

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

DEPARTMENT OF ECE

CO-PO ATTAINMENT

ACADEMIC YEAR

2021-22

ODD SEM



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



(COMMON TO ALL BRANCHES)
ACADEMIC YEAR: 2021-2022

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

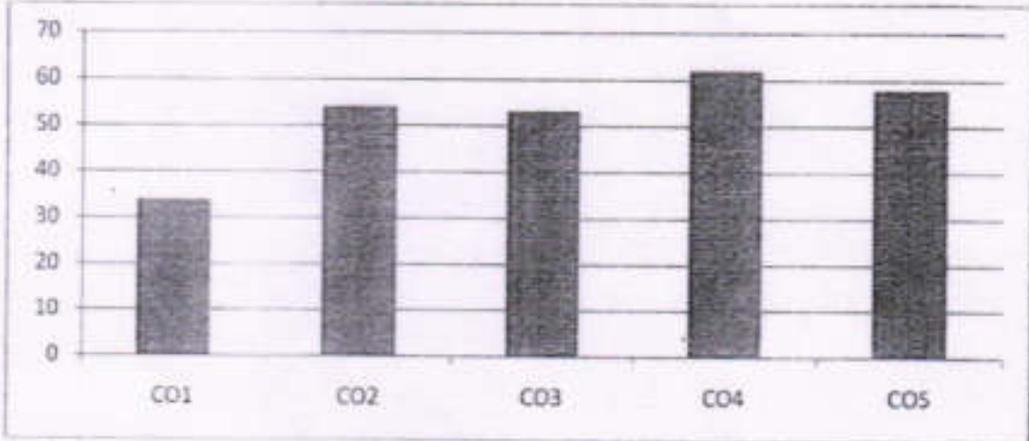
MAPPING CORRELATION	LOW	MODERATELY	HIGHLY	NO
	1	2	3	0



DEPARTMENT OF MATHEMATICS

COLLEGE		SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY					
FACULTY NAME		Dr. KISHOR KUMAR M K/Dr. CHETANA C/Prof. RASHMI S B					
BRANCH		ECE/EEE/CSE/CVE/ISE/ME			ACADEMIC YEAR		2021-22
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	34	0.68	1.02	0	0	0	0	0	0	0	0	0	0.3	
CO2	54	1.09	1.63	0	0	0	0	0	0	0	0	0	0.5	
CO3	53	1.07	1.60	0	0	0	0	0	0	0	0	0	0.5	
CO4	62	1.24	1.86	0	0	0	0	0	0	0	0	0	0.6	
CO5	58	1.16	1.74	0	0	0	0	0	0	0	0	0	0.5	
AVG	52	1	2	0	0	0	0	0	0	0	0	0		
													Final attainment level	1



Kishor Kumar M K
 Staff in-charge

Kishor Kumar M K
 HOD

Chetana C
 PRINCIPAL
 SIET, TUMAKURU
 Principal

Rashmi S B
 PRINCIPAL
 SIET, TUMAKURU.

1SV20KV007	10	15	25	15	10	25	9	9	18	2	2	2	2	2	2	2	1	1	1	1	1	15	15	20	19	14	14.1	51.7	59.0	48.1	48.1
1SV20KV006	7	8	15	10	7	17	15	15	30	2	2	2	2	2	2.6	1.6	1.6	1.6	1.6	1.6	1.6	12.6	12.6	10	20.6	7	18.6	41.4	51.8	71.0	71.0
1SV20KV009	12	14	20	10	18	20	14	14	28	2	2	2	2	2	3.2	3.2	3.2	3.2	3.2	3.2	17.2	24.2	15	19.2	19	33.1	43.4	52.4	66.2	66.2	
1SV20KV011	12	13	25	15	10	27	10	8	23	2	2	2	1	2	0.8	0.8	0.8	0.8	0.8	0.8	14.8	14.8	18	27.8	21	19.8	51.0	61.4	61.4	17.2	
1SV20KV011	0	1	1	4	3	5	11	11	22	2	2	2	2	2	2.8	2.8	2.8	2.8	2.8	2.8	8.8	7.8	8.8	15.8	16	10.9	26.9	30.3	54.5	54.5	
1SV20KV014	1	1	2	1	1	9	11	11	22	2	2	2	2	2	0.2	0.2	0.1	0.1	0.2	0.2	3.2	3.2	5.2	11.2	11	7.4	27.9	17.9	45.5	45.5	
1SV20KV015	7	7	14	8	6	18	15	12	27	2	2	2	2	2	3.2	3.2	3.2	3.2	3.2	3.2	13.2	13.2	13	20.2	17	27.7	45.5	45.5	69.2	59.8	
1SV20KV000	12	14	26	11	11	23	12	15	37	2	2	2	2	2	2.8	2.8	2.8	2.8	2.8	2.8	28.8	28.8	16	18.8	30	18.7	54.5	54.5	57.3	68.3	
1SV20M001	6	6	12	10	1	11	8	8	16	2	2	2	2	2	1.6	1.6	1.6	1.6	1.6	1.6	9.6	4.8	14	11.8	17	22.3	16.9	42.6	43.7	49.2	
1SV20M002	10	15	25	10	10	20	10	10	20	2	2	2	2	2	0	0	0	0	0	0	12	12	12	12	12	12	27.9	41.4	41.4	41.4	
1SV20M003	8	2	10	10	8	18	10	12	22	2	2	2	2	2	2.6	2.6	2.6	2.6	2.6	2.6	12.6	12.6	15	14.6	17	28.6	43.4	50.3	50.3	57.2	
1SV20M004	6	6	12	6	6	12	2	1	1	2	2	2	2	2	1.2	1.2	1.2	1.2	1.2	1.2	9.2	9.2	9.2	9.2	9.2	20.9	31.7	31.7	37.9	37.9	
1SV20M005	2	7	14	10	1	11	10	15	25	2	2	2	2	2	0	0	0	0	0	0	9	3	12	12	17	20.3	10.3	41.4	41.4	50.6	
1SV20M006	8	0	8	14	14	28	10	4	14	2	2	2	2	2	2.6	2.6	2.6	2.6	2.6	2.6	21.6	18.6	19	14.6	8.1	28.6	64.1	64.1	50.3	39.2	
1SV20M007	3	4	7	10	4	14	10	10	20	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	4.2	9.2	10.2	16	18.2	18	30.9	35.2	55.9	55.9	55.9	
1SV20M008	10	13	23	10	10	20	14	14	28	2	2	2	2	2	1	1	1	1	1	1	1	11	11	13	17	17	29.5	44.8	44.8	58.6	58.6
1SV20M009	15	15	30	15	15	30	15	15	30	2	2	2	2	2	0.8	0.8	0.8	0.8	0.8	0.8	17.8	17.8	18	17.8	18	40.5	61.4	61.4	61.4	61.4	
1SV20M011	10	5	15	12	5	17	14	14	28	2	2	2	2	2	1.8	1.8	1.8	1.8	1.8	1.8	13.8	8.8	16	17.8	18	21.4	30.3	54.5	61.4	61.4	
1SV20M011	0	0	0	10	0	13	10	0	10	2	2	2	2	2	1.4	1.4	1.4	1.4	1.4	1.4	5.4	5.4	15	15.4	5.4	12.3	18.6	53.1	53.1	18.6	
1SV20M012	0	0	0	0	10	17	10	0	10	2	2	2	2	2	0.2	1.2	0.2	0.2	0.2	0.2	2.2	12.2	2.2	12.2	2.2	5.0	42.1	7.6	42.1	7.6	
																										21.9	54.3	53.3	62.1	58.0	

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**Department of Electronics & Communication Engg**
Course Outcomes and CO-PO Articulation Matrix**2018 SCHEME**
ACADEMIC YEAR -2021-22**Semester-III**

Subject: NETWORK THEORY PROF. PRADEEPKUMAR S S	Subject Code: 18EC32
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Course Outcomes

CO1	Classify the signals as continuous/discrete, periodic/apperiodic, even/odd, energy/power and deterministic/random signals.
CO2	Determine the linearity, causality, time-invariance and stability properties of continuous and discrete time systems
CO3	Compute the response of a Continuous and Discrete LTI system using convolution integral and convolution sum.
CO4	Determine the spectral characteristics of continuous and discrete time signal using Fourier analysis.
CO5	Compute Z-transforms, inverse Z-transforms and transfer functions of complex LTI systems

CO-PO Mapping

COs	Pos											
	1	2	3	4	5	6	7	8	9	10	11	12
CO1	2	2	1	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	1.8	1.8	1.6					1		1.2

ATTAINMENT TABLE

COs	AVG	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	51.24%	1.02	1.02	0.51	0.51	1.02					0.51		0.51
CO2	45.70%	0.91	0.91	0.91	0.91	0.45					0.45		0.45
CO3	34.52%	0.69	0.69	0.69	0.69	0.69					0.69		0.34
CO4	47.28%	0.94	0.94	0.94	0.94	0.47					0.47		0.94
CO5	59.69%	1.19	1.19	1.19	1.19	1.19					0.59		0.59
AVERAGE		0.95	0.95	0.88	0.88	0.95					0.54		0.56
TOTAL ATTAINMENT												0.916	

Pradeep
COURSE INSTRUCTOR

AS
HOD
Dept of E&C
SJET, Tumkur-5

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PRINCIPAL
SJET, Tumkur-5

Roll No	URU	Name	SEM I		SEM II					SEM III		SEM IV					SEM V					TOTAL AVERAGE																				
			T1(20)	T2(20)	T3(20)	CO1-16	CO2-16	CO3-16	CO4-16	CO5-16	CO1-16	CO2-16	CO3-16	CO4-16	CO5-16	CO1-16	CO2-16	CO3-16	CO4-16	CO5-16	CO1-16		CO2-16	CO3-16	CO4-16	CO5-16																
1	ISV2REC01	ABHIRAM B	19	1	20	14	4	1	0	9	16	2	2	2	2	2	2	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18			
2	ISV2REC02	ANGANA A	7	2	16	6	2	2	0	1	16	2	2	2	2	2	2	2	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14				
3	ISV2REC03	GIRISH K S	27	3	27	16	12	3	0	0	12	2	2	2	2	2	2	2	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14			
4	ISV2REC04	KRISHANABHU H K	17	2	25	9	8	2	0	10	15	2	2	2	2	2	2	2	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14			
5	ISV2REC05	DARSHAN M B	8	2	14	7	2	2	0	0	14	2	2	2	2	2	2	2	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14			
6	ISV2REC06	JAGANASHREE H S	28	2	17	15	15	1	1	14	7	2	2	2	2	2	2	2	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14			
7	ISV2REC07	HARISHY M J	27	2	17	14	13	2	0	9	9	2	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2			
8	ISV2REC08	HARSHITHA S	24	13	34	19	9	8	7	11	15	2	2	2	2	2	2	21	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2			
9	ISV2REC09	JMTIAZ PASHA	20	11	31	15	15	0	0	3	14	2	2	2	2	2	2	14	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6			
10	ISV2REC10	MEDHANA B G	27	4	29	14	13	4	0	8	16	2	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2			
11	ISV2REC11	MUKTA H K	28	22	30	10	10	7	10	10	10	2	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2		
12	ISV2REC12	NAGARAJ	14	0	27	10	4	0	0	12	16	2	2	2	2	2	2	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
13	ISV2REC13	PRATHIBHA K	14	3	8	8	8	2	1	3	5	2	2	2	2	2	2	11	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2		
14	ISV2REC14	S M SICHRA	20	20	20	10	10	10	10	10	10	2	2	2	2	2	2	24	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6		
15	ISV2REC15	RACHANA N	20	20	20	10	10	10	10	10	10	2	2	2	2	2	2	14	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8		
16	ISV2REC16	S SAVITHRA	20	23	26	15	15	12	11	11	16	2	2	2	2	2	2	26	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	
17	ISV2REC17	SUREJA JEGAR	19	27	30	4	18	12	16	16	16	2	2	2	2	2	2	26	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2		
18	ISV2REC18	YADHAS K R	18	10	18	13	5	0	10	10	8	2	2	2	2	2	2	4	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8		
19	ISV2REC19	HARSHITHA	20	12	8	10	15	11	1	1	4	2	2	2	2	2	2	18	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6		
20	ISV2REC20	MANOJ M R	21	9	19	14	7	3	9	9	9	2	2	2	2	2	2	9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8		

APRIL
LEAD INSTRUCTOR

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

Principal
PRINCIPAL
SIET, TUMAKURU

51.25% 45.75% 34.52% 47.28% 55.00%

**Department of Electronics & Communication Engg**
Course Outcomes and CO-PO Articulation Matrix**2021-22 Scheme**
Semester-III

Subject: ELECTRONICS DEVICES										Subject Code: 18EC33			
PROR.PRABITHA D K													
Course Outcomes													
CO1	Classify the signals as continuous/discrete, periodic/apperiodic, even/odd, energy/power and deterministic/random signals.												
CO2	Determine the linearity, causality, time-invariance and stability properties of continuous and discrete time systems												
CO3	Compute the response of a Continuous and Discrete system using convolution integral and convolution sum.												
CO4	Determine the spectral characteristics of continuous and discrete time signal using Fourier analysis.												
CO5	Compute transforms, inverse transforms and transfer functions of complex systems												
CO-PO Mapping													
COs	Pos												
	1	2	3	4	5	6	7	8	9	10	11	12	
CO1	2	3	1	1	2					2		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	1.8	1.6					1.4		1.2	

ATTAINMENT TABLE

COs	AVG	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	59.59%	1.19	1.78	0.59	0.59	1.19					1.19		0.59
CO2	60.64%	1.21	1.21	1.21	1.21	0.60					0.60		0.60
CO3	61.14%	1.22	1.22	1.22	1.22	1.22					1.22		0.61
CO4	73.90%	1.4	1.4	1.4	1.4	0.74					0.74		1.4
CO5	65.79%	1.31	1.31	1.31	1.31	1.31					0.65		0.65
AVERAGE		1.26	1.38	1.14	1.14	1.01					0.88		0.77
TOTAL ATTAINMENT													1.07

Prabitha D K
COURSE INSTRUCTOR

AJC
HOD
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Prabitha D K
PRINCIPAL
SIET, TUMKURU.

Roll No.	SEM	SUB CODE	NAME	2021-2022 OOD										SEM II SEM										SUB	ELECTRONIC DEVICES	TOTAL AVERAGE				
				12BES		12BEE		12BSC		12BSP		12BSE		12BSS		12BST		12BTE		12BUE		12BUS					12BVE			
				12BES1	12BES2	12BEE1	12BEE2	12BSC1	12BSC2	12BSP1	12BSP2	12BSE1	12BSE2	12BSS1	12BSS2	12BST1	12BST2	12BTE1	12BTE2	12BUE1	12BUE2	12BUS1	12BUS2				12BVE1	12BVE2		
1	1SV20EC001	ABHISHEK B		25	21	20	14	11	8	15	10	10	2	2	2	2	2	18	7.2	7.2	7.2	7.2	7.2	10.2	28.2	24.2	18.2	18.2	23.8	
2	1SV20EC002	ANGANA A		8	8	14	2	6	2	3	26	10	2	2	2	2	2	11	2.2	2.2	2.2	2.2	2.2	10.2	12.2	12	18.2	14.2	18.1	
3	1SV20EC003	DRUMKA S		16	12	10	11	4	8	8	15	7	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	10.2	15.2	12.2	19.2	13.2	14.3	
4	1SV20EC004	CHITRASHREE H.K.		21	13	18	12	8	7	8	10	8	2	2	2	2	2	23	4.8	4.8	4.8	4.8	4.8	14.8	21.8	12.8	15.8	14.8	15.1	
5	1SV20EC005	DARSHAN M R		11	14	18	3	6	8	8	16	2	2	2	2	2	2	31	4.2	4.2	4.2	4.2	4.2	14.2	18.2	13.2	11.2	8.2	13.9	
6	1SV20EC006	GAGANASHREE H.S.		11	14	24	7	4	5	9	12	12	2	2	2	2	2	12	2.4	2.4	2.4	2.4	2.4	8.4	12.4	13.4	15.4	15.4	14.7	
7	1SV20EC007	HARSHITH M J		20	8	18	10	5	5	3	12	7	2	2	2	2	2	31	6.2	6.2	6.2	6.2	6.2	13.2	18.2	11.2	11.2	11.2	14.5	
8	1SV20EC008	HARSHITHA S		28	20	30	18	13	10	10	20	10	2	2	2	2	2	31	7.4	7.4	7.4	7.4	7.4	12.4	12.4	18.4	24.4	19.4	18.1	
9	1SV20EC009	OMTIYAZ PASHA		8	10	25	4	2	5	5	16	10	2	2	2	2	2	8	7.6	7.6	7.6	7.6	7.6	11.6	18.6	14.6	15.6	15.6	11.1	
10	1SV20EC010	MEDHANA N G		21	8	18	10	11	8	2	8	10	2	2	2	2	2	31	4.2	4.2	4.2	4.2	4.2	12.2	15.2	8.2	11.2	14.2	12.8	
11	1SV20EC011	MUKTHA H.S.		28	40	40	20	18	20	20	20	20	2	2	2	2	2	44	8.8	8.8	8.8	8.8	8.8	19.8	49.8	39.8	32.8	30.8	21.2	
12	1SV20EC012	NAGARAJ		14	18	13	10	4	8	8	7	8	2	2	2	2	2	11	2.2	2.2	2.2	2.2	2.2	8.2	12.2	13.2	11.2	10.2	11.2	
13	1SV20EC013	PRATHIKSHA R		14	20	31	3	11	12	8	12	18	2	2	2	2	2	22	4.4	4.4	4.4	4.4	4.4	12.4	18.4	14.4	18.4	15.4	15.5	
14	1SV20EC014	R.M. SUREETRA		40	40	40	20	20	20	20	20	20	2	2	2	2	2	28	5.6	5.6	5.6	5.6	5.6	12.6	42.6	22.6	12.6	12.6	16.4	
15	1SV20EC015	RACHANA N		22	27	38	17	5	11	16	18	14	2	2	2	2	2	38	7.2	7.2	7.2	7.2	7.2	14.2	21.2	15.2	15.2	15.2	12.2	
16	1SV20EC016	S PAVITHRA		38	38	40	18	20	18	20	20	20	2	2	2	2	2	27	5.4	5.4	5.4	5.4	5.4	12.4	46.4	22.4	12.4	12.4	15.8	
17	1SV20EC017	SHERIJA DUDAK		39	38	40	20	18	20	18	20	20	2	2	2	2	2	38	7	7	7	7	7	14	48	18	18	18	11.8	
18	1SV20EC018	YASHAS K R		18	21	22	8	8	10	11	4	18	2	2	2	2	2	23	4.6	4.6	4.6	4.6	4.6	11.6	15.6	12.6	15.6	15.6	11.4	
19	1SV20EC019	HARSHITHA		32	15	18	18	18	8	10	12	7	2	2	2	2	2	24	4.8	4.8	4.8	4.8	4.8	11.8	12.8	16.8	18.8	13.8	12.4	
20	1SV21EC400	MANOJ M R		18	14	18	12	8	8	8	11	7	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	11.2	12.2	15.2	12.2	11.2	12.5	
																								17.28	26.88	17.73	21.93	19.08		
																									18.58%	20.64%	11.14%	11.95%	15.78%	

Prathiksha R
COURSE INSTRUCTOR

A.S
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Dept of E&C
SIET, Tumkur-6

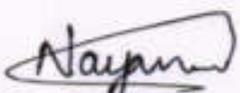
Kundur Ramayya
PRINCIPAL
SIET, TUMAKURU

**Department of Electronics & Communication Engg****Course Outcomes and CO-PO Articulation Matrix****2021-22 Scheme****Semester-III**

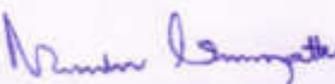
Subject: COMPUTER ORGANISATION ARCHITECTURE										Subject Code: 18EC35			
PROF. NAYANA M S													
Course Outcomes													
CO1	Explain the basic organization of a computer system.												
CO2	Explain different ways of accessing an input / output device including interrupts.												
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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SIET, Tumkur-6


PRINCIPAL
SIET, TUMKURU.

Roll No	UEN	SUB CODE Name	2021-2022 COO					SEM - I SEM					PROF. PROF. SKILLS W.E					SUB	COMPUTER DRIVEN SAT. QLS ARCHITECTURE										TOTAL AVERAGE
			T1			T2		T3		T4		T5		T6		T7			T8		T9		T10		T11		T12		
			T1(A)	T1(B)	T1(C)	CO1-25	CO3-25	CO2-25	CO3-25	CO4-25	CO4-25	CO1-2	CO2-2	CO3-2	CO4-2	CO5-2	88		CO1-12	CO2-12	CO3-12	CO4-12	CO5-12	CO1-25	CO2-44	CO3-25	CO4-25	CO5-25	
1	ISV20EC001	ABHIRAM B	33	28	20	17	16	16	12	10	10	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	22.2	38.2	18.2	16.2	26.2	23.2	
2	ISV20EC002	ANJANA A	10	2	20	6	4	2	0	18	4	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	20.2	12.2	6.2	22.2	20.2	17.2		
3	ISV20EC003	BHUMIKA S	26	26	26	20	6	12	14	14	12	2	2	2	2	29	5.6	5.6	5.6	5.6	5.6	19.6	25.6	21.6	21.6	19.6	16.3		
4	ISV20EC004	CHITRASHREE H K	17	30	30	11	6	12	16	10	20	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	17.2	24.2	24.2	16.2	26.2	20.5		
5	ISV20EC005	DARSHAN M R	20	6	13	14	6	5	1	10	3	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	12.2	17.2	7.2	15.2	6.2	16.5		
6	ISV20EC006	DAGANASHREE H K	16	23	23	10	6	13	10	11	12	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	15.2	28.2	10.2	17.2	18.2	15.7		
7	ISV20EC007	HARSHITH M J	20	36	17	18	8	18	18	11	6	2	2	2	2	24	4.8	4.8	4.8	4.8	4.8	24.8	32.8	24.8	17.8	12.8	18.8		
8	ISV20EC008	HARSHITHA S	36	37	31	20	16	17	20	16	15	2	2	2	2	60	10	10	10	10	10	28	45	32	26	27	26.3		
9	ISV20EC009	IMTIYAZ PASHA	30	28	23	19	11	16	12	15	6	2	2	2	2	15	7.6	7.6	7.6	7.6	7.6	20.6	36.6	21.6	24.6	17.6	26.1		
10	ISV20EC010	MEGHANA N G	32	33	30	20	12	17	16	10	20	2	2	2	2	33	6.6	6.6	6.6	6.6	6.6	20.6	37.6	24.6	18.6	18.6	25.1		
11	ISV20EC011	MUKTHA H K	34	37	35	20	14	19	18	16	19	2	2	2	2	34	6.8	6.8	6.8	6.8	6.8	22.8	41.8	26.8	24.8	27.8	27.4		
12	ISV20EC012	NAGARAJ	17	16	0	12	5	8	6	0	0	2	2	2	2	6	1.6	1.6	1.6	1.6	1.6	6.6	16.6	11.6	6.6	3.6	16.6		
13	ISV20EC013	PRATHIKSHA B	32	40	36	20	12	20	20	16	20	2	2	2	2	36	7.2	7.2	7.2	7.2	7.2	21.2	41.2	29.2	25.2	29.2	39		
14	ISV20EC014	R M SUCHITRA	32	38	33	20	12	20	18	16	17	2	2	2	2	28	5.6	5.6	5.6	5.6	5.6	19.6	39.6	23.6	23.6	24.6	27.9		
15	ISV20EC015	RACHANA N	34	37	27	18	16	19	18	14	13	2	2	2	2	38	7.6	7.6	7.6	7.6	7.6	25.6	44.6	27.6	25.6	22.6	27.7		
16	ISV20EC016	S PAVITHRA	32	34	40	20	12	20	14	20	20	2	2	2	2	36	7.2	7.2	7.2	7.2	7.2	21.2	41.2	23.2	29.2	19.2	28.6		
17	ISV20EC017	SHOBHA HUGAB	32	30	23	19	13	12	16	16	7	2	2	2	2	44	8.8	8.8	8.8	8.8	8.8	23.8	35.8	28.8	26.8	17.8	27.7		
18	ISV20EC018	YASHAS K R	27	26	27	16	11	18	8	14	13	2	2	2	2	27	5.4	5.4	5.4	5.4	5.4	18.4	36.4	21.4	21.4	20.4	24.3		
19	ISV20EC019	HARSHITHA	40	24	18	20	20	14	10	8	8	2	2	2	2	37	7.4	7.4	7.4	7.4	7.4	25.4	43.4	19.4	18.4	18.4	24.1		
20	ISV21EC400	MANOJ M R	30	21	22	14	16	15	8	16	4	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	22.2	37.2	12.2	24.2	10.2	23.5		
																						19.12	33.75	20.62	20.97	19.47			
																						65.92%	76.75%	71.75%	72.31%	67.14%			

Atayan
COURSE INSTRUCTOR

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Manjunath
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**Department of Electronics & Communication Engg**
Course Outcomes and CO-PO Articulation Matrix**2021-22 Scheme****Semester-III**

Subject: DIGITAL SYATEM DESIGN										Subject Code: 18EC34			
PROF. NAYANA M S													
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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SIET**PRINCIPAL**
SIET, TUMAKURU**PRINCIPAL**

Roll No	SRN	NAME	2021-2022 002					SEM - I SEM		PROG. PROJ. DAYANA M S		SUR		TOTAL MARKS OBTAIN										TOTAL AVERAGE																										
			T1		T2		T3		ASSIGNMENT (VS)		SEE		SEE WAYE					TOP																																
			T1001	T1201	T1301	CO1-18	CO2-15	CO3-18	CO3-19	CO4-18	CO5-18	CO1-2	CO2-2	CO3-2	CO4-2	CO5-2	80	CO1-12	CO2-12	CO3-12	CO4-12	CO5-12	CO1-25		CO2-24	CO3-25	CO4-25	CO5-25																						
1	1SV20EC001	ABDUSHEK B	27	12	14	12	16	16	2	12	0	3	3	2	2	2	40	32	32	32	32	32	30.3	30.3	32	17.3	32	38.4																						
2	1SV20EC002	ANJANA A	4	6	20	0	4	6	0	14	6	2	2	2	2	2	25	42	42	42	42	42	30.3	16.3	6.3	20.3	12.3	24.7																						
3	1SV20EC003	BHASKAR S	8	13	22	0	6	11	2	11	11	2	2	2	2	9	18	18	18	18	18	12.6	23.6	1.6	14.6	14.6	23.7																							
4	1SV20EC004	CHETRAASHREE H K	8	8	26	6	0	6	0	17	6	2	2	2	2	2	21	42	42	42	42	42	6.2	14.2	6.2	23.2	15.7																							
5	1SV20EC005	DARSHAN M R	10	8	3	10	0	0	0	8	6	2	2	2	2	2	26	52	52	52	52	52	7.2	12.2	7.2	10.2	10.8																							
6	1SV20EC006	GAGANASHREE H K	8	13	11	3	0	9	4	11	0	2	2	2	2	4	28	28	28	28	28	2.8	11.8	6.8	13.8	3.8	9.2																							
7	1SV20EC007	HARSHITH M J	20	12	23	10	10	0	0	16	8	2	2	2	2	2	20	64	64	64	64	64	18.4	26.4	14.4	13.4	16.4	11.6																						
8	1SV20EC008	HARSHITHA S	20	20	20	14	0	14	16	6	16	2	2	2	2	2	26	56	56	56	56	56	18.6	27.6	12.6	12.6	15.6	15.6																						
9	1SV20EC009	IMTIYAZ PASHA	16	11	10	0	10	10	1	16	4	2	2	2	2	2	11	7.6	7.6	7.6	7.6	7.6	24.6	34.6	10.6	34.6	19.6	20.7																						
10	1SV20EC010	MEGHANA N G	26	10	10	16	14	10	0	0	10	2	2	2	2	2	22	44	44	44	44	44	30.4	30.4	6.4	6.4	16.4	26.6																						
11	1SV20EC011	MUKTHA H K	24	8	18	12	12	6	0	0	16	2	2	2	2	2	42	64	64	64	64	64	22.4	27.4	10.4	30.4	25.4	17.6																						
12	1SV20EC012	NAGARAJ	0	10	21	0	0	7	3	11	10	2	2	2	2	2	9	18	18	18	18	18	3.8	30.8	6.8	14.8	9.8	14.4																						
13	1SV20EC013	PRATHIBHA R	14	14	26	12	2	14	0	16	16	2	2	2	2	2	14	28	28	28	28	28	6.8	20.8	4.8	16.8	14.8	11.7																						
14	1SV20EC014	R M SUDHRA	21	26	26	16	6	11	16	16	16	2	2	2	2	2	47	64	64	64	64	64	17.4	28.4	16.4	26.4	21.4	18.7																						
15	1SV20EC015	RACHANA N	20	21	32	16	16	16	6	16	16	2	2	2	2	2	36	72	72	72	72	72	18.2	34.2	15.2	26.2	24.2	23.7																						
16	1SV20EC016	S PAVITHRA	30	34	24	16	16	16	16	12	12	2	2	2	2	2	36	7	7	7	7	7	24	39	28	21	21	24																						
17	1SV20EC017	NEERMA BHAGAT	16	12	20	12	4	4	6	10	10	2	2	2	2	2	46	62	62	62	62	62	15.2	19.2	19.2	21.2	21.2	23.8																						
18	1SV20EC018	YASHAS K R	12	16	4	12	0	13	6	2	2	2	2	2	2	11	24	24	24	24	24	3.4	16.4	11.4	7.4	7.4	14.4																							
19	1SV20EC019	HARSHITHA	27	20	10	12	10	14	0	6	6	2	2	2	2	2	21	42	42	42	42	42	21.2	25.2	12.2	11.2	11.2	24.1																						
20	1SV21EC400	MANOJ M R	26	23	24	16	16	12	11	12	12	2	2	2	2	2	23	46	46	46	46	46	19.6	31.6	17.6	38.6	38.6	19.7																						
																						14.37	24.52	12.27	17.07	15.37																								
																						50.24%	55.75%	42.22%	18.86%	51.00%																								

COURSE INSTRUCTOR

Nayan

[Signature]
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 Dept of E&C
 S. I. Tumakuru-6

PRINCIPAL

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 PRINCIPAL
 SIET, TUMAKURU.

**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

SUBJECT	POWER ELECTRONICS AND INSTRUMENTATION	SUBJECT CODE	18EC36
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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. SANDHYA R											
BRANCH	ECE			ACADEMIC YEAR				2021-22				
COURSE	B.E	SEMESTER			III	SECTION			ECE			
SUBJECT	POWER ELECTRONICS AND INSTRUMENTATION					SUBJECT CODE			18EC36			
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

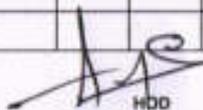
Sandhya
COURSE INSTRUCTOR

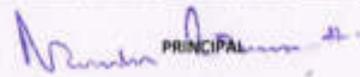
AS
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Dept of E&C
SIFT, Tumkur-3

Principal
PRINCIPAL
PRINCIPAL

Roll No	USN	SUB CODE	LBC36	2021-2022 OOD										SEM III SEM					PROF. PROF. SANDHYA R					SUB					TOTAL AVERAGE					
				T1			T2			T3				ASSIGNMENT 10/5					SEE					SEE MARKS						Final				
				T140	T240	T340	CO1-20	CO2-20	CO3-20	CO4-20	CO5-20	CO6-20	CO1-3	CO2-3	CO3-3	CO4-3	CO5-3	40	CO1-12	CO2-12	CO3-12	CO4-12	CO5-12	CO1-29	CO2-29	CO3-29	CO4-29	CO5-29						
1	1SV20EC001	ABHISHEK B	37	28	22	20	17	20	8	20	2	2	2	2	2	20	5.2	5.2	5.2	5.2	5.2	24.2	44.2	33.2	27.2	9.2	24							
2	1SV20EC002	ANGANA A	18	13	18	8	10	10	3	10	8	2	2	2	2	14	2.8	2.8	2.8	2.8	2.8	14.8	24.8	7.8	14.8	12.8	18.5							
3	1SV20EC003	BHUMIKA S	24	23	35	13	11	20	3	30	5	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	17.2	37.2	9.2	36.2	11.2	18.6							
4	1SV20EC004	CHITRASHREE H K	25	21	30	7	18	10	14	15	15	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	24.2	34.2	17.2	21.2	21.2	22.9							
5	1SV20EC005	DARSHAN M R	11	13	14	10	1	10	8	10	4	2	2	2	2	5	0	0	0	0	0	9	11	7	12	6	15.9							
6	1SV20EC006	GAGANASHREE H K	20	5	25	14	8	0	5	20	5	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	13.2	12.2	11.2	26.2	11.2	11.4							
7	1SV20EC007	HARSHITH M J	15	20	17	10	8	10	10	10	7	2	2	2	2	4	0.8	0.8	0.8	0.8	0.8	7.8	17.8	12.8	12.8	9.8	13.4							
8	1SV20EC008	HARSHITHA S	34	28	27	20	14	20	8	20	7	2	2	2	2	40	8.8	8.8	8.8	8.8	8.8	24.8	44.8	16.8	30.8	17.8	18.1							
9	1SV20EC009	EMTIYAZ PASHA	18	4	18	8	8	4	0	10	8	2	2	2	2	30	7.8	7.8	7.8	7.8	7.8	18.8	22.8	9.8	19.8	17.8	22.2							
10	1SV20EC010	MEGHANA N G	18	21	21	17	2	20	1	20	1	2	2	2	2	30	8	8	8	8	8	10	30	9	38	9	17.4							
11	1SV20EC011	MUKTHA H K	40	40	20	20	20	20	20	0	20	2	2	2	2	52	10.4	10.4	10.4	10.4	10.4	32.4	52.4	32.4	32.4	32.4	24.8							
12	1SV20EC012	NAGARAJ	6	0	26	3	6	0	0	20	0	2	2	2	2	6	1.2	1.2	1.2	1.2	1.2	9.2	9.2	5.2	23.2	9.2	21							
13	1SV20EC013	PRATHIKSHA R	37	20	24	20	17	10	10	20	4	2	2	2	2	22	4.4	4.4	4.4	4.4	4.4	23.4	33.4	16.4	26.4	10.4	25.8							
14	1SV20EC014	B M SUCHITRA	40	40	50	20	20	20	20	30	20	2	2	2	2	36	7.2	7.2	7.2	7.2	7.2	29.2	49.2	29.2	39.2	29.2	28.8							
15	1SV20EC015	RACHANA N	30	20	25	13	17	10	10	20	5	2	2	2	2	30	8	8	8	8	8	25	35	18	28	13	20.5							
16	1SV20EC016	S PAVITHRA	40	40	40	20	20	20	20	20	20	2	2	2	2	32	8.4	8.4	8.4	8.4	8.4	28.4	48.4	28.4	28.4	28.4	28.1							
17	1SV20EC017	SHOBHA HUGAR	40	40	30	20	20	20	20	10	20	2	2	2	2	41	8.2	8.2	8.2	8.2	8.2	30.2	50.2	30.2	20.2	30.2	32.3							
18	1SV20EC018	VASHAS K R	38	4	20	20	18	1	3	10	10	2	2	2	2	23	4.8	4.8	4.8	4.8	4.8	24.8	25.8	9.8	16.8	16.8	25.4							
19	1SV20EC019	HARSHITHA	32	24	18	18	18	20	4	18	8	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	22.2	42.2	30.2	16.2	14.2	18.8							
20	1SV21EC400	MANOJ M R	31	25	25	18	15	20	5	20	5	2	2	2	2	31	8.2	8.2	8.2	8.2	8.2	23.2	43.2	11.2	28.2	13.2	22.8							
																						69.22%	76.07%	52.80%	80.50%	54.55%								

Sandya
COURSE INSTRUCTOR


HOD
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Dept of E&C
Sri T. Tumkur-8


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PRINCIPAL
Sri T. Tumkur



SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

DEPARTMENT OF ECE

SUBJECT	SUBJECT CODE	18ESS1
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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

- 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	Mr. Charan											
BRANCH	ECE			ACADEMIC YEAR				2021-22				
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	64.32											1.93	
CO2	61.46											1.84	
CO3	66.84								1.34	1.34		2.01	
CO4	82.82											2.48	
CO5	87.82											2.63	
AVERAGE	72.65								1.34	1.34		2.17	
FINAL ATTAINMENT LEVEL													1.61

Charan
FACULTY

AS
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Dept of E&C
SIET, Tumkur-6

PRINCIPAL
Prakash Kumar
PRINCIPAL
SIET., TUMAKURU.

**5th Semester
Technological Innovation Management And Entrepreneurship**

AY - 2021-22

SEM: U	IA TEST 1			IA TEST 2			IA TEST 3			Assignment and Seminar					SEE					Total					% of Individual CO				
	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					
1SV18EC001	8	7	15	0	0	0	12	16	28	2	2	2	2	2	4.8	4.8	4.8	4.8	4.8	15	14	7	19	23	43.5	40.6	20	38.4	78.6
1SV18EC003	9	5	14	5	6	11	15	9	24	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	15	11	11	27	15	44.7	32.9	32.9	55.5	52.4
1SV19EC001	18	12	30	16	14	30	16	19	35	2	2	2	2	2	9	9	9	9	9	29	23	27	41	30	85.3	67.6	79.4	83.7	103
1SV19EC002	12	4	16	15	10	25	12	17	29	2	2	2	2	2	9.4	9.4	9.4	9.4	9.4	23	15	26	33	28	68.8	45.3	77.6	68.2	97.9
1SV19EC003	16	18	34	20	17	37	19	19	38	2	2	2	2	2	9.4	9.4	9.4	9.4	9.4	27	29	31	47	30	80.6	86.5	92.4	96.7	105
1SV19EC005	19	17	36	16	19	35	18	20	38	2	2	2	2	2	8	8	8	8	8	29	27	26	47	30	85.3	79.4	76.5	95.9	103
1SV19EC006	14	11	25	19	17	36	19	16	35	2	2	2	2	2	7.2	7.2	7.2	7.2	7.2	23	20	28	45	25	68.2	59.4	82.9	92.2	86.9
1SV19EC007	11	10	21	0	0	0	20	14	34	2	2	2	2	2	7.2	7.2	7.2	7.2	7.2	20	19	9	29	23	59.4	56.5	27.1	59.6	80
1SV19EC008	16	20	36	18	17	35	19	19	38	2	2	2	2	2	9.4	9.4	9.4	9.4	9.4	27	31	29	47	30	80.6	92.4	86.5	96.7	105
1SV19EC009	18	8	26	12	8	20	16	13	29	2	2	2	2	2	2.4	2.4	2.4	2.4	2.4	22	12	16	28	17	65.9	36.5	48.2	58	60
1SV19EC010	0	0	0	11	17	28	13	16	29	2	2	2	2	2	2.2	2.2	2.2	2.2	2.2	4	4	15	34	20	12.4	12.4	44.7	69.8	69.7
1SV19EC011	16	17	33	17	18	35	20	17	37	2	2	2	2	2	7.8	7.8	7.8	7.8	7.8	26	27	27	48	27	75.9	78.8	78.8	97.6	92.4
1SV19EC012	17	15	32	19	17	36	18	19	37	2	2	2	2	2	7.6	7.6	7.6	7.6	7.6	27	25	29	45	29	78.2	72.4	84.1	91	98.6
1SV19EC013	15	14	29	18	20	38	19	18	37	2	2	2	2	2	6.6	6.6	6.6	6.6	6.6	24	23	27	48	27	69.4	66.5	78.2	97.1	91.7
1SV19EC014	14	18	32	19	13	32	20	16	36	2	2	2	2	2	6.2	6.2	6.2	6.2	6.2	22	26	27	41	24	65.3	77.1	80	84.1	83.4
1SV19EC015	12	20	32	11	26	37	19	18	37	2	2	2	2	2	9.2	9.2	9.2	9.2	9.2	23	31	22	56	29	68.2	91.8	65.3	115	101
1SV19EC016	12	8	20	12	19	31	20	14	34	2	2	2	2	2	7.2	7.2	7.2	7.2	7.2	21	17	21	48	23	62.4	50.6	62.4	98.4	80
1SV19EC017	20	11	31	20	17	37	18	20	38	2	2	2	2	2	9.6	9.6	9.6	9.6	9.6	32	23	32	47	32	92.9	66.5	92.9	95.1	109
1SV19EC018	11	20	31	19	20	39	18	20	38	2	2	2	2	2	10	10	10	10	10	23	32	31	50	32	67.6	94.1	91.2	102	110
1SV19EC019	18	20	38	16	19	35	20	18	38	2	2	2	2	2	9.6	9.6	9.6	9.6	9.6	30	32	28	51	30	87.1	92.9	81.2	103	102
1SV19EC021	19	7	26	19	16	35	19	16	35	2	2	2	2	2	6.6	6.6	6.6	6.6	6.6	28	16	28	44	25	81.2	45.9	81.2	89	84.8
1SV19EC022	15	10	25	17	16	33	19	15	34	2	2	2	2	2	9	9	9	9	9	26	21	28	46	26	76.5	61.8	82.4	93.9	89.7
1SV19EC023	16	15	31	12	20	32	16	20	36	2	2	2	2	2	7.8	7.8	7.8	7.8	7.8	26	25	22	46	30	75.9	72.9	64.1	93.5	103
1SV19EC024	11	11	22	0	0	0	15	11	26	2	2	2	2	2	6.6	6.6	6.6	6.6	6.6	20	20	9	24	20	57.6	57.6	25.3	48.2	67.6
1SV19EC025	12	19	31	15	16	31	16	19	35	2	2	2	2	2	8.4	8.4	8.4	8.4	8.4	22	29	25	42	29	65.9	86.5	74.7	86.5	101
1SV19EC027	16	14	30	19	19	38	18	19	37	2	2	2	2	2	8.2	8.2	8.2	8.2	8.2	26	24	29	47	29	77.1	71.2	85.9	96.3	101
1SV19EC028	13	12	25	7	9	16	17	11	28	2	2	2	2	2	7.4	7.4	7.4	7.4	7.4	22	21	16	35	20	65.9	62.9	48.2	72.2	70.3
1SV19EC029	15	16	31	16	14	30	19	16	35	2	2	2	2	2	6.4	6.4	6.4	6.4	6.4	23	24	24	41	24	68.8	71.8	71.8	84.5	84.1
1SV19EC030	0	3	3	0	0	0	11	10	21	2	2	2	2	2	4.8	4.8	4.8	4.8	4.8	7	10	7	18	17	20	28.8	20	36.3	57.9
1SV19EC031	0	0	0	9	6	15	10	15	25	2	2	2	2	2	0	0	0	0	0	2	2	11	18	17	5.88	5.88	32.4	36.7	58.6
1SV19EC032	8	12	20	16	18	34	19	14	33	2	2	2	2	2	6.6	6.6	6.6	6.6	6.6	17	21	25	46	23	48.8	60.6	72.4	93.1	77.9
1SV20EC400	15	6	21	18	14	32	20	13	33	2	2	2	2	2	8.4	8.4	8.4	8.4	8.4	25	16	28	44	23	74.7	48.2	83.5	90.6	80.7
1SV20EC401	15	16	31	16	20	36	18	19	37	2	2	2	2	2	6	6	6	6	6	23	24	24	46	27	67.6	70.6	70.6	93.9	93.1
1SV20EC402	15	16	31	15	16	31	19	16	35	2	2	2	2	2	7.6	7.6	7.6	7.6	7.6	25	26	25	45	26	72.4	75.3	72.4	91	88.3
1SV19EC033	0	0	0	14	20	34	16	20	36	2	2	2	2	2	8.6	8.6	8.6	8.6	8.6	11	11	25	47	31	31.2	31.2	72.4	95.1	106
Total	446	412	858	476	498	974	603	572	1175	70	70	70	70	70	249	249	249	249	249	765	731	795	1420	891	2251	2151	2339	2899	3074
No. of students	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
Average	12.7	11.8	24.514	13.6	14.2	27.829	17.2	16.3	33.571	2	2	2	2	2	7.13	7.13	7.13	7.13	7.13	21.9	20.9	22.7	40.6	25.5	64.3	61.5	66.8	82.8	87.8

Sri Chandra

AP

PRINCIPAL
SIET., TUMAKURU

**DEPARTMENT OF ELECTRONICS & COMMUNICATION**

EM: V

ACADEMIC YEAR:2021-2022

SUBJECT	PRINCIPLES OF COMMUNICATION STSYSTEMS	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

- 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.

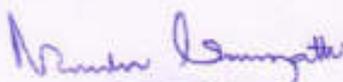
COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	Prof.AIJAZ AHAMED SHARIEF											
BRANCH	ECE			ACADEMIC YEAR				2021-2022				
COURSE	B.E	SEMESTER		V	SECTION			A				
SUBJECT	PRINCIPLES OF COMMUNICATION STSTEMS						SUBJECT CODE		18EC53			
CO & PO MAPPING												
	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	58.94	1.17	1.17	1.76		1.17							
CO2	57.53	1.15	1.15	1.72									
CO3	67.68	1.35	1.35										
CO4	72.30	1.44	1.44										
CO5	59.69	1.19	1.19			1.19							
AVERAGE	63.22	1.26	1.26	1.74		1.18							
FINAL ATTAINMENT LEVEL													1.36


COURSE INSTRUCTOR


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PRINCIPAL

Sl. No	Roll No	Date	Session I		Session II		Session III		Session IV		Session V		Session VI		Session VII		Session VIII		Session IX		Session X		Grand Total	Average																											
			Theory		Practical		Theory		Practical		Theory		Practical		Theory		Practical		Theory		Practical																														
			Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4																													
ISV19EC001	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION

SUBJECT	INFORMATION THEORY AND CODING	SUBJECT CODE	18EC54
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COURSE OUTCOME:

Course Outcomes or COs

After studying this course, students will be able to:

CO1: Explain concept of Dependent & Independent Source, measure of information, Entropy, Rate of information and Order of a source

CO2: Represent the information using Shannon Encoding, Shannon Fano, Prefix and Huffman Encoding Algorithms

CO3: Model the continuous and discrete communication channels using input, output and joint probabilities

CO4: Determine a codeword comprising of the check bits computed using Linear Block codes, cyclic codes & convolutional codes

CO5: Design the encoding and decoding circuits for Linear Block codes, cyclic codes, convolutional codes, BCH and Golay code

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	DR.LOKESH B S											
BRANCH	ECE			ACADEMIC YEAR				2021-22				
COURSE	B.E	SEMESTER			V	SECTION			ECE			
SUBJECT	INFORMATION THEORY AND CODING					SUBJECT CODE			18EC54			
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
18EC54.1	3	2	3	2	3	3	-	-	-	-	3	3
18EC54.2	3	3	3	2	3	2	-	-		-	3	2
18EC54.3	3	3	3	2	3	3					2	3
18EC54.4	3	3	3	2	3	3					3	3
18EC54.5	3	3	3	2	3	3					3	3
Avg. Mapping	3	2.8	3	2	3	2.8					2.8	2.8
OVERALL MAPPING OF SUBJECT												2.77

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	68.62	2.05	1.37	2.05	1.37	2.05	2.05	-	-	-	-	2.05	2.05
CO2	71.63	2.14	2.14	2.14	1.43	2.14	1.44	-	-	-	-	2.14	1.43
CO3	67.09	2.01	2.01	2.01	1.34	2.01	2.01					1.34	2.01
CO4	71.96	2.15	2.15	2.15	1.43	2.15	2.15					2.15	2.15
CO5	70.46	2.11	2.11	2.11	1.40	2.11	2.11					2.11	2.11
AVERAGE	69.95	2.09	1.95	2.09	1.39	2.09	1.95					1.95	1.95
FINAL ATTAINMENT LEVEL													1.93

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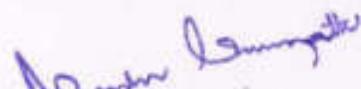
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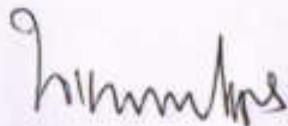
[Handwritten Signature]
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Faculty Name: Dr. Lokesh B S

SLNO	Academic year	SEM CODE - ECE	SEM			Total strength	Subject: INFORMATION THEORY & CODING										Subject Code		ISEC 54					Total COs ATTAINMENT					SEE Tot			
			2021-22	SEM	V		IA TEST I (30%)			IA TEST II (30%)			ASSIGNMENT / QUIZ (30%)				SEE MARKS (%)			%												
	UNN	COI	COII	TOTAL	COI	COII	TOTAL	COI	COII	TOTAL	COI	COII	COIII	COIV	COV	COI-20	COI-20	COI-20	COI-20	COI-20	COI-20	COI-20	COI-20	COI-20	COI-20	COI-20	COI-20	COI-20	COI-20	COI-20	COI-20	COI-20
1	19V19C001	2	2	5	11	11	22	8	7	15	2	2	2	2	2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
2	19V19C003	15	14	29	3	3	6	9	8	17	2	2	2	2	2	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	
3	19V19C001	15	15	30	15	15	30	13	13	26	2	2	2	2	2	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	
4	19V19C001	9	8	17	9	9	18	12	11	23	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	
5	19V19C003	15	15	30	15	15	30	13	14	27	2	2	2	2	2	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
6	19V19C005	13	13	26	13	14	27	13	14	27	2	2	2	2	2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	
7	19V19C006	14	13	27	15	15	30	15	15	30	2	2	2	2	2	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
8	19V19C007	7	7	14	9	9	18	8	7	15	2	2	2	2	2	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	
9	19V19C008	13	13	26	15	15	30	12	12	24	2	2	2	2	2	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	
10	19V19C009	10	10	20	10	9	19	9	8	17	2	2	2	2	2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	
11	19V19C010	9	9	18	15	15	30	8	7	15	2	2	2	2	2	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
12	19V19C011	15	15	30	15	15	30	14	13	27	2	2	2	2	2	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
13	19V19C012	15	15	30	15	15	30	15	15	30	2	2	2	2	2	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	
14	19V19C013	14	14	28	9	9	18	13	13	26	2	2	2	2	2	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
15	19V19C014	15	15	30	15	14	29	15	15	30	2	2	2	2	2	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	
16	19V19C015	15	15	30	15	15	30	15	15	30	2	2	2	2	2	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	
17	19V19C016	15	14	29	13	12	25	15	15	30	2	2	2	2	2	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	
18	19V19C017	15	15	30	15	15	30	15	15	30	2	2	2	2	2	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	
19	19V19C018	13	13	26	8	8	16	13	13	26	2	2	2	2	2	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	
20	19V19C019	14	14	28	12	12	24	15	15	30	2	2	2	2	2	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	
21	19V19C021	12	11	23	12	12	24	13	13	26	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
22	19V19C022	15	15	30	12	12	24	13	13	26	2	2	2	2	2	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	
23	19V19C023	12	10	22	8	7	15	15	15	30	2	2	2	2	2	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	
24	19V19C024	2	2	4	10	10	20	14	14	28	2	2	2	2	2	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
25	19V19C025	12	11	23	14	13	27	15	15	30	2	2	2	2	2	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	
26	19V19C027	15	15	30	15	15	30	15	15	30	2	2	2	2	2	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	
27	19V19C028	4	4	8	4	4	8	12	11	23	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
28	19V19C029	10	10	20	12	11	23	12	12	24	2	2	2	2	2	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	
29	19V19C030	8	7	15	7	7	14	10	10	20	2	2	2	2	2	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	
30	19V19C032	15	14	29	15	15	30	13	14	27	2	2	2	2	2	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	
31	19V19C034	9	9	18	8	8	16	11	9	20	2	2	2	2	2	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	
32	19V19C035	14	14	28	10	10	20	11	14	25	2	2	2	2	2	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	
33	19V19C040	15	14	29	12	12	24	15	15	30	2	2	2	2	2	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
34	19V19C042	12	12	24	13	14	27	13	13	26	2	2	2	2	2	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	
																	15.9	31.51765	18.45882	20.87059	20.41529	68.62066	71.63102	67.09938	71.9675456	70.46661						


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**Department of Electronics & Communication Engg****Course Outcomes and CO-PO Articulation Matrix****2018 Scheme****Semester-VII**

Subject: COMPUTER NETWORK											Subject Code: 18EC71		
FACULTY NAME: PROF.PRADEEPKUMAR S S													
Course Outcomes													
CO1	Understand the concepts of networking.												
CO2	Describe the various networking architectures.												
CO3	Identify the protocols and services of different layers												
CO4	Distinguish the basic network configurations and standards associated with each network.												
CO5	Analyze a simple network and measure its parameters.												
CO-PO Mapping													
COs	Pos												
	1	2	3	4	5	6	7	8	9	10	11	12	
CO1	2	2	1	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	1.8	1.8	2					1		1.2	

ATTAINMENT TABLE

COs	AVG	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	63.34%	1.26	1.26	0.63	0.63	0.63					0.63		0.63
CO2	71.53%	1.43	1.43	1.43	1.43	1.43					0.71		0.71
CO3	62.79%	1.25	1.25	1.25	1.25	1.25					1.25		0.62
CO4	61.52%	1.23	1.23	1.23	1.23	1.23					0.61		1.23
CO5	59.89%	1.19	1.19	1.19	1.19	1.19					0.59		0.59
AVERAGE		1.3	1.3	1.15	1.15	1.14					0.76		0.75
TOTAL ATTAINMENT													1.07

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Roll No.	LIBN	Name	2021-2022-000																				SUB-COMPUTER NETWORK					TOTAL AVERAGE														
			SEM I/SEM					PROG PRADE/PELUMAR I I					ASSIGNMENT 2021					SEE MARKS																								
			T1	T2	T3	CO1-20	CO2-20	CO3-20	CO4-20	CO5-20	CO1-2	CO2-2	CO3-2	CO4-2	CO5-2	80	CO1-12	CO2-12	CO3-12	CO4-12	CO5-12	CO1-20	CO2-20	CO3-21	CO4-20	CO5-21																
1	15V17BC012	RAVISH KUMAR	35	22	28	18	18	13	10	17	11	2	2	2	2	2	31	6.2	6.2	6.2	6.2	6.2	24.2	20.2	18.2	19.2	19.2	21.4														
2	15V18BC002	ANUSHA G S	40	32	38	20	20	20	12	20	18	2	2	2	2	2	26	7	7	7	7	7	39	28	31	28	27	24.1														
3	15V18BC004	BASAVARA	35	27	28	20	18	20	7	20	18	2	2	2	2	2	28	6.6	6.6	6.6	6.6	6.6	23.8	28.8	19.8	26.8	16.1	25.8														
4	15V18BC005	BHABATHI M	40	38	38	20	20	18	20	20	16	2	2	2	2	2	28	5	5	5	5	5	37	25	27	27	25	25.3														
5	15V18BC006	BHINDA K	40	40	38	20	20	20	20	20	16	2	2	2	2	2	28	5.2	5.2	5.2	5.2	5.2	27.2	27.2	27.2	27.2	28.2	28.1														
6	15V18BC007	CHANDANA D	40	40	40	20	20	30	20	20	20	2	2	2	2	2	31	6.2	6.2	6.2	6.2	6.2	28.2	28.2	29.2	26.2	28.2	27.3														
7	15V18BC008	DEVIKA L	40	38	38	20	20	18	20	20	16	2	2	2	2	2	29	6.2	6.2	6.2	6.2	6.2	26.2	24.2	26.2	26.2	24.2	26.8														
8	15V18BC009	GURANNAGOLUDA	37	40	40	20	17	20	20	20	20	2	2	2	2	2	44	8.8	8.8	8.8	8.8	8.8	27.8	30.8	30.8	30.8	30.8	27.8														
9	15V18BC010	KETANRAJ S	35	38	40	20	15	18	17	20	20	2	2	2	2	2	30	7.8	7.8	7.8	7.8	7.8	24.8	28.8	26.8	29.8	28.8	26.1														
10	15V18BC011	LATHASHREE K B	40	38	38	20	20	20	18	20	18	2	2	2	2	2	29	5.6	5.6	5.6	5.6	5.6	27.8	27.8	25.8	27.8	23.8	27.3														
11	15V18BC013	MOUNISH GOUDA	37	38	40	20	17	18	18	20	20	2	2	2	2	2	41	6.2	6.2	6.2	6.2	6.2	27.2	28.2	28.2	30.2	30.2	28.1														
12	15V18BC014	MOUNIKA Y	40	40	40	20	20	20	20	20	20	2	2	2	2	2	40	5.8	5.8	5.8	5.8	5.8	31.8	31.8	31.8	31.8	31.8	30.5														
13	15V18BC014	NAGESH D B	38	27	28	20	18	20	7	20	18	2	2	2	2	2	41	6.2	6.2	6.2	6.2	6.2	28.2	30.2	17.2	30.2	25.2	29														
14	15V18BC016	PRASHANTH M	40	28	40	20	20	20	8	20	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	26.2	26.2	24.2	26.2	26.2	25														
15	15V18BC018	RACHANA S B	32	38	38	17	15	20	18	20	18	2	2	2	2	2	23	4.8	4.8	4.8	4.8	4.8	21.8	26.8	24.8	26.8	22.8	24.3														
16	15V18BC019	SADAF NAZ	38	37	23	20	18	18	18	10	13	2	2	2	2	2	28	5.6	5.6	5.6	5.6	5.6	26.6	26.6	25.6	17.6	20.6	23.9														
17	15V18BC020	SAMEER RICHAGATTI	38	39	40	20	15	20	18	20	20	2	2	2	2	2	46	8	8	8	8	8	26	31	29	31	31	24.5														
18	15V18BC021	SHERISHA B T	35	38	38	20	10	18	20	20	18	2	2	2	2	2	36	7.2	7.2	7.2	7.2	7.2	29.2	27.2	28.2	29.2	27.2	28														
19	15V18BC022	SIDRAM	40	38	38	20	20	20	18	18	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	26.2	26.2	24.2	24.2	26.2	25.8														
20	15V18BC023	SRINIVAS C	40	36	40	20	20	20	18	20	20	2	2	2	2	2	33	6.6	6.6	6.6	6.6	6.6	28.6	28.6	24.6	26.6	28.6	26.4														
21	15V18BC024	YASHASWINI K Y	35	38	38	20	15	18	18	20	18	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	21.2	24.2	24.2	26.2	24.2	25.5														
22	15V19BC400	ARJUNA B N	40	30	38	20	20	20	10	20	18	2	2	2	2	2	26	5.2	5.2	5.2	5.2	5.2	27.2	27.2	17.2	27.2	25.2	24.4														
23	15V19BC401	JYOTHI R	40	38	40	20	20	18	18	20	20	2	2	2	2	2	30	6	6	6	6	6	28	27	27	28	28	26.2														
24	15V19BC402	MAHADEVAIAH M B	38	28	34	18	20	20	8	18	18	2	2	2	2	2	15	2.6	2.6	2.6	2.6	2.6	24.6	24.6	12.6	26.6	22.6	24.3														
25	15V19BC403	NAVYASHREE S M	40	30	20	20	20	20	18	11	8	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	26.2	26.2	23.2	17.2	15.2	21.2														
26	15V19BC404	PRAVTEEN C D	40	34	25	20	20	18	18	20	15	2	2	2	2	2	15	2.6	2.6	2.6	2.6	2.6	24.6	22.6	20.6	24.6	19.6	21.9														
27	15V19BC405	SWAMY M	33	36	33	20	13	18	18	20	13	2	2	2	2	2	31	6.2	6.2	6.2	6.2	6.2	21.2	27.2	27.2	28.2	21.2	23.7														
																						24.13170	25.25517	22.32414	25.08276	23.56553						87.09%	70.15%	62.01%	69.67%	65.46%						

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**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

SUBJECT	VLSI DESIGN	SUBJECT CODE	18EC72
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COURSE OUTCOME

CO1. Demonstrate understanding of MOS transistor theory, CMOS fabrication flow and technology scaling.

CO2. Draw the basic gates using the stick and layout diagrams with the knowledge of physical design aspects.

CO3. Demonstrate ability to design Combinational, sequential and dynamic logic circuits as per the requirements.

CO4. Interpret Memory elements along with timing considerations.

CO5. Interpret testing and testability issues in VLSI Design.

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	DR. UMESHA G B											
BRANCH	ECE			ACADEMIC YEAR				2021-22				
COURSE	B.E	SEMESTER	VII	SECTION			ECE					
SUBJECT	VLSI DESIGN					SUBJECT CODE			18EC72			
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	3	1	1								2
CO2	2	3	1	1								2
CO3	1	2	1	1								1
CO4	3	3	1	1								3
CO5	2	3	1	1								2
AVERAGE	2	2.8	1	1								2
OVERALL MAPPING OF SUBJECT												1.760

CO AND PO ATTAINMENT

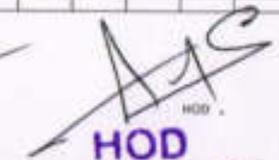
	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	80.41%	1.602	2.251	0.804	0.804								1.602
CO2	48.11%	0.962	1.347	0.481	0.481								0.962
CO3	41.63%	0.832	1.165	0.416	0.416								0.416
CO4	50.44%	1.2942	1.412	0.504	0.504								1.513
CO5	45.54%	1.1620	1.275	0.455	0.455								0.910
AVERAGE	53.22%	1.170	1.49	0.532	0.532								1.064
FINAL ATTAINMENT LEVEL													0.957

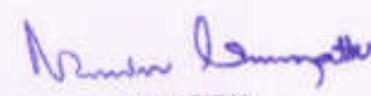
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Roll No.	User	Name	SEM-VI SEM TSP-DI-UMTESHA Q-B																				TOTAL AVERAGE																		
			2021-2022 OOD					ASSIGNMENT Q/B										Final																							
			T1	T2	T3	COI-26	COI-27	COI-28	COI-29	COI-30	COI-31	COI-32	COI-33	COI-34	COI-35	COI-36	COI-37	COI-38	COI-39	COI-40	COI-41	COI-42																			
1			33	25	33	15	15	4	14	14	2	2	2	2	2	25	3	3	3	3	3	20	15	8	21	19	18.8														
2			40	40	40	24	10	4	13	14	2	2	2	2	2	36	7.2	7.2	7.2	7.2	7.2	35.2	19.2	13.2	24.2	19.2	22.8														
3			40	40	40	11	7	9	10	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	17.2	19.2	12.2	18.2	16.2	16.2														
4			40	40	40	14	2	4	13	10	2	2	2	2	2	36	8.4	8.4	8.4	8.4	8.4	28.4	12.4	14.4	25.4	20.4	19.4														
5			40	40	40	20	15	15	15	15	2	2	2	2	2	34	4.8	4.8	4.8	4.8	4.8	30.8	21.8	21.8	23.8	21.8	22														
6			40	40	40	27	14	3	15	14	2	2	2	2	2	37	7.4	7.4	7.4	7.4	7.2	30.4	23.4	12.4	26.4	23.2	24.36														
7			40	40	40	20	12	12	7	4	2	2	2	2	2	22	4.4	4.4	4.4	4.4	4.4	32.4	15.4	15.4	15.4	15.4	15														
8			40	40	40	15	5	5	11	11	2	2	2	2	2	36	7.2	7.2	7.2	7.2	7.2	34.2	9.2	9.2	22.2	20.2	17														
9			38	35	38	29	15	15	15	15	2	2	2	2	2	24	4.8	4.8	4.8	4.8	4.8	35.8	21.8	21.8	23.8	21.8	25														
10			40	40	40	20	15	7	7	7	2	2	2	2	2	31	2.2	2.2	2.2	2.2	2.2	24.2	14.2	11.2	13.2	11.2	14.8														
11			40	40	40	17	8	9	9	9	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	25.2	14.2	14.2	8.2	8.2	11.2														
12			40	40	40	26	10	5	11	12	2	2	2	2	2	41	8.2	8.2	8.2	8.2	8.2	36.2	26.2	15.2	23.2	22.2	25.4														
13			40	40	40	29	12	14	15	15	2	2	2	2	2	33	4.8	4.8	4.8	4.8	4.8	30.8	18.8	20.8	23.8	21.8	24														
14			40	40	40	8	12	11	8	8	2	2	2	2	2	34	7.2	7.2	7.2	7.2	7.2	17.2	21.2	20.2	17.2	14.2	18														
15			40	40	40	24	15	10	15	14	2	2	2	2	2	31	4.2	4.2	4.2	4.2	4.2	30.2	18.2	18.2	23.2	20.2	21.2														
16			40	40	40	29	14	15	12	14	2	2	2	2	2	31	4.2	4.2	4.2	4.2	4.2	30.2	20.2	21.2	20.2	20.2	18.4														
17			20	40	40	20	12	14	15	15	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	35.2	19.2	25.2	22.2	21.2	22.8														
18			40	40	40	26	12	12	13	14	2	2	2	2	2	34	2.8	2.8	2.8	2.8	2.8	33.8	18.8	18.8	18.8	18.8	21.2														
19			30	30	30	25	10	15	14	15	2	2	2	2	2	9	1.8	1.8	1.8	1.8	1.8	22.8	18.8	18.8	18.8	18.8	21.6														
20			35	38	38	25	13	11	13	13	2	2	2	2	2	26	5.2	5.2	5.2	5.2	5.2	33.2	25.2	18.2	22.2	20.2	22.8														
21			40	40	40	21	4	4	5	5	2	2	2	2	2	35	5	5	5	5	5	28	12	12	15	8	14.2														
22			38	27	38	18	14	14	15	15	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	20.2	20.2	23.2	22.2	21.8														
23			40	40	40	23	13	14	12	12	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	29.2	19.2	20.2	20.2	18.2	21.4														
24			30	27	33	18	7	8	4	4	2	2	2	2	2	15	3	3	3	3	3	24	12	11	11	11	15.8														
25			40	40	40	30	15	15	15	15	2	2	2	2	2	8	1.5	1.5	1.5	1.5	1.5	23.5	18.5	18.5	23.5	18.5	22														
26			30	30	30	11	10	5	5	5	2	2	2	2	2	11	2.2	2.2	2.2	2.2	2.2	15.2	14.2	9.2	8.2	4.2	8.8														
27			38	38	38	26	13	14	15	15	2	2	2	2	2	31	2.2	2.2	2.2	2.2	2.2	30.2	17.2	18.2	21.2	18.2	21.2														
																					28.24%	17.51%	14.88%	18.13%	14.59%	20.41%	46.11%	41.67%	50.44%	50.54%											
																					80.47%	46.11%	41.67%	50.44%	50.54%																

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DEPARTMENT OF ELECTRONICS & COMMUNICATION

SEM: VII

ACADEMIC YEAR:2021-2022

SUBJECT	SATELLITE COMMUNICATION	SUBJECT CODE	18EC732
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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.

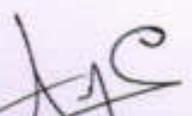
PROGRAM OUTCOMES

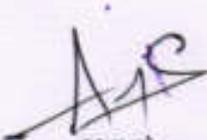
- P01 Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.
- P02 Problem analysis: Identify, formulate, research literature, and analyze complex engineering 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.

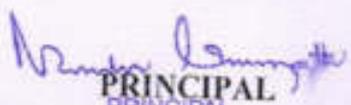
COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	Prof.AIJAZ AHAMED SHARIEF											
BRANCH	ECE			ACADEMIC YEAR				2021-2022				
COURSE	B.E	SEMESTER		VII	SECTION			A				
SUBJECT	SATELLITE COMMUNICATION					SUBJECT CODE		18EC732				
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	2										
CO2	2	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	74.66	1.49	1.49										
CO2	79.45	1.58	1.58										
CO3	79.01	1.58	1.58										
CO4	80.87	1.61	1.61	0.80									
CO5	82.94	1.65	1.65	0.82									
AVERAGE	79.38	1.58	1.58	0.81									
FINAL ATTAINMENT LEVEL													1.323


COURSE INSTRUCTOR


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Department of Electronics & Communication Engineering

Course Outcomes and CO-PO Articulation Matrix

2018 Scheme

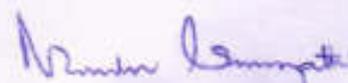
Semester-VII

Subject: MACHINE LEARNING PYTHON FACULTY NAME: PROF.RAGHAVENDRA D										Subject Code: 18EC745			
Course Outcomes													
CO1	Identify the problems in machine learning.												
CO2	Select supervised, unsupervised or reinforcement learning for problem-solving.												
CO3	Apply theory of probability and statistics in machine learning.												
CO4	Apply concept learning, ANN, Bayes classifier, k nearest neighbor.												
CO5	Perform statistical analysis of machine learning techniques.												
CO-PO Mapping													
COs	Pos												
	1	2	3	4	5	6	7	8	9	10	11	12	
CO1	2	2	1	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	1.8	1.8	2					1		1.2	

ATTAINMENT TABLE													
COs	AVG	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	63.43%	1.26	1.26	0.63	0.63	1.26					0.63		0.63
CO2	63.14%	1.26	1.26	1.26	1.26	1.26					0.63		0.63
CO3	67.74%	1.27	1.27	1.27	1.27	1.27					1.27		0.63
CO4	67.26%	1.34	1.34	1.34	1.34	1.34					0.61		0.67
CO5	67.45%	1.34	1.34	1.34	1.34	1.34					0.67		0.67
AVERAGE		1.29	1.29	1.16	1.16	1.29					0.76		0.64
TOTAL ATTAINMENT													1.08


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2021-2022 COO

SEM: VI SEM PROF. RAGHAVENDRA D

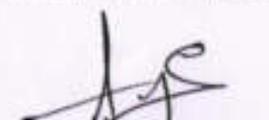
MACHINE LEARNING PYTHON

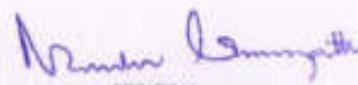
Roll No.	USN	Name	T1			T2			T3			ASSIGNMENT 10/5					SEE	SEE MARKS					Final					TOTAL AVERAGE
			T1	T2	T3	CO1-20	CO2-20	CO3-20	CO3-20	CO4-20	CO5-20	CO1-2	CO2-2	CO3-2	CO4-2	CO5-2		CO1-12	CO2-12	CO3-12	CO4-12	CO5-12	CO1-20	CO2-20	CO3-21	CO4-20	CO5-21	
1	15V17EC012	RAVESH KUMAR	36	36	37	18	18	20	18	17	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	24.2	26.2	21.2	23.2	26.2	24.2
2	15V18EC002	ANUSHA G S	37	34	40	18	18	14	20	20	20	2	2	2	2	2	27	5.4	5.4	5.4	5.4	5.4	26.4	21.4	27.4	27.4	27.4	25.1
3	15V18EC004	BASAVARAJ	32	40	38	18	14	20	20	30	18	2	2	2	2	2	27	5.4	5.4	5.4	5.4	5.4	22.4	27.4	27.4	27.4	25.6	25.6
4	15V18EC005	BHARATHI M	38	38	38	18	20	20	18	18	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	26.2	26.2	24.2	25.2	26.2	25.3
5	15V18EC006	BHUNDA K	37	38	40	20	17	20	18	20	20	2	2	2	2	2	28	5.6	5.6	5.6	5.6	5.6	24.6	27.6	25.6	27.6	27.6	26.1
6	15V18EC007	CHANDANA D	38	30	40	20	18	18	20	20	20	2	2	2	2	2	23	4.6	4.6	4.6	4.6	4.6	23.6	18.6	26.6	26.6	26.6	25.5
7	15V18EC008	DEVIKA L	38	40	40	20	18	20	20	20	20	2	2	2	2	2	34	6.8	6.8	6.8	6.8	6.8	24.8	28.8	28.8	28.8	28.8	26.3
8	15V18EC009	GURANNAGOUDA	38	37	40	20	19	18	18	20	20	2	2	2	2	2	35	7	7	7	7	7	28	27	28	29	29	28.1
9	15V18EC010	KETANBAIS	34	37	40	14	20	18	19	20	20	2	2	2	2	2	28	5.6	5.6	5.6	5.6	5.6	27.6	25.6	26.6	27.6	27.6	27.6
10	15V18EC011	LATHASHREE K R	28	30	40	20	8	18	20	20	20	2	2	2	2	2	38	7.6	7.6	7.6	7.6	7.6	17.6	28.6	29.6	28.6	19.6	27
11	15V18EC012	MOONESH GOUDA	38	38	40	20	18	20	19	20	20	2	2	2	2	2	33	6.6	6.6	6.6	6.6	6.6	23.6	28.6	27.6	28.6	28.6	27.5
12	15V18EC013	MOONIKA Y	40	40	40	20	20	20	20	20	20	2	2	2	2	2	30	6.0	6.0	6.0	6.0	6.0	28.0	28.0	28.0	28.0	28.0	28.3
13	15V18EC014	NAGESH D R	30	37	38	20	19	17	20	18	20	2	2	2	2	2	35	6.6	6.6	6.6	6.6	6.6	27.6	25.6	28.6	26.6	28.6	28
14	15V18EC016	PRASHANTH M	35	38	40	17	18	20	19	20	20	2	2	2	2	2	30	6	6	6	6	6	26	28	27	28	28	27.4
15	15V18EC018	RACHANA S R	38	24	40	20	18	14	10	20	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	25.2	20.2	16.2	16.2	26.2	25.1
16	15V18EC019	SADAF NAZ	38	38	38	20	18	18	20	18	20	2	2	2	2	2	8	1.6	1.6	1.6	1.6	1.6	32.6	21.6	23.6	21.6	23.6	22.8
17	15V18EC020	SAMEER BICHAGATT	38	32	40	20	18	12	20	20	20	2	2	2	2	2	31	6.2	6.2	6.2	6.2	6.2	26.2	20.2	28.2	28.2	28.2	24.4
18	15V18EC021	SHRISHA R T	38	36	30	20	18	18	20	20	16	2	2	2	2	2	24	4.8	4.8	4.8	4.8	4.8	24.8	22.8	26.8	26.8	16.8	24.9
19	15V18EC022	SIDRAM	36	40	40	20	16	20	20	20	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	22.2	26.2	26.2	26.2	26.2	24.5
20	15V18EC023	SHINVAS C	34	33	38	14	20	13	20	20	18	2	2	2	2	2	34	6.8	6.8	6.8	6.8	6.8	28.8	21.8	28.8	28.8	28.8	26.2
21	15V18EC024	YASHASWINI K Y	34	32	38	18	18	12	20	20	18	2	2	2	2	2	27	5.4	5.4	5.4	5.4	5.4	25.4	19.4	27.4	27.4	25.4	26
22	15V19EC400	ARUNA R N	38	40	40	18	18	20	20	20	20	2	2	2	2	2	12	2.4	2.4	2.4	2.4	2.4	22.4	24.4	24.4	24.4	24.4	24.5
23	15V19EC401	JYOTHI R	38	33	40	20	18	13	20	20	20	2	2	2	2	2	38	5.2	5.2	5.2	5.2	5.2	25.2	20.2	27.2	27.2	27.2	24.7
24	15V19EC402	MAHADEVIAIAH M B	17	36	32	7	10	18	20	12	20	2	2	2	2	2	9	1.8	1.8	1.8	1.8	1.8	13.8	18.8	23.8	15.8	23.8	22.4
25	15V19EC403	NAVYASHREE S M	35	40	34	17	18	20	20	19	15	2	2	2	2	2	12	2.4	2.4	2.4	2.4	2.4	22.4	26.4	24.4	23.4	19.4	21.1
26	15V19EC404	PRAVEEN G D	37	40	28	20	17	20	20	8	20	2	2	2	2	2	24	4.8	4.8	4.8	4.8	4.8	23.8	26.8	26.8	15.8	26.8	23.4
27	15V19EC405	SWAMY M	32	36	35	14	18	18	20	20	15	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	24.2	25.2	26.2	26.2	21.2	24.3

22.89448 22.75105 24.38621 24.21379 24.28276

63.43% 63.14% 67.74% 67.26% 67.45%


SUBJECT FACULTY


HOD
Dept of E&C
SIET, Tumkur-6


PRINCIPAL
SIET, TUMAKURU

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

DEPARTMENT OF ECE

CO-PO ATTAINMENT

ACADEMIC YEAR

2021-22

EVEN SEM



SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY
SIRA ROAD, TUMKUR- 572 106
DEPARTMENT OF MATHEMATICS
(COMMON TO ALL BRANCHES)
ACADEMIC YEAR: 2021-2022



SUBJECT: COMPLEX ANALYSIS, PROBABILITY AND STATISTICAL METHODS
SUBJECT CODE: 18MAT41

COURSE OUTCOMES:

- CO1: Use the concepts of analytic function and complex potentials to solve the problems arising in Electromagnetic field theory.
- CO2: Utilize conformal transformation and complex integral arising in aerofoil theory, fluid flow Visualization and image processing.
- CO3: Apply discrete and continuous probability distributions in analyzing the probability models arising in Engineering field.
- CO4: Make use of the correlation and regression analysis to fit a suitable mathematical model for the Statistical data.
- CO5: Construct joint probability distributions and demonstrate the validity of testing the hypothesis.

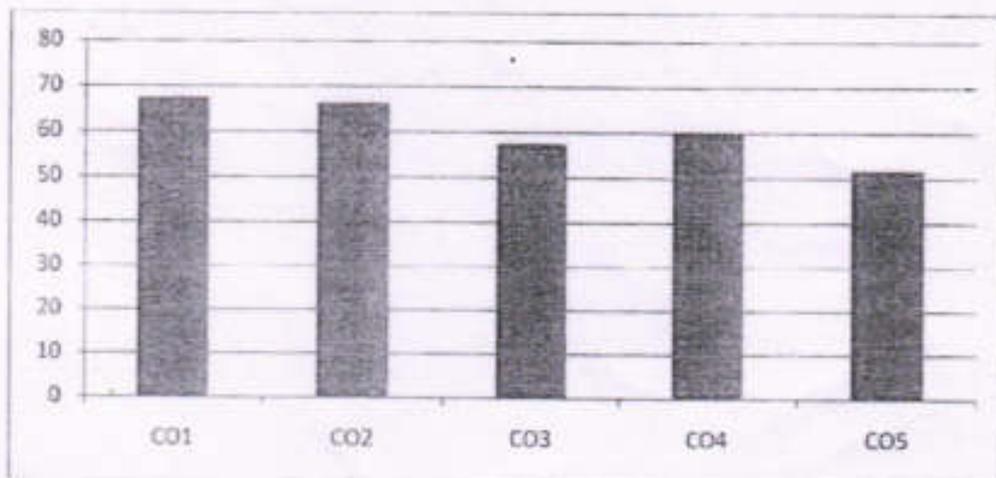
	APPLY KNOWLEDGE	ANALYSIS	DESIGN	INVESTIGATION	MODERN TOOLS	SOCIETY	ENVIRONMENT	ETHICS	TEAM WORK	COMMUNICATION	PROJ MGMT FINANCE	LIFE LONG LEARN
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO1	2	3	0	0	0	0	0	0	0	0	0	1
CO2	2	3	0	0	0	0	0	0	0	0	0	1
CO3	2	3	0	0	0	0	0	0	0	0	0	1
CO4	2	3	0	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. KISHOR KUMAR M K/Dr. CHETANA C/Prof. RASHMI S B					
BRANCH		ECE/EEE/CSE/CVE/ISE/ME			ACADEMIC YEAR		2021-22
COURSE	B.E	SEMESTER		IV	SECTION		ALL BRANCHS
SUBJECT	COMPLEX ANALYSIS, PROBABILITY AND STATISTICAL METHODS				SUBJECT CODE		18MAT41
CO & PO MAPPING							

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	
CO1	68	1.35	2.03	0	0	0	0	0	0	0	0	0	0.68	
CO2	66	1.33	1.99	0	0	0	0	0	0	0	0	0	0.66	
CO3	58	1.15	1.73	0	0	0	0	0	0	0	0	0	0.58	
CO4	60	1.21	1.81	0	0	0	0	0	0	0	0	0	0.60	
CO5	52	1.04	1.56	0	0	0	0	0	0	0	0	0	0.52	
AVG.	61	1	2	0	1									
													Final attainment level	1.4



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191000001	0	0	10	1	1	4	5	5	0	14	2	2	2	2	2	4.0	4.0	4.0	4.0	4.0	18.4	22.4	25.4	21.4	10.4	41.9	45.9	47.0	22.8	18.8
191000002	0	0	10	1	1	30	20	20	0	20	2	2	2	2	2	4.0	4.0	4.0	4.0	4.0	26.2	38.2	41.2	42.2	32.2	77.1	77.1	76.3	76.3	53.0
191000003	21	21	20	5	20	20	20	20	20	100	2	2	2	2	2	4.0	4.0	4.0	4.0	4.0	26.2	26.2	36.2	31.2	47.2	77.1	77.1	67.0	57.8	27.8
191000010	24	24	15	4	21	20	20	20	20	100	2	2	2	2	2	4.0	4.0	4.0	4.0	4.0	26.2	25.2	42.2	32.2	30.2	77.1	77.1	76.3	59.6	72.4
191000001	20	19	3	3	6	20	20	20	0	0	60	2	2	2	2	4.0	4.0	4.0	4.0	4.0	26.2	25.2	29.2	9.2	21.2	77.1	77.1	76.3	59.6	72.4
191000002	15	15	0	1	1	10	10	10	0	0	40	2	2	2	2	4.0	4.0	4.0	4.0	4.0	26.2	25.2	29.2	9.2	21.2	77.1	77.1	76.3	59.6	72.4
191000003	20	20	15	15	30	20	20	20	20	20	100	2	2	2	2	4.0	4.0	4.0	4.0	4.0	26.2	25.2	29.2	9.2	21.2	77.1	77.1	76.3	59.6	72.4
191000004	20	20	15	15	30	20	20	20	20	20	100	2	2	2	2	4.0	4.0	4.0	4.0	4.0	26.2	25.2	29.2	9.2	21.2	77.1	77.1	76.3	59.6	72.4
191000006	30	30	15	15	30	20	20	20	20	20	100	2	2	2	2	4.0	4.0	4.0	4.0	4.0	26.2	25.2	29.2	9.2	21.2	77.1	77.1	76.3	59.6	72.4
191000007	10	20	20	4	14	10	1	2	10	10	11	2	2	2	2	4.0	4.0	4.0	4.0	4.0	26.2	26.2	41.2	41.2	56.2	77.1	77.1	76.3	76.3	65.5

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Total: 67 64.1 57.6 41.1 11.9
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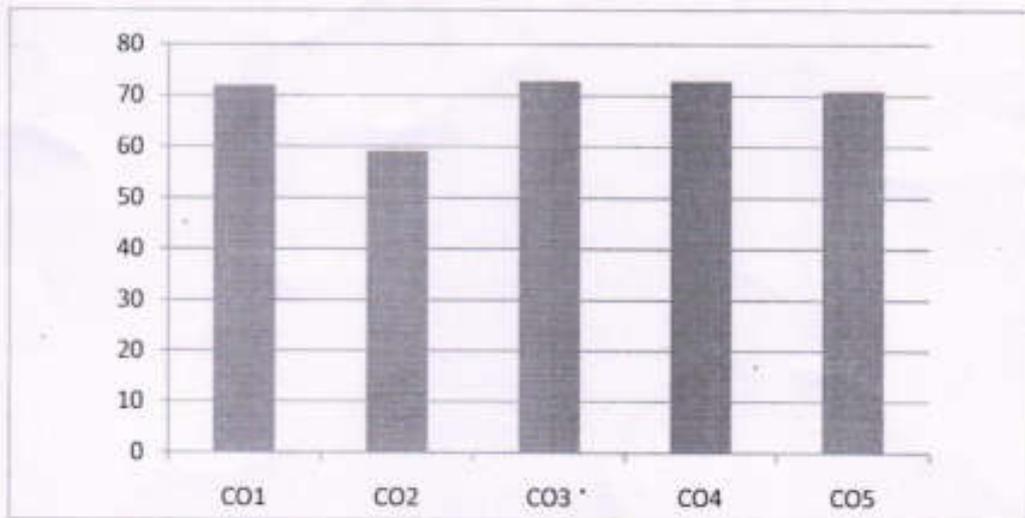


SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY
SIRA ROAD, TUMKUR- 572 106
DEPARTMENT OF MATHEMATICS
(COMMON TO ALL BRANCHES)



COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY			
FACULTY NAME	Dr. CHETANA C/Prof. RASHMI S B			
BRANCH	ECE	ACADEMIC YEAR		2021-2022
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	72	1.44	2.16	0	0	0	0	0	0	0	0	0	0.72
CO2	59	1.18	1.78	0	0	0	0	0	0	0	0	0	0.59
CO3	73	1.46	2.19	0	0	0	0	0	0	0	0	0	0.73
CO4	73	1.46	2.19	0	0	0	0	0	0	0	0	0	0.73
CO5	71	1.42	2.13	0	0	0	0	0	0	0	0	0	0.71
AVG	70	1	2	0	0	0	0	0	0	0	0	0	1
Final attainment level													1.4



Principals Signature
PRINCIPAL
SIET, TUMAKURU.

HOD Signature
HOD



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

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.

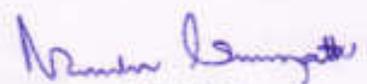
PO12 Life-long learning: A recognition of the need for, and an ability to engage in, to resolve contemporary issues and acquire lifelong learning.

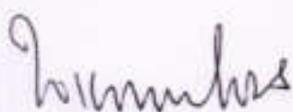
COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	DR.LOKESH B S											
BRANCH	ECE			ACADEMIC YEAR				2021-22				
COURSE	B.E	SEMESTER			IV	SECTION			ECE			
SUBJECT	ANALOG CIRCUITS						SUBJECT CODE		18EC42			
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	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	43.24	0.86	1.29	1.29	0.86	1.29	0.86	-	-	-	0.86	-	1.29
CO2	49.40	1.48	1.48	1.48	0.98	0.98	1.48	-	-	-	1.48	-	0.98
CO3	49.96	1.49	1.49	0.99	0.99	1.49	1.49				0.99		1.49
CO4	53.93	1.07	1.61	1.61	1.07	1.61	1.61				1.61		1.61
CO5	43.75	1.31	1.31	1.31	0.87	1.31	1.31				1.31		1.31
AVERAGE	48.05	1.24	1.43	1.33	0.95	1.33	1.35				1.25		1.33
FINAL ATTAINMENT LEVEL													1.27


HOD
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Academic year	2021-22		SEM		Total strength					Subject					ANALOG CIRCUITS					Subject Code					ISECC4										SEE Tar		
	IA TEST (100M)			IA TEST (100M)			IA TEST (100M)			ASSIGNMENT / QUIZ (100M)					SEE MARKS (100)					Total Cts ATTAINMENT					% of individual CQ												
	LSS	CO1		CO2		TOTAL	CO2		IDEAL		CO4		CO5		TOTAL		SEE MARKS (100)					Total Cts ATTAINMENT					% of individual CQ										
		CO1	CO2	CO1	CO2		CO1	CO2	CO1	CO2	CO1	CO2	CO1	CO2	CO1	CO2	CO1	CO2	CO3	CO4	CO5	CO1-12	CO2	CO3	CO4	CO5	CO1-25	CO2-44	CO3-25	CO4-25	CO5-25	CO1	CO2	CO3		CO4	CO5
15V20EC001	5	7	7	8	9	17	17	10	22	2	2	2	2	2	2.4	2.4	2.4	2.4	2.4	2.4	9.4	14.4	13.4	16.4	14.4	52.41379	42.72727	46.2069	54.5517	49.655	12	7.8					
15V20EC002	4	5	9	4	4	8	7	7	4	2	2	2	2	2	1.7	1.7	1.7	1.7	1.7	1.7	7.7	12.7	7.7	5.7	5.7	24.82759	27.72727	24.82759	17.931	17.931	6	1.2					
15V20EC003	5	5	10	15	11	26	8	5	13	2	2	2	2	2	3.4	3.4	3.4	3.4	3.4	3.4	10.4	15.4	16.4	11.4	10.4	35.89207	57.72727	54.5517	39.2103	35.892	17	1.4					
15V20EC004	6	5	11	6	6	12	7	8	15	2	2	2	2	2	2.2	2.2	2.2	2.2	2.2	2.2	20.2	15.2	20.2	11.2	12.2	35.17041	44.50545	35.17041	38.6207	42.069	12	2.7					
15V20EC005	4	4	8	4	4	8	10	3	13	2	2	2	2	2	4.8	4.8	4.8	4.8	4.8	4.8	20.8	14.8	10.8	16.8	9.8	17.24138	33.62636	17.24138	17.931	13.291	24	4.8					
15V20EC006	5	5	10	5	5	11	5	5	10	2	2	2	2	2	1.4	1.4	1.4	1.4	1.4	1.4	8.4	13.4	6.4	8.4	8.4	28.96552	30.45455	17.41379	18.9655	28.966	7	1.4					
15V20EC007	1	1	2	15	6	21	10	9	19	2	2	2	2	2	4.7	4.7	4.7	4.7	4.7	4.7	7.7	22.7	17.7	16.7	15.7	24.83759	30.45455	42.06907	55.8021	52.434	21	4.3					
15V20EC008	15	14	29	15	15	30	15	15	30	2	2	2	2	2	5.8	5.8	5.8	5.8	5.8	5.8	22.8	16.8	22.8	22.8	22.8	77.93103	83.18182	77.93103	77.931	77.931	28	5.5					
15V20EC009	7	8	15	8	9	17	5	4	9	2	2	2	2	2	0.8	0.8	0.8	0.8	0.8	0.8	9.8	14.8	11.8	7.8	6.8	33.10345	42.72727	40	26.2069	22.758	3	0.6					
15V20EC010	3	4	7	4	4	8	10	3	13	2	2	2	2	2	2.4	2.4	2.4	2.4	2.4	2.4	7.4	12.4	8.4	14.4	7.4	25.11704	28.18182	28.96552	49.6552	15.517	12	2.4					
15V20EC011	11	15	26	11	15	26	15	15	30	2	2	2	2	2	6.2	6.2	6.2	6.2	6.2	6.2	19.2	14.2	23.2	23.2	19.2	66.2069	77.72727	80	80	66.207	31	6.2					
15V20EC012	3	3	6	4	4	8	10	4	14	2	2	2	2	2	2.8	2.8	2.8	2.8	2.8	2.8	7.8	10.8	8.8	14.8	10.8	26.89635	24.54545	30.18182	51.0345	17.241	14	7.8					
15V20EC013	8	13	21	13	10	23	20	3	23	2	2	2	2	2	3	3	3	3	3	3	33	15	15	25	8	44.82759	75.14545	51.72414	66.2069	27.588	15	3					
15V20EC014	15	15	30	12	15	27	15	15	30	2	2	2	2	2	4.7	4.7	4.7	4.7	4.7	4.7	31.2	11.2	21.2	21.2	21.2	75.10345	75.14545	75.10345	75.1034	75.103	21	4.7					
15V20EC015	13	13	26	15	15	30	15	15	30	2	2	2	2	2	4.8	4.8	4.8	4.8	4.8	4.8	21.8	16.8	21.8	21.8	21.8	75.17241	83.63636	75.17241	75.1724	75.172	16	4.8					
15V20EC016	0	0	0	15	15	30	20	7	27	2	2	2	2	2	5.2	5.2	5.2	5.2	5.2	5.2	7.2	22.2	22.2	27.2	16.2	24.82759	30.45455	76.15172	44.7931	48.966	16	5.2					
15V20EC017	0	0	0	15	9	24	10	11	21	2	2	2	2	2	4.6	4.6	4.6	4.6	4.6	4.6	8.6	21.6	15.6	15.6	15.6	22.75882	49.09091	51.7911	57.1814	40.89	23	4.6					
15V20EC018	5	6	11	4	4	8	10	7	17	2	2	2	2	2	3	3	3	3	3	3	10	15	9	15	12	34.88276	34.09091	51.0345	51.7241	41.179	15	3					
15V20EC019	15	8	23	8	10	18	3	2	5	2	2	2	2	2	1.6	1.6	1.6	1.6	1.6	1.6	10.6	21.6	15.6	8.6	7.6	71.03448	49.09091	51.7911	28.6552	20.207	18	1.6					
15V21EC000	15	4	19	10	10	20	4	4	8	2	2	2	2	2	3.2	3.2	3.2	3.2	3.2	3.2	10.2	19.2	13.2	9.2	9.2	49.65517	43.63636	52.41379	51.7241	31.734	16	1.2					
																						12.54	21.74	14.49	15.44	12.69	43.24138	49.40309	49.14552	51.931	43.759						

Principals

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 Dept of E&C
 SIET, Tumkur-6

Principals
PRINCIPAL
 SIET, TUMAKURU.

**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

SUBJECT	CONTROL SYSTEMS	SUBJECT CODE	18EC43
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COURSE OUTCOME

- CO1.** Develop the mathematical model of mechanical and electrical systems.
- CO2.** Develop transfer function for a given control system using block diagram reduction techniques and signal flow graph method.
- CO3.** • Determine the time domain specifications for first and second order systems.
- CO4.** Determine the stability of a system in the time domain using Routh-Hurwitz criterion and Root-locus technique.
- CO5.** Determine the stability of a system in the frequency domain using Nyquist and bode plots.

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				2021-22				
COURSE	B.E	SEMESTER		IV	SECTION			ECE				
SUBJECT	CONTROL SYSTEMS					SUBJECT CODE			18EC43			
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								1.44
FINAL ATTAINMENT LEVEL													1.32

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Sl. No.	URN	Name	2021-2022 Even			SEM IV SEM					IP/Practical/Projects					SIT	SIT MARKS					Total	TOTAL AVERAGE				
			EI			T1		T2			ASSESSMENT 10/5						SIT	SIT MARKS									
			T1	T2	T3	CO1-15	CO2-15	CO3-15	CO4-15	CO5-15	CO1-2	CO2-2	CO3-2	CO4-2	CO5-2			60	CO1-12	CO2-12	CO3-12			CO4-12	CO5-12	CO1-25	CO2-25
1	ABHIRAM B	ISV2BC06	7	22	21	7	12	10	15	6	2	2	2	2	2	35	7	7	7	7	7	16	21	19	20	13	19.4
2	ANJANA A	ISV2BC06	8	13	17	8	7	6	17	0	2	2	2	2	2	0	0	0	0	0	0	10	9	8	21	2	10
3	BHUBHAK S	ISV2BC06	21	21	27	21	11	10	20	7	2	2	2	2	2	17	34	34	34	34	34	26.4	16.4	15.4	27.4	12.4	19.6
4	CHITRAMBEE H E	ISV2BC06	8	14	25	8	12	12	15	10	2	2	2	2	2	10	2	2	2	2	2	12	16	16	21	14	13.8
5	DARSHAN M P	ISV2BC06	5	14	12	5	7	7	10	2	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	11.2	13.2	13.2	18.2	8.2	12.8
6	GAGANASHREE H V	ISV2BC06	27	26	20	27	20	9	10	10	2	2	2	2	2	11	2.2	2.2	2.2	2.2	2.2	31.2	24.2	13.2	16.2	14.2	19.8
7	HARSHITH M J	ISV2BC07	23	25	28	23	15	10	20	8	2	2	2	2	2	18	3.6	3.6	3.6	3.6	3.6	28.6	20.6	15.6	27.6	11.6	21.2
8	HARSHITHA S	ISV2BC06	29	30	30	29	15	15	15	15	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	35.2	21.2	21.2	23.2	21.2	24.4
9	IMTIYAZ FARHA	ISV2BC06	5	15	13	5	10	6	10	3	2	2	2	2	2	3	0.6	0.6	0.6	0.6	0.6	7.6	12.6	7.6	14.6	5.6	9.6
10	MEGHANA H C	ISV2BC06	10	24	25	10	20	4	15	10	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	16.2	29.2	10.2	23.2	16.2	18.4
11	MEKHA H A	ISV2BC05	30	26	30	30	20	6	15	15	2	2	2	2	2	24	4.8	4.8	4.8	4.8	4.8	36.8	29.8	12.8	23.8	21.8	24.4
12	NAGARAJ	ISV2BC07	7	6	15	7	3	3	10	5	2	2	2	2	2	7	1.4	1.4	1.4	1.4	1.4	10.4	6.4	6.4	15.4	6.4	9.4
13	PRATHIKSHA E	ISV2BC05	21	29	20	21	20	9	10	10	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	27.2	26.2	15.2	18.2	16.2	20.6
14	R M SUCHEETA	ISV2BC04	29	20	30	29	15	5	15	15	2	2	2	2	2	38	7.6	7.6	7.6	7.6	7.6	38.6	24.6	14.6	26.6	24.6	25.8
15	RACHANA H	ISV2BC05	30	29	30	30	20	9	15	15	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	36.2	26.2	15.2	23.2	21.2	24.4
16	SPAVITHRA	ISV2BC06	0	8	23	0	4	4	20	3	2	2	2	2	2	30	6	6	6	6	6	8	12	12	30	11	14.6
17	SHOBHA HUGAR	ISV2BC07	0	26	24	0	20	9	15	9	2	2	2	2	2	35	7	7	7	7	7	9	29	18	26	18	20
18	VASHAK E	ISV2BC06	5	8	24	5	4	4	12	12	2	2	2	2	2	16	3.2	3.2	3.2	3.2	3.2	10.2	9.2	9.2	19.2	17.2	13
19	HARSHITHA	ISV2BC09	27	26	25	27	20	6	12	13	2	2	2	2	2	26	3.2	3.2	3.2	3.2	3.2	32.2	25.2	11.2	19.2	18.2	21.2
20	MANV M R	ISV2BC00	23	30	24	23	15	15	12	13	2	2	2	2	2	24	4.8	4.8	4.8	4.8	4.8	29.8	21.8	21.8	20.8	19.8	22.8
																						21.64	19.39	9.5103	15.2	10.303448	
																						48.18%	66.86%	32.79%	32.41%	85.53%	

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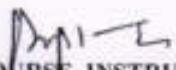
Department of Electronics & Communication Engg
Course Outcomes and CO-PO-PSO Articulation Matrix
2018 Scheme

Academic Year 2021-22

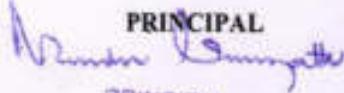
Semester-IV

SUBJECT: SIGNALS & SYSTEMS FACULTY NAME : PROF.PRADEEPKUMAR S S										Subject Code: 18EC45			
Course Outcomes													
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	Different properties of Fourier transform												
CO5	Transform analysis of LTI systems and Z Transforms												
CO-PO-PSO Mapping													
COs	Pos												
	1	2	3	4	5	6	7	8	9	10	11	12	
CO1	3	2								1			1
CO2	2	2	3							2			1
CO3	3	2	2							1			1
CO4	3	1								1			1
CO5	3												
Average	2.8	1.4	2.5							1.25			1

ATTAINMENT TABLE													
COs	AVG	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	52.77%	1.58	1.05								0.52		0.52
CO2	48.51%	0.97	0.97	1.45							0.97		0.48
CO3	31.20 %	0.93	0.624	0.62							0.31		0.31
CO4	42.85%	1.28	0.42								0.42		0.42
CO5	38.80%	1.164											
AVERAGE		1.18	0.76	1.03							0.55		0.43
TOTAL ATTAINMENT													0.79


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Roll No.	URN	Name	SEMESTER		ACADEMIC LEVELS					SEMESTER					TOTAL MARKS					Total	TOTAL AVERAGE						
			T1	T2	T3			T4		ASSIGNMENT TEST					SEM MARKS												
					CO1-30	CO2-18	CO3-18	CO4-18	CO5-18	CO1-2	CO2-2	CO3-2	CO4-2	CO5-2	80	CO1-12	CO2-12	CO3-12	CO4-12			CO5-12	CO1-20	CO2-20	CO3-20	CO4-20	CO5-20
1	ABHINAV B	SV28C03H	6	12	12	6	6	6	6	6	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	12.2	12.2	12.2	14.2	12.2	12.6
2	ANJANA A	SV28C03H	10	12	12	10	6	6	6	6	2	2	2	2	2	1	0.2	0.2	0.2	0.2	0.2	12.2	6.2	6.2	10.2	6.2	9.4
3	BHUMIKA S	SV28C03H	20	7	22	20	3	4	11	11	2	2	2	2	2	23	4.6	4.6	4.6	4.6	4.6	26.6	9.6	10.6	19.6	17.6	16.8
4	CHITRAKSHEE H E	SV28C03H	20	13	23	20	6	7	11	12	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	26.2	12.2	13.2	19.2	16.2	17.8
5	DARSHAN M E	SV28C03H	18	12	14	16	6	6	9	6	2	2	2	2	2	11	2.75	2.75	2.75	2.75	2.75	20.75	10.75	10.75	15.75	9.75	13.55
6	DEEPAKASHREE H K	SV28C03H	20	3	21	20	1	2	11	10	2	2	2	2	2	31	6.2	6.2	6.2	6.2	6.2	26.2	9.2	10.2	21.2	16.2	17.4
7	HARSHITH M I	SV28C03H	18	12	26	18	5	7	10	16	2	2	2	2	2	23	4.6	4.6	4.6	4.6	4.6	24.6	11.6	13.6	18.6	24.6	18.6
8	HARSHITHAS	SV28C03H	27	18	30	27	9	9	15	15	2	2	2	2	2	36	7.2	7.2	7.2	7.2	7.2	36.2	16.2	16.2	20.2	34.2	24.6
9	IMTI AZ PARHA	SV28C03H	8	0	0	8	0	0	0	0	2	2	2	2	2	3	0.6	0.6	0.6	0.6	0.6	10.6	2.6	2.6	4.6	2.6	4.0
10	MEGHANA H G	SV28C03H	13	9	16	13	5	4	8	8	2	2	2	2	2	23	4.6	4.6	4.6	4.6	4.6	19.6	11.6	10.6	16.6	14.6	14.6
11	MUKTHA H K	SV28C03H	27	22	30	27	11	11	15	15	2	2	2	2	2	26	5.6	5.6	5.6	5.6	5.6	34.6	16.6	16.6	24.6	22.6	23.8
12	NAGARAJ	SV28C03H	3	4	0	3	2	2	0	0	2	2	2	2	2	9	1.8	1.8	1.8	1.8	1.8	6.8	5.8	5.8	5.8	3.8	5.6
13	TRATHESHA P	SV28C03H	20	11	15	20	9	2	7	6	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	26.2	15.2	8.2	15.2	14.2	15.8
14	R.M.SUCHITEA	SV28C03H	29	27	30	29	14	13	15	15	2	2	2	2	2	44	8.8	8.8	8.8	8.8	8.8	39.8	24.8	23.8	27.8	25.8	28.4
15	RACHANA H	SV28C03H	29	24	30	29	12	12	15	15	2	2	2	2	2	30	6	6	6	6	6	37	20	20	25	23	25
16	SPANVITHA	SV28C03H	0	28	30	0	15	14	11	13	2	2	2	2	2	46	9.6	9.6	9.6	9.6	9.6	11.6	26.6	25.6	24.6	24.6	22.6
17	SHOBHA HEGAR	SV28C03H	0	18	24	0	9	9	10	9	2	2	2	2	2	27	5.4	5.4	5.4	5.4	5.4	7.4	16.4	16.4	19.4	16.4	15.2
18	TANVISH K	SV28C03H	11	13	19	11	10	3	9	6	2	2	2	2	2	31	6.2	6.2	6.2	6.2	6.2	19.2	18.2	11.2	19.2	16.2	16.8
19	HARSHITHA	SV28C03H	26	11	17	26	9	2	8	9	2	2	2	2	2	29	5.8	5.8	5.8	5.8	5.8	33.8	16.8	9.8	17.8	16.8	19
20	MAHEE M R	SV28C03H	24	12	12	24	6	6	6	6	2	2	2	2	2	24	4.8	4.8	4.8	4.8	4.8	30.8	12.8	12.8	14.8	12.8	16.8
																						21.218	14.0675	9.04655	12.426	11.253	
																						32.77%	48.51%	31.20%	42.85%	38.80%	

Subject Faculty
SUBJECT FACULTY

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Course Outcomes and CO-PO-PSO Articulation Matrix
2018 Scheme

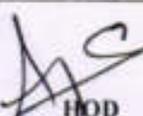
Academic Year 2021-22

Semester-IV

SUBJECT: MICROCONTROLLER		Subject Code: 18EC46										
FACULTY NAME : PROF.RAGHAVENDRA D												
Course Outcomes												
CO1	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											
CO3	Explain the Interrupt system, operation of Timers/Counters and Serial port of 8051.											
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	Write 8051 Assembly language programs to generate square wave on 8051 I/O port pin using interrupt and C Programme to send & receive serial data using 8051 serial port											
CO-PO-PSO Mapping												
COs	Pos											
	1	2	3	4	5	6	7	8	9	10	11	12
CO1	2	2										
CO2	2	2	2									
CO3	2		2									
CO4	2	2	2									
CO5	2											
Average	2	1.66	2									

ATTAINMENT TABLE													
COs	AVG	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	61.68%	1.23	1.23										
CO2	64.62%	1.29	1.29	1.29									
CO3	44.80%	0.89		0.89									
CO4	42.43%	0.84	0.84	0.84									
CO5	37.43%	0.74											
AVERAGE		0.85	1.12	1									0.99
TOTAL ATTAINMENT													


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Roll No.	LN	Name	IACAS		IISL-2021 EYR			SEM - I SEM		TSP Prof & Negatives 2					MS	SEM MARKS					Final					TOTAL AVERAGE	
			T1	T2	T3	T4		T5		ASSESSMENT (0/5)						60	SEM MARKS					Final					
			11	12	13	CO1-18	CO2-18	CO3-18	CO4-18	CO5-18	CO1-2	CO2-2	CO3-2	CO4-2			CO5-2	CO1-12	CO2-12	CO3-12	CO4-12	CO5-12	CO1-20	CO2-20	CO3-20		CO4-20
1	ABHIRAM R	18V2BC01	20	24	23	20	12	12	12	11	2	2	2	2	2	21	2.4	2.4	2.4	2.4	2.4	30.4	16.4	16.4	18.4	15.4	19.4
2	AJITHA A	18V2BC02	20	29	14	20	15	14	7	7	2	2	2	2	2	8	1.2	1.2	1.2	1.2	1.2	23.2	16.2	17.2	12.2	10.2	16.2
3	BRUNAKA S	18V2BC03	30	40	29	30	20	20	15	14	2	2	2	2	2	44	3.4	3.4	3.4	3.4	3.4	36.4	25.4	25.4	22.4	19.4	25.0
4	CHITRAHESI H H	18V2BC04	17	24	18	17	12	12	9	9	2	2	2	2	2	21	2.2	2.2	2.2	2.2	2.2	21.2	16.2	16.2	15.2	13.2	16.4
5	DARSHAN P	18V2BC05	11	10	8	11	9	9	4	4	2	2	2	2	2	42	4.8	4.8	4.8	4.8	4.8	17.8	10.8	15.8	12.8	10.8	14.6
6	GAGANADHAR H H	18V2BC06	30	30	23	30	15	15	12	11	2	2	2	2	2	11	1.4	1.4	1.4	1.4	1.4	33.4	18.4	18.4	17.4	14.4	20.4
7	HARSHITH M J	18V2BC07	29	30	17	29	15	15	8	9	2	2	2	2	2	28	4.2	4.2	4.2	4.2	4.2	35.2	21.2	21.2	16.2	15.2	21.8
8	HARSHITHA D	18V2BC08	30	18	30	30	15	15	15	15	2	2	2	2	2	47	5.6	5.6	5.6	5.6	5.6	37.6	22.6	22.6	24.6	22.6	26
9	INDYAZ PAMIA	18V2BC09	20	22	17	20	8	8	9	8	2	2	2	2	2	6	0.6	0.6	0.6	0.6	0.6	22.6	11.6	11.6	13.6	10.6	14
10	MEGHANA M C	18V2BC10	14	30	16	14	11	11	8	8	2	2	2	2	2	10	2.4	2.4	2.4	2.4	2.4	16.4	15.4	15.4	14.4	12.4	15.2
11	NEETHA H R	18V2BC11	30	18	20	30	15	15	9	8	2	2	2	2	2	32	6.2	6.2	6.2	6.2	6.2	38.2	23.2	23.2	19.2	16.2	24
12	NAGARA I	18V2BC12	12	30	29	12	9	9	6	6	2	2	2	2	2	6	2.8	2.8	2.8	2.8	2.8	16.8	13.8	13.8	12.8	10.8	13.6
13	PRATHIKSHA R	18V2BC13	29	30	30	29	15	15	10	10	2	2	2	2	2	15	5	5	5	5	5	36	22	22	19	17	23.2
14	R M NACHIRA	18V2BC14	30	19	29	30	15	15	15	14	2	2	2	2	2	24	4.2	4.2	4.2	4.2	4.2	36.2	21.2	21.2	23.2	20.2	24.4
15	SACHANA N	18V2BC15	30	15	17	30	15	15	15	15	2	2	2	2	2	29	4.8	4.8	4.8	4.8	4.8	36.8	21.8	21.8	23.8	21.8	25.2
16	S PAVITHRA	18V2BC16	0	22	17	0	10	12	14	15	2	2	2	2	2	37	5.2	5.2	5.2	5.2	5.2	7.2	17.2	19.2	23.2	22.2	17.8
17	SHOBHA HUGAR	18V2BC17	0	30	24	0	15	15	8	9	2	2	2	2	2	15	4.6	4.6	4.6	4.6	4.6	6.6	21.6	21.6	16.6	15.6	16.4
18	TARUN K R	18V2BC18	21	17	20	21	13	14	8	9	2	2	2	2	2	21	3	3	3	3	3	26	18	19	15	14	18.4
19	HARSHITHA	18V2BC19	26	28	18	26	14	14	12	12	2	2	2	2	2	26	3.6	3.6	3.6	3.6	3.6	31.6	19.6	19.6	18.6	17.6	21.6
20	MAHIL ME	18V2BC20	27	20	8	27	10	10	10	10	2	2	2	2	2	16	3.2	3.2	3.2	3.2	3.2	32.2	15.2	15.2	17.2	15.2	19
																						27.14	18.74	12.993	12.303	10.855	
																						61.68%	64.62%	44.80%	42.43%	37.45%	

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Department of Electronics & Communication Engg

Course Outcomes and CO-PO-PSO Articulation Matrix 2018 Scheme

Academic Year 2021-22

Semester-VI

Subject: Digital Communication										Subject Code: 18EC61			
Faculty Name: Dr.Pradeep K G M													
Course Outcomes													
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.												
CO-PO-PSO Mapping													
COs	Pos												
	1	2	3	4	5	6	7	8	9	10	11	12	
CO1	2	2	1	1	1					1		1	
CO2	2	2	2	2	1					1		1	
CO3	2	2	2	2	2					1		1	
CO4	2	2	2	2	1					1		2	
CO5	2	2	2	1	2					1		1	
Average	2	2	1.8	1.6	1.4					1		1	

ATTAINMENT TABLE													
COs	AVG	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	79.09%	1.58	1.58	0.79	0.79	0.79					0.79		0.79
CO2	49.80%	0.99	0.99	0.99	0.99	0.49					0.49		0.49
CO3	52.45%	1.04	1.04	1.04	1.04	1.04					0.52		0.52
CO4	64.23%	1.28	1.28	1.28	1.28	0.64					0.64		1.28
CO5	57.62%	1.15	1.15	1.15	0.57	1.15					0.57		0.57
AVERAGE		1.20	1.2	1.05	0.82	0.82					0.602		0.73
TOTAL ATTAINMENT													0.91

COURSE INSTRUCTOR

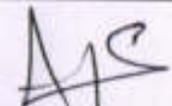
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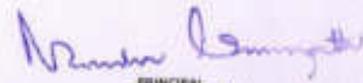
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Roll No	Name	Grade	MATHS					SCIENCE					SOCIAL SCIENCE					TOTAL MARKS	TOTAL PERCENTAGE																									
			T1	T2	T3	SEM	END	T1	T2	T3	SEM	END	T1	T2	T3	SEM	END																											
1	ABHINAV K S	HYDRABAD	0	0	28	0	1	4	14	14	2	2	2	2	2	17	34	34	34	34	34	34	64	34	13.4																			
2	ADARSH	HYDRABAD	24	14	27	24	10	4	13	14	2	2	2	2	2	21	42	42	42	42	42	30.2	10.2	10.2	21.2	20.2	19.6																	
3	ADARSH K	HYDRABAD	11	13	24	11	7	8	10	14	2	2	2	2	2	39	78	78	78	78	78	20.8	10.8	10.8	21.8	23.8	19.8																	
4	ADARSH K	HYDRABAD	14	8	23	14	2	4	13	10	2	2	2	2	2	42	84	84	84	84	84	24.4	12.4	14.4	25.4	20.4	18.4																	
5	ADARSH K	HYDRABAD	28	30	30	28	15	15	15	15	2	2	2	2	2	48	96	96	96	96	96	40.6	20.6	20.6	28.6	26.6	30																	
6	ADARSH K	HYDRABAD	27	17	28	27	14	3	15	14	2	2	2	2	2	29	58	58	58	58	58	34.8	21.8	10.8	24.8	21.8	22.8																	
7	ADARSH K	HYDRABAD	20	24	11	20	12	12	7	4	2	2	2	2	2	28	56	56	56	56	56	32.8	19.8	19.8	16.8	11.8	30.3																	
8	ADARSH K	HYDRABAD	15	0	22	15	0	0	11	11	2	2	2	2	2	21	42	42	42	42	42	21.2	8.2	8.2	18.2	17.2	14																	
9	ADARSH K	HYDRABAD	28	30	30	28	15	15	15	15	2	2	2	2	2	48	96	96	96	96	96	40.6	20.6	20.6	28.6	26.6	30																	
10	ADARSH K	HYDRABAD	20	17	14	20	10	7	7	7	2	2	2	2	2	22	44	44	44	44	44	20.6	18.6	15.6	17.6	15.6	19.2																	
11	ADARSH K	HYDRABAD	17	16	0	17	8	8	0	0	2	2	2	2	2	22	44	44	44	44	44	23.4	14.4	14.4	8.4	8.4	13.4																	
12	ADARSH K	HYDRABAD	26	15	23	26	10	5	11	12	2	2	2	2	2	24	48	48	48	48	48	32.8	16.8	11.8	19.8	18.8	20																	
13	ADARSH K	HYDRABAD	26	26	30	26	12	14	15	15	2	2	2	2	2	42	84	84	84	84	84	30.4	22.4	24.4	27.4	25.4	27.8																	
14	ADARSH K	HYDRABAD	8	23	26	8	12	11	6	5	2	2	2	2	2	27	54	54	54	54	54	15.4	19.4	18.4	15.4	12.4	16.2																	
15	ADARSH K	HYDRABAD	24	20	29	24	10	10	15	14	2	2	2	2	2	33	66	66	66	66	66	32.6	18.6	18.6	25.6	22.6	28.6																	
16	ADARSH K	HYDRABAD	28	28	28	28	14	15	12	14	2	2	2	2	2	21	42	42	42	42	42	35.2	20.2	21.2	20.2	20.2	23.4																	
17	ADARSH K	HYDRABAD	29	27	30	29	13	14	15	15	2	2	2	2	2	30	6	6	6	6	6	37	21	22	28	23	25.6																	
18	ADARSH K	HYDRABAD	29	24	27	29	12	12	13	14	2	2	2	2	2	28	56	56	56	56	56	36.6	19.6	19.6	22.6	21.6	24																	
19	ADARSH K	HYDRABAD	29	30	29	29	15	15	14	15	2	2	2	2	2	33	66	66	66	66	66	37.6	23.6	23.6	24.6	23.6	26.6																	
20	ADARSH K	HYDRABAD	26	24	26	26	13	11	13	13	2	2	2	2	2	37	74	74	74	74	74	35.4	22.4	20.4	24.4	22.4	25																	
21	ADARSH K	HYDRABAD	21	8	0	21	4	4	0	0	2	2	2	2	2	10	2	2	2	2	2	25	8	8	6	4	10.2																	
22	ADARSH K	HYDRABAD	18	28	30	18	14	14	15	15	2	2	2	2	2	32	64	64	64	64	64	26.4	22.4	22.4	25.4	23.4	24																	
23	ADARSH K	HYDRABAD	23	17	24	23	13	14	12	12	2	2	2	2	2	33	66	66	66	66	66	31.6	21.6	22.6	22.6	20.6	23.8																	
24	ADARSH K	HYDRABAD	19	13	8	19	7	6	4	4	2	2	2	2	2	25	5	5	5	5	5	26	14	13	13	11	15.4																	
25	ADARSH K	HYDRABAD	30	30	30	30	15	15	15	15	2	2	2	2	2	42	84	84	84	84	84	40.4	25.4	25.4	27.4	25.4	28.8																	
26	ADARSH K	HYDRABAD	11	15	0	11	10	5	0	0	2	2	2	2	2	5	1	1	1	1	1	14	13	8	5	3	8.8																	
27	ADARSH K	HYDRABAD	26	27	30	26	13	14	15	15	2	2	2	2	2	26	52	52	52	52	52	33.2	20.2	21.2	24.2	22.2	24.2																	
28	ADARSH K	HYDRABAD	0	8	27	0	4	2	13	14	2	2	2	2	2	15	3	3	3	3	3	5	9	7	20	19	12																	
29	ADARSH K	HYDRABAD	25	21	20	25	10	11	10	10	2	2	2	2	2	17	34	34	34	34	34	30.4	15.4	16.4	17.4	15.4	19																	
30	ADARSH K	HYDRABAD	23	16	18	23	12	4	8	8	2	2	2	2	2	24	48	48	48	48	48	28.8	18.8	10.8	16.8	14.8	18.2																	
31	ADARSH K	HYDRABAD	21	20	14	21	10	10	7	7	2	2	2	2	2	23	46	46	46	46	46	27.6	16.6	16.6	15.6	13.6	18																	
32	ADARSH K	HYDRABAD	26	20	30	26	15	14	15	15						28	56	56	56	56	56	31.6	20.6	19.6	24.6	20.6	23.4																	
33	ADARSH K	HYDRABAD	8	14	21	8	12	2	7	4	2	2	2	2	2	13	26	26	26	26	26	12.6	16.6	6.6	13.6	8.6	11.6																	
																				28.47%					17.927%					18.8827%					21.124%					20.74%				
																				64.71%					61.82%					65.11%					79.74%					71.53%				


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**Department of Electronics & Communication Engineering****Course Outcomes and CO-PO- Articulation Matrix****2015 Scheme****ACADEMIC YEAR 2021-22****Semester-VI**

Subject: Microwave & Antenna Prof. Pradeepkumar S S		Subject Code: 18EC63											
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	1	2											
CO2	1	1	2	1	2								
CO3	2	2	3	3	2								
CO4	2	2	2	3	3								
CO5	2	1	2	1	2								
Average	1.6	1.6	1.8	1.6	1.8								

ATTAINMENT TABLE													
COs	AVG	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	74.54%	0.75	1.5										
CO2	72.07%	0.72	0.72	1.44	0.72	1.44							
CO3	72.40%	1.44	1.44	2.17	2.17	1.44							
CO4	72.7%	1.45	1.45	1.45	2.17	2.17							
CO5	73.11%	1.46	0.72	1.46	0.72	1.46							
AVERAGE		1.16	1.16	1.44	1.44	1.62							
TOTAL ATTAINMENT													1.36

Pradeepkumar S S
Course Instructor

Pradeepkumar S S
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SIFT Tumkur-6

Pradeepkumar S S
Principal
SIET, TUMAKURU.



SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

DEPARTMENT OF ELECTRONICS & COMMUNICATION

SEM: VI

ACADEMIC YEAR:2021-2022

SUBJECT	OPERATING SYSTEM	SUBJECT CODE	18EC641
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COURSE OUTCOME

- CO1. Understand the services provided by an operating system.
- CO2. Explain how processes are synchronized and scheduled.
- CO3 Understand different approaches of memory management and virtual memory management.
- CO4 Describe the structure and organization of the file system
- CO5. Understand interprocess communication and deadlock situations

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				2021-2022				
COURSE	B.E	SEMESTER			VI	SECTION			A			
SUBJECT	OPERATING SYSTEM					SUBJECT CODE			18EC641			
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	2										1
CO2	1	3										1
CO3		3										1
CO4	1	3										1
CO5	2											1
AVERAGE												
OVERALL MAPPING OF SUBJECT												2.00

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	68.82	2.06	1.37										
CO2	69.58	0.69	2.08										
CO3	68.47		2.05										
CO4	75.39	0.75	2.26										
CO5	61.64	1.23											
AVERAGE	68.78	1.18	1.94										
FINAL ATTAINMENT LEVEL													1.56

AS
COURSE INSTRUCTOR

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**Department of Electronics & Communication Engineering****Course Outcomes and CO-PO- Articulation Matrix****2018 Scheme****ACADEMIC YEAR 2021-22****Semester-VI**

Subject: Programming in JAVA Prof. Raghavendra D							Subject Code: 18CS653					
Course Outcomes												
CO1	Learn fundamental features of object-oriented language and JAVA											
CO2	Set up Java JDK environment to create, debug and run simple Java programs.											
CO3	Learn object-oriented concepts using programming examples.											
CO4	Study the concepts of importing of packages and exception handling mechanism.											
CO5	Discuss the String Handling examples with Object-Oriented concepts											
CO-PO Mapping												
COs	Pos											
	1	2	3	4	5	6	7	8	9	10	11	12
CO1	1	2										1
CO2	1		2	3	2							1
CO3	2		3	3	3							
CO4	2	2	2	3	3							
CO5	2	1	2	1	2							
Average	1.6	1.6	1.8	1.6	1.8							

ATTAINMENT TABLE													
COs	AVG	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	66.38%	0.63	1.32										0.66
CO2	58.63%	0.58		1.17	1.75	1.17							0.58
CO3	61.47%			1.84	1.84	1.84							
CO4	59.34%	1.18	1.18	1.18	1.78	1.78							
CO5	57.20%	1.18	0.57	1.18	0.57	1.18							
AVERAGE		0.89	1.02	1.34	1.48	1.60							0.62
TOTAL ATTAINMENT													1.26

Course Instructor

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Roll No.	USN	Name	SEMESTER															SEMESTER										TOTAL MARKS																				
			I					II					III					IV					V						VI																			
			TH	TR	TA	CO1-20	CO2-20	CO3-20	CO4-20	CO5-20	CO6-20	CO7-20	CO8-20	CO9-20	CO10-20	CO11-20	CO12-20	CO13-20	CO14-20	CO15-20	CO16-20	CO17-20	CO18-20	CO19-20	CO20-20	CO21-20	CO22-20		CO23-20	CO24-20	CO25-20																	
1	IVYBEC01	AARJET SHANKH DEE	8	21	14	0	0	17	16	12	2	2	2	2	2	2	15	2	2	2	2	2	5	5	22	21	27	24																				
2	IVYBEC02	ARUN D P	20	31	28	16	14	16	16	14	11	2	2	2	2	2	18	2.2	2.2	2.2	2.2	2.2	21.2	19.1	23.1	20.1	19.1	20.1																				
3	IVYBEC03	ARASHI KODAMAZU	27	32	17	16	19	17	15	6	9	2	2	2	2	2	18	2	2	2	2	2	23	26	22	20	24	20.8																				
4	IVYBEC04	ASHLEEM YADAV	20	28	22	20	16	14	16	6	13	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	24.2	16.2	20.2	21.2	15.2	18.2																				
5	IVYBEC05	ARVYA MUSTANA	20	6	6	6	20	8	6	6	6	2	2	2	2	2	20	5.2	6.2	6.2	6.2	6.2	7.2	27.2	21.2	7.2	7.2	11.2																				
6	IVYBEC06	BHAYANA U	26	27	26	20	18	19	16	14	2	2	2	2	2	2	25	2	2	2	2	2	27	40	26	22	21	27																				
7	IVYBEC07	BHOORBA A D	40	34	36	20	20	17	17	20	13	2	2	2	2	2	20	7.8	7.8	7.8	7.8	7.8	29.8	42.8	28.8	26.8	23.8	30.4																				
8	IVYBEC08	CHANDAN M U	0	13	21	0	0	11	4	20	11	2	2	2	2	2	15	2	2	2	2	2	5	10	9	25	16	24.2																				
9	IVYBEC09	CEESHA VINEET P	26	28	40	18	18	16	13	20	20	2	2	2	2	2	27	7.4	7.4	7.4	7.4	7.4	27.4	47.4	22.4	29.4	28.4	21.2																				
10	IVYBEC10	DARSHAN M MANOJSHYAM	18	21	13	13	6	17	4	8	7	2	2	2	2	2	18	3.2	3.2	3.2	3.2	3.2	18.2	16.2	6.2	19.2	12.2	14.2																				
11	IVYBEC11	DVYA PNL	6	28	24	0	0	9	20	17	13	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	6.2	19.2	28.2	17.2	19.2	17.8																				
12	IVYBEC12	GAGANA Y	40	23	37	20	20	19	13	17	26	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	20.2	49.2	16.2	25.2	26.2	28.2																				
13	IVYBEC13	GEETHANMA S	26	27	26	20	15	17	20	15	26	2	2	2	2	2	48	6.2	6.2	6.2	6.2	6.2	21.2	46.2	21.2	29.2	21.2	26.2																				
14	IVYBEC14	HARSHITHA M	21	21	22	16	12	16	15	13	6	2	2	2	2	2	24	6.8	6.8	6.8	6.8	6.8	17.8	29.8	11.8	23.8	17.8	22.8																				
15	IVYBEC15	K.SANATHAN	32	40	28	20	12	20	20	18	13	2	2	2	2	2	27	4.2	4.2	4.2	4.2	4.2	26.2	31.2	26.2	21.2	18.2	24.8																				
16	IVYBEC16	K.SARAY	40	37	36	20	20	19	18	20	16	2	2	2	2	2	44	6.8	6.8	6.8	6.8	6.8	20.8	46.8	26.8	20.8	26.8	32.8																				
17	IVYBEC17	LAKSHMIKARISTEES	27	33	20	20	17	17	16	18	16	2	2	2	2	2	29	6.8	6.8	6.8	6.8	6.8	17.8	24.8	23.8	22.8	21.8	27.4																				
18	IVYBEC18	MEGHANA E	40	30	26	20	20	18	14	16	20	2	2	2	2	2	27	4.2	4.2	4.2	4.2	4.2	20.2	46.2	20.2	22.2	26.2	28.2																				
19	IVYBEC19	MUSKAN ZAHID	40	30	26	20	20	18	14	16	20	2	2	2	2	2	27	4.2	4.2	4.2	4.2	4.2	20.2	46.2	20.2	22.2	26.2	28.2																				
20	IVYBEC20	NALDIA DE	40	31	37	20	20	14	17	17	20	2	2	2	2	2	29	7.8	7.8	7.8	7.8	7.8	19.8	49.8	24.8	24.8	29.8	31.8																				
21	IVYBEC21	PREETHIKA A S	40	28	31	20	20	14	15	16	16	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	19.2	43.2	21.2	22.2	21.2	26.2																				
22	IVYBEC22	SHYADARSHINI M	27	34	22	20	17	17	17	13	9	2	2	2	2	2	41	6.2	6.2	6.2	6.2	6.2	20.2	36.2	17.2	20.2	19.2	27.2																				
23	IVYBEC23	SHAMANKHAN H K	26	25	40	20	15	18	17	20	20	2	2	2	2	2	26	7	7	7	7	7	26	44	24	24	26	21.4																				
24	IVYBEC24	SAHL SALAM	18	16	0	0	18	0	18	0	0	2	2	2	2	2	14	2.8	2.8	2.8	2.8	2.8	4.8	23.8	22.8	4.8	4.8	12.2																				
25	IVYBEC25	SARVA FATHIMA	20	26	20	20	9	16	17	12	11	2	2	2	2	2	20	6.4	6.4	6.4	6.4	6.4	26.4	24.4	25.4	20.4	18.4	22.8																				
26	IVYBEC26	SHARANARINIAE	28	18	32	20	18	16	0	16	16	2	2	2	2	2	14	2.8	2.8	2.8	2.8	2.8	24.8	28.8	4.8	20.8	20.8	21																				
27	IVYBEC27	SUREYA H	20	15	22	0	20	0	18	16	16	2	2	2	2	2	22	4.8	4.8	4.8	4.8	4.8	6.8	42.8	21.8	22.8	21.8	22.2																				
28	IVYBEC28	TAMWANTH C	20	25	0	20	6	18	17	0	0	2	2	2	2	2	11	1.2	1.2	1.2	1.2	1.2	23.2	3.2	26.2	6.2	6.2	10.8																				
29	IVYBEC29	SRINIVASU SHANKAR	28	29	21	13	14	13	16	15	6	2	2	2	2	2	14	2.8	2.8	2.8	2.8	2.8	26.8	24.8	23.8	22.8	22.8	23.8																				
30	IVYBEC30	Pooja Nimb	24	20	19	19	15	0	20	11	19	2	2	2	2	2	28	5.8	5.8	5.8	5.8	5.8	24.8	41.8	27.8	7.8	24.8	26																				
31	IVYBEC31	RIKHI T S	20	21	16	20	12	16	12	6	7	2	2	2	2	2	12	2.4	2.4	2.4	2.4	2.4	24.4	23.4	17.4	18.4	11.4	18																				
32	IVYBEC32	GANASHREE K R	28	23	25	18	6	17	6	15	10	2	2	2	2	2	10	2	2	2	2	2	25	28	18	19	14	17.8																				
33	IVYBEC33	Janani K R	20	6	18	18	6	6	1	7	6	2	2	2	2	2	24	4.8	4.8	4.8	4.8	4.8	24.8	21.8	7.8	18.8	13.8	17																				
																																										22.57	31.66	20.9	20.18	18.45		
																																										66.38	18.63	61.48	59.34	57.2	60.61	

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**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

SUBJECT	WIRELESS AND CELLULAR COMMUNICATION	SUBJECT CODE	18EC81
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COURSE OUTCOME

After studying this course, students will be able to:

CO1. Understand the Communication theory both Physical and network ing associated with GSM, CDMA& LTE 4G systems.

CO 2. Explain concepts of propagation mechanisms like Reflection, Dif fraction, Scattering in wireless channels.

CO 3. Develop a scheme for idle mode, call set up, call progress handling and call tear down in a GSM cellular network.

CO 4. Develop a scheme for idle mode, call set up, call progress handling and call tear down in a CDMA cellular network.

CO 5. Understand the Basic operations of Air interface in a LTE 4G system.

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	Dr.Umesh G B											
BRANCH	ECE			ACADEMIC YEAR				2021-22				
COURSE	B.E	SEMESTER	8 TH	SECTION				ECE				
SUBJECT	WIRELESS AND CELLULAR COMMUNICATION						SUBJECT CODE		18EC81			
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	1	1	1							2		
CO2	2	2	2							1		
CO3	3	1	2							1		
CO4	2	3	2							2		
CO5	1	1	1							1		
AVERAGE	1.8	1.6	1.6							1.4		
OVERALL MAPPING OF SUBJECT												1.6

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	56.56217	0.56	0.56	0.56							1.13		
CO2	56.54614	1.13	1.13	1.13							0.56		
CO3	55.7001	1.67	0.55	1.11							0.55		
CO4	57.73772	1.15	1.73	1.15							1.15		
CO5	59.46186	0.59	0.59	0.59							0.59		
AVERAGE	57.19%	1.02	0.91	0.90							0.79		
FINAL ATTAINMENT LEVEL													0.90

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SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION

SUBJECT	OPTICAL COMMUNICATION NETWORK	SUBJECT CODE	18EC824
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COURSE OUTCOME:

Course Outcomes or COs

After studying this course, students will be able to:

CO1: Classify and describe working of optical fiber with different modes of signal propagation.

CO2: Describe the transmission characteristics and losses in optical fiber communication.

CO3: Describe the construction and working principle of optical connectors, multiplexers and amplifiers.

CO4 : Describe the constructional features and the characteristics of optical Sources and detectors.

CO5: Illustrate the networking aspects of optical fiber and describe various standards associated with it.

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				2021-22				
COURSE	B.E	SEMESTER			VIII	SECTION			ECE			
SUBJECT	OPTICAL COMMUNICATION NETWORK						SUBJECT CODE			18EC824		
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
18EC824.1	3	2	3	2	3	2	-	-	-	-	2	3
18EC824.2	3	3	3	2	3	3	-	-		-	3	2
18EC824.3	3	3	2	2	3	3					3	3
18EC824.4	3	3	3	2	3	3					3	3
18EC824.5	2	3	3	2	3	3					3	3
Avg. Mapping	2.8	2.8	2.8	2	3	2.8					2.8	2.8
OVERALL MAPPING OF SUBJECT												2.7

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	77.52	2.32	1.55	2.32	1.55	2.32	1.55	-	-	-	-	1.55	2.32
CO2	79.20	2.37	2.37	2.44	1.58	2.37	2.37	-	-	-	-	2.37	1.58
CO3	73.69	2.21	2.21	2.09	1.47	2.21	2.21					2.21	2.21
CO4	74.20	2.26	2.26	2.26	1.48	2.26	2.26					2.26	2.26
CO5	72.28	1.14	2.16	2.16	1.44	2.16	2.16					2.16	2.16
AVERAGE	75.37	2.06	2.11	2.28	1.50	2.26	2.11					2.11	2.10
FINAL ATTAINMENT LEVEL													2.06

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**Department of Electronics & Communication Engineering****Course Outcomes and CO-PO- Articulation Matrix****2021 Scheme****ACADEMIC YEAR 2021-22****Semester-I**

Subject: Basic Electronics Dr.Umesha G B												Subject Code: 21ELN14	
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	68%	1.36		0.68									0.68
CO2	66%	1.98	1.98	1.32			1.32						0.66
CO3	58%	1.74	1.74	1.16			1.16						0.58
CO4	60%	1.80	1.80	1.20			1.20						0.60
CO5	52%	1.56											
AVERAGE		1.68	1.84	1.09			1.22						0.63
TOTAL ATTAINMENT													1.29

Umesha
Faculty

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Principal
Umesha
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**Department of Electronics & Communication Engineering****Course Outcomes and CO-PO- Articulation Matrix****2021 Scheme**
ACADEMIC YEAR 2021-22**Semester-II**

Subject: Basic Electronics												Subject Code: 21ELN24	
Dr.Pradeep K G M													
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	68%	1.36		0.68									0.68
CO2	66%	1.98	1.98	1.32			1.32						0.66
CO3	58%	1.74	1.74	1.16			1.16						0.58
CO4	60%	1.8	1.8	1.2			1.2						0.60
CO5	52%	1.56											
AVERAGE		1.68	1.84	1.09			1.22						0.63
TOTAL ATTAINMENT													1.29

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15V20C5023	20	20	25	8	6	12	20	20	20	20	18	55	2	2	2	2	2	6.2	6.2	6.2	6.2	6.2	29.2	29.2	34.2	34.2	41.2	42.94	42.94	48.13	48.13	54.39	54.39	51	4.2
15V20C5024	20	20	30	15	18	26	20	20	20	20	18	61	2	2	2	2	2	7.8	7.8	7.8	7.8	7.8	29.8	29.8	42.8	42.8	42.8	47.65	47.65	59.21	59.21	66.89	66.89	59	7.3
15V20V3001	20	20	2	2	15	17	20	20	20	20	6	89	2	2	2	2	2	4.8	4.8	4.8	4.8	4.8	25.8	26.8	28.8	41.8	32.8	39.82	39.82	55.33	55.33	77.41	77.41	24	4.3
15V20V3002	15	20	15	15	15	30	18	20	20	20	20	93	2	2	2	2	2	7.8	7.8	7.8	7.8	7.8	22.8	29.8	44.8	44.8	49.8	67.06	67.06	87.55	87.55	82.99	82.99	77.51	7.8
15V20V3003	8	20	28	15	15	30	8	20	20	20	20	99	2	2	2	2	2	5.2	5.2	5.2	5.2	5.2	13.2	27.2	42.2	42.2	47.2	38.82	38.82	80	78.15	78.15	75.75	26	5.2
15V20V3004	20	10	1	1	10	11	20	10	20	20	3	72	2	2	2	2	2	1	1	1	1	1	25	15	24	33	16	67.65	39.24	44.44	44.44	51.11	25	5	3
15V20V3005	15	20	8	1	1	2	15	20	20	20	20	93	2	2	2	2	2	1.8	1.6	1.6	1.6	1.6	1.8	16.6	23.6	24.6	24.6	43.6	48.82	69.41	43.38	43.38	68.13	8	1.8
15V20V3006	20	20	20	1	11	12	20	20	20	20	6	86	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	16.2	16.2	27.2	27.2	32.2	77.06	77.06	90.37	89.89	10.31	21	4.2	
15V20V3007	18	10	15	12	15	25	18	10	10	20	20	73	2	2	2	2	2	0.4	0.4	0.4	0.4	0.4	16.4	12.4	24.4	35.4	32.4	45.29	36.47	49.19	85.56	50.63	2	0.4	
15V20V3008	15	20	15	15	15	30	15	20	20	20	20	93	2	2	2	2	2	2.4	2.4	2.4	2.4	2.4	17.4	24.4	39.4	39.4	44.4	51.18	71.76	72.96	72.96	68.38	12	2.4	
15V20V3009	20	20	20	15	15	30	20	20	20	20	20	100	2	2	2	2	2	5.2	5.2	5.2	5.2	5.2	27.2	27.2	42.2	42.2	47.2	80	78.15	78.15	75.75	26	5.2		
15V21ME400	4	3	0	10	2	12	4	5	8	0	0	14	2	2	2	2	2	8.8	8.8	8.8	8.8	8.8	14.8	15.8	25.8	12.8	15.8	42.94	45.88	47.41	23.55	24.39	45	8.8	
15V21ME401	20	20	8	15	15	30	20	20	20	20	20	100	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	26.2	26.2	41.2	41.2	46.2	77.06	77.06	76.9	76.9	72.19	21	4.2	
15V21ME402	20	18	3	15	1	30	20	18	20	20	20	89	2	2	2	2	2	7.3	7.3	7.3	7.3	7.3	29.3	22.3	44.3	30.2	42.3	85.88	65.29	81.85	55.93	65.94	36	7.3	

Total 68.01 67.68 38.01 63.4 51.8
 km 68 38 60 52



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Manjunath
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