SVIN0029	ADITHYAN S	10	23	10	10	11	12	11	8	2	2	2	2	2	23	4.6	4.6	4.6	4.6	4.6	10.6	17.6	18.6	17.6	16.6	15.8																		
30	SVIN0030	ADITHYAN S	14	11	14	14	5	6	7	7	2	2	2	2	2	19	3.8	3.8	3.8	3.8	3.8	19.8	10.8	11.8	12.8	12.8	13.1																		
31	SVIN0031	ADITHYAN S	14	12	7	14	6	6	4	3	2	2	2	2	2	28	4.8	4.8	4.8	4.8	4.8	20.8	12.8	12.8	10.8	9.8	13.1																		
32	SVIN0032	ADITHYAN S	9	6	10	9	3	3	5	5	2	2	2	2	2	26	5.2	5.2	5.2	5.2	5.2	16.2	10.2	10.2	12.2	12.2	12.8																		
33	SVIN0033	ADITHYAN S	9	11	11	9	5	6	5	6	2	2	2	2	2	17	3.4	3.4	3.4	3.4	3.4	14.4	10.4	11.4	10.4	11.4	11.8																		
34	SVIN0034	ADITHYAN S	10	9	13	10	5	4	7	6	2	2	2	2	2	22	4.4	4.4	4.4	4.4	4.4	16.4	11.4	10.4	13.4	12.4	13.2																		
																					17.824	12.56471	12.77059	12.77059	12.5																50.24%	55.79%	42.31%	58.86%	59.00%

Prachi S2
COURSE INSTRUCTOR

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**Department of Electronics & Communication Engineering****Course Outcomes and CO-PO- Articulation Matrix****2018 Scheme****ACADEMIC YEAR 2020-21****Semester-III**

Subject: Electronic Devices Prof. Prabitha D K											Subject Code: 18EC33		
Course Outcomes													
CO1	Understand the basics of semiconductor physics and electronic devices.												
CO2	Describe the mathematical models BJT's and FET's along with the constructional details.												
CO3	Understand the construction and working principles of optoelectronic devices												
CO4	Understand the fabrication process of semiconductor devices and CMOS process integration.												
CO5	To study different Electronic Devices												
CO-PO Mapping													
COs	Pos												
	1	2	3	4	5	6	7	8	9	10	11	12	
CO1	2	1	1										2
CO2	3	2	2										2
CO3	3	2	2										2
CO4	1	1	1										2
CO5	2	2	2										2
Average	2.0	1.4	2.0										2.0

ATTAINMENT TABLE

COs	AVG	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	69.64%	1.38	0.69	0.69									1.38
CO2	64.50%	1.92	1.28	1.28									1.28
CO3	62.24%	1.86	1.24	1.24									1.24
CO4	69.37%	0.69	0.69	0.69									1.38
CO5	62.24%	1.24	1.24	1.24									1.24
AVERAGE		1.41	1.02	1.02									1.3
TOTAL ATTAINMENT													1.18

Prabitha D K
Course Instructor

HS
HOD
HOD
Dept of E&C

Prabitha D K
Principal
PRINCIPAL
SIET, TUMAKURU

Ref No	USN	Name	SEM-I		SEM-II		SEM-III		SEM-IV		SEM-V		SEM-VI		SEM-VII		SEM-VIII		SEM-IX		SEM-X		TOTAL AVERAGE					
			T1		T2		T3		T4		T5		T6		T7		T8		T9		T10							
			CO1-1	CO1-2	CO2-1	CO2-2	CO3-1	CO3-2	CO4-1	CO4-2	CO5-1	CO5-2	CO6-1	CO6-2	CO7-1	CO7-2	CO8-1	CO8-2	CO9-1	CO9-2	CO10-1	CO10-2						
1	DSV19C01	AKASH D	20	23	10	20	15	5	5	5	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	26.7	21.7	12.7	11.7	11.7	28.4	
2	DSV19C01	AKHILESH	12	12	4	12	8	8	2	2	2	2	2	2	2	26	5.2	5.2	5.2	5.2	5.2	19.2	19.2	19.2	9.2	9.2	24.6	
3	DSV19C01	ARUN K M	10	30	30	10	15	15	15	15	2	2	2	2	2	34	6.8	6.8	6.8	6.8	6.8	18.8	19.8	25.8	23.8	23.8	27.8	
4	DSV19C01	BHAVANA	11	5	24	11	3	2	12	12	2	2	2	2	2	28	5.6	5.6	5.6	5.6	5.6	18.6	10.6	9.6	19.6	19.6	28.2	
5	DSV19C01	BHARATH	11	26	16	11	12	14	11	5	2	2	2	2	2	25	5	5	5	5	5	19	19	21	18	17	26.5	
6	DSV19C01	CHANDAN	15	23	14	15	11	12	7	7	2	2	2	2	2	20	4	4	4	4	4	21	17	18	13	11	17	
7	DSV19C01	CHIRPAI	14	7	14	14	4	3	7	7	2	2	2	2	2	31	6.2	6.2	6.2	6.2	6.2	22.2	12.2	11.2	15.2	15.2	25.8	
8	DSV19C01	DASHAN	14	10	8	14	5	5	4	5	2	2	2	2	2	18	3.6	3.6	3.6	3.6	3.6	18.6	10.6	10.6	9.6	10.6	23.8	
9	DSV19C01	DIVA P	8	6	2	8	3	3	1	1	2	2	2	2	2	25	5.2	5.2	5.2	5.2	5.2	16.2	10.2	10.2	8.2	8.2	21.5	
10	DSV19C01	DACANA	8	9	12	8	4	5	11	1	2	2	2	2	2	27	5.4	5.4	5.4	5.4	5.4	16.4	11.4	13.4	18.4	8.4	12	
11	DSV19C01	GOVIND	10	7	7	10	4	3	4	3	2	2	2	2	2	30	6	6	6	6	6	18	17	11	12	11	23.1	
12	DSV19C01	HARSHITH	15	5	12	15	2	3	8	6	2	2	2	2	2	27	5.4	5.4	5.4	5.4	5.4	22.4	8.4	10.4	13.4	13.4	23.1	
13	DSV19C01	K S SANTH	7	5	11	7	3	2	5	6	2	2	2	2	2	26	5.2	5.2	5.2	5.2	5.2	14.2	10.2	9.2	12.2	13.2	22.8	
14	DSV19C01	R SRIJAY	11	24	15	11	12	12	7	8	2	2	2	2	2	31	6.2	6.2	6.2	6.2	6.2	19.2	20.2	20.2	15.2	18.2	15	
15	DSV19C01	LAKSHMI	12	12	7	12	6	6	4	3	2	2	2	2	2	28	5.6	5.6	5.6	5.6	5.6	15.6	13.6	13.6	11.6	10.6	16	
16	DSV19C01	MEGHANA	15	11	14	15	8	5	7	7	2	2	2	2	2	25	5.2	5.2	5.2	5.2	5.2	22.2	13.2	12.2	14.2	14.2	14.5	
17	DSV19C01	MURKAN J	8	9	10	8	4	5	5	5	2	2	2	2	2	19	3.8	3.8	3.8	3.8	3.8	13.8	9.8	10.8	10.8	10.8	13.2	
18	DSV19C01	NALINA D	14	11	14	14	8	6	7	7	8	2	2	2	2	26	5.2	5.2	5.2	5.2	5.2	21.2	12.2	13.2	14.2	14.2	13.1	
19	DSV19C01	PREETHI	14	12	7	14	6	6	4	3	2	2	2	2	2	19	3.8	3.8	3.8	3.8	3.8	19.8	11.8	11.8	9.8	8.8	13.7	
20	DSV19C01	PRIYADAR	8	4	10	8	3	3	5	5	2	2	2	2	2	27	5.4	5.4	5.4	5.4	5.4	16.4	10.4	10.4	12.4	12.4	12.4	
21	DSV19C01	EDHAMAN	8	12	11	8	5	6	5	6	2	2	2	2	2	17	3.4	3.4	3.4	3.4	3.4	14.4	10.4	11.4	10.4	11.4	12	
22	DSV19C01	KARTHI	10	8	13	10	6	4	7	6	2	2	2	2	2	10	2	2	2	2	2	14	9	8	11	10	11	
23	DSV19C01	SAHIL S	8	4	9	8	3	3	4	5	2	2	2	2	2	26	5.2	5.2	5.2	5.2	5.2	15.2	10.2	10.2	11.2	12.2	11.1	
24	DSV19C01	SANDYA F	14	12	11	14	8	12	5	6	2	2	2	2	2	26	5.2	5.2	5.2	5.2	5.2	21.2	7.2	13.2	12.2	13.2	13.2	
25	DSV19C01	SHARANA	13	10	8	13	3	5	4	5	2	2	2	2	2	12	2.4	2.4	2.4	2.4	2.4	17.4	9.4	9.4	8.4	9.4	12.7	
26	DSV19C01	SUVIDYA S	8	12	11	8	0	12	5	6	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	6.2	6.2	18.2	11.2	12.2	10.8	
27	DSV19C01	YASHWAN	14	12	4	14	6	5	2	2	2	2	2	2	2	20	4	4	4	4	4	20	12	17	8	8	22.4	
28	DSV19C01	VIGNESH K	8	12	14	8	12	8	7	7	2	2	2	2	2	17	3.4	3.4	3.4	3.4	3.4	14.4	17.4	5.4	12.4	12.4	11.3	
29	DSV19C01	ANDEE A	10	23	18	10	11	12	11	8	2	2	2	2	2	23	4.6	4.6	4.6	4.6	4.6	10.6	17.6	18.6	17.6	14.6	13.8	
30	DSV19C01	ADITHYAN	14	11	14	14	5	6	7	7	2	2	2	2	2	19	3.8	3.8	3.8	3.8	3.8	10.8	10.8	11.8	12.8	12.8	15.3	
31	DSV20C01	DEEPTI S	14	12	7	14	6	6	4	3	2	2	2	2	2	24	4.8	4.8	4.8	4.8	4.8	20.8	12.8	12.8	10.8	9.8	13.5	
32	DSV20C01	GANESH	8	6	10	8	3	3	5	5	2	2	2	2	2	28	5.2	5.2	5.2	5.2	5.2	16.2	10.2	10.2	12.2	12.2	12.8	
33	DSV20C01	LAVANYA	8	11	11	8	5	8	5	6	2	2	2	2	2	17	3.4	3.4	3.4	3.4	3.4	14.4	10.4	11.4	10.4	11.4	11.9	
34	DSV19C01	M S BHAV	10	8	13	10	5	4	7	6	2	2	2	2	2	22	4.4	4.4	4.4	4.4	4.4	16.4	11.4	10.4	13.4	12.4	12.2	
																						17.8235	12.50471	12.77059	12.77059	12.5		
																							69.86	75.04	64.92	73.41	72.58	

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**Department of Electronics & Communication Engg**
Course Outcomes and CO-PO Articulation Matrix**2020-21 Scheme****Semester-III**

Subject: DIGITAL SYATEM DESIGN PROF. RAGHAVENDRA D							Subject Code: 18EC34					
Course Outcomes												
CO1	Explain the concept of combinational and sequential logic circuits..											
CO2	Design the combinational logic circuits.											
CO3	Design the sequential circuits using SR, JK, D, T flip-flops and Mealy & Moore machines											
CO4	Design applications of Combinational & Sequential Circuits.											
CO5	Principles of combinational logic											
CO-PO Mapping												
COs	Pos											
	1	2	3	4	5	6	7	8	9	10	11	12
CO1	2	2	2	1	2					1		1
CO2	2	2	2	2	1					1		1
CO3	2	2	2	2	2					2		1
CO4	2	2	2	2	1					1		2
CO5	2	2	2	2	2					1		1
Average	2	2	2	1.8	1.6					1		1.2

ATTAINMENT TABLE

COs	AVG	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	50.24%	1.05	1.05	1.05	0.50	1.05					0.50		0.50
CO2	55.73%	1.11	1.11	1.11	1.11	0.55					0.55		0.55
CO3	42.31%	0.84	0.84	0.84	0.84	0.84					0.84		0.42
CO4	58.86%	1.17	1.17	1.17	1.17	0.59					0.59		1.17
CO5	53.00%	1.06	1.06	1.06	1.06	1.06					0.53		0.53
AVERAGE		1.04	1.04	1.04	0.93	0.82					0.60		0.634
TOTAL ATTAINMENT													0.87

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Roll No.	USN	Name	2020-2021 ODD			SEM - SEM					PROF. RADHAVENDRA DIGITAL SYSTEM DESIGN					SEE					SEE MARKS					TOTAL AVERAGE																			
			T1			T2			T3		ASSIGNMENT IDS					Final																													
			T1	T2	T3	CO1-15	CO2-7	CO3-8	CO4-7	CO5-8	CO1-1	CO2-1	CO3-1	CO4-1	CO5-1	60	CO1-12	CO2-12	CO3-12	CO4-12	CO5-12	CO1-20	CO2-20	CO3-21	CO4-20		CO5-21																		
1	18V19EC001	AKASH DODAMANI	20	21	10	20	15	6	5	5	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	26.2	21.2	12.2	11.2	11.2	16.4																		
2	18V19EC002	ASHLESH YADAV	12	12	4	12	8	6	2	2	2	2	2	2	2	26	5.2	5.2	5.2	5.2	5.2	19.2	13.2	13.2	9.2	9.2	14.6																		
3	18V19EC003	ARPIVA SULTANA	10	30	30	10	15	15	15	15	2	2	2	2	2	34	6.8	6.8	6.8	6.8	6.8	18.8	23.8	23.8	23.8	23.8	17.8																		
4	18V19EC005	BHAVANA U	11	5	24	11	3	2	12	12	2	2	2	2	2	28	5.8	5.8	5.6	5.6	5.6	18.6	20.6	9.6	19.6	19.6	19.2																		
5	18V19EC006	BHICORDEKA D	11	20	18	11	12	14	11	5	2	2	2	2	2	25	5	5	5	5	5	18	19	21	18	12	16.6																		
6	18V19EC007	CHANDAN M U	15	23	14	15	11	12	7	7	2	2	2	2	2	20	4	4	4	4	4	21	17	18	13	13	17																		
7	18V19EC008	CRIDINA VIOLET P	14	7	14	14	4	3	7	7	2	2	2	2	2	31	6.2	6.2	6.2	6.2	6.2	22.2	12.2	11.2	15.2	15.2	15.8																		
8	18V19EC009	DARSHAN M MANCHIR	14	10	8	14	5	5	4	5	2	2	2	2	2	19	3.8	3.8	3.6	3.6	3.6	19.6	10.6	10.6	9.6	10.6	13.8																		
9	18V19EC010	DIVYA JOS	9	6	2	9	3	3	1	1	2	2	2	2	2	26	5.2	5.2	5.2	5.2	5.2	16.2	10.2	10.2	8.2	8.2	11.9																		
10	18V19EC011	GAGANA Y	9	9	12	9	4	5	11	1	2	2	2	2	2	27	5.4	5.4	5.4	5.4	5.4	16.4	11.4	12.4	18.4	8.4	12																		
11	18V19EC012	GOWRAMMA S	10	7	7	10	4	3	4	3	2	2	2	2	2	30	6	6	6	6	6	18	12	11	12	11	13.1																		
12	18V19EC013	HARSHITHA M	15	5	12	15	2	3	6	6	2	2	2	2	2	27	5.4	5.4	5.4	5.4	5.4	22.4	9.4	10.4	13.4	13.4	13.3																		
13	18V19EC014	K S SANTHOSH	7	5	11	7	2	5	6	6	2	2	2	2	2	26	5.2	5.2	5.2	5.2	5.2	14.2	10.2	6.2	12.2	13.2	12.8																		
14	18V19EC015	K SANJAY	11	24	15	11	12	12	7	8	2	2	2	2	2	31	6.2	6.2	6.2	6.2	6.2	19.2	20.2	20.2	15.2	16.2	15																		
15	18V19EC016	LOKESHWAR ROTTI B S	12	12	7	12	5	6	4	3	2	2	2	2	2	28	5.6	5.6	5.6	5.6	5.6	19.6	13.6	13.6	11.6	10.6	16																		
16	18V19EC017	NREGHANA R	15	11	14	15	6	6	7	7	2	2	2	2	2	26	5.2	5.2	5.2	5.2	5.2	22.2	13.2	12.2	14.2	14.2	14.5																		
17	18V19EC018	NURKAN ZAHID	8	9	10	8	4	5	5	5	2	2	2	2	2	19	3.8	3.8	3.6	3.6	3.6	13.6	9.6	10.6	10.6	10.6	13.2																		
18	18V19EC019	NALINA D K	14	11	14	14	5	6	7	7	2	2	2	2	2	26	5.2	5.2	5.2	5.2	5.2	21.2	12.2	13.2	14.2	14.2	13.1																		
19	18V19EC021	PREETHIKA A S	14	12	7	14	6	6	4	3	2	2	2	2	2	19	3.8	3.8	3.6	3.6	3.6	19.6	11.6	11.6	9.6	8.6	11.7																		
20	18V19EC022	PREYADARSHINI M	9	6	10	9	3	3	5	5	2	2	2	2	2	27	5.4	5.4	5.4	5.4	5.4	16.4	10.4	10.4	12.4	12.4	12.4																		
21	18V19EC023	BEHAMAN KHAN H K	9	11	11	9	5	6	5	6	2	2	2	2	2	17	3.4	3.4	3.4	3.4	3.4	14.4	10.4	11.4	10.4	11.4	12																		
22	18V19EC024	S KARTHIK	10	9	13	10	5	4	7	6	2	2	2	2	2	10	2	2	2	2	2	14	9	8	11	10	11																		
23	18V19EC025	SAHIL SALAM	6	6	9	6	3	3	4	5	2	2	2	2	2	28	5.2	5.2	5.2	5.2	5.2	15.2	10.2	10.2	11.2	12.2	11.1																		
24	18V19EC027	SANIYA FATHIMA	14	12	11	14	0	12	5	6	2	2	2	2	2	26	5.2	5.2	5.2	5.2	5.2	21.2	7.2	19.2	12.2	13.2	13.2																		
25	18V19EC028	SHARANAKUMAR	13	10	9	13	5	5	4	5	2	2	2	2	2	12	2.4	2.4	2.4	2.4	2.4	17.4	9.4	8.4	8.4	9.4	12.7																		
26	18V19EC029	SUPEYA N	0	12	11	0	0	12	5	6	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	6.2	6.2	18.2	11.2	12.2	10.8																		
27	18V19EC030	YASHWANTH C	14	12	4	14	6	6	2	2	2	2	2	2	2	20	4	4	4	4	4	20	12	12	8	8	11.4																		
28	18V19EC031	YOGISH K	0	12	14	0	12	0	7	7	2	2	2	2	2	17	3.4	3.4	3.4	3.4	3.4	5.4	17.4	5.4	12.4	12.4	11.3																		
29	18V19EC031	ANIKET ASHOK NEJE	10	23	19	10	11	12	11	8	2	2	2	2	2	23	4.6	4.6	4.6	4.6	4.6	16.6	17.6	18.6	17.6	14.6	13.8																		
30	18V19EC033	ARUN N R	14	13	14	14	5	6	7	7	2	2	2	2	2	19	3.8	3.8	3.8	3.8	3.8	19.8	10.8	11.8	12.8	12.8	15.3																		
31	18V19EC040	BINDU T S	14	12	7	14	6	6	4	3	2	2	2	2	2	24	4.8	4.8	4.8	4.8	4.8	20.8	12.8	12.8	10.8	9.8	13.5																		
32	18V19EC041	GANASHREE K B	9	6	10	9	3	3	5	5	2	2	2	2	2	26	5.2	5.2	5.2	5.2	5.2	16.2	10.2	10.2	12.2	12.2	12.8																		
33	18V19EC042	LAVANYA K B	9	11	11	9	5	6	5	6	2	2	2	2	2	17	3.4	3.4	3.4	3.4	3.4	14.4	10.4	11.4	10.4	11.4	11.9																		
34	18V19EC043	M S BHAVANI SHANKA	10	9	13	10	5	4	7	6	2	2	2	2	2	22	4.4	4.4	4.4	4.4	4.4	16.4	11.4	10.4	13.4	12.4	12.2																		
																					17.6824	12.5647059	12.77059	12.77059	12.3																				
																					69.86%	75.04%	64.32%	73.41%	72.58%																				

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Department of Electronics & Communication Engg

Course Outcomes and CO-PO Articulation Matrix

2020-21 Scheme

Semester-III

Subject: COMPUTER ORGANISATION ARCHITECTURE PROF. NAYANA M S										Subject Code: 18EC35			
Course Outcomes													
CO1	Explain the basic organization of a computer system.												
CO2	Explain different ways of accessing an input / output device including interrupts.												
CO3	Illustrate the organization of different types of semiconductor and other secondary storage memories.												
CO4	Design applications of Combinational & Sequential Circuits.												
CO5	Illustrate simple processor organization based on hardwired control and micro programmed control												
CO-PO Mapping													
COs	- Pos												
	1	2	3	4	5	6	7	8	9	10	11	12	
CO1	2	2	2	1	2					1		1	
CO2	2	2	2	2	2					1		1	
CO3	2	2	2	2	2					2		1	
CO4	2	2	2	2	2					1		2	
CO5	2	2	2	2	2					1		1	
Average	2	2	2	1.8	2					1		1.2	

ATTAINMENT TABLE

COs	AVG	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	65.93%	1.31	1.31	1.31	0.65	1.31					0.65		0.65
CO2	76.75%	1.53	1.53	1.53	1.53	1.53					0.76		0.76
CO3	71.79%	1.43	1.43	1.43	1.43	1.43					1.43		0.71
CO4	72.31%	1.44	1.44	1.44	1.44	1.44					0.72		1.44
CO5	67.14%	1.34	1.34	1.34	1.34	1.34					0.67		0.67
AVERAGE		1.41	1.41	1.41	1.27	1.41					0.84		0.85
TOTAL ATTAINMENT													1.108

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Roll No.	USN	Name	IIRC85		2020-2021 OOD				SEM III SEM		PROJ. SEMANA V I		COMPUTER ORGAINIZATION & ARCHITECTURE						Final					TOTAL AVERAGE			
			T1	T2	T3	CO1-18	CO2-7	CO3-4	CO4-7	CO5-4	ASSIGNMENT DVS						SEE MARKS										
			CO1-1	CO2-1	CO3-1	CO4-1	CO5-1	60	CO1-12	CO2-12	CO3-12	CO4-12	CO5-12	CO1-28	CO2-28	CO3-21	CO4-28	CO5-21									
1	DSV19EC001	ANJANI DODDAMANI	20		20	19	8	5	8	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	26.2	21.2	22.2	11.2	11.2	18.4	
2	DSV19EC002	ASHLESH YADAV	12	12	4	12	8	8	2	2	2	2	2	2	26	5.2	5.2	5.2	5.2	5.2	19.2	19.2	19.2	9.2	9.2	18.6	
3	DSV19EC003	SRINVA MATANNA	10	30	20	18	15	15	15	2	2	2	2	2	34	6.8	6.8	6.8	6.8	6.8	18.8	23.8	23.8	23.8	23.8	17.8	
4	DSV19EC004	SHIVAJI A U	11	5	24	11	3	2	12	12	2	2	2	2	28	5.8	5.8	5.8	5.8	5.8	18.8	20.8	9.8	19.8	19.8	18.2	
5	DSV19EC005	SHOBANA J I	11	28	18	11	12	14	11	5	2	2	2	2	25	5	5	5	5	5	18	18	21	18	21	16.6	
6	DSV19EC006	CHANDAN M U	18	29	14	18	11	12	7	7	2	2	2	2	20	4	4	4	4	4	21	17	18	13	13	17	
7	DSV19EC007	CHIRPNA VIOLET P	14	7	14	14	4	3	7	7	2	2	2	2	31	6.2	6.2	6.2	6.2	6.2	22.2	12.2	11.2	15.2	15.2	15.8	
8	DSV19EC008	DARSHAN M MARICHA	14	18	8	14	5	5	4	5	2	2	2	2	18	3.8	3.8	3.8	3.8	3.8	19.8	10.8	10.8	9.8	10.8	13.8	
9	DSV19EC009	DEVYA P O L	9	6	2	9	3	3	1	1	2	2	2	2	26	5.2	5.2	5.2	5.2	5.2	16.2	10.2	10.2	8.2	8.2	11.9	
10	DSV19EC010	DACARA V	9	9	12	9	4	5	11	1	2	2	2	2	27	5.4	5.4	5.4	5.4	5.4	16.4	11.4	12.4	16.4	8.4	12	
11	DSV19EC011	DEVYANAMA S	10	7	7	10	4	3	4	3	2	2	2	2	30	6	6	6	6	6	18	12	11	12	11	13.1	
12	DSV19EC012	HARSHITHA M	18	5	12	18	2	3	8	6	2	2	2	2	27	5.4	5.4	5.4	5.4	5.4	23.4	9.4	10.4	13.4	13.4	13.9	
13	DSV19EC013	K S SANTHOSH	7	5	11	7	3	2	5	6	2	2	2	2	26	5.2	5.2	5.2	5.2	5.2	14.2	10.2	9.2	12.2	13.2	12.8	
14	DSV19EC014	K SASHAY	11	24	18	11	12	12	7	8	2	2	2	2	31	6.2	6.2	6.2	6.2	6.2	19.2	20.2	20.2	15.2	16.2	15	
15	DSV19EC015	LAKSHMIVARU KOTES	12	12	7	12	8	6	4	3	2	2	2	2	28	5.8	5.8	5.8	5.8	5.8	19.8	13.8	13.8	13.8	10.8	16	
16	DSV19EC016	NEETHA R	15	11	14	15	8	5	7	7	2	2	2	2	26	5.2	5.2	5.2	5.2	5.2	22.2	13.2	13.2	14.2	14.2	14.5	
17	DSV19EC017	NEELAN ZAIBO	8	9	10	8	4	5	5	5	2	2	2	2	19	3.8	3.8	3.8	3.8	3.8	13.8	8.8	10.8	10.8	10.8	11.2	
18	DSV19EC018	NALINDA K	14	11	14	14	5	6	7	7	2	2	2	2	26	5.2	5.2	5.2	5.2	5.2	21.2	12.2	13.2	14.2	14.2	13.1	
19	DSV19EC019	PREETHIKA A S	14	12	7	14	6	6	4	3	2	2	2	2	18	3.8	3.8	3.8	3.8	3.8	15.8	11.8	11.8	9.8	8.8	13.7	
20	DSV19EC020	PRIVADARISHI M	9	6	10	9	3	3	5	5	2	2	2	2	27	5.4	5.4	5.4	5.4	5.4	16.4	10.4	10.4	12.4	13.4	12.4	
21	DSV19EC021	REHMAN KHAN H	9	11	11	9	5	6	5	6	2	2	2	2	17	3.4	3.4	3.4	3.4	3.4	14.4	10.4	11.4	10.4	11.4	12	
22	DSV19EC022	SEETHA	10	9	13	10	5	4	7	6	2	2	2	2	10	2	2	2	2	2	14	9	8	11	10	11	
23	DSV19EC023	SAHIL SALAM	8	6	8	8	3	4	4	5	2	2	2	2	26	5.2	5.2	5.2	5.2	5.2	15.2	10.2	10.2	11.2	12.2	11.1	
24	DSV19EC024	SANIYA FATIHA	14	12	11	14	6	12	5	6	2	2	2	2	26	5.2	5.2	5.2	5.2	5.2	21.2	7.2	19.2	12.2	13.2	13.2	
25	DSV19EC025	SHARANARUMAR	13	20	9	13	5	5	4	5	2	2	2	2	12	2.4	2.4	2.4	2.4	2.4	17.4	9.4	9.4	8.4	9.4	12.7	
26	DSV19EC026	SUPEYA H	0	12	11	0	0	12	5	6	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	6.2	8.2	18.2	11.2	12.2	18.8	
27	DSV19EC027	TABEENATH C	14	12	4	14	6	6	2	2	2	2	2	2	20	4	4	4	4	4	20	12	12	8	8	11.4	
28	DSV19EC028	UDYAM K	8	12	14	0	12	0	7	7	2	2	2	2	17	3.4	3.4	3.4	3.4	3.4	5.4	17.4	5.4	12.4	12.4	11.9	
29	DSV19EC029	AHREET ASHOK NEER	10	23	19	10	11	12	11	8	2	2	2	2	23	4.6	4.6	4.6	4.6	4.6	16.6	17.6	18.6	17.6	18.6	13.8	
30	DSV19EC030	ARUN R	14	12	14	14	6	6	7	7	2	2	2	2	19	3.8	3.8	3.8	3.8	3.8	19.8	10.8	11.8	12.8	12.8	15.9	
31	DSV19EC031	ROHINI T S	14	12	7	14	6	6	4	3	2	2	2	2	24	4.6	4.6	4.6	4.6	4.6	20.6	12.6	12.6	10.6	9.6	15.5	
32	DSV19EC032	GANAPRIYEE K E	9	6	10	9	3	3	5	5	2	2	2	2	26	5.2	5.2	5.2	5.2	5.2	16.2	10.2	10.2	12.2	12.2	12.8	
33	DSV19EC033	SAVANVA K R	9	11	11	9	5	6	5	6	2	2	2	2	17	3.4	3.4	3.4	3.4	3.4	14.4	10.4	11.4	10.4	11.4	11.9	
34	DSV19EC034	M S BHAVANI SHANK	10	9	13	10	5	4	7	6	2	2	2	2	22	4.4	4.4	4.4	4.4	4.4	16.4	11.4	10.4	13.4	12.4	12.2	
																						17.66235	12.56471	12.77019	12.77019	12.3	
																						50.24%	55.79%	42.31%	58.86%	53.02%	

Navya
COURSE INSTRUCTOR

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SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

Department of Electronics & Communication Engineering
Course Outcomes and CO-PO Articulation Matrix

2018 Scheme
ACADEMIC YEAR 2020-21
Semester-III

Subject: POWER ELECTRONICS & INSTRUMENTATION										Subject Code: 18EC36			
NAME FACULTY: PROF. NAYANA M S													
Course Outcomes													
CO1	Build and test circuits using power electronic devices.												
CO2	Analyze and design controlled rectifier, DC to DC converters, DC to AC inverters and SMPS. Define instrument errors.												
CO3	Develop circuits for multirange Ammeters, Voltmeters and Bridges to measure passive component values and frequency.												
CO4	Describe the principle of operation of Digital instruments and PLCs.												
CO5	Use instrumentation amplifier for measuring physical parameters.												
CO-PO Mapping													
COs	Pos												
	1	2	3	4	5	6	7	8	9	10	11	12	
CO1	2	2	2	1	2					1		1	
CO2	2	2	2	2	1					1		1	
CO3	2	2	2	2	2					2		1	
CO4	2	2	2	2	1					1		2	
CO5	2	2	2	2	2					1		1	
Average	2	2	2	1.8	1.6					1		1.2	

ATTAINMENT TABLE

COs	AVG	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	50.24%	1.05	1.05	1.05	0.50	1.05					0.50		0.50
CO2	55.73%	1.11	1.11	1.11	1.11	0.55					0.55		0.55
CO3	42.31%	0.84	0.84	0.84	0.84	0.84					0.84		0.42
CO4	58.86%	1.17	1.17	1.17	1.17	0.59					0.59		1.17
CO5	53.00%	1.06	1.06	1.06	1.06	1.06					0.53		0.53
AVERAGE		1.04	1.04	1.04	0.93	0.82					0.60		0.634
TOTAL ATTAINMENT													0.87


 SUBJECT FACULTY


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Roll No.	USA	Name	SEM I		SEM II SEM					POWER ELECTRONICS & INSTRUMENTATION												TOTAL AVERAGE					
			2220-2021 000		SEM II SEM			POWER ELECTRONICS & INSTRUMENTATION																			
			T1	T2	T3	CO1-10	CO2-7	CO3-8	CO4-7	CO5-8	CO1-1	CO2-1	CO3-1	CO4-1	CO5-1	65	CO1-12	CO2-12	CO3-12	CO4-12	CO5-12		CO1-20	CO2-20	CO3-20	CO4-20	CO5-20
1	DSV19EC001	AKASH DODAMARRI	20	21	10	20	15	5	5	5	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	26.2	21.2	22.2	11.2	11.2	18.4
2	DSV19EC002	AKHILESH YADAV	12	12	4	12	5	5	2	2	2	2	2	2	2	20	3.2	3.2	3.2	3.2	3.2	19.2	13.2	13.2	9.2	9.2	14.8
3	DSV19EC003	ARMYA SULTANA	10	10	20	12	15	15	15	2	2	2	2	2	2	34	6.8	6.8	6.8	6.8	6.8	18.8	23.8	23.8	23.8	23.8	17.8
4	DSV19EC005	BHAYANA U	11	5	24	11	3	2	12	12	2	2	2	2	2	29	5.8	5.8	5.8	5.8	5.8	18.8	12.8	9.8	19.8	19.8	19.2
5	DSV19EC006	BHOOMIKA D	11	20	18	11	12	14	11	5	2	2	2	2	2	25	5	5	5	5	5	18	19	21	18	17	16.6
6	DSV19EC007	CHANDAN M U	18	23	14	15	11	12	7	7	2	2	2	2	2	30	6	6	6	6	6	21	17	18	15	15	17
7	DSV19EC008	CHIRPINA VIOLET P	14	7	14	14	4	3	7	7	2	2	2	2	2	31	6.2	6.2	6.2	6.2	6.2	22.2	12.2	11.2	13.2	13.2	15.8
8	DSV19EC009	DADHIAN M MARICH	14	10	9	14	5	5	4	5	2	2	2	2	2	19	3.8	3.8	3.8	3.8	3.8	19.8	10.8	10.8	9.8	10.8	13.8
9	DSV19EC010	DIVYA P O S	6	6	2	6	3	3	1	1	2	2	2	2	2	28	5.2	5.2	5.2	5.2	5.2	18.2	10.2	10.2	8.2	8.2	11.5
10	DSV19EC011	DACANA V	6	6	12	6	4	5	11	1	2	2	2	2	2	27	5.4	5.4	5.4	5.4	5.4	18.4	11.4	12.4	18.4	8.4	13
11	DSV19EC012	GOVINDHAN S	10	7	7	10	4	3	4	3	2	2	2	2	2	30	6	6	6	6	6	18	12	11	12	11	13.1
12	DSV19EC013	HARSHITHA M	18	5	12	18	2	3	6	6	2	2	2	2	2	27	5.4	5.4	5.4	5.4	5.4	22.4	9.4	10.4	13.4	19.4	13.4
13	DSV19EC014	K S SANDHANU	7	5	11	7	3	3	5	6	2	2	2	2	2	36	7.2	7.2	7.2	7.2	7.2	14.2	10.2	9.2	12.2	19.2	12.8
14	DSV19EC015	K SANEJ	11	24	18	11	12	12	7	8	2	2	2	2	2	31	6.2	6.2	6.2	6.2	6.2	19.2	20.2	20.2	15.2	16.2	15
15	DSV19EC016	LAKSHMIBARI SODI B S	12	12	7	12	6	6	4	5	2	2	2	2	2	28	5.6	5.6	5.6	5.6	5.6	19.6	13.6	13.6	11.6	10.6	16
16	DSV19EC017	MEGHANA B	15	11	14	15	6	5	7	7	2	2	2	2	2	26	5.2	5.2	5.2	5.2	5.2	22.2	13.2	12.2	14.2	14.2	18.5
17	DSV19EC018	MUSKAN ZAHID	8	9	10	8	4	5	5	5	2	2	2	2	2	19	3.8	3.8	3.8	3.8	3.8	13.8	9.8	10.8	10.8	10.8	13.2
18	DSV19EC019	NALINA D K	14	11	14	14	5	5	7	7	2	2	2	2	2	26	5.2	5.2	5.2	5.2	5.2	21.2	12.2	13.2	14.2	14.2	13.1
19	DSV19EC020	PREETHIKA A S	14	12	7	14	6	6	4	3	2	2	2	2	2	19	3.8	3.8	3.8	3.8	3.8	18.8	11.8	11.8	9.8	8.8	13.7
20	DSV19EC021	PRIVADARSHINI M	9	6	10	9	3	3	5	5	2	2	2	2	2	27	5.4	5.4	5.4	5.4	5.4	16.4	10.4	10.4	12.4	12.4	12.4
21	DSV19EC022	REHAMAN EBAN H S	6	11	11	6	5	5	5	5	2	2	2	2	2	17	3.4	3.4	3.4	3.4	3.4	14.4	10.4	11.4	10.4	11.4	12
22	DSV19EC023	R KARTHIK	10	8	13	10	5	4	7	6	2	2	2	2	2	10	2	2	2	2	2	14	9	8	11	10	11
23	DSV19EC025	SAHIL SALIM	8	8	8	8	3	3	4	5	2	2	2	2	2	26	5.2	5.2	5.2	5.2	5.2	15.2	10.2	10.2	11.2	12.2	11.1
24	DSV19EC027	SANYA KATHIMA	14	12	11	14	0	13	5	6	2	2	2	2	2	26	5.2	5.2	5.2	5.2	5.2	21.2	7.2	19.2	12.2	13.2	13.2
25	DSV19EC028	SHARANARAJMAR	13	10	9	13	5	5	4	5	2	2	2	2	2	12	2.4	2.4	2.4	2.4	2.4	17.4	9.4	8.4	8.4	9.4	12.7
26	DSV19EC029	SURESH A N	0	12	11	0	0	12	5	5	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	6.2	6.2	18.2	11.2	12.2	10.8
27	DSV19EC030	T ABHINAVH C	14	12	4	14	6	6	2	2	2	2	2	2	2	20	4	4	4	4	4	20	12	12	8	8	11.4
28	DSV19EC031	YOGESH K	0	12	14	0	12	0	7	7	2	2	2	2	2	17	3.4	3.4	3.4	3.4	3.4	5.4	17.4	5.4	12.4	12.4	11.3
29	DSV19EC035	ZINNET ABDOH YOUS	10	23	18	10	11	12	11	8	2	2	2	2	2	23	4.6	4.6	4.6	4.6	4.6	16.6	17.6	18.6	17.6	14.6	13.8
30	DSV19EC036	ARUN S B	14	11	14	14	5	6	7	7	2	2	2	2	2	19	3.8	3.8	3.8	3.8	3.8	19.8	10.8	11.8	12.8	12.8	15.3
31	DSV19EC040	RINDU T S	14	12	7	14	6	6	4	5	2	2	2	2	2	24	4.8	4.8	4.8	4.8	4.8	20.8	13.8	13.8	10.8	9.8	13.5
32	DSV19EC045	DANARHISH K R	8	6	10	8	3	3	5	5	2	2	2	2	2	26	5.2	5.2	5.2	5.2	5.2	18.2	10.2	10.2	12.2	12.2	12.8
33	DSV19EC048	LAVANYA K E	8	11	11	8	5	6	5	5	2	2	2	2	2	17	3.4	3.4	3.4	3.4	3.4	14.4	10.4	11.4	10.4	11.4	11.9
34	DSV19EC050	M S BHAYASHANKA	10	9	13	10	5	4	7	6	2	2	2	2	2	22	4.4	4.4	4.4	4.4	4.4	16.4	11.4	10.4	13.4	12.4	12.2
																						17.68295	12.56471	12.77059	13.77059	12.3	
																						50.24%	55.73%	42.31%	58.60%	53.00%	

Nayan
COURSE INSTRUCTOR

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Nandan Kumar
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COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	Mrs. Grace Hemalatha/Mr. Prathap B N											
BRANCH	ECE	ACADEMIC YEAR					2020-21					
COURSE	B.E	SEMESTER					V					
SUBJECT	TECHNOLOGICAL INNOVATION MANAGEMENT & ENTREPRENEURSHIP					SUBJECT CODE			18ES51			
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1											3	
CO2											3	
CO3								2	2		3	
CO4											3	
CO5											3	
AVERAGE	---	---	---	---	---	---	---	2	2	---	3	
OVERALL MAPPING OF SUBJECT												2.33

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	79.50											2.38	
CO2	79.93											2.40	
CO3	74.81								1.50	1.50		2.24	
CO4	71.04											2.16	
CO5	53.87											1.62	
AVERAGE	71.83								1.50	1.50		2.16	
FINAL ATTAINMENT LEVEL													1.72


FACULTY


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**DEPARTMENT OF ECE**

SUBJECT	SUBJECT CODE	18ES51
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COURSE OUTCOME

- CO1.** 1. Understand the fundamental concepts of Management and Entrepreneurship and opportunities in order to setup a business
- CO2.** Identify the various organizations' architecture
- CO3** Describe the functions of Managers, Entrepreneurs and their social responsibilities.
- CO4.** Understand the components in developing a business plan
- CO5.** Recognize the various sources of funding and institutions supporting entrepreneurs

PROGRAM OUTCOMES

- P01** Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.
- P02** Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- P03** Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.
- P04** 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.
- P05** Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex engineering activities.
- P06** The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.
- P07** 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.
- P08** Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- P09** Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- P010** Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.
- P011** 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.
- P012** Life-long learning: A recognition of the need for, and an ability to engage in, to resolve contemporary issues and acquire lifelong learning.

5th Semester
Technological Innovation Management And Entrepreneurship

AY - 2020-21

SEM: /U	IA TEST 1			IA TEST 2			IA TEST 3			Assignment and Seminar					SEE					Total					% of Individual CO					
USN	CO1	CO2	TOTAL	CO3	CO4	TOTAL	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	
	20	20	40	20	20	40	15	15	30	2	2	2	2	2	12	12	12	12	12	34	34	34	49	29						
15V17EC012	18	20	38	0	0	0	13	8	21	2	2	2	2	2	6	6	6	6	6	26	28	8	21	16	76.47	82.35	23.53	42.86	55.17	
15V18EC002	20	20	40	20	20	40	12	12	24	2	2	2	2	2	6	6	6	6	6	28	28	28	40	20	82.35	82.35	82.35	81.63	68.97	
15V18EC004	20	18	38	19	19	38	8	7	15	2	2	2	2	2	5.4	5.4	5.4	5.4	5.4	27	25	26	34	14	80.59	74.71	77.65	70.2	49.66	
15V18EC005	19	20	39	20	20	40	7	8	15	2	2	2	2	2	5.8	5.8	5.8	5.8	5.8	27	28	28	35	16	78.82	81.76	81.76	71.02	54.48	
15V18EC006	20	20	40	20	20	40	12	13	25	2	2	2	2	2	5.2	5.2	5.2	5.2	5.2	27	27	27	39	20	80	80	80	80	69.66	
15V18EC007	20	20	40	20	20	40	13	7	20	2	2	2	2	2	7.4	7.4	7.4	7.4	7.4	29	29	29	42	16	86.47	86.47	86.47	86.53	56.55	
15V18EC008	20	18	38	18	20	38	10	15	25	2	2	2	2	2	7.2	7.2	7.2	7.2	7.2	29	27	27	39	24	85.88	80	80	80	83.45	
15V18EC009	19	19	38	17	19	36	9	5	14	2	2	2	2	2	6.4	6.4	6.4	6.4	6.4	27	27	25	36	13	80.59	80.59	74.71	74.29	46.21	
15V18EC010	20	20	40	20	18	38	9	7	16	2	2	2	2	2	4.8	4.8	4.8	4.8	4.8	27	27	27	34	14	78.82	78.82	78.82	68.98	47.59	
15V18EC011	18	20	38	20	18	38	12	4	16	2	2	2	2	2	6.4	6.4	6.4	6.4	6.4	26	28	28	38	12	77.65	83.53	83.53	78.37	42.76	
15V18EC012	19	19	38	18	18	36	7	5	12	2	2	2	2	2	5.2	5.2	5.2	5.2	5.2	26	26	25	32	12	77.06	77.06	74.12	65.71	42.07	
15V18EC013	20	20	40	20	20	40	15	10	25	2	2	2	2	2	7	7	7	7	7	29	29	29	44	19	85.29	85.29	85.29	89.8	65.52	
15V18EC014	19	20	39	19	19	38	12	7	19	2	2	2	2	2	7.6	7.6	7.6	7.6	7.6	29	30	29	41	17	84.12	87.06	84.12	82.86	57.24	
15V18EC016	20	18	38	19	19	38	8	7	15	2	2	2	2	2	5.2	5.2	5.2	5.2	5.2	27	25	26	34	14	80	74.12	77.06	69.8	48.97	
15V18EC018	20	18	38	20	16	36	9	6	15	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	26	24	26	31	12	77.06	71.18	77.06	63.67	42.07	
15V18EC019	19	20	39	19	20	39	12	13	25	2	2	2	2	2	5.2	5.2	5.2	5.2	5.2	26	27	26	39	20	77.06	80	77.06	80	69.66	
15V18EC020	18	20	38	19	19	38	13	7	20	2	2	2	2	2	8.4	8.4	8.4	8.4	8.4	28	30	29	42	17	83.53	89.41	86.47	86.53	60	
15V18EC021	20	19	39	20	19	39	8	12	20	2	2	2	2	2	5.6	5.6	5.6	5.6	5.6	28	27	28	35	20	81.18	78.24	81.18	70.61	67.59	
15V18EC022	20	18	38	0	0	0	9	7	16	2	2	2	2	2	5	5	5	5	5	27	25	7	16	14	79.41	73.53	20.59	32.65	48.28	
15V18EC023	18	20	38	18	20	38	5	4	9	2	2	2	2	2	6.2	6.2	6.2	6.2	6.2	26	28	26	33	12	77.06	82.94	77.06	67.76	42.07	
15V18EC024	19	20	39	18	20	38	6	14	20	2	2	2	2	2	8.4	8.4	8.4	8.4	8.4	29	30	28	36	24	86.47	89.41	83.53	74.29	84.14	
15V19EC400	16	20	36	17	19	36	9	4	13	2	2	2	2	2	4.8	4.8	4.8	4.8	4.8	23	27	24	35	11	67.06	78.82	70	71.02	37.24	
15V19EC401	20	19	39	18	20	38	8	8	16	2	2	2	2	2	5.6	5.6	5.6	5.6	5.6	28	27	26	36	16	81.18	78.24	75.29	72.65	53.79	
15V19EC402	19	20	39	20	18	38	7	2	9	2	2	2	2	2	4.6	4.6	4.6	4.6	4.6	26	27	27	32	9	75.29	78.24	78.24	64.49	29.66	
15V19EC403	20	18	38	20	19	39	6	4	10	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	26	24	26	31	10	77.06	71.18	77.06	63.67	35.17	
15V19EC404	20	19	39	19	19	38	5	10	15	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	26	25	25	30	16	77.06	74.12	74.12	61.63	55.86	
15V19EC405	18	20	38	18	20	38	6	5	11	2	2	2	2	2	4.8	4.8	4.8	4.8	4.8	25	27	25	33	12	72.94	78.82	72.94	66.94	40.69	
Total	519	523	1042	476	479	955	250	211	461	54	54	54	54	54	156.8	156.8	156.8	156.8	156.8	729.8	733.8	686.8	939.8	421.8	2146	2158	2020	1918	1454	
No. of students	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
Average	19.22	19.37	38.59	17.63	17.74	35.37	9.259	7.815	17.07	2	2	2	2	2	5.807	5.807	5.807	5.807	5.807	27.03	27.18	25.44	34.81	15.62	79.5	79.93	74.81	71.04	53.87	

P. D. D.

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**DEPARTMENT OF ELECTRONICS & COMMUNICATION**

SEM: V

ACADEMIC YEAR:2020-2021

SUBJECT	PRINCIPLES OF COMMUNICATION SYSTEMS	SUBJECT CODE	18EC53
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COURSE OUTCOME

- CO1.** Design of simple system for generating and demodulating AM/DSBSC/SSB/VSB and to determine their performance in time & frequency.
- CO2.** Understanding the concepts in angle modulation for design of communication system & to design simple system for generating and demodulating FM signals
- CO3.** Learn the concepts of random process and various types of noise, to characterize the influence of channel on analog modulated signals
- CO4.** Analyze sampling techniques Time division multiplexing and pulse modulation
- CO5.** Analyze and demonstrate the process of the use of quantization and digital formatting in multipliers, vocoders, video transmission

PROGRAM OUTCOMES

- P01** Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.
- P02** Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- P03** Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.
- P04** 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.
- P05** Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex engineering activities.
- P06** The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.
- P07** 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.
- P08** Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- P09** Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- P010** Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.
- P011** 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.
- P012** 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				2020-2021				
COURSE	B.E	SEMESTER			V	SECTION			A			
SUBJECT	PRINCIPLES OF COMMUNICATION STSTEMS						SUBJECT CODE			18EC53		
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	2	3		2							
CO2	2	2	3									
CO3	2	2										
CO4	2	2										
CO5	2	2			2							
AVERAGE	2	2	3		2							
OVERALL MAPPING OF SUBJECT												2.25

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	75.09	1.50	1.50			1.50							
CO2	78.62	1.57	1.57										
CO3	70.19	1.40	1.40										
CO4	55.49	1.10	1.10										
CO5	53.63	1.07	1.07			1.07							
AVERAGE	66.60	1.32	1.32			1.28							
FINAL ATTAINMENT LEVEL													1.30


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Academic year	SEM-I	SEM-I			SEM-II			27	Semester	Description of communication system	Subject Code	THEORY										Practical			Total	SEM								
		IA TEST (40%)			IA TEST (40%)							ASSIGNMENT (10%)			SEE (30%)			Total (70%) ATTAINMENT				%												
		CO1	CO2	CO3	CO4	CO5	CO6					CO7	CO8	CO9	CO10	CO11	CO12	CO13	CO14	CO15	CO16	CO17	CO18	CO19			CO20	CO21	CO22	CO23	CO24			
15V17EC012	10	14	24	0	0	0	0	10	13	2	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	36.2	20.2	6.2	9.2	18.2	47.6470588	37.4074074	18.2352941	27.05882353	47.64705882	23	4.2		
15V18EC000	15	15	30	20	20	40	10	15	25	2	2	2	2	2	2	6.6	6.6	6.6	6.6	6.6	23.6	43.6	28.6	18.6	27.6	68.81176471	80.74074074	84.1176471	54.70588235	81.17647059	33	6.6		
15V18EC004	10	14	24	0	0	0	10	2	12	2	2	2	2	2	2	5.4	5.4	5.4	5.4	5.4	17.4	21.4	7.4	17.4	9.4	51.17647059	38.62962963	23.7647059	51.17647059	27.64705882	27	5.4		
15V18EC005	20	20	40	20	20	40	10	15	25	2	2	2	2	2	2	5.2	5.2	5.2	5.2	5.2	17.2	47.2	27.2	17.2	23.2	80	87.40740741	80	50.58823529	68.23529412	26	5.2		
15V18EC006	20	20	40	19	20	39	20	12	32	2	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	26.2	45.2	26.2	26.2	18.2	77.05882353	83.7037037	77.05882353	37.05882353	53.52941176	21	4.2		
15V18EC007	20	20	40	19	20	39	20	12	32	2	2	2	2	2	2	5.2	5.2	5.2	5.2	5.2	27.2	46.2	27.2	27.2	27.2	80	85.55555556	80	80	80	26	5.2		
15V18EC008	20	20	40	19	20	39	20	6	26	2	2	2	2	2	2	5.4	5.4	5.4	5.4	5.4	17.4	46.4	17.4	17.4	13.4	60.58823529	80.52525253	60.5882353	80.58823529	39.41176471	27	5.4		
15V18EC009	20	20	40	20	20	40	13	20	33	2	2	2	2	2	2	7.6	7.6	7.6	7.6	7.6	29.6	49.6	29.6	22.6	29.6	87.05882353	91.85185185	87.05882353	48.47058824	87.05882353	18	7.6		
15V18EC010	10	14	24	0	0	0	10	3	13	2	2	2	2	2	2	4.4	4.4	4.4	4.4	4.4	16.4	20.4	6.4	16.4	9.4	48.23529412	37.77777778	18.8235294	48.23529412	27.64705882	22	4.4		
15V18EC011	20	20	40	20	14	34	10	10	20	2	2	2	2	2	2	5.4	5.4	5.4	5.4	5.4	27.4	47.4	21.4	17.4	17.4	60.58823529	67.77777778	62.9411765	51.17647059	51.17647059	27	5.4		
15V18EC012	20	20	40	20	20	40	10	7	17	2	2	2	2	2	2	7	7	7	7	7	29	49	29	19	16	85.29411765	90.74074074	85.2941176	55.88235294	47.05882353	35	7		
15V18EC013	20	20	40	20	20	40	20	20	40	2	2	2	2	2	2	10.6	10.6	10.6	10.6	10.6	32.6	52.6	32.6	32.6	32.6	89.88235294	97.40740741	95.8823529	95.88235294	89.88235294	53	10.6		
15V18EC014	20	18	36	16	20	36	13	14	27	2	2	2	2	2	2	6.2	6.2	6.2	6.2	6.2	18.2	42.2	28.2	21.2	22.2	82.94117647	78.14814815	82.9411765	62.35294118	60.29411765	31	6.2		
15V18EC016	20	20	40	20	20	40	9	9	18	2	2	2	2	2	2	7.2	7.2	7.2	7.2	7.2	29.2	49.2	29.2	18.2	18.2	85.88235294	81.11111111	85.8823529	52.52941176	55.52941176	30	7.2		
15V18EC018	20	20	40	20	19	39	15	17	32	2	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	26.2	46.2	26.2	23.2	23.2	77.05882353	85.55555556	74.1176471	62.35294118	48.23529412	21	4.2		
15V18EC019	20	18	36	20	18	36	20	20	40	2	2	2	2	2	2	5.8	5.8	5.8	5.8	5.8	27.8	45.8	25.8	27.8	27.8	81.76470588	84.81481481	75.8823529	81.76470588	81.76470588	29	5.8		
15V18EC020	20	18	36	20	18	36	8	5	13	2	2	2	2	2	2	5.8	5.8	5.8	5.8	5.8	27.8	45.8	25.8	12.8	12.8	82.17647059	84.44444444	75.2941176	45.88235294	37.05882353	28	5.8		
15V18EC021	20	18	36	20	18	36	15	14	29	2	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	26.2	44.2	24.2	21.2	25.2	77.05882353	81.85185185	71.1764706	62.35294118	59.41176471	21	4.2		
15V18EC022	10	14	24	0	0	0	10	7	17	2	2	2	2	2	2	5.2	5.2	5.2	5.2	5.2	17.2	21.2	7.2	17.2	14.2	50.58823529	39.25252526	21.1764706	50.58823529	43.76470588	20	5.2		
15V18EC023	20	18	36	18	20	38	10	5	15	2	2	2	2	2	2	5.4	5.4	5.4	5.4	5.4	17.4	43.4	27.4	17.4	12.4	80.58823529	80.37037037	80.5882353	51.17647059	36.47058824	17	5.4		
15V18EC024	19	20	39	18	20	38	10	10	20	2	2	2	2	2	2	7.2	7.2	7.2	7.2	7.2	28.2	47.2	28.2	19.2	19.2	82.94117647	87.40740741	89.8823529	36.47058824	36.47058824	16	7.2		
15V18EC400	18	20	38	18	19	37	5	4	9	2	2	2	2	2	2	5.4	5.4	5.4	5.4	5.4	26.4	45.4	26.4	12.4	11.4	77.64705882	84.67407407	77.6470588	36.47058824	33.52941176	17	5.4		
15V18EC401	20	20	40	20	20	40	15	15	30	2	2	2	2	2	2	4.6	4.6	4.6	4.6	4.6	29.6	48.6	28.6	21.6	21.6	74.23529412	89.2961963	78.2352941	83.52941176	83.52941176	23	4.6		
15V18EC402	18	20	38	20	18	36	7	7	14	2	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	24.2	48.2	24.2	8.2	8.2	71.17647059	85.55555556	71.1764706	24.11764706	24.11764706	21	4.2		
15V18EC403	20	20	40	20	20	40	3	8	13	2	2	2	2	2	2	3.2	3.2	3.2	3.2	3.2	15.2	45.2	25.2	10.2	13.2	34.11764706	83.7037037	74.1176471	30	38.82352941	16	3.2		
15V18EC404	18	20	38	20	18	36	5	6	11	2	2	2	2	2	2	6.6	6.6	6.6	6.6	6.6	24.6	46.6	24.6	11.6	12.6	73.35294118	86.2962963	73.3529412	34.11764706	37.05882353	23	6.6		
15V18EC405	18	20	38	18	20	36	9	9	18	2	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	24.2	42.2	26.2	15.2	15.2	71.17647059	78.14814815	77.05882353	44.70588235	44.70588235	21	4.2		
																											75.09823529	78.05825289	70.1962784	55.49019608	53.63834423		5	
																												25.83477829	28.32519543	23.6806048	18.71058422	18.09486311	27.8813	48
																																		45.8025

FACULTY

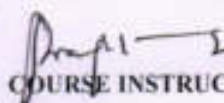
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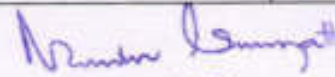
**Department of Electronics & Communication Engineering****Course Outcomes and CO-PO- Articulation Matrix****2017 Scheme****ACADEMIC YEAR 2020-21****Semester-VII**

Subject: Microwave & Antenna										Subject Code: 17EC71			
Faculty Name : Prof. Pradeepkumar S S													
Course Outcomes													
CO1	Describe the microwave properties and its transmission media												
CO2	Describe microwave devices for several application												
CO3	Understand the basics of antenna theory												
CO4	Select antennas for specific applications												
CO5	Can able to study different types of Antenna												
CO-PO Mapping													
COs	Pos												
	1	2	3	4	5	6	7	8	9	10	11	12	
CO1	3	2											
CO2	3	1	2										
CO3	3	2	3										
CO4	3	2	2										
CO5	3	1	2										
Average	1.6	1.6	1.8										

ATTAINMENT TABLE													
COs	AVG	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	71.12%	2.13	1.42										
CO2	69.64%	2.08	0.69	1.39									
CO3	38.60%	1.15	0.77	1.15									
CO4	40.60%	1.21	0.81	0.81									
CO5	35.34 %	1.06	0.35	0.70									
AVERAGE		1.526	0.80	1.01									
TOTAL ATTAINMENT													1.112


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Department of Electronics & Communication Engg
Course Outcomes and CO-PO-PSO Articulation Matrix

2018 Scheme ACADEMIC YEAR- 2020-21

Semester-VII

Subject: DIGITAL IMAGE PROCESSING												Code: 17EC72	
FACULTY NAME : PROF.RAGHAVENDRA D													
CO1	Describe the fundamentals of digital image processing.												
CO2	Understand image formation and the role human Visual system plays in perception of gray and color image data												
CO3	Apply image processing techniques in both the spatial and frequency (Fourier) domains												
CO4	Design and evaluate image analysis techniques												
CO5	Conduct independent study and analysis of Image Enhancement and restoration techniques.												
COs	Pos												
	1	2	3	4	5	6	7	8	9	10	11	12	
CO1	3	3	2		1								
CO2	3	2	2		1								
CO3	3	2			1								
CO4	3	2	2		1								
CO5	2		2										
Average	2.8	1.8	2		1								


ATTAINMENT TABLE													
COs	AVG	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	62.95 %	1.88	1.88	1.25		0.62							
CO2	50.49 %	1.51	1.01	1.01		0.50							
CO3	27.26 %	0.81	0.54			0.27							
CO4	25.88 %	0.77	0.51	0.51		0.25							
CO5	19.77 %	0.59		0.39		0.19							
AVERAGE		1.11	0.98	0.79		0.36							
TOTAL ATTAINMENT													0.81


 COURSE INSTRUCTOR

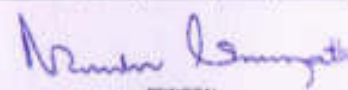

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Roll No.	USR	Name	T1			T2				T3		ASSIGNMENT 1/2					SIS	SEE MARKS					TOTAL AVERAGE					
			T1	T2	T3	CO1-20	CO2-20	CO3-20	CO4-20	CO5-20	CO1-2	CO2-2	CO3-2	CO4-2	CO5-2	CO1-18		CO2-18	CO3-18	CO4-18	CO5-18	CO1-16		CO2-16	CO3-16	CO4-16	CO5-16	
1	NITHIN KUMAR	15V18EC025	40	38	32	20	20	19	10	18	16	2	2	2	2	2	42	4.6	4.6	4.6	4.6	4.6	26.6	25.6	25.6	24.6	22.6	25
2	SUNITHA Y K	15V18EC045	32	36	34	16	16	18	18	17	17	2	2	2	2	2	28	5.6	5.6	5.6	5.6	5.6	23.6	25.6	25.6	26.6	24.6	25.2
3	AFRA PATHOMA	15V17EC001	35	30	36	17	18	15	15	18	18	2	2	2	2	2	24	6.3	6.3	6.3	6.3	6.3	26.3	25.3	25.3	30.3	26.3	27.5
4	ASHWINI V	15V17EC002	34	32	34	17	17	16	16	17	17	2	2	2	2	2	36	5.2	5.2	5.2	5.2	5.2	24.2	23.2	23.2	26.2	24.2	24.2
5	DANIEL S	15V17EC003	40	38	38	20	20	20	18	19	19	2	2	2	2	2	42	6	6	6	6	6	28	28	26	29	27	27.6
6	GEETHA M R	15V17EC004	37	36	36	14	23	18	18	18	18	2	2	2	2	2	54	6.2	6.2	6.2	6.2	6.2	31.2	26.2	26.2	28.2	26.2	27.8
7	JITHENDRA H	15V17EC005	33	34	34	20	13	17	17	17	17	2	2	2	2	2	42	5.4	5.4	5.4	5.4	5.4	20.4	24.4	24.4	26.4	24.4	24
8	MID TAJ HUSSAIN	15V17EC006	38	40	40	19	19	20	20	20	20	2	2	2	2	2	41	5.4	5.4	5.4	5.4	5.4	26.4	27.4	27.4	28.4	27.4	27.6
9	NIDA NAWAZ	15V17EC007	40	38	38	20	20	19	19	19	19	2	2	2	2	2	50	7	7	7	7	7	29	28	28	30	28	28.6
10	NISHA H	15V17EC008	36	38	36	19	19	14	22	12	22	2	2	2	2	2	44	5.8	5.8	5.8	5.8	5.8	26.8	21.8	29.8	21.8	29.8	26
11	NISHATH NAWAZ	15V17EC009	40	34	32	20	20	16	16	16	16	2	2	2	2	2	42	9.4	9.4	9.4	9.4	9.4	31.4	27.4	27.4	29.4	27.4	28.6
12	REKHA K N	15V17EC013	37	36	34	14	23	17	17	24	10	2	2	2	2	2	39	4.4	4.4	4.4	4.4	4.4	29.4	23.4	23.4	32.4	26.4	25
13	SAHANA G R	15V17EC014	39	38	34	19	20	14	23	10	24	2	2	2	2	2	34	7.6	7.6	7.6	7.6	7.6	29.6	23.6	32.6	21.6	28.6	28.2
14	SAYEEDUNNISA	15V17EC015	36	34	32	18	18	16	16	22	10	2	2	2	2	2	32	4.4	4.4	4.4	4.4	4.4	24.4	22.4	22.4	30.4	26.4	23.2
15	HEMA K P	15V18EC401	39	36	32	20	19	19	19	22	10	2	2	2	2	2	42	11	11	11	11	11	32	32	32	37	29	31.2
16	LOKESHA G H	15V18EC402	36	18	30	18	18	15	15	15	15	2	2	2	2	2	34	5.6	5.6	5.6	5.6	5.6	25.6	22.6	22.6	24.6	22.6	23.6
																							27.30625	25.4313	14.348	15.445	13.8586	
																							71.80%	66.92%	38.28%	40.64%	36.47%	


SUB-EC FACULTY


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Department of Electronics & Communication Engg
Course Outcomes and CQ-PO-PSO Articulation Matrix

2017 Scheme ACADEMIC YEAR- 2020-21

Semester-VII

Subject: Power Electronics		Code: 17EC73											
Faculty Name : Prof.Nayana M S													
CO1	Describe the characteristics of different power devices and identify the various applications associated with it												
CO2	Illustrate the working of power circuit as DC-DC converter												
CO3	Illustrate the operation of inverter circuit and static switches												
CO4	Determine the output response of a thyristor circuit with various triggering options.												
CO5	Determine the response of controlled rectifier with rectifier with resistive and inductive loads.												
	Pos												
COs	1	2	3	4	5	6	7	8	9	10	11	12	
CO1	3	3											
CO2	3	3	2										
CO3	3	3	2										
CO4	3												
CO5	2												
Average	2.8	3	2										

COs	AVG	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	69.38%	2.08	2.08										
CO2	64.44%	1.93	1.93	1.22									
CO3	36.91%	1.10	1.10	0.73									
CO4	39.27%	1.17											
CO5	35.10%	0.72											
AVERAGE		1.4	1.70	0.975									
TOTAL ATTAINMENT													1.35

Nayana
 COURSE INSTRUCTOR

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Roll No	URN	Name	T/ECTS		2020-2021 BOD					S/W (M) SEM		T/ Prof/Essays M's					S/E	S/E MARKS					Final					TOTAL AVERAGE
			T1	T2	T3	CO1-20	CO2-20	CO3-20	CO4-20	CO5-20	CO1-21	CO2-21	CO3-21	CO4-21	CO5-21	CO1-19		CO2-19	CO3-19	CO4-19	CO5-19	CO1-20	CO2-20	CO3-20	CO4-20	CO5-20		
1	NITHIN KUMAR C	15V18EC025	40	38	32	20	20	19	19	16	16	2	2	2	2	2	33	6.6	6.6	6.6	6.6	6.6	28.6	27.8	27.6	26.6	24.6	27
2	SUNITHA Y K	15V18EC045	32	36	34	18	18	18	18	17	17	2	2	2	2	2	28	4.4	4.4	4.4	4.4	4.4	22.4	24.4	24.4	25.4	23.4	24
3	AFFRA FATHIMA	15V17EC001	35	30	36	17	18	15	15	18	18	2	2	2	2	2	24	4.8	4.8	4.8	4.8	4.8	24.8	21.8	21.8	26.8	24.8	24
4	ASHWINIV	15V17EC002	34	32	34	17	17	16	16	17	17	2	2	2	2	2	22	4.4	4.4	4.4	4.4	4.4	23.4	22.4	22.4	25.4	23.4	23.4
5	DANIEL S	15V17EC003	40	38	38	20	20	20	18	16	19	2	2	2	2	2	33	6.6	6.6	6.6	6.6	6.6	28.6	28.8	28.6	29.6	27.6	28.1
6	GEETHA M E	15V17EC004	37	36	36	14	23	18	18	18	18	2	2	2	2	2	30	6	6	6	6	6	31	26	26	28	26	27.4
7	ITHENDRA H	15V17EC005	33	34	34	20	13	17	17	17	17	2	2	2	2	2	26	5.2	5.2	5.2	5.2	5.2	20.2	24.2	24.2	26.2	24.2	23.8
8	MD TAJ HUSSAIN	15V17EC006	36	40	40	19	19	20	20	20	20	2	2	2	2	2	23	4.6	4.6	4.6	4.6	4.6	25.6	26.6	26.6	28.6	26.6	26.8
9	NIDA NAWAZ	15V17EC007	40	38	38	20	20	19	19	19	19	2	2	2	2	2	23	4.6	4.6	4.6	4.6	4.6	26.6	25.6	25.6	27.6	25.6	26.2
10	NISHA H	15V17EC008	38	38	36	19	19	14	22	12	22	2	2	2	2	2	33	6.6	6.6	6.6	6.6	6.6	27.6	22.6	30.6	22.6	30.6	26.8
11	NISHATH NAWA	15V17EC009	40	34	32	20	20	16	16	16	16	2	2	2	2	2	29	5.8	5.8	5.8	5.8	5.8	27.8	23.8	23.8	25.8	23.8	25
12	REKHA K N	15V17EC015	37	36	34	14	23	17	17	24	10	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	29.2	23.2	23.2	32.2	16.2	24.8
13	SAHANA G E	15V17EC014	39	38	34	19	20	14	23	10	24	2	2	2	2	2	33	6.6	6.6	6.6	6.6	6.6	28.6	22.6	31.6	20.6	32.6	27.2
14	SAYEDUNNISA	15V17EC013	36	34	32	18	18	16	16	22	10	2	2	2	2	2	24	4.8	4.8	4.8	4.8	4.8	24.8	22.8	22.8	30.8	16.8	23.6
15	HEMA K P	15V18EC401	39	38	32	20	19	19	19	22	10	2	2	2	2	2	34	6.8	6.8	6.8	6.8	6.8	27.8	27.8	27.8	32.8	18.8	27
16	LOKESHA G H	15V18EC402	36	18	30	18	18	15	15	15	15	2	2	2	2	2	24	4.8	4.8	4.8	4.8	4.8	24.8	21.8	21.8	23.8	21.8	22.8
																							26.3625	24.4875	14.0276	14.9241	13.3379	
																							69.38%	64.44%	36.91%	39.27%	35.10%	

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SUBJECT FACULTY

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Department of Electronics & Communication Engg
Course Outcomes and CO-PO-PSO Articulation Matrix

2017 Scheme ACADEMIC YEAR-2020-21

Semester-VII

Subject: REAL TIME SYSTEMS		Code: 17EC743											
Faculty Name : Prof.Raghavendra D													
CO1	Understand the concepts of computer control and the suitable computer hardware requirements for real time applications.												
CO2	Describe the operating systems concepts and techniques required for real time systems.												
CO3	Develop the software algorithms using suitable languages to meet real time applications.												
CO4	Apply suitable methodologies to design and develop real time systems.												
CO5	Explain the fundamentals of real time systems and its classifications.												
COs	Pos												
	1	2	3	4	5	6	7	8	9	10	11	12	
CO1	3	3											
CO2	3	2											
CO3	3	2											
CO4	3	2											
CO5	2												
Average	2.8	1.8											

ATTAINMENT TABLE													
COs	AVG	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	71.86%	2.15	2.15										
CO2	66.92%	2.00	1.33										
CO3	38.28%	1.14	0.76										
CO4	40.64%	1.21	0.81										
CO5	36.47%	1.09											
AVERAGE		1.51	1.26										
TOTAL ATTAINMENT												1.38	


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**DEPARTMENT OF ELECTRONICS & COMMUNICATION**

SEM: VII

ACADEMIC YEAR:2020-2021

SUBJECT	SATELLITE COMMUNICATION	SUBJECT CODE	17EC755
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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.** Compute the satellite link parameters under various propagation conditions with the illustration of multiple access techniques
- CO4** Describe the communication satellites with the focus on national satellite system
- 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 SHARIEF											
BRANCH	ECE			ACADEMIC YEAR				2020-2021				
COURSE	B.E	SEMESTER		VII	SECTION			A				
SUBJECT	SATELLITE COMMUNICATION				SUBJECT CODE			ITEC755				
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	2										
CO2	2	2										
CO3	2	2										
CO4	2	2	1									
CO5	2	2	1									
AVERAGE	2	2	1									
OVERALL MAPPING OF SUBJECT											1.66	

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	89.08	1.78	1.78										
CO2	92.66	1.85	1.85										
CO3	92.66	1.85	1.85										
CO4	88.34	1.66	1.66	0.88									
CO5	86.13	1.72	1.72	0.86									
AVERAGE	89.77	1.77	1.77	0.87									
FINAL ATTAINMENT LEVEL												1.47	


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**SHRIDEVI INSTITUTE OF ENGINEERING
AND TECHNOLOGY, TUMKUR**

DEPARTMENT OF ECE

CO-PO ATTAINMENT

ACADEMIC YEAR

2020-21

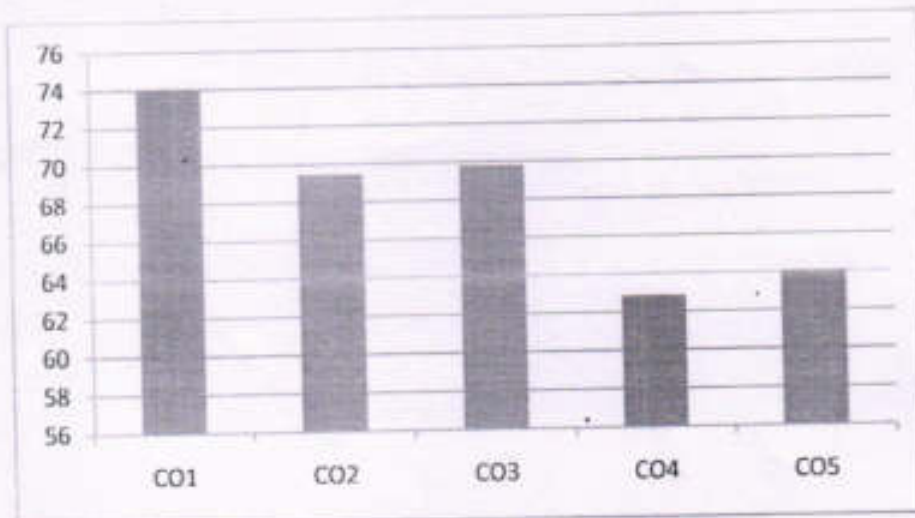
EVEN SEM

SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY
SIRA ROAD, TUMKUR- 572 106
DEPARTMENT OF MATHEMATICS
(COMMON TO ALL BRANCHES)



COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY			
FACULTY NAME	Dr. CHETANA C/Prof. RASHMI S B			
BRANCH	ECE	ACADEMIC YEAR		2020-2021
COURSE	B.E	SEMESTER	IV	SECTION -
SUBJECT	ENGINEERING STATISTICS AND LINEAR ALGEBRA		SUBJECT CODE	18MAT41
CO & PO MAPPING				

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	74	1.48	2.22	0	0	0	0	0	0	0	0	0	0.74
CO2	69	1.39	2.08	0	0	0	0	0	0	0	0	0	0.69
CO3	70	1.40	2.09	0	0	0	0	0	0	0	0	0	0.70
CO4	63	1.26	1.89	0	0	0	0	0	0	0	0	0	0.63
CO5	64	1.28	1.92	0	0	0	0	0	0	0	0	0	0.64
AVG	68	1	2	0	0	0	0	0	0	0	0	0	1
Final attainment level													1.4



Chetana C
HOD

Rashmi S B
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION

SUBJECT	ANALOG CIRCUITS	SUBJECT CODE	18EC42
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COURSE OUTCOME:

Course Outcomes or COs

After studying this course, students will be able to:

- CO1:** Understand the characteristics of BJTs and FETs.
- CO2:** Design and analyze BJT and FET amplifier circuits..
- CO3:** Design sinusoidal and non-sinusoidal oscillators
- CO4 :** Understand the functioning of linear ICs
- CO5:** Design of Linear IC based circuits.

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				2020-21				
COURSE	B.E	SEMESTER			IV	SECTION			ECE			
SUBJECT	ANALOG CIRCUITS					SUBJECT CODE			18EC42			
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
18EC42.1	2	3	3	2	3	2	-	-	-	2	-	3
18EC42.2	3	3	3	2	2	3	-	-	-	3	-	2
18EC42.3	3	3	2	2	3	3				2		3
18EC42.4	2	3	3	2	3	3				3		3
18EC42.5	3	3	3	2	3	3				3		3
Avg. Mapping	2.6	3	2.8	2	2.8	2.8				2.6		2.8
OVERALL MAPPING OF SUBJECT												2.6

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	31.45	0.62	0.94	0.94	0.62	0.94	0.62	-	-	-	0.62	-	0.94
CO2	26.45	0.79	0.79	0.79	0.52	0.52	0.79	-	-	-	0.79	-	0.52
CO3	31.45	0.94	0.94	0.62	0.62	0.94	0.94				0.94		0.94
CO4	31.45	0.94	0.94	0.94	0.62	0.94	0.94				0.94		0.94
CO5	31.45	0.94	0.94	0.94	0.62	0.94	0.94				0.94		0.94
AVERAGE	30.45	0.84	0.91	0.84	0.60	0.85	0.84				0.84		0.85
FINAL ATTAINMENT LEVEL													0.82

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**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

SUBJECT	SIGNALS AND SYSTEM	SUBJECT CODE	18EC45
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COURSE OUTCOME

CO1. Analyze the different types of signals and systems.

CO2. •Determine the linearity, causality, time-invariance and stability properties of continuous and discrete time systems.

CO3. • Represent continuous and discrete systems in time and frequency domain using different transforms Test whether the system is stable.

CO4.• Represent continuous and discrete systems in time and frequency domain using different transforms Test whether the system is stable

CO5. • Explain the signals and 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. PRADEEPKUMAR S S											
BRANCH	ECE			ACADEMIC YEAR				2020-21				
COURSE	B.E	SEMESTER			IV	SECTION			ECE			
SUBJECT	SIGNALS AND SYSTEM					SUBJECT CODE			18EC45			
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	3	1	1								2
CO2	2	3	1	1								2
CO3	1	2	1	1								1
CO4	3	3	1	1								2
CO5	2	3	1	1								3
AVERAGE	2	2.8	1	1								1.4
OVERALL MAPPING OF SUBJECT												1.72

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	69.86	1.15	1.72	1.5848	0.4848								1.15
CO2	75.04	1.25	1.87	1.5848	0.4848								1.25
CO3	64.32	0.534	1.068	1.5848	0.4848								0.534
CO4	73.41	1.76	1.76	1.5848	0.4848								1.17
CO5	72.58	1.08	1.626	1.5848	0.4848								1.626
AVERAGE		1.154	1.608	1.5848	0.4848								1.146
FINAL ATTAINMENT LEVEL													1.195

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Roll No	L204	Name	2020-2021 PAPER					SEM IV REV					PROF. PRACTICE/VAR II					SIGNAL AND SYSTEM					TOTAL AVERAGE											
			T1		T2		T3		T1		T2		T3		T1		T2		T3															
			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	CO1-30		CO2-30	CO3-30	CO4-30	CO5-30							
1	18	18	18	18	9	9	9	9	9	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	24.2	24.2	24.2	24.2	24.2	27								
2	55	55	55	55	16	17	17	16	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	39.2	33.2	33.2	33.2	33.2	21.3									
3	40	40	40	40	20	20	20	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	46.2	38.2	38.2	38.2	38.2	28.8									
4	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	43.2	34.2	34.2	34.2	34.2	23.4									
5	16	16	16	16	8	8	8	8	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	28.2	28.2	28.2	28.2	19.6									
6	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	41.2	33.2	33.2	33.2	33.2	23.2									
7	36	36	36	36	17	18	18	17	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	30.2	30.2	30.2	30.2	21.3									
8	26	26	26	26	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	30.2	30.2	30.2	30.2	21.3									
9	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	43.2	34.2	34.2	34.2	34.2	23									
10	37	37	37	37	18	18	18	18	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	43.2	34.2	34.2	34.2	34.2	23.4									
11	40	40	40	40	20	20	20	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	46.2	38.2	38.2	38.2	38.2	28.4									
12	36	36	36	36	20	19	19	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	45.2	36.2	36.2	36.2	36.2	28.6									
13	35	35	35	35	17	18	18	17	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	41.2	33.2	33.2	33.2	33.2	28.4									
14	40	40	40	40	20	20	20	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	46.2	38.2	38.2	38.2	38.2	28.7									
15	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	39.2	31.2	31.2	31.2	31.2	28.8									
16	37	37	37	37	18	18	18	18	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	43.2	35.2	35.2	35.2	35.2	26									
17	32	32	32	32	16	16	16	16	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	38.2	32.2	32.2	32.2	32.2	28.8									
18	34	34	34	34	17	17	17	17	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	40.2	33.2	33.2	33.2	33.2	26									
19	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	30.2	30.2	30.2	30.2	24.8									
20	34	34	34	34	17	17	17	17	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	40.2	33.2	33.2	33.2	33.2	24.8									
21	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	30.2	30.2	30.2	30.2	24.8									
22	34	34	34	34	17	17	17	17	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	36.2	30.2	30.2	30.2	30.2	21.8									
23	34	34	34	34	17	17	17	17	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	30.2	30.2	30.2	30.2	21.8									
24	36	36	36	36	18	18	18	18	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	44.2	35.2	35.2	35.2	35.2	26									
25	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	30.2	30.2	30.2	30.2	26									
26	32	32	32	32	16	16	16	16	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	38.2	32.2	32.2	32.2	32.2	24.7									
27	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	30.2	30.2	30.2	30.2	24.7									
28	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	30.2	30.2	30.2	30.2	23									
29	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	30.2	30.2	30.2	30.2	23.4									
30	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	30.2	30.2	30.2	30.2	23.4									
31	30	30	30	30	15	15	15	15	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	36.2	31.2	31.2	31.2	31.2	23.8									
32	6	6	6	6	3	3	3	3	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	12.2	9.2	9.2	9.2	9.2	17									
33	30	30	30	30	15	15	15	15	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	36.2	31.2	31.2	31.2	31.2	17									
34	33	33	33	33	16	17	18	18	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	36.2	32.2	33.2	34.2	32.2	23.3									
																				87.0000	21.81176	21.87000	21.87763	21.81176						71.20%	67.34%	67.72%	68.18%	67.34%

Principal
Principal InSTRUCTOR

Principal
Dept of E&C
SIET, Tumkur-6

Principal
Principal

**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

SUBJECT	MICRO CONTROLLER	SUBJECT CODE	18EC46
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COURSE OUTCOME

CO1. Apply Explain the difference between Microprocessors & Microcontrollers, Architecture of 8051 Microcontroller, Interfacing of 8051 to external memory and Instruction set of 8051.

CO2. • Write 8051 Assembly level programs using 8051 instruction set.

Interrupt and C Programme to send & receive serial data using 8051 serial port.

CO3. Interface simple switches, simple LEDs, ADC 0804, LCD and Stepper Motor to 8051 using 8051 I/O ports.

CO4. Write 8051 Assembly language program to generate timings and waveforms using 8051 timers, to send & receive serial data using 8051 serial port and to generate an external interrupt using a switch.

CO5. • Explain the Interrupt system, operation of Timers/Counters and Serial port of 8051.

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.

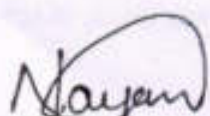
PO11 Project management and finance: An ability to use the modern engineering tools, techniques, skills and management principles to do work as a member and leader in a team, to manage projects in multidisciplinary environments.

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.NAYANA M S											
BRANCH	ECE			ACADEMIC YEAR				2020-21				
COURSE	B.E	SEMESTER		IV	SECTION			ECE				
SUBJECT	MICRO CONTROLLER					SUBJECT CODE			18EC46			
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	3	1	1								2
CO2	2	3	1	1								2
CO3	1	2	1	1								1
CO4	3	3	1	1								2
CO5	2	3	1	1								3
AVERAGE	2	2.8	1	1								1.4
OVERALL MAPPING OF SUBJECT												1.72

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	69.86	1.15	1.72	1.5848	0.4848								1.15
CO2	75.04	1.25	1.87	1.5848	0.4848								1.25
CO3	64.32	0.534	1.068	1.5848	0.4848								0.534
CO4	73.41	1.76	1.76	1.5848	0.4848								1.17
CO5	72.58	1.08	1.626	1.5848	0.4848								1.626
AVERAGE		1.154	1.608	1.5848	0.4848								1.146
FINAL ATTAINMENT LEVEL													1.195


COURSE INSTRUCTOR


HOD
Dept of E&C
SIET, Tumkur-6


PRINCIPAL
SIET, Tumkur-6
PRINCIPAL

Roll No	CEN	Name	SEM I (150)					SEM II (150)					PROF. LAYANA V 3					VOCAL CONTROLLER					TOTAL AVERAGE																						
			T1		T2		T3		T1		T2		T3		T1		T2		T3		T1			T2		T3																			
			T1401	T1402	T1403	CO1-40	CO2-30	CO3-30	CO4-30	CO5-30	CO1-2	CO2-2	CO3-2	CO4-2	CO5-2	80	CO1-10	CO2-10	CO3-10	CO4-10	CO5-10	CO1-50		CO2-50	CO3-50	CO4-50	CO5-50																		
1	SVYTRC01	SHREYAS SHAMAN	30	30	30	30	15	15	15	15	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	21.2	21.2	21.2	21.2	24.2																		
2	SVYTRC02	ADARSH KAVAS	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	20.2	20.2	20.2	20.2	23.8																		
3	SVYTRC03	ADARSH KAVAS	40	40	40	40	20	20	20	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	20.2	20.2	20.2	20.2	26.8																		
4	SVYTRC04	SHIVANNA D	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	21.2	21.2	21.2	21.2	23.8																		
5	SVYTRC05	SHAKRADI D	30	30	30	30	15	15	15	15	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	20.2	20.2	20.2	20.2	23.4																		
6	SVYTRC06	SUBHAN M U	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	20.2	20.2	20.2	20.2	23.8																		
7	SVYTRC07	CHIRUPA VELE P	34	34	34	34	17	17	17	17	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	21.2	21.2	21.2	21.2	24.4																		
8	SVYTRC08	CHANDRA KAMARU CHIPPY	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	21.2	21.2	21.2	21.2	23.8																		
9	SVYTRC09	CHIVA P U	30	30	30	30	15	15	15	15	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	21.2	21.2	21.2	21.2	24.4																		
10	SVYTRC10	SUBHANA V	38	38	38	38	19	19	19	19	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	21.2	21.2	21.2	21.2	25.6																		
11	SVYTRC11	SUBHARIMA V	40	40	40	40	20	20	20	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	21.2	21.2	21.2	21.2	26.8																		
12	SVYTRC12	SARATHI M	38	38	38	38	19	19	19	19	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	21.2	21.2	21.2	21.2	25.6																		
13	SVYTRC13	KUNJANTHONY	34	34	34	34	17	17	17	17	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	21.2	21.2	21.2	21.2	24.4																		
14	SVYTRC14	KANAKAT	38	38	38	38	19	19	19	19	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	20.2	20.2	20.2	20.2	24.4																		
15	SVYTRC15	KANAKANARATHI R	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	21.2	21.2	21.2	21.2	23.8																		
16	SVYTRC16	NEELADRA V	38	38	38	38	19	19	19	19	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	21.2	21.2	21.2	21.2	25.6																		
17	SVYTRC17	NEELAN JAVEL	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	20.2	20.2	20.2	20.2	23.8																		
18	SVYTRC18	NEELIA D E	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	20.2	20.2	20.2	20.2	23.8																		
19	SVYTRC19	NEETHRA A S	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	21.2	21.2	21.2	21.2	23.8																		
20	SVYTRC20	NEELADHARAN M	34	34	34	34	17	17	17	17	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	20.2	20.2	20.2	20.2	24.4																		
21	SVYTRC21	NEELAMATHAN M	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	21.2	21.2	21.2	21.2	23.8																		
22	SVYTRC22	NEELATHI	22	22	22	22	11	11	11	11	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	20.2	20.2	20.2	20.2	23.4																		
23	SVYTRC23	NEELI DALAM	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	21.2	21.2	21.2	21.2	23.8																		
24	SVYTRC24	NEELI FATHIMA	34	34	34	34	17	17	17	17	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	20.2	20.2	20.2	20.2	24.4																		
25	SVYTRC25	NEELANATHAN	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	21.2	21.2	21.2	21.2	23.8																		
26	SVYTRC26	NEELI H	30	30	30	30	15	15	15	15	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	21.2	21.2	21.2	21.2	24.4																		
27	SVYTRC27	NEELANATHAN C	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	20.2	20.2	20.2	20.2	23.8																		
28	SVYTRC28	NEELI K	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	20.2	20.2	20.2	20.2	23.8																		
29	SVYTRC29	NEELI ANUSUBI	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	20.2	20.2	20.2	20.2	23.8																		
30	SVYTRC30	NEELI N E	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	21.2	21.2	21.2	21.2	23.8																		
31	SVYTRC31	NEELI S	38	38	38	38	19	19	19	19	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	21.2	21.2	21.2	21.2	25.6																		
32	SVYTRC32	NEELANATHAN K R	30	30	30	30	15	15	15	15	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	21.2	21.2	21.2	21.2	24.4																		
33	SVYTRC33	NEELANATHAN K R	30	30	30	30	15	15	15	15	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	21.2	21.2	21.2	21.2	24.4																		
34	SVYTRC34	NEELANATHAN K R	34	34	34	34	17	17	17	17	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	21.2	21.2	21.2	21.2	24.4																		
																					37.4329	21.81765	21.81765	21.81765	21.81765																				
																					71.99%	88.18%	88.18%	88.18%	88.18%																				

Signature
Coordinator

Signature
HOD
Dept of E&C
SIET, Tumkur-6

Signature
PRINCIPAL
SIET., TUMAKURU

**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

SUBJECT	DIGITAL COMMUNICATION	SUBJECT CODE	18EC61
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COURSE OUTCOME

- CO1.** Associate and apply the concepts of Bandpass sampling to well specified signals and channels.
- CO2.** Analyze and compute performance parameters and transfer rates for low pass and bandpass symbol under ideal and corrupted non band limited channels.
- CO3.** Test and validate symbol processing and performance parameters at the receiver under ideal and corrupted bandlimited channels.
- CO4.** Demonstrate that bandpass signals subjected to corruption and distortion in a bandlimited channel can be processed at the receiver to meet specified performance criteria.
- CO5.** 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	PROF.PRADEEP KUMAR S S											
BRANCH	ECE			ACADEMIC YEAR				2020-21				
COURSE	B.E	SEMESTER			VI	SECTION			ECE			
SUBJECT	DIGITAL COMMUNICATION					SUBJECT CODE			18EC61			
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	3	1	1								2
CO2	2	3	1	1								2
CO3	1	2	1	1								1
CO4	3	3	1	1								2
CO5	2	3	1	1								3
AVERAGE	2	2.8	1	1								1.4
OVERALL MAPPING OF SUBJECT												1.72

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	78.24%	1.56	2.34	0.78	0.78								1.56
CO2	73.04%	1.46	2.19	0.73	0.73								1.46
CO3	73.47%	0.73	1.46	0.73	0.73								0.73
CO4	73.04%	2.19	2.19	0.73	0.73								1.46
CO5	73.47%	1.46	2.20	0.73	0.73								2.20
AVERAGE		1.48	2.07	0.74	0.74								1.48
FINAL ATTAINMENT LEVEL													1.30

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Roll No	USN	Name	SEM-1		SEM-2		SEM-3		SEM-4		PROF. PRADEEPKUMAR S S					DIGITAL COMMUNICATION					TOTAL AVERAGE						
			T1		T2		T3		T4		ASSIGNMENT					SEM MARKS											
			T140	T240	T340	CO1-20	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	CO1-32	CO2-32	CO3-32	CO4-32	CO5-32
1	1SV17EC012	RAVISH KUMAR	30	30	30	30	18	18	18	18	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	38.2	31.2	31.2	31.2	31.2	34.2
2	1SV18EC002	ANUSHA G S	40	40	40	40	20	20	20	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	46.2	36.2	36.2	36.2	36.2	37.2
3	1SV18EC004	BASAVARAJ	34	34	34	34	17	17	17	17	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	42.2	29.2	29.2	29.2	29.2	28.4
4	1SV18EC005	BHARATHI M	33	33	33	33	16	17	18	17	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	38.2	32.2	32.2	32.2	32.2	28.3
5	1SV18EC006	BRUNDA K	40	40	40	40	20	20	20	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	44.2	26.2	26.2	26.2	26.2	28.1
6	1SV18EC007	CHANDANA D	40	40	40	40	20	20	20	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	44.2	26.2	26.2	26.2	26.2	30.2
7	1SV18EC008	DEVIKA L	30	30	30	30	18	18	18	18	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	38.2	31.2	31.2	31.2	31.2	27.2
8	1SV18EC009	GURANNAGOUDA	34	34	34	34	17	17	17	17	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	42.2	29.2	29.2	29.2	29.2	25.4
9	1SV18EC010	KETANRAJ S	33	33	33	33	16	17	18	17	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	38.2	29.2	29.2	29.2	29.2	28.3
10	1SV18EC011	LATHASHREE K R	38	38	38	38	19	19	19	19	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	44.2	29.2	29.2	29.2	29.2	27.5
11	1SV18EC012	MOUNESIGOWDA	33	33	33	33	17	16	17	18	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	38.2	29.2	29.2	29.2	29.2	27.3
12	1SV18EC013	MOUNIKA Y	40	40	40	40	20	20	20	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	44.2	26.2	26.2	26.2	26.2	28.1
13	1SV18EC014	NAGESH D R	40	40	40	40	20	20	20	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	46.2	26.2	26.2	26.2	26.2	30.2
14	1SV18EC016	PRASHANTHI M	40	40	40	40	20	20	20	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	46.2	26.2	26.2	26.2	26.2	30.2
15	1SV18EC018	RACHANA S R	37	37	37	37	18	18	18	18	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	43.2	24.2	24.2	24.2	24.2	29.3
16	1SV18EC019	SADAF NAZ	34	34	34	34	17	17	17	17	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	40.2	29.2	29.2	29.2	29.2	27.5
17	1SV18EC020	SAMEER BICHAGATTI	33	33	33	33	16	17	18	17	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	38.2	29.2	29.2	29.2	29.2	28.3
18	1SV18EC021	SHRISHA R T	33	33	33	33	17	16	17	18	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	38.2	29.2	29.2	29.2	29.2	26
19	1SV18EC022	SIDRAM	34	34	34	34	17	17	17	17	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	40.2	29.2	29.2	29.2	29.2	28.3
20	1SV18EC023	SRINIVAS C	30	30	30	30	18	18	18	18	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	36.2	29.2	29.2	29.2	29.2	25.4
21	1SV18EC024	YASHASWINI K Y	33	33	33	33	16	17	18	17	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	38.2	29.2	29.2	29.2	29.2	25.1
22	1SV19EC400	ARUNA R N	32	32	32	32	16	16	16	16	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	38.2	29.2	29.2	29.2	29.2	25.7
23	1SV19EC401	IVOTHI R	40	40	40	40	20	20	20	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	46.2	26.2	26.2	26.2	26.2	27.8
24	1SV19EC402	MAHADEVALAH M B	32	32	32	32	16	16	16	16	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	38.2	29.2	29.2	29.2	29.2	27.8
25	1SV19EC403	NAVYASHREE S M	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	29.2	29.2	29.2	29.2	24.2
26	1SV19EC404	PRAVEEN G D	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	29.2	29.2	29.2	29.2	23
27	1SV19EC405	SWAMY M	33	33	33	33	16	17	18	17	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	38.2	29.2	29.2	29.2	29.2	24.5
28	1SV17EC011	RAKESH K L	34	34	34	34	17	17	17	17	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	40.2	29.2	29.2	29.2	29.2	26.1
29	1SV17EC016	TEJASWINI D	34	34	34	34	17	17	17	17	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	40.2	29.2	29.2	29.2	29.2	26.6
																						40.68276	23.37241	23.51034	23.37241	23.51034	
																						78.24%	73.04%	73.47%	73.04%	73.47%	

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COURSE INSTRUCTOR

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**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

SUBJECT	EMBEDDED SYSTEMS	SUBJECT CODE	18EC62
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COURSE OUTCOME

CO1. Describe the architectural features and instructions of 32 bit microcontroller ARM CortexM3

CO2. Apply the knowledge gained for Programming ARM Cortex M3 for different applications..

CO3. Understand the basic hardware components and their selection method based on the characteristics and attributes of an embedded system.

CO4. Develop the hardware software co-design and firmware design approaches.

CO5. 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. RAGHAVENDRA D											
BRANCH	ECE			ACADEMIC YEAR				2020-21				
COURSE	B.E	SEMESTER			VI	SECTION			ECE			
SUBJECT	EMBEDDED SYSTEMS					SUBJECT CODE			18EC62			
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	3	1	1								2
CO2	2	3	1	1								2
CO3	1	3	1	1								1
CO4	3	3	1	1								2
CO5	2	3	1	1								3
AVERAGE	2	3	1	1								1.4
OVERALL MAPPING OF SUBJECT												1.72

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	78.24%	1.56	2.34	0.78	0.78								1.56
CO2	73.04%	1.46	2.19	0.73	0.73								1.25
CO3	73.47%	0.73	2.19	0.73	0.73								0.73
CO4	74.12%	2.22	2.22	0.74	0.74								1.48
CO5	74.12%	1.48	2.22	0.74	0.74								2.22
AVERAGE		1.49	2.23	0.74	0.74								1.448
FINAL ATTAINMENT LEVEL													1.329


SUBJECT FACULTY


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**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

SUBJECT	MICROWAVE ANTENNA	SUBJECT CODE	18EC63
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COURSE OUTCOME

- CO1.** Describe the use and advantages of microwave transmission
- CO2.** Analyze various parameters related to microwave transmission lines and waveguides.
- CO3.** Identify microwave devices for several applications
- CO4.** Analyze various antenna parameters necessary for building a RF system
- CO5.** 5. Recommend various antenna configurations according to the applications.

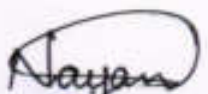
PROGRAM OUTCOMES

- P01** Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.
- P02** Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- P03** Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.
- P04** 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.
- P05** Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex engineering activities.
- P06** The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.
- P07** 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.
- P08** Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- P09** Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- P010** Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.
- P011** 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.
- P012** 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. NAYANA M S											
BRANCH	ECE			ACADEMIC YEAR				2020-21				
COURSE	B.E	SEMESTER		VI	SECTION			ECE				
SUBJECT	MICROWAVE ANTENNA					SUBJECT CODE			18EC63			
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	2	1	1								2
CO2	2	2	1	1								2
CO3	2	2	1	1								2
CO4	2	2	1	1								2
CO5	2	2	1	1								3
AVERAGE	2	2	1	1								2
OVERALL MAPPING OF SUBJECT												1.72

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	76.51%	1.53	1.53	0.76	0.76								1.53
CO2	71.85%	1.43	1.43	0.72	0.72								1.43
CO3	71.85%	1.43	1.43	0.72	0.72								1.43
CO4	71.75%	1.43	1.43	0.72	0.72								1.43
CO5	71.96%	1.43	1.43	0.72	0.72								1.43
AVERAGE		1.45	1.45	0.72	0.72								1.45
FINAL ATTAINMENT LEVEL													1.15


SUBJECT FACULTY


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Roll No	ID No	Name	SRECE2		2020-2021 T1/T2			SEM IV SEM		PROF. NAYANA M S					MICROWAVE ANTENNA					TOTAL AVERAGE							
			T1		T2		T3		ASSIGNMENT (A/B)					SEE MARKS													
			T1(A0)	T2(A0)	T3(A0)	CO1-20	CO2-20	CO3-20	CO4-20	CO5-20	CO1-2	CO2-2	CO3-2	CO4-2	CO5-2	60	CO1-10	CO2-10	CO3-10		CO4-10	CO5-10	CO1-20	CO2-20	CO3-20	CO4-20	CO5-20
1	1SV17EC012	RAVISH KUMAR	38	38	38	38	18	20	18	22	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	45.2	25.2	20.2	25.2	26.2	26.6
2	1SV18EC002	ANUSHA G S	40	40	40	40	20	20	20	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	46.2	26.2	26.2	26.2	26.2	26.8
3	1SV18EC004	BASAVARAJ	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	25.2	20.2	20.2	20.2	26.2
4	1SV18EC005	BHARATHI M	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	20.2	20.2	20.2	20.2	23
5	1SV18EC006	BEUNDA K	40	40	40	40	20	20	20	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	46.2	26.2	26.2	26.2	26.2	26.8
6	1SV18EC007	CHANDANA D	40	40	40	40	20	20	20	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	46.2	26.2	26.2	26.2	26.2	30.2
7	1SV18EC008	DEVIRA L	40	40	40	40	20	20	20	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	46.2	26.2	26.2	26.2	26.2	30.2
8	1SV18EC009	GURANNAGOUDA	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	20.2	20.2	20.2	20.2	26.6
9	1SV18EC010	KETANRAJ S	34	34	34	34	17	17	17	17	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	40.2	23.2	23.2	23.2	23.2	24.8
10	1SV18EC011	LATHASHREE K R	40	40	40	40	20	20	20	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	46.2	26.2	26.2	26.2	26.2	26.6
11	1SV18EC012	MOUNESHGOWDA	40	40	40	40	20	20	20	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	46.2	26.2	26.2	26.2	26.2	30.2
12	1SV18EC013	MOUNIKA Y	40	40	40	40	20	20	20	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	46.2	26.2	26.2	26.2	26.2	30.2
13	1SV18EC014	NAGESH D R	40	40	40	40	20	20	20	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	46.2	26.2	26.2	26.2	26.2	30.2
14	1SV18EC016	PRASHANTH M	34	34	34	34	17	17	17	17	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	40.2	23.2	23.2	23.2	23.2	26.6
15	1SV18EC018	RACHANA S R	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	20.2	20.2	20.2	20.2	24.8
16	1SV18EC019	SADAF NAZ	37	37	37	37	18	18	18	18	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	43.2	25.2	24.2	24.2	25.2	25.7
17	1SV18EC020	SAMEER BICHAGATTI	38	38	38	38	18	18	18	18	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	44.2	25.2	25.2	25.2	25.2	26.7
18	1SV18EC021	SHRESHA R T	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	20.2	20.2	20.2	20.2	26
19	1SV18EC022	SIDRAM	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	20.2	20.2	20.2	20.2	23
20	1SV18EC023	SRINIVAS C	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	20.2	20.2	20.2	20.2	23
21	1SV18EC024	YASHASWINI K Y	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	20.2	20.2	20.2	20.2	23
22	1SV19EC000	ARUNA R N	40	40	40	40	20	20	20	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	46.2	26.2	26.2	26.2	26.2	26.6
23	1SV19EC001	JYOTHI R	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	20.2	20.2	20.2	20.2	26.6
24	1SV19EC002	MAHADEVALAH M B	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	20.2	20.2	20.2	20.2	23
25	1SV19EC003	NAVYASHREE S M	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	20.2	20.2	20.2	20.2	23
26	1SV19EC004	PRAVEEN G D	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	20.2	20.2	20.2	20.2	23
27	1SV19EC005	SWAMY M	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	20.2	20.2	20.2	20.2	23
28	1SV17EC011	RAKESH K L	34	34	34	34	17	17	17	17	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	40.2	23.2	23.2	23.2	23.2	24.8
29	1SV17EC016	TEJASWINI D	34	34	34	34	17	17	17	17	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	40.2	23.2	23.2	23.2	23.2	26.6
																						38.78621	22.9931	22.9931	22.85462	23.02758	
																						76.51%	71.85%	71.85%	71.75%	71.96%	

Nayan
COURSE INSTRUCTOR

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**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

SUBJECT	PROGRAMMING IN JAVA	SUBJECT CODE	18EC653
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COURSE OUTCOME

- CO1.** Programming in Java detailed Syllabus for Information Science Engineering
- CO2.** Apply the knowledge gained for Programming ARM Cortex M3 for different applications..
- CO3.** Understand the basic hardware components and their selection method based on the characteristics and attributes of an embedded system.
- CO4.** Develop the hardware software co-design and firmware design approaches.
- CO5.** 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. RAGHAVENDRA D										
BRANCH		ECE			ACADEMIC YEAR					2020-21		
COURSE	B.E	SEMESTER			VI	SECTION			ECE			
SUBJECT	PROGRAMMING IN JAVA					SUBJECT CODE			18EC653			
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	2	1	1								2
CO2	2	2	1	1								2
CO3	2	2	1	1								2
CO4	2	2	1	1								2
CO5	2	2	1	1								3
AVERAGE	2	2	1	1								2
OVERALL MAPPING OF SUBJECT												1.72

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	76.51%	1.53	1.53	0.76	0.76								1.53
CO2	71.85%	1.43	1.43	0.72	0.72								1.43
CO3	71.85%	1.43	1.43	0.72	0.72								1.43
CO4	71.75%	1.43	1.43	0.72	0.72								1.43
CO5	71.96%	1.43	1.43	0.72	0.72								1.43
AVERAGE		1.45	1.45	0.72	0.72								1.45
FINAL ATTAINMENT LEVEL													1.15


SUBJECT FACULTY


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Roll No	IDN	Name	2020-2021 LEVEL					SEM IV SEM					PROG. RADHAYEVARA D					PROGRAMMING IN JAVA					TOTAL AVERAGE				
			T1		T2		T3		ASSIGNMENT 105					SEE MARKS					TUNE								
			TY40	TR40	TA40	CO1-40	CO2-20	CO3-20	CO4-20	CO5-20	CO1-2	CO2-2	CO3-2	CO4-2	CO5-2	SS	CO1-10	CO2-10	CO3-10	CO4-10	CO5-10	CO1-22		CO2-22	CO3-22	CO4-22	CO5-22
1	15V17EC012	RAVISH KUMAR	38	38	38	38	18	20	18	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	45.2	25.2	25.2	25.2	25.2	29.8
2	15V18EC002	ANUSHA G S	40	40	40	40	20	20	20	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	46.2	26.2	26.2	26.2	26.2	29.8
3	15V18EC004	BASAVARAJ	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	20.2	20.2	20.2	20.2	26.8
4	15V18EC005	BIHARATHI M	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	20.2	20.2	20.2	20.2	26.8
5	15V18EC006	BRUNDA K	40	40	40	40	20	20	20	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	46.2	26.2	26.2	26.2	26.2	29.8
6	15V18EC007	CHANDANA D	40	40	40	40	20	20	20	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	46.2	26.2	26.2	26.2	26.2	29.8
7	15V18EC008	DEVIKA L	40	40	40	40	20	20	20	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	46.2	26.2	26.2	26.2	26.2	29.8
8	15V18EC009	GURANNAGOUDA	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	20.2	20.2	20.2	20.2	26.8
9	15V18EC010	KETANRAJ S	34	34	34	34	17	17	17	17	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	40.2	22.2	22.2	22.2	22.2	24.8
10	15V18EC011	LATHASHREE K R	40	40	40	40	20	20	20	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	46.2	26.2	26.2	26.2	26.2	29.8
11	15V18EC012	MOUNESHGOWDA	40	40	40	40	20	20	20	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	46.2	26.2	26.2	26.2	26.2	29.8
12	15V18EC013	MOUNIKA Y	40	40	40	40	20	20	20	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	46.2	26.2	26.2	26.2	26.2	29.8
13	15V18EC014	NAGISH D R	40	40	40	40	20	20	20	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	46.2	26.2	26.2	26.2	26.2	29.8
14	15V18EC016	PRASHANTH M	34	34	34	34	17	17	17	17	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	40.2	22.2	22.2	22.2	22.2	24.8
15	15V18EC018	RACHANA S R	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	20.2	20.2	20.2	20.2	26.8
16	15V18EC019	SADAF NAZ	37	37	37	37	19	19	19	19	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	43.2	25.2	24.2	24.2	25.2	25.7
17	15V18EC020	SAMEER BICHAGATTI	38	38	38	38	18	18	18	18	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	44.2	25.2	25.2	25.2	25.2	28.7
18	15V18EC021	SHRESHA R T	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	20.2	20.2	20.2	20.2	26.8
19	15V18EC022	SIDRAM	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	20.2	20.2	20.2	20.2	26.8
20	15V18EC023	SREINVAS C	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	20.2	20.2	20.2	20.2	26.8
21	15V18EC024	YASHASWINI K Y	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	20.2	20.2	20.2	20.2	26.8
22	15V19EC400	ARUNA R N	40	40	40	40	20	20	20	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	46.2	26.2	26.2	26.2	26.2	29.8
23	15V19EC401	IVOTHI R	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	20.2	20.2	20.2	20.2	26.8
24	15V19EC402	MAHADEVAIAH M R	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	20.2	20.2	20.2	20.2	26.8
25	15V19EC403	NAVYASHREE S M	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	20.2	20.2	20.2	20.2	26.8
26	15V19EC404	PRAVEEN G D	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	20.2	20.2	20.2	20.2	26.8
27	15V19EC405	SWAMY M	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	20.2	20.2	20.2	20.2	26.8
28	15V17EC011	RAKESH K L	34	34	34	34	17	17	17	17	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	40.2	22.2	22.2	22.2	22.2	24.8
29	15V17EC016	TEJASWINI D	34	34	34	34	17	17	17	17	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	40.2	22.2	22.2	22.2	22.2	24.8
																						19.79421	22.9931	22.9931	22.95862	23.02759	
																						76.51%	71.85%	71.85%	71.75%	71.96%	

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COURSE INSTRUCTOR

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**Department of Electronics & Communication Engineering****Course Outcomes and CO-PO- Articulation Matrix****2018 Scheme****ACADEMIC YEAR 2020-21****Semester-VIII**

Subject: WIRELESS CELLULAR & LTE 4G BROAD BAND							Subject Code: 17EC81					
Prof. Raghavendra D												
Course Outcomes												
CO1	Understand the basics of semiconductor physics and electronic devices.											
CO2	Describe the mathematical models BJT's and FET's along with the constructional details.											
CO3	Understand the construction and working principles of optoelectronic devices											
CO4	Understand the fabrication process of semiconductor devices and CMOS process integration.											
CO5	To study different Electronic Devices											
CO-PO Mapping												
COs	Pos											
	1	2	3	4	5	6	7	8	9	10	11	12
CO1	2	1	1									2
CO2	3	2	2									2
CO3	3	2	2									2
CO4	1	1	1									2
CO5	2	2	2									2
Average	2.0	1.4	2.0									2.0

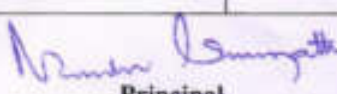
ATTAINMENT TABLE

COs	AVG	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	69.64%	1.38	0.69	0.69									1.38
CO2	64.50%	1.92	1.28	1.28									1.28
CO3	62.24%	1.86	1.24	1.24									1.24
CO4	69.37%	0.69	0.69	0.69									1.38
CO5	62.24%	1.24	1.24	1.24									1.24
AVERAGE		1.41	1.02	1.02									1.3
TOTAL ATTAINMENT													1.18

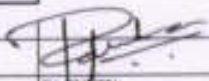

Course Instructor

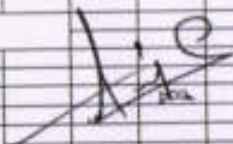

HOD

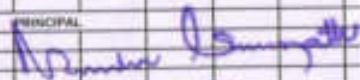
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Roll No.	UIN	Name	SEM I					SEM II					SEM III					SEM IV	Total	GPA	CGPA
			SEM I					SEM II					SEM III								
			T1(20)	T2(20)	T3(20)	CO1-15	CO2-15	CO2-15	CO3-15	CO4-15	CO5-15	CO1-2	CO2-2	CO3-2	CO4-2	CO5-2	CO1-2				
1	15V18EC029	RAMKUMAR D S	30	30	30	15	15	15	15	15	2	2	2	2	2	25	5.5	5.5	5.5	5.5	5.5
2	15V18EC008	RIBIK YADAV	24	20	18	15	8	15	5	10	8	2	2	2	2	29	5.0	5.0	5.0	5.0	5.0
3	15V18EC025	NITHIN KUMAR C M	21	23	17	15	8	15	8	10	7	2	2	2	2	47	5.4	5.4	5.4	5.4	5.4
4	15V18EC029	PAVITHRA S	7	9	2	1	2	1	9	0	2	2	2	2	2	26	5.1	5.1	5.1	5.1	5.1
5	15V18EC045	SUNITHA Y K	30	30	27	15	15	15	15	15	12	2	2	2	2	49	5.8	5.8	5.8	5.8	5.8
6	15V17EC001	AFSA FATHIMA	24	24	26	15	8	15	8	14	12	2	2	2	2	31	6.2	6.2	6.2	6.2	6.2
7	15V17EC001	DANIEL S	20	22	28	15	5	15	7	15	14	2	2	2	2	38	7.8	7.8	7.8	7.8	7.8
8	15V17EC004	CEETHA M B	22	23	29	15	7	15	5	12	6	2	2	2	2	31	6.2	6.2	6.2	6.2	6.2
9	15V17EC005	ITHENDRA H	20	20	18	15	5	15	5	12	6	2	2	2	2	30	6.4	6.4	6.4	6.4	6.4
10	15V17EC006	MD TAJ HUSSAIN	24	24	26	15	8	15	9	12	12	2	2	2	2	30	6.4	6.4	6.4	6.4	6.4
11	15V17EC007	NIDA NAWAZ	30	30	30	15	15	15	15	15	15	2	2	2	2	38	7.8	7.8	7.8	7.8	7.8
12	15V17EC008	NIHIA H	30	30	27	15	15	15	15	15	12	2	2	2	2	38	5.8	5.8	5.8	5.8	5.8
13	15V17EC009	NIHIA H NAWAZ	30	30	30	15	15	15	15	15	15	2	2	2	2	33	6.0	6.0	6.0	6.0	6.0
14	15V17EC011	RIKHA S N	21	21	20	15	8	15	8	14	12	2	2	2	2	40	5	5	5	5	5
15	15V17EC014	SAHANA C R	20	20	28	15	5	15	5	15	14	2	2	2	2	34	6.8	6.8	6.8	6.8	6.8
16	15V18EC031	HEMA K P	22	22	28	15	7	15	7	15	14	2	2	2	2	33	6.0	6.0	6.0	6.0	6.0
17	15V18EC002	LEKSHA C H	22	22	26	15	7	15	7	13	13	2	2	2	2	32	6.4	6.4	6.4	6.4	6.4
18	15V17EC002	ASHWINI V	20	20	25	15	5	15	5	12	12	2	2	2	2	30	6.0	6.0	6.0	6.0	6.0
19	15V17EC015	SAYEEDALUNNISA	20	20	18	15	5	15	5	12	7	2	2	2	2	23	4.8	4.8	4.8	4.8	4.8


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**DEPARTMENT OF ELECTRONICS & COMMUNICATION**

SEM: VIII

ACADEMIC YEAR:2020-2021

SUBJECT	FIBER OPTICS & NETWORKS	SUBJECT CODE	17EC82
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COURSE OUTCOME

- C01.** Apply the transmission characteristics and losses in optical fiber communication
- C02.** Describe the construction and working principle of Optical connectors, multiplexers and amplifiers.
- C03** Analyze the working of Optical Fiber with different modes of Signal propagation
- C04** Illustrate the Optical fiber networks and its standards
- C05.** Apply Fiber optics and networks in 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	Prof.AIJAZ AHAMED SHARIEF											
BRANCH	ECE			ACADEMIC YEAR				2020-2021				
COURSE	B.E	SEMESTER		VII	SECTION			A				
SUBJECT	FIBER OPTICS & NETWORKS					SUBJECT CODE			17EC82			
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	1		1					2	1		1
CO2	3	3	1	1	1	1	1		2	1		1
CO3	3	2	1	1	1				2	1		1
CO4	3	2	1	2	1				2	1		2
CO5	3	2	2	2	2	1	1		3	1	1	3
AVERAGE	3	2	1.25	1.4	1.25	1	1		2.2	1	1	1.6
OVERALL MAPPING OF SUBJECT												1.51

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	77.09	2.31	0.77		0.77					1.54	0.77		0.77
CO2	87.89	2.63	2.63	0.87	0.87	0.87	0.87	0.87		1.75	0.87		0.87
CO3	84.26	2.52	1.68	0.84	0.84	0.84				1.68	0.84		0.84
CO4	76.36	2.29	1.52	0.76	1.52	0.76				1.52	0.76		1.52
CO5	67.35	2.02	1.34	1.34	1.34	1.34	0.67	0.67		2.02	0.67	0.67	2.02
AVERAGE	78.59	2.35	1.58	0.95	1.06	0.77	0.77	0.77		1.70	0.78	0.67	1.204
FINAL ATTAINMENT LEVEL													1.14


COURSE INSTRUCTOR


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**Department of Electronics & Communication Engineering****Course Outcomes and CO-PO- Articulation Matrix****2018 Scheme****ACADEMIC YEAR 2020-21****Semester-VIII**

Subject: RADAR ENGINEERING												Subject Code: 17EC833	
Prof. PRADEEP KUMAR S S													
Course Outcomes													
CO1	Understand the basics of semiconductor physics and electronic devices.												
CO2	Describe the mathematical models BJTs and FETs along with the constructional details.												
CO3	Understand the construction and working principles of optoelectronic devices												
CO4	Understand the fabrication process of semiconductor devices and CMOS process integration.												
CO5	To study different Electronic Devices												
CO-PO Mapping													
COs	Pos												
	1	2	3	4	5	6	7	8	9	10	11	12	
CO1	2	1	1										2
CO2	3	2	2										2
CO3	3	2	2										2
CO4	1	1	1										2
CO5	2	2	2										2
Average	2.0	1.4	2.0										2.0

ATTAINMENT TABLE

COs	AVG	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	69.64%	1.38	0.69	0.69									1.38
CO2	64.50%	1.92	1.28	1.28									1.28
CO3	62.24%	1.86	1.24	1.24									1.24
CO4	69.37%	0.69	0.69	0.69									1.38
CO5	62.24%	1.24	1.24	1.24									1.24
AVERAGE		1.41	1.02	1.02									1.3
TOTAL ATTAINMENT													1.18

Pradeep Kumar S S
Course Instructor

Pradeep Kumar S S
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Pradeep Kumar S S
Principal
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**Department of Electronics & Communication Engineering****Course Outcomes and CO-PO- Articulation Matrix****2018 Scheme****ACADEMIC YEAR 2020-21****Semester-I**

Subject: Basic Electronics							Subject Code: 18ELN14					
Dr.Lokesh B S												
Course Outcomes												
CO1	Operation of Semiconductor diode, Zener diode and Special purpose diodes and their applications.											
CO2	Biasing circuits for transistor (BJT) as an amplifier.											
CO3	Study of linear Op-amps and its applications.											
CO4	Logic circuits and their optimization.											
CO5	Principles of Transducers and Communication.											
CO-PO Mapping												
COs	Pos											
	1	2	3	4	5	6	7	8	9	10	11	12
CO1	2		1									1
CO2	3	3	2		2							1
CO3	3	3	2		2							1
CO4	3	3	2		2							1
CO5	3											
Average	2.8	3	1.75		2							1

ATTAINMENT TABLE

COs	AVG	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	72%	1.44		0.72									0.72
CO2	76%	2.28	2.28	1.52			1.52						0.76
CO3	74%	2.22	2.22	1.48			1.48						0.74
CO4	64%	1.92	1.92	1.28			1.28						0.64
CO5	59%	1.77											
AVERAGE		1.92	2.14	1.25			1.42						0.71
TOTAL ATTAINMENT													1.48

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15V20CV002	13	13	28	14	14	28	20	20	20	20	13	83	28	2	2	2	2	2	2	3.8	3.8	3.8	3.8	3.8	39.8	52.8	58.8	23.8	18.8	84.081	81.101	82.111	80.021	84.75
15V20CV003	13	3	13	13	14	28	20	20	20	20	10	8	27	2	2	2	2	2	2	4.8	4.8	4.8	4.8	4.8	42.8	53.8	25.8	25.8	8.8	80.850	85.779	83.624	84.73	21.25
15V18CV003	12	12	24	13	13	30	20	20	20	20	7	10	29	2	2	2	2	2	2	4	4	4	4	4	41	52	38	13	16	87.234	85.484	85.881	80.825	30
15V18CV002	15	15	30	13	14	28	10	10	10	10	10	18	16	2	2	2	2	2	2	1	5	5	5	5	31	47	32	17	10	65.917	75.808	84.282	13.121	62.3
15V18CV009	15	15	30	15	13	30	30	20	20	20	7	10	27	2	2	2	2	2	2	0	0	0	0	0	37	52	37	9	12	78.723	83.871	78.723	28.123	37.3
15V18CV010	15	15	30	15	13	30	30	20	20	20	0	80	24	2	2	2	2	2	2	4.8	4.8	4.8	4.8	4.8	17	32	17	2	2	36.17	51.613	36.17	8.25	6.25
15V18CV012	15	15	30	11	12	28	17	30	30	30	20	20	20	2	2	2	2	2	2	5.4	5.4	5.4	5.4	5.4	36.4	53.4	42.4	27.4	27.4	77.447	86.129	90.213	85.623	85.623
15V18CV013	15	15	30	11	12	28	17	30	30	30	20	20	20	2	2	2	2	2	2	6.2	6.2	6.2	6.2	6.2	33.2	53.2	41.2	28.2	28.2	48.362	80.808	87.88	86.121	88.125
15V18CV016	13	13	28	13	13	28	0	30	30	30	20	20	20	2	2	2	2	2	2	6.4	6.4	6.4	6.4	6.4	17	33	26	22	22	36.17	52.238	76.598	88.75	88.75
15V18CV011	15	14	28	13	13	28	0	3	30	30	20	20	20	2	2	2	2	2	2	6.4	6.4	6.4	6.4	6.4	17	33	26	22	22	36.17	52.238	76.598	88.75	88.75
15V18CV018	15	18	30	12	14	26	10	10	10	10	10	18	19	2	2	2	2	2	2	9	9	9	9	9	36	48	36	22	2	76.598	77.419	76.598	88.75	8.25
15V18CV019	15	14	29	11	14	25	20	20	20	30	0	90	27	2	2	2	2	2	2	7.4	7.4	7.4	7.4	7.4	32	50	32	5	17	68.085	80.645	88.085	13.625	37.3
15V18CV017	13	10	25	13	10	23	20	20	20	3	18	75	22	2	2	2	2	2	2	3.2	3.2	3.2	3.2	3.2	36.2	54.2	15.2	5.2	25.2	83.454	87.459	32.54	16.25	78.75
15V19CV001	13	10	25	14	14	28	20	20	0	0	0	60	18	2	2	2	2	2	2	4.8	4.8	4.8	4.8	4.8	36.8	34.8	31.8	26.8	26.8	78.298	10.129	67.88	83.75	83.75
15V19CV002	13	13	30	10	10	20	20	3	10	30	30	73	22	2	2	2	2	2	2	4.8	4.8	4.8	4.8	4.8	36.8	34.8	31.8	26.8	26.8	78.298	10.129	67.88	83.75	83.75
15V19CV003	11	9	20	15	15	30	20	0	0	20	40	13	2	2	2	2	2	2	2	3.2	3.2	3.2	3.2	3.2	39.2	30.2	13.2	4.2	34.2	83.454	48.75	28.085	13.125	75.625
15V19CV004	15	15	30	15	15	30	5	5	5	5	5	30	9	2	2	2	2	2	2	3.2	3.2	3.2	3.2	3.2	25.2	40.2	25.2	10.2	10.2	33.617	64.889	53.617	31.875	81.875
15V19CV005	15	15	30	12	10	21	0	0	0	0	0	0	0	2	2	2	2	2	2	3.2	3.2	3.2	3.2	3.2	25.2	40.2	25.2	10.2	10.2	32.36	50.329	42.979	16.25	18.25
15V19CV006	11	4	13	14	11	25	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	15	28	8	4	4	31.915	48.774	17.021	12.3	12.3
15V19CV007	15	13	30	14	12	26	5	5	5	5	17	37	11	2	2	2	2	2	2	3.4	3.4	3.4	3.4	3.4	23.4	38.4	21.4	10.4	10.4	47.65	63.548	54.063	32.3	70
15V19CV008	13	7	20	14	11	25	0	0	0	20	30	20	69	19	2	2	2	2	2	6.4	6.4	6.4	6.4	6.4	19	32	29	22	22	27.66	51.613	61.702	88.75	88.75
15V19CV009	14	8	20	15	13	30	10	10	10	10	10	50	15	2	2	2	2	2	2	5	5	5	5	5	27	41	18	12	12	57.447	66.129	38.298	37.3	37.3
15V19CV010	13	13	30	13	13	30	20	20	30	0	10	70	21	2	2	2	2	2	2	7	7	7	7	7	37	52	37	2	12	78.723	83.871	78.723	8.25	37.3
15V19CV011	13	13	30	13	13	30	20	20	30	0	0	60	18	2	2	2	2	2	2	6	6	6	6	6	0	17	17	2	2	4.2553	27.419	36.17	4.25	6.25
15V19CV012	15	15	30	13	14	29	20	20	30	30	13	89	28	2	2	2	2	2	2	5.2	5.2	5.2	5.2	5.2	42.2	57.2	42.2	27.2	20.2	97.88	92.258	89.787	81	83.125
15V19CV013	15	15	30	13	13	30	20	20	30	20	13	89	28	2	2	2	2	2	2	5.8	5.8	5.8	5.8	5.8	42.8	57.8	42.8	27.8	20.8	91.064	93.226	91.064	86.875	85
15V19CV014	15	15	30	0	0	0	0	0	0	0	0	0	0	2	2	2	2	2	2	3.8	3.8	3.8	3.8	3.8	5.8	20.8	20.8	5.8	5.8	11.915	33.226	43.83	17.3	17.3
15V19CV015	15	14	29	13	13	30	7	30	30	20	20	87	26	2	2	2	2	2	2	5	5	5	5	5	29	57	41	27	27	81.732	91.035	87.234	84.375	84.375
15V19CV016	15	15	30	13	13	30	10	10	10	10	3	41	13	2	2	2	2	2	2	3.8	3.8	3.8	3.8	3.8	30.8	45.8	30.8	15.8	8.8	65.332	73.871	65.332	45.375	27.3
15V19CV017	15	13	30	13	13	30	20	20	30	20	20	100	30	2	2	2	2	2	2	5.2	5.2	5.2	5.2	5.2	42.2	57.2	42.2	27.2	27.2	89.787	92.258	89.787	81	80
15V19CV018	15	15	30	13	12	23	17	10	10	10	10	57	17	2	2	2	2	2	2	5.8	5.8	5.8	5.8	5.8	31	42	27	12	12	69.957	67.742	67.447	37.3	37.3
15V19CV019	15	15	30	15	15	30	0	30	30	30	20	80	24	2	2	2	2	2	2	8	8	8	8	8	17	52	37	22	22	36.17	83.871	78.723	68.75	68.75
15V19CV020	15	10	25	15	15	30	3	30	30	30	20	83	25	2	2	2	2	2	2	6.2	6.2	6.2	6.2	6.2	26.2	38.2	26.2	28.2	28.2	55.745	83.871	81.777	88.125	88.125
15V19CV021	15	15	30	15	15	30	20	30	30	30	20	83	25	2	2	2	2	2	2	5.4	5.4	5.4	5.4	5.4	42.4	57.4	42.4	27.4	27.4	90.213	92.581	90.213	85.625	85.625
												100	30	2	2	2	2	2	2	5.4	5.4	5.4	5.4	5.4	42.4	57.4	42.4	27.4	27.4	37.944	42.25	37.379	32.035	33.538

73	76	74	64	59
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**SHRIDEVI INSTITUTE OF ENGINEERING
AND TECHNOLOGY, TUMKUR**

DEPARTMENT OF ECE

CO-PO ATTAINMENT

ACADEMIC YEAR

2020-21

EVEN SEM

FIRST YEAR



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**Department of Electronics & Communication Engineering****Course Outcomes and CO-PO- Articulation Matrix****2018 Scheme****ACADEMIC YEAR 2020-21****Semester-II**

Subject: Basic Electronics Dr.Lokesh B S												Subject Code: 18ELN24	
Course Outcomes													
CO1	Operation of Semiconductor diode, Zener diode and Special purpose diodes and their applications.												
CO2	Biasing circuits for transistor (BJT) as an amplifier.												
CO3	Study of linear Op-amps and its applications.												
CO4	Logic circuits and their optimization.												
CO5	Principles of Transducers and Communication.												
CO-PO Mapping													
COs	Pos												
	1	2	3	4	5	6	7	8	9	10	11	12	
CO1	2		1										1
CO2	3	3	2		2								1
CO3	3	3	2		2								1
CO4	3	3	2		2								1
CO5	3												
Average	2.8	3	1.75		2								1

ATTAINMENT TABLE													
COs	AVG	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	72%	1.44		0.72									0.72
CO2	76%	2.28	2.28	1.52			1.52						0.76
CO3	74%	2.22	2.22	1.48			1.48						0.74
CO4	64%	1.92	1.92	1.28			1.28						0.64
CO5	59%	1.77											
AVERAGE		1.92	2.14	1.25			1.42						0.71
TOTAL ATTAINMENT													1.48

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