SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY, TUMKUR

DEPARTMENT OF ECE

CO-PO ATTAINMENT

ACADEMIC YEAR

2019-20

ODD SEM

SHRIDEVI

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

ESTD:2002 20 YEARS Academic Excellence

(COMMON TO ALL BRANCHES)
ACADEMIC YEAR: 2019-2020

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 CORELATION	LOW	MODERATELY	HIGHLY	NO
	1	2	3	0

PRINCIPAL
SIET, TUMAKURU.

Sri Shridevi Charitable Trust (R.)
SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY
Sira Road, Tumkur - 572 106, Karnataka, India.
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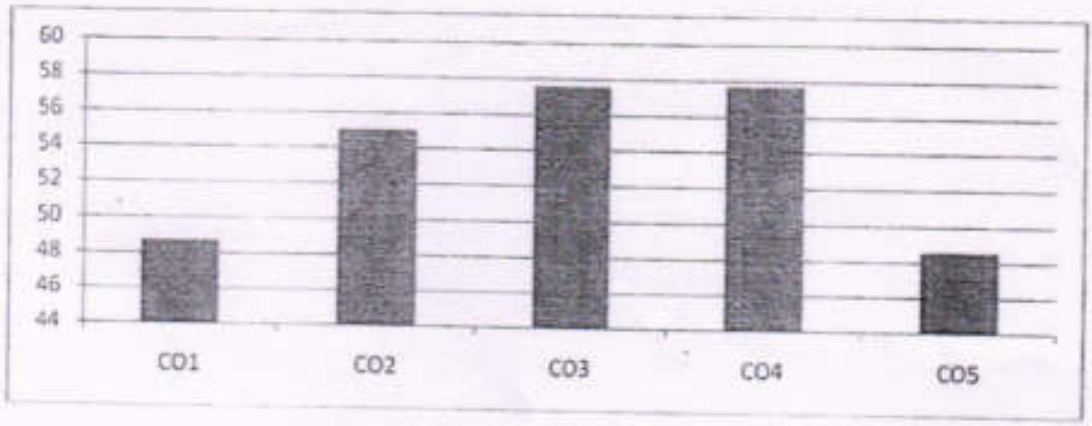
(Approved by AICTE, New Delhi, Recognized by Govt. of Karnataka and Affiliated to Visvesvaraya Technological University, Belagavi)

DEPARTMENT OF MATHEMATICS

COLLEGE		SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY			
FACULTY NAME		Dr. CHETANA C/Prof. RASHMI S B			
BRANCH		ECE/EEE/CSE/CVE/ISE/ME	ACADEMIC YEAR		2019-20
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	49	0.97	1.46	0	0	0	0	0	0	0	0	0	0.49
CO2	55	1.10	1.65	0	0	0	0	0	0	0	0	0	0.55
CO3	58	1.15	1.73	0	0	0	0	0	0	0	0	0	0.58
CO4	58	1.15	1.73	0	0	0	0	0	0	0	0	0	0.58
CO5	49	0.97	1.46	0	0	0	0	0	0	0	0	0	0.49
AVG	54	1	2	0	0	0	0	0	0	0	0	0	1
												Final attainment level	1.40



Staff in-charge

HOD

PRINCIPAL
SIET, TUMAKURU
Principal

PRINCIPAL
SIET, TUMAKURU.

15V18CV014	15	15	30	15	15	30	15	30	30	30	30	90	30	3	3	3	3	3	3.3	7.2	7.2	7.2	7.2	16.2	21.2	16.2	44.2	44.2	82.9	85.6	82.5	90.2	90.2				
15V18CV015	0	0	0	8	15	23	30	30	30	6	0	66	20	3	3	3	3	3	3.6	3.6	3.6	3.6	3.6	25.6	25.6	33.6	33.6	20.6	75.3	75.3	52.5	71.7	42.0				
15V18CV017	15	12	23	2	15	17	6	30	30	30	30	46	16	3	3	3	3	3	3	3	3	3	3	15	19	36	31	34	46.1	55.9	56.3	65.3	69.4				
15V18CV019	15	15	30	15	15	29	12	30	30	30	30	90	30	3	3	3	3	3	3.4	6.4	6.4	6.4	6.4	20.6	25.8	50.4	43.4	43.4	60.0	83.5	85.0	88.6	88.6				
15V18CV021	10	10	20	4	15	19	3	20	20	20	20	90	26	3	3	3	3	3	3.4	6.4	6.4	6.4	6.4	20.6	25.8	50.4	43.4	43.4	60.0	83.5	85.0	88.6	88.6				
15V18CV022	7	13	14	5	15	20	10	19	10	10	10	83	25	3	3	3	3	3	3.2	6.2	6.2	6.2	6.2	21.2	26.2	42.2	36.2	43.2	32.9	87.9	65.9	78.0	88.2				
15V18CV023	15	15	30	6	15	21	3	30	30	30	30	53	16	3	3	3	3	3	3	3	3	3	3	17	17	24	29	41	50.0	50.0	37.5	59.2	83.7				
15V18CV024	15	10	25	5	15	20	5	5	5	5	5	96	23	3	3	3	3	3	6.4	6.4	6.4	6.4	6.4	21.4	26.4	49.4	43.4	43.4	33.5	34.1	77.2	88.6	88.6				
15V18CV025	5	6	9	3	15	18	10	30	30	30	30	96	23	3	3	3	3	3	3	3	3	3	3	12	12	32	23	31	35.5	35.1	50.0	64.9	65.3				
15V18CV026	8	5	18	8	5	9	10	10	10	10	10	56	13	3	3	3	3	3	4.8	4.8	4.8	4.8	4.8	16.8	16.8	24.8	20.8	31.8	49.4	49.4	36.8	42.4	64.3				
15V18CV028	8	5	8	4	4	8	0	10	10	10	10	56	12	3	3	3	3	3	4.2	4.2	4.2	4.2	4.2	16.2	16.2	33.2	21.2	27.2	43.6	47.6	33.9	43.3	55.5				
15V18CV029	12	4	16	4	12	16	13	10	10	10	10	40	13	3	3	3	3	3	0.6	0.6	0.6	0.6	0.6	7.6	12.6	19.6	17.6	16.6	7.6	37.1	30.6	35.9	33.9				
15V18CV030	0	1	1	5	4	9	10	10	10	10	10	16	56	17	3	3	3	3	6.6	6.6	6.6	6.6	6.6	21.6	18.6	34.6	22.6	30.6	63.5	54.1	54.1	46.1	67.4				
15V18CV031	11	11	22	11	3	14	1	6	20	20	20	69	23	3	3	3	3	3	3	3	3	3	3	15	15	20	16	25	44.1	44.1	31.3	37.7	51.0				
15V18CV033	14	12	26	9	12	21	19	20	20	20	20	69	23	3	3	3	3	3	4.6	4.6	4.6	4.6	4.6	9.6	13.6	48.6	37.6	29.6	28.8	37.1	75.9	76.7	80.4				
15V18CV034	11	10	21	9	12	21	9	19	20	20	20	69	23	3	3	3	3	3	5.4	5.4	5.4	5.4	5.4	10.4	31.4	54.4	43.4	43.4	83.4	52.4	85.0	88.6	88.6				
15V18CV038	11	13	24	16	13	23	6	20	20	20	20	86	26	3	3	3	3	3	6.4	6.4	6.4	6.4	6.4	14.4	18.4	48.4	38.4	43.4	48.4	54.1	75.5	78.4	82.4				
15V18CV039	15	13	28	13	15	28	9	10	20	20	20	76	24	3	3	3	3	3	5.2	5.2	5.2	5.2	5.2	13.2	27.2	48.2	39.2	39.2	38.8	80.0	75.3	80.0	80.0				
15V18CV042	13	13	26	8	12	20	3	10	20	20	20	76	24	3	3	3	3	3	0	0	0	0	0	11	17	50	37	37	37.4	75.5	78.1	75.5	75.5				
15V18CV043	15	15	30	12	10	22	6	10	20	20	20	73	22	3	3	3	3	3	3	3	3	3	3	8	15	40	38	37	23.5	44.1	70.3	77.6	75.5				
15V18CV045	5	4	9	13	5	16	5	5	5	5	0	30	6	3	3	3	3	3	7.6	7.6	7.6	7.6	7.6	15.6	19.6	56.6	44.6	39.6	45.9	57.6	80.4	91.0	80.6				
15V18CV046	2	0	3	5	13	17	0	10	10	10	10	40	12	3	3	3	3	3	5.2	5.2	5.2	5.2	5.2	10.2	32.2	26.2	34.2	10.2	30.0	30.6	40.9	23.0	20.8				
15V19CV400	15	15	30	5	0	5	3	3	3	3	3	13	4	3	3	3	3	3	5	5	5	5	5	7	17	23.2	17.2	29.2	21.2	50.6	36.3	35.1	55.6				
15V19CV401	13	15	28	6	8	12	16	10	20	20	20	56	17	3	3	3	3	3	4.8	4.8	4.8	4.8	4.8	27.8	16.8	35.8	31.8	22.8	67.1	49.4	55.9	64.9	46.5				
15V19CV005	6	7	13	4	4	8	0	5	5	10	10	56	13	3	3	3	3	3	1	1	1	1	1	9	9	38	30	17	70.5	33.5	28.1	40.9	34.7				
15V18CV003	12	11	23	15	4	19	6	5	5	10	10	76	13	3	3	3	3	3	5.4	5.4	5.4	5.4	5.4	13.4	12.4	89.4	28.4	21.4	83.4	36.5	81.6	58.0	43.7				
15V18CV004	0	0	0	13	3	16	10	10	10	10	10	6	46	14	3	3	3	3	3.6	3.6	3.6	3.6	3.6	13.6	15.6	20.6	15.6	10.6	45.9	45.9	41.6	31.8	33.5				
15V18CV007	3	7	14	5	0	5	10	10	10	10	10	6	46	14	3	3	3	3	4.2	4.2	4.2	4.2	4.2	16.2	16.2	28.2	21.2	12.2	47.6	47.6	44.1	47.3	24.9				
15V18CV008	5	9	8	5	6	11	10	10	10	10	3	43	13	3	3	3	3	3	5.4	5.4	5.4	5.4	5.4	17.4	17.4	27.4	20.4	16.4	51.2	51.2	42.8	41.6	33.5				
15V18CV011	11	10	21	13	5	18	10	10	10	10	10	50	15	3	3	3	3	3	6	6	6	6	6	18	18	42	28	23	52.9	52.9	65.6	57.1	46.9				
15V18CV013	15	15	30	14	5	19	9	30	20	20	20	89	27	3	3	3	3	3	10.2	10.2	10.2	10.2	10.2	21.2	37.2	61.2	47.2	37.2	62.6	94.7	95.6	96.3	75.9				
15V18CV014	13	13	26	0	0	0	6	0	20	20	20	66	20	3	3	3	3	3	7.4	7.4	7.4	7.4	7.4	15.4	9.4	42.4	42.4	29.4	45.3	27.8	66.2	86.5	60.0				
15V18CV015	4	5	9	7	8	15	10	30	10	10	6	46	14	3	3	3	3	3	5.4	5.4	5.4	5.4	5.4	17.4	17.4	28.4	22.4	21.4	51.2	51.2	44.4	45.7	43.7				
15V18CV017	10	10	20	7	8	15	0	3	20	20	20	83	19	3	3	3	3	3	4.2	4.2	4.2	4.2	4.2	6.2	9.2	93.2	86.2	84.2	38.2	27.1	67.5	73.0	69.8				
15V18CV018	13	5	18	10	10	20	13	20	20	20	20	92	28	3	3	3	3	3	10.2	10.2	10.2	10.2	10.2	24.2	32.2	59.2	37.2	42.2	71.2	96.7	86.3	75.9	86.1				
15V18CV019	13	5	18	13	10	23	9	30	20	20	20	80	27	3	3	3	3	3	6.6	6.6	6.6	6.6	6.6	17.6	28.6	54.6	33.6	38.6	51.8	84.1	85.3	68.6	78.8				
15V18CV020	5	6	11	3	0	3	10	10	10	10	10	16	56	17	3	3	3	3	3.4	3.4	3.4	3.4	3.4	15.4	15.4	23.4	21.4	21.4	45.3	45.3	36.9	43.7	43.7				
15V18CV026	8	7	15	6	5	11	20	20	20	6	0	66	20	3	3	3	3	3	5.6	5.6	5.6	5.6	5.6	27.6	27.6	41.6	20.6	12.6	81.2	81.2	65.0	42.0	25.7				
15V19CV027	11	11	22	15	10	25	9	20	20	20	20	73	23	3	3	3	3	3	5	5	5	5	5	10	27	47	42	34	29.4	79.4	73.4	85.7	68.4				
15V19CV028	6	5	9	3	3	6	9	10	20	20	20	73	24	3	3	3	3	3	4.2	4.2	4.2	4.2	4.2	11.2	16.2	33.2	31.2	29.2	44.7	67.6	51.9	63.7	59.6				
15V19CV029	8	4	8	4	3	7	10	10	10	10	10	53	16	3	3	3	3	3	5	5	5	5	5	17	17	25	21	29	50.0	50.0	29.1	42.9	46.9				
15V18CV030	11	11	22	15	10	25	9	20	20	20	20	80	22	3	3	3	3	3	7	7	7	7	7	16	29	55	40	39	52.9	81.3	85.9	81.4	79.6				
15V18CV031	14	14	28	15	10	25	6	20	20	20	20	86	26	3	3	3	3	3	7.2	7.2	7.2	7.2	7.2	25.2	29.2	56.2	43.2	29.2	44.7	85.9	80.9	88.2	80.0				
15V19CV400	15	15	30	5	0	5	10	10	10	10	10	53	15	3	3	3	3	3	3.6	3.6	3.6	3.6	3.6	13.6	13.6	33.6	28.6	16.6	40.9	40.0	52.5	58.4	33.9				
15V19CV401	15	15	30	6	0	6	0	10	10	10	10	40	12	3	3	3	3	3	0	0	0	0	0	3	12	33	22	12	5.9	35.3	53.6	44.9	24.5				
15V19CV402	15	15	30	5	0	5	10	10	10	10	3	43	13	3	3	3	3	3	5.2	5.2	5.2	5.2	5.2	17.2	17.2	37.2	32.2	10.2	50.6	50.6	58.1	65.7	20.8				
15V19CV403	5	8	5	7	7	14	19	10	10	10	10	59	18	3	3	3	3	3	1.2	1.2	1.2	1.2	1.2	22.2	13.2	25.2	18.2	20.2	65.3	38.8	39.4	26.9	41.2				
15V19CV404	13	15	28	3	3	6	10	10	10	10	0	40	12	3	3	3	3	3	6.6	6.6	6.6	6.6	6.6	18.6	18.6	34.6	33.6	11.6	54.7	54.7	54.1	68.6	73.7				
15V19CV405	13	15	28	0	6	6	16	20	20	20	20	96	29	3	3	3	3	3	3	3	3	3	3	21	25	38	40	31	61.8	73.5	59.4	81.6	63.3				
15V19CV406	14	14	28	7	7	14	10	10	10	0	0	30	9	3	3	3	3	3	1.6	1.6	1.6	1.6	1.6	13.6	13.6	34.6	17.6	30.6	45.0	40.0	34.1	35.9	31.6				
15V19CV407	15	15	30	3	3	6	0	6	20	20	20	69	21	3	3	3	3	3	2.6	2.6	2.6	2.6	2.6	4.6	13.6	42.6	39.6	27.6	13.5	40.0	36.6	80.8	36.3				
15V19CV408	12	15	27	4	3	7	13	10	10	10	10	53	16	3	3	3	3	3	3.4	3.4	3.4	3.4	3.4	18.4	15.4	31.4	30.4	18.4	54.1	45.3	43.1	63.0	37.6				
15V19CV409	12	15	27	10	10	20	6	20	20	20	20	86	26	3	3	3	3	3	4.4	4.4	4.4	4.4	4.4	12.4	26.4	48.4	41.4	36.4	36.5	77.6	75.8	84.5	74.9				
15V19CV410	12	15	27	1	0	1	10	10	10	0	0	30	9	3	3	3	3	3	3	3	3	3	3	15	15	28	20	5	44.1	44.1	43.8	40.8	10.2				
15V19CV411	12	15	27	3	0	3	0	5	5	5	5	20	6	3	3	3	3	3	1.8	1.8	1.8	1.8	1.8	3.8	8.8	27.8	21.8	8.8	11.2	25.9	35.6	48.6	18.0				
15V19CV412	15	15	30	4	0	4	10	10	10	10	6	46	14	3	3	3	3	3	3	3	3	3	3	15	15	34	30	11	44.1	44.1	53.1	61.2	22.4				
15V19CV413	13	15	28	3	0	3	10	10	10	10	6	46	14	3	3	3	3	3	2.6	2.6	2.6	2.6	2.6	14.6	14.6	30.6	29.6	10.6	42.9	42.9	47.8	60.4	21.6				
15V19CV414	13	15	28	0	4	4	10	10	10	0	0	30	9	3	3	3	3	3	4.2	4.2	4.2	4.2	4.2	16.2	16.2	29.2	21.2	10.2	47.6	47.6	45.6	43.3	20.8				
15V19CV415	14	15	29	0	2	2	0	5	5	5	5	20	6	3	3	3	3	3	5.4	5.4	5.4	5.4	5.4	7.4	12.4	26.4	27.4	14.4	21.8	36.5	41.3	55.9	29.4				
15V19CV416	10	15	25	0	4	4	10	10	10	10	13	53	16	3	3	3	3	3	4.2	4.2	4.2	4.2	4.2	16.2	16.2	26.2	31.2	23.2	47.6	47.6	40.9	63.7	47.3				
15V19CV417	13	15	28	0	5	5	0	0	10	10	10	30	9	3	3	3	3	3	2.8	2.8	2.8	2.8	2.8	4.8	4.8	27.8	29.8	29.8	14.1	14.1	43.4	60.8	40.4				
15V19CV418	8	15	23	0	5	5	3	3	3	1	0	7	2	3	3	3	3	3	10.2	10.2	10.2	10.2	10.2	18.2	14.2	22.2	28.2	17.2	41.8	41.8	34.7	57.6	35.1				

PRINCIPAL
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(Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka and Affiliated to Visvesvaraya Technological University, Belagavi)

Department of Electronics & Communication Engineering

Course Outcomes and CO-PO- Articulation Matrix

2018 Scheme

ACADEMIC YEAR 2019-20

Semester-III

Subject: NETWORK THEORY Faculty Name : Prof.Sandhya R	Subject Code: 18EC32

Course Outcomes	
CO1	At the End of the course, the students will be ableto
CO2	Determine currents and voltages using source transformation/ source shifting/ mesh/ nodal analysis and reduce given network using star-delta transformation/source transformation/ source shifting.
CO3	Solve network problems by applying Superposition/ Reciprocity/ Thevenin's/ Norton's/ Maximum Power Transfer/ Millman's Network Theorems
CO4	complexities and to arrive at feasible solutions. Calculate current and voltages for the given circuit under transient conditions.
CO5	Apply Laplace transform to solve the given network. Solve the given network using specified two port network parameter like Z or Y or T or h. Understand the concept of resonance

CO-PO Mapping

COs	Pos											
	1	2	3	4	5	6	7	8	9	10	11	12
CO1	3	2	2									
CO2	3	3	3									
CO3	3	3	3	2								2
CO4	3	3	3	2								2
CO5	3	3	3	2								
Average	3	2.8	2.8	2								2

ATTAINMENT TABLE

COs	AVG	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	66.13%	1.98	1.32	1.32									
CO2	68.4%	2.05	2.05	2.05									
CO3	67.53%	2.02	2.02	2.02	1.35								1.35
CO4	67.4%	2.02	2.02	2.02	1.29								1.29
CO5	61.53%	1.84	1.84	1.84	1.23								
AVERAGE		1.98	1.85	1.85	1.29								1.32
TOTAL ATTAINMENT													1.65

COURSE INSTRUCTOR

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			18EC32		2019-2020 ODD						SEM :: 5TH	PROF. SANDHYA R				SUB NETWORK THEORY											
												ASSIGNMENT (CR)					SET										
Reg No	USN	Name	T1(30)	T2(30)	T3(30)	CO4-15	CO2-15	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	CO1-29	CO2-44	CO3-29	CO4-29	CO5-29	TOTAL AVERAGE
1	1SV17EC012	RAVISH KUMAR	16	19	15	9	7	8	11	14	8	2	2	2	2	2	30	6	6	6	6	6	17	23	19	22	16	19.4
2	1SV18EC002	ANUSHA G S	28	4	29	13	15	15	15	15	15	2	2	2	2	2	17	3.4	3.4	3.4	3.4	3.4	18.4	35.4	30.4	30.4	20.4	23
3	1SV18EC004	BASAVARAJ	23	23	30	12	11	13	11	14	8	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	18.2	23.2	17.2	20.2	12.2	18.2
4	1SV18EC005	BHARATHI M	25	18	30	12	13	15	15	11	14	2	2	2	2	2	42	8.4	8.4	8.4	8.4	8.4	22.4	37.4	25.4	31.4	24.4	26.2
5	1SV18EC006	BRUNDA K	28	40	26	15	13	15	14	14	15	2	2	2	2	2	26	5.2	5.2	5.2	5.2	5.2	22.2	35.2	21.2	31.2	22.2	24.4
6	1SV18EC007	CHANDANA D	28	34	30	15	13	15	15	13	15	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	21.2	34.2	21.2	19.2	21.2	23.4
7	1SV18EC008	DEVIKA L	24	37	30	15	9	12	13	15	13	2	2	2	2	2	22	4.4	4.4	4.4	4.4	4.4	21.4	28.4	19.4	21.4	19.4	22
8	1SV18EC009	GURANNAGOUDA	30	35	22	15	15	10	10	13	13	2	2	2	2	2	14	2.8	2.8	2.8	2.8	2.8	19.8	32.8	14.8	17.8	17.8	20.6
9	1SV18EC010	KETANRAJ S	14	40	30	7	7	10	9	13	5	2	2	2	2	2	23	4.6	4.6	4.6	4.6	4.6	13.6	18.6	15.6	19.6	11.6	15.8
10	1SV18EC011	LATHASHREE K R	27	33	30	14	13	15	15	15	15	2	2	2	2	2	15	3	3	3	3	3	19	33	20	20	20	22.4
11	1SV18EC012	MOUNESHGOWDA	23	30	24	11	12	13	11	15	12	2	2	2	2	2	33	6.6	6.6	6.6	6.6	6.6	19.6	32.6	19.6	23.6	20.6	23.2
12	1SV18EC013	MOUNIKA Y	28	39	30	15	13	15	15	15	15	2	2	2	2	2	24	4.8	4.8	4.8	4.8	4.8	21.8	34.8	21.8	21.8	21.8	24.4
13	1SV18EC014	NAGESH D R	22	39	30	10	12	13	15	14	10	2	2	2	2	2	30	6	6	6	6	6	18	30	23	22	18	23.3
14	1SV18EC016	PRASHANTH M	30	38	30	15	15	14	12	13	11	2	2	2	2	2	14	2.8	2.8	2.8	2.8	2.8	19.8	30.8	16.8	17.8	15.8	20.2
15	1SV18EC018	RACHANA S R	30	35	30	15	15	11	15	15	13	2	2	2	2	2	17	3.4	3.4	3.4	3.4	3.4	20.4	33.4	20.4	20.4	18.4	22.6
16	1SV18EC019	SADAF NAZ	30	39	25	15	15	13	14	13	10	2	2	2	2	2	15	3	3	3	3	3	20	30	19	18	15	20.4
17	1SV18EC020	SAMEER BICHAGATTI	23	39	30	14	9	14	13	15	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	20.2	29.2	19.2	21.2	20.2	22
18	1SV18EC021	SHIRISHA R T	22	40	30	15	7	13	15	14	8	2	2	2	2	2	8	1.6	1.6	1.6	1.6	1.6	18.6	18.6	18.6	17.6	11.6	17
19	1SV18EC022	SIDRAM	23	40	25	9	14	10	10	12	12	2	2	2	2	2	14	2.8	2.8	2.8	2.8	2.8	13.8	30.8	14.8	16.8	16.8	18.6
20	1SV18EC023	SRINIVAS C	24	33	30	15	9	15	14	10	12	2	2	2	2	2	25	5	5	5	5	5	23	28	21	17	19	21.4
21	1SV18EC024	YASHASWINI K Y	27	37	30	15	12	11	13	14	12	2	2	2	2	2	18	3.6	3.6	3.6	3.6	3.6	20.6	29.6	18.6	19.6	17.6	21.2
22	1SV19EC0400	ARUNA R N	29	29	30	14	15	14	15	15	14	2	2	2	2	2	27	5.4	5.4	5.4	5.4	5.4	21.4	36.4	22.4	22.4	21.4	24.8
23	1SV19EC0401	JYOTHI R	30	33	30	15	14	15	14	14	15	2	2	2	2	2	11	2.2	2.2	2.2	2.2	2.2	19.2	33.2	18.2	18.2	19.2	21.6
24	1SV19EC0402	MAHADEVAIAH M B	30	37	30	15	15	14	15	15	8	2	2	2	2	2	6	1.2	1.2	1.2	1.2	1.2	18.2	26.2	18.2	18.2	11.2	18.4
25	1SV19EC0403	NAVYASHREE S M	16	38	30	4	12	2	13	3	14	2	2	2	2	2	15	3	3	3	3	3	9	31	18	8	19	17
26	1SV19EC404	PRAVEEN G D	24	23	30	12	12	11	14	13	6	2	2	2	2	2	22	4.4	4.4	4.4	4.4	4.4	18.4	24.4	20.4	19.4	12.4	19
27	1SV19EC405	SWAMY M	27	40	37	13	14	13	14	12	8	2	2	2	2	2	43	8.6	8.6	8.6	8.6	8.6	23.6	32.6	24.6	22.6	18.6	24.4
28																												
29																												
30																							66.13%	68.40%	67.53%	67.40%	61.53%	
31																												
32																												
33																												

COURSE INSTRUCTOR

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COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	Prof. Prabitha D K											
BRANCH	ECE			ACADEMIC YEAR			2019-20					
COURSE	B.E	SEMESTER	3RD	SECTION	ECE							
SUBJECT	ELECTRONIC DEVICES			SUBJECT CODE	18EC33							

CO & PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	1	2	2	1								
CO2	1	1	1	2								
CO3	2	1	1	2								
CO4	1	1	2	2								
AVERAGE	1.25	1.25	1.5	1.75								
OVERALL MAPPING OF SUBJECT												1.43

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	47.06374	0.47	0.94	0.94	0.47								
CO2	54.50413	0.54	0.54	0.54	1.09								
CO3	53.12435	1.06	0.53	0.53	1.06								
CO4	52.91536	0.52	0.52	1.05	1.05								
AVERAGE		0.64	0.63	0.93	1.08								
FINAL ATTAINMENT LEVEL													0.82

COURSE INSTRUCTOR

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SIET, Tumkur-6

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

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

SUBJECT	ELECTRONIC DEVICES	SUBJECT CODE	18EC33

COURSE OUTCOME

After studying this course, students will be able to:

CO1• Understand the principles of semiconductor Physics
CO2• Understand the principles and characteristics of different types of semiconductor devices
CO3• Understand the fabrication process of semiconductor devices.
CO4•Utilize the mathematical models of semiconductor junctions and MOS transistors for circuits 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.

Academic ye	2019-20				SEM:III			Total strength	27	ECTRONI									18EC33									
USN	NAME	A TEST 1(30M			A TEST 2(30M			ASSIGNEMENT / QUIZ(				SEE MARKS(60)				Total Cos ATTAINMENT				% of Individual CO				SEE Tot	
		CO1	CO2	TOTAL	CO3	CO4	TOTAL	CO1	CO2	CO3	CO4	CO1	CO2	CO3	CO4	CO1	CO2	CO3	CO4	CO1	CO2	CO3	CO4	60M	
SV17EC01	RAVISH KUMAR	11	11	22	6	14	20	13	12	25	2	2	2	2	4.2	4	4	4	17.2	23.2	20.2	19.2	59.3	52.7	69.7	66.2	21	4.2
SV18EC00	ANUSHA G S	10	15	25	13	14	27	14	13	27	2	2	2	2	4.8	5	5	5	16.8	34.8	20.8	20.8	57.9	79.1	71.7	71.7	24	4.8
SV18EC00	BASAVARAJ	6	9	15	6	12	18	13	1	14	2	2	2	2	5.6	6	6	6	13.6	22.6	19.6	20.6	46.9	51.4	67.6	71	28	5.6
SV18EC00	BHARATHI M	10	10	20	10	14	24	11	10	21	2	2	2	2	4.8	5	5	5	16.8	26.8	20.8	17.8	57.9	60.9	71.7	61.4	24	4.8
SV18EC00	BRUNDA K	10	14	24	9	15	24	14	12	26	2	2	2	2	5.4	5	5	5	17.4	30.4	22.4	21.4	60	69.1	77.2	73.8	27	5.4
SV18EC00	CHANDANA D	9	12	21	15	14	29	12	13	25	2	2	2	2	7.8	8	8	8	18.8	36.8	23.8	21.8	64.8	83.6	82.1	75.2	39	7.8
SV18EC00	DEVIKA L	11	14	25	9	14	23	12	13	25	2	2	2	2	4.2	4	4	4	17.2	29.2	20.2	18.2	59.3	66.4	69.7	62.8	21	4.2
SV18EC00	GURANNAGOUD	10	12	22	12	14	26	11	11	22	2	2	2	2	5	5	5	5	17	31	21	18	58.6	70.5	72.4	62.1	25	5
SV18EC01	KETANRAJ S	7	7	14	8	11	19	10	4	14	2	2	2	2	1.2	1	1	1	10.2	18.2	14.2	13.2	35.2	41.4	49	45.5	6	1.2
SV18EC01	LATHASHREE K I	14	14	28	6	14	20	11	13	24	2	2	2	2	6	6	6	6	22	28	22	19	75.9	63.6	75.9	65.5	30	6
SV18EC01	MOUNESHGOWD	12	14	26	12	12	24	11	2	13	2	2	2	2	4.2	4	4	4	18.2	32.2	18.2	17.2	62.8	73.2	62.8	59.3	21	4.2
SV18EC01	MOUNIKA Y	14	15	29	14	15	29	15	13	28	2	2	2	2	7.2	7	7	7	23.2	38.2	24.2	24.2	80	86.8	83.4	83.4	36	7.2
SV18EC01	NAGESH D R	9	12	21	10	15	25	13	8	21	2	2	2	2	6	6	6	6	17	30	23	21	58.6	68.2	79.3	72.4	30	6
SV18EC01	PRASHANTH M	14	13	27	14	11	25	13	10	23	2	2	2	2	5.8	6	6	6	21.8	34.8	18.8	20.8	75.2	79.1	64.8	71.7	29	5.8
SV18EC01	RACHANA S R	12	14	26	11	13	24	12	13	25	2	2	2	2	4.8	5	5	5	18.8	31.8	19.8	18.8	64.8	72.3	68.3	64.8	24	4.8
SV18EC01	SADAF NAZ	11	14	25	12	15	27	12	8	20	2	2	2	2	5.2	5	5	5	18.2	33.2	22.2	19.2	62.8	75.5	76.6	66.2	26	5.2
SV18EC02	SAMEER BICHAG	10	10	20	15	13	28	14	14	28	2	2	2	2	6.6	7	7	7	18.6	33.6	21.6	22.6	64.1	76.4	74.5	77.9	33	6.6
SV18EC02	SHIRISHA R T	12	13	25	12	13	25	12	11	23	2	2	2	2	3.2	3	3	3	17.2	30.2	18.2	17.2	59.3	68.6	62.8	59.3	16	3.2
SV18EC02	SIDRAM	8	8	16	13		13	10	5	15	2	2	2	2	4.6	5	5	5	14.6	27.6	6.6	16.6	50.3	62.7	22.8	57.2	23	4.6
SV18EC02	SRINIVAS C	10	11	21	13	14	27	13	8	21	2	2	2	2	4.8	5	5	5	16.8	30.8	20.8	19.8	57.9	70	71.7	68.3	24	4.8
SV18EC02	YASHASWINI K Y	9	13	22	8	13	21	13	11	24	2	2	2	2	4.2	4	4	4	15.2	27.2	19.2	19.2	52.4	61.8	66.2	66.2	21	4.2
SV19EC40	ARUNA R N	6	7	13	12	12	24	11	5	16	2	2	2	2	4.8	5	5	5	12.8	25.8	18.8	17.8	44.1	58.6	64.8	61.4	24	4.8
SV19EC40	JYOTHI R	12	13	25	14	13	27	12	10	22	2	2	2	2	5.8	6	6	6	19.8	34.8	20.8	19.8	68.3	79.1	71.7	68.3	29	5.8
SV19EC40	MAHADEVAIAH	10	12	22	6	5	11	14	10	14	2	2	2	2	2.8	3	3	3	14.8	22.8	9.8	18.8	51	51.8	33.8	64.8	14	2.8
SV19EC40	NAVYASHREE S I	8	8	16	14	5	19	11	7	11	2	2	2	2	1	1	1	1	11	25	8	14	37.9	56.8	27.6	48.3	5	1
SV19EC40	PRAVEEN G D	4	8	12	12	13	25	14	5	19	2	2	2	2	1.2	1	1	1	7.2	23.2	16.2	17.2	24.8	52.7	55.9	59.3	6	1.2
SV19EC40	SWAMY M	14	14	28	11	13	24	8	7	15	2	2	2	2	2.2	2	2	2	18.2	29.2	17.2	12.2	62.8	66.4	59.3	42.1	11	2.2
																							47.1	54.5	53.1	52.9	22.9	45
																											38.1	

Faculty HOD Principal

HOD
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(Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka and Affiliated to Visvesvaraya Technological University, Belagavi)

Department of Electronics & Communication Engineering

Course Outcomes and CO-PO- Articulation Matrix

2018 Scheme
ACADEMIC YEAR 2019-20

Semester-III

Subject: Digital System Design Prof. Raghavedra D	Subject Code: 18EC34

Course Outcomes	
CO1	Illustrate simplification of Algebraic equations using Karnaugh Maps and Quine-Mc Clusky Techniques.
CO2	Design Decoders, Encoders, Digital Multiplexer, Adders, Subtractors and Binary Comparators.
CO3	Describe Latches and Flip-flops, Registers and Counters.
CO4	Analyze Mealy and Moore Models.
CO5	Develop state diagrams Synchronous Sequential Circuits.

CO-PO Mapping

COs	Pos											
	1	2	3	4	5	6	7	8	9	10	11	12
CO1	3	2	2		2							
CO2	3	3	3		3							
CO3	3	3	3	2	3							2
CO4	3	3	3	2	3							2
CO5	3	3	3	2	3							
Average	3	2.8	2.8	2	2.8							2

ATTAINMENT TABLE

COs	AVG	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	66.13%	1.98	1.32	1.32		1.32							
CO2	68.4%	2.05	2.05	2.05		2							
CO3	67.53%	2.02	2.02	2.02	1.35	2.02							1.35
CO4	67.4%	2.02	2.02	2.02	1.29	2.02							1.29
CO5	61.53%	1.84	1.84	1.84	1.23	1.84							
AVERAGE		1.98	1.85	1.85	1.29	1.84							1.32
TOTAL ATTAINMENT													1.68

Course Instructor

HOD
Dept of E&C
SIET, Tumkur-6

HOD

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Roll No.	USN	Name	T1(30)	T2(30)	T3(30)	CO1-15	CO2-15	CO3-15	CO4-15	CO5-15	CO1-2	CO2-2	CO3-2	CO4-2	CO5-2	SEE	CO1-12	CO2-12	CO3-12	CO4-12	CO5-12	CO1-28	CO2-44	CO3-28	CO4-28	CO5-28	TOTAL AVERAGE
1	1SV17EC012	RAVISH KUMAR	16	19	16	8	7	8	11	14	8	2	2	2	2	2	30	8	8	8	8	8	17	23	19	22	16	19.4
2	1SV18EC002	ANUSHA G S	28	4	29	13	15	15	15	15	15	2	2	2	2	2	17	3.4	3.4	3.4	3.4	3.4	18.4	31.4	20.4	20.4	20.4	22
3	1SV18EC004	BASAVARAJ	25	22	30	12	11	13	11	14	8	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	18.2	23.2	17.2	20.2	12.2	18.2
4	1SV18EC005	BHARATHI M	25	18	31	12	13	15	15	11	14	2	2	2	2	2	42	8.4	8.4	8.4	8.4	8.4	22.4	37.4	25.4	21.4	24.4	26.2
5	1SV18EC006	BRUNDA K	26	40	40	15	13	15	14	14	15	2	2	2	2	2	26	5.2	5.2	5.2	5.2	5.2	22.2	35.2	21.2	21.2	22.2	24.4
6	1SV18EC007	CHANDANA D	28	34	40	15	13	15	15	13	15	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	21.2	34.2	21.2	19.2	21.2	23.4
7	1SV18EC008	DEVIKA L	24	37	39	15	9	12	13	15	13	2	2	2	2	2	22	4.4	4.4	4.4	4.4	4.4	21.4	28.4	19.4	21.4	19.4	22
8	1SV18EC009	GURANNAGOUDA	30	35	14	15	15	10	10	13	13	2	2	2	2	2	14	2.8	2.8	2.8	2.8	2.8	19.8	32.8	14.8	17.8	17.8	20.6
9	1SV18EC010	KETANBAI S	14	40	38	7	7	10	8	13	5	2	2	2	2	2	23	4.6	4.6	4.6	4.6	4.6	13.6	18.6	15.6	19.6	11.6	15.8
10	1SV18EC011	LATHASHREE K R	27	33	18	14	13	15	15	15	15	2	2	2	2	2	15	3	3	3	3	3	19	33	20	20	20	22.4
11	1SV18EC012	MOUNISHGOWDA	23	40	35	11	12	13	11	15	12	2	2	2	2	2	33	6.6	6.6	6.6	6.6	6.6	19.6	32.6	15.6	23.6	20.6	23.2
12	1SV18EC013	MOUNIKA Y	28	39	36	15	13	15	15	15	15	2	2	2	2	2	24	4.8	4.8	4.8	4.8	4.8	21.8	34.8	21.8	21.8	21.8	24.4
13	1SV18EC014	NAGESH D R	22	39	36	10	12	13	15	14	10	2	2	2	2	2	30	6	6	6	6	6	18	30	23	22	18	23.3
14	1SV18EC016	PRASHANTH M	30	36	36	15	15	14	12	13	11	2	2	2	2	2	14	2.8	2.8	2.8	2.8	2.8	19.8	30.8	16.8	17.8	13.8	20.2
15	1SV18EC018	RACHANA S R	30	35	31	15	15	11	15	15	13	2	2	2	2	2	17	3.4	3.4	3.4	3.4	3.4	20.4	33.4	20.4	20.4	18.4	22.8
16	1SV18EC019	SADAF NAZ	30	39	38	15	15	13	14	13	10	2	2	2	2	2	15	3	3	3	3	3	20	30	18	18	15	20.4
17	1SV18EC020	SAMEER BICHAGATTI	25	39	38	14	9	14	13	15	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	20.2	29.2	19.2	21.2	20.2	22
18	1SV18EC021	SHIRISHA R T	22	40	38	13	7	13	15	14	8	2	2	2	2	2	8	1.6	1.6	1.6	1.6	1.6	18.6	18.6	18.6	17.6	13.6	17
19	1SV18EC022	SIDRAM	23	40	40	9	14	10	10+	12	12	2	2	2	2	2	14	2.8	2.8	2.8+	2.8	2.8	13.8	30.8	14.8	16.8	16.8	19.6
20	1SV18EC023	SRINIVAS C	24	33	39	15	9	15	14	10	12	2	2	2	2	2	25	5	5	5	5	5	22	28	21	17	19	21.4
21	1SV18EC024	YASHASWINI K Y	27	37	38	15	12	11	13	14	12	2	2	2	2	2	18	3.6	3.6	3.6	3.6	3.6	20.6	29.6	18.6	19.6	17.6	21.2
22	1SV19EC0400	ARUNA R N	29	29	40	14	15	14	15	15	14	2	2	2	2	3	27	5.4	5.4	5.4	5.4	5.4	21.4	36.4	22.4	22.4	21.4	24.6
23	1SV19EC0401	JYOTHI R	30	33	34	15	14	15	14	14	15	2	2	2	2	2	11	2.2	2.2	2.2	2.2	2.2	19.2	33.2	18.2	18.2	19.2	21.6
24	1SV19EC0402	MAHADEVAIAH M R	30	37	34	15	15	14	15	15	8	2	2	2	2	2	6	1.2	1.2	1.2	1.2	1.2	18.2	26.2	18.2	18.2	11.2	18.4
25	1SV19EC0403	NAVYASHREE S M	18	38	40	4	12	2	13	3	14	2	2	2	2	2	15	3	3	3	3	3	9	31	38	8	19	17
26	1SV19EC404	PRAVEEN G D	24	23	13	12	12	11	14	13	8	2	2	2	2	2	22	4.4	4.4	4.4	4.4	4.4	18.4	24.4	20.4	19.4	12.4	19
27	1SV19EC405	SWAMY M	27	40	37	13	14	13	14	12	8	2	2	2	2	2	43	8.6	8.6	8.6	8.6	8.6	23.6	32.6	24.6	23.6	18.6	24.4
28																												
29																												
30																												
31																												
32																												
33																												
																						19.178	30.104	19.585	19.548	17.844	21.252

Course Instructor

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

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

SUBJECT	COMPUTER ORGANIZATION AND ARCHITECTURE	SUBJECT CODE	18EC35

COURSE OUTCOME

After studying this course, students will be able to:

C01: Explain the basic organization of a computer system.
C02:Explain different ways of accessing an input / output device including interrupts.
C03: Illustrate the organization of different types of semiconductor and other secondary storage memories.
C04: Illustrate simple processor organization based on hardwired control and micro programmed control.

PROGRAM OUTCOMES

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

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY				
FACULTY NAME	Prof. NAYANA				
BRANCH	ECE	ACADEMIC YEAR	2019-20		
COURSE	B.E	SEMESTER	3RD	SECTION	ECE
SUBJECT	COMPUTER ORGANIZATION AND ARCHITECTURE			SUBJECT CODE	18EC35

CO & PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	1	1	1	1	2							
CO2	1	1	3	1	1							
CO3	1	3	1	2	1							
CO4	1	1	1	2	1							
AVERAGE	1	1.5	1.5	1.5	1.25							
											OVERALL MAPPING OF SUBJECT	1.35

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	45.20376	0.45	0.45	0.45	0.45	0.90							
CO2	47.2865	0.47	0.47	1.41	0.47	0.47							
CO3	46.35319	0.46	1.39	0.46	0.92	0.46							
CO4	58.05643	0.58	0.58	0.58	1.16	0.58							
AVERAGE		0.49	0.72	0.72	0.75	0.60							
												FINAL ATTAINMENT LEVEL	0.65

COURSE INSTRUCTOR

HOD

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SIET, Tumkur-6

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Roll No	USN	Name	T1(30)	T2(30)	T3(30)	CO1-15	CO2-15	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	CO1-29	CO2-44	CO3-29	CO4-29	CO5-29	TOTAL AVERAGE
1	1SV17EC112	RAVISH KUMAR	16	19	15	9	7	8	11	14	6	2	2	2	2	2	30	6	6	6	6	6	17	23	19	22	16	19.4
2	1SV18EC002	ANUSHA G S	28	4	29	13	15	15	15	15	15	2	2	2	2	2	17	3.4	3.4	3.4	3.4	3.4	18.4	35.4	20.4	20.4	20.4	23
3	1SV18EC004	BASAVARAJ	23	23	30	12	11	13	11	14	6	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	18.2	23.2	17.2	20.2	12.2	18.2
4	1SV18EC005	BHARATHI M	25	18	30	12	13	15	15	11	14	2	2	2	2	2	42	8.4	8.4	8.4	8.4	8.4	22.4	37.4	25.4	21.4	24.4	26.2
5	1SV18EC006	BRUNDA K	28	40	26	15	13	15	14	14	15	2	2	2	2	2	26	5.2	5.2	5.2	5.2	5.2	22.2	35.2	21.2	21.2	22.2	24.4
6	1SV18EC007	CHANDANA D	28	34	30	15	13	15	15	13	15	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	21.2	34.2	21.2	19.2	21.2	23.4
7	1SV18EC008	DEVIKA L	24	37	30	15	9	12	13	15	13	2	2	2	2	2	22	4.4	4.4	4.4	4.4	4.4	21.4	28.4	19.4	21.4	19.4	22
8	1SV18EC009	GURANNAGOUDA	30	35	22	15	15	10	10	13	13	2	2	2	2	2	14	2.8	2.8	2.8	2.8	2.8	15.8	32.8	14.8	17.8	17.8	20.6
9	1SV18EC010	KETANRAJ S	14	40	30	7	7	10	9	13	5	2	2	2	2	2	23	4.6	4.6	4.6	4.6	4.6	13.6	18.6	15.6	19.6	11.6	15.8
10	1SV18EC011	LATHASHREE K R	27	33	30	14	13	15	15	15	15	2	2	2	2	2	15	3	3	3	3	3	19	33	20	20	20	22.4
11	1SV18EC012	MOUNESHGOWDA	23	ab	24	11	12	13	11	15	12	2	2	2	2	2	33	6.6	6.6	6.6	6.6	6.6	19.6	32.6	19.6	23.6	20.6	23.2
12	1SV18EC013	MOUNIKA Y	28	39	30	15	13	15	15	15	15	2	2	2	2	2	24	4.8	4.8	4.8	4.8	4.8	21.8	34.8	21.8	21.8	21.8	24.4
13	1SV18EC014	NAGESH D R	22	39	30	10	12	13	15	14	10	2	2	2	2	2	30	6	6	6	6	6	18	30	23	22	18	23.3
14	1SV18EC016	PRASHANTH M	30	38	30	15	15	14	12	13	11	2	2	2	2	2	14	2.8	2.8	2.8	2.8	2.8	19.8	30.8	16.8	17.8	15.8	20.2
15	1SV18EC018	RACHANA S R	30	35	30	15	15	11	15	15	13	2	2	2	2	2	17	3.4	3.4	3.4	3.4	3.4	20.4	33.4	20.4	20.4	18.4	22.6
16	1SV18EC019	SADAF NAZ	30	39	25	15	15	13	14	13	10	2	2	2	2	2	15	3	3	3	3	3	20	30	19	18	15	20.4
17	1SV18EC020	SAMEER BICHAGATTI	23	39	30	14	9	14	13	15	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	20.2	29.2	19.2	21.2	20.2	22
18	1SV18EC021	SHRISHA R T	22	40	30	15	7	13	15	14	8	2	2	2	2	2	8	1.6	1.6	1.6	1.6	1.6	18.6	18.6	18.6	17.6	11.6	17
19	1SV18EC022	SIDRAM	23	40	25	9	14	10	10	12	12	2	2	2	2	2	14	2.8	2.8	2.8	2.8	2.8	13.8	30.8	14.8	16.8	16.8	18.6
20	1SV18EC023	SRINIVAS C	24	33	30	15	9	15	14	10	12	2	2	2	2	2	25	5	5	5	5	5	22	28	21	17	19	21.4
21	1SV18EC024	YASHASWINI K Y	27	37	30	15	12	11	13	14	12	2	2	2	2	2	18	3.6	3.6	3.6	3.6	3.6	20.6	29.6	18.6	19.6	17.6	21.2
22	1SV19EC0400	ARUNA R N	29	29	30	14	15	14	15	15	14	2	2	2	2	2	27	5.4	5.4	5.4	5.4	5.4	21.4	36.4	22.4	22.4	21.4	24.8
23	1SV19EC0401	JYOTHI R	30	33	30	15	14	15	14	14	15	2	2	2	2	2	11	2.2	2.2	2.2	2.2	2.2	19.2	33.2	18.2	18.2	19.2	21.6
24	1SV19EC0402	MAHADEVAIAH M B	30	37	30	15	15	14	15	15	8	2	2	2	2	2	6	1.2	1.2	1.2	1.2	1.2	18.2	26.2	18.2	18.2	11.2	18.4
25	1SV19EC0403	NAVYASHREE S M	16	38	30	4	12	2	13	3	14	2	2	2	2	2	15	3	3	3	3	3	9	31	18	8	19	17
26	1SV19EC404	PRAVEEN G D	24	23	30	12	12	11	14	13	6	2	2	2	2	2	22	4.4	4.4	4.4	4.4	4.4	18.4	24.4	20.4	19.4	12.4	19
27	1SV19EC405	SWAMY M	27	40	37	13	14	13	14	12	8	2	2	2	2	2	43	8.6	8.6	8.6	8.6	8.6	23.6	32.6	24.6	22.6	18.6	24.4
28																												
29																							43.18%	47.28%	46.35%	58.05%	41.53%	

FACULTY

HOD

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COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY				
FACULTY NAME	Prof. Sandya R				
BRANCH	ECE	ACADEMIC YEAR	2019-20		
COURSE	B.E	SEMESTER	3RD	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	1	1	1	1						2		
CO2	2	1	2	1						1		
CO3	1	1	1	2						1		
CO4	2	1	2	1						2		
CO5	1	2	1	2						1		
CO6	2	1	1	1						1		
AVERAGE	1.5	1.16	1.33	1.33						1.33		
										OVERALL MAPPING OF SUBJECT		1.33

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	49.13271	0.49	0.49	0.49	0.49						0.98		
CO2	56.4876	1.12	0.56	1.12	0.56						0.56		
CO3	40.56426	0.40	0.40	0.40	0.81						0.40		
CO4	56.23824	1.12	0.56	1.12	0.56						1.12		
CO5	49.65517	0.49	0.99	0.49	0.99						0.49		
CO6	49.65517	0.99	0.49	0.49	0.49						0.49		
AVERAGE		0.76	0.58	0.68	0.65						0.67		
											FINAL ATTAINMENT LEVEL		0.66

COURSE INSTRUCTOR

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PRINCIPAL
SIET, TUMKUR

SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

SUBJECT	POWER ELECTRONICS AND INSTRUMENTATION	SUBJECT CODE	18EC36

COURSE OUTCOME

After studying this course, students will be able to:

CO1• Build and test circuits using power electronic devices.
CO2• Analyze and design controlled rectifier, DC to DC converters, DC to AC inverters and SMPS.
CO3• Define instrument errors.
CO4• Develop circuits for multi range Ammeters, Voltmeters and Bridges to measure passive component values and frequency.
CO5• Describe the principle of operation of Digital instruments and PLCs.
CO6• Use Instrumentation amplifier for measuring physical parameters.

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.

Academic year		2019-20			SE	III		Total strengt	19		Subject	RING ELECTROMA										17EC36									
SEM:VII		IA TEST 1(30M			TEST 2(30M			TEST 3(30M			ASSIGNEMENT / QUIZ(10					SEE MARKS(60)					Total Cos ATTAINMENT						% of Individual CO				
USN	NAME	CO1	CO2	OTA	CO1	CO3	OTA	CO1	CO3	OTA	CO1	CO2	CO3	CO4	CO5	O1=1	CO2	CO3	CO4	CO5	CO1=29	CO2=44	O3=2	O4=2	O5=2	O6=2	CO1	CO2	CO3	CO4	CO5
1SV15EC025	NITHIN KUN	15	15	30	15	15	30	15	15	30	2	2	2	2	2	7.6	7.6	7.6	7.6	7.6	24.6	30	24.6	24.6	24.6	#REF!	84.83	68.18	84.83	84.83	84.82758621
1SV15EC045	SUNITHA Y	15	15	30	15	15	30	13	15	28	2	2	2	2	2	8.4	8.4	8.4	8.4	8.4	25.4	40.4	25.4	23.4	23.4	#REF!	87.59	91.82	87.59	80.69	80.68965517
1SV17EC001	AFRA FATH	15	15	30	15	15	30	15	14	29	2	2	2	2	2	9	9	9	9	9	26	41	26	26	26	#REF!	89.66	93.18	89.66	89.66	89.65517241
1SV17EC002	ASHWINI V	15	15	30	14	15	29	15	12	27	2	2	2	2	2	7.8	7.8	7.8	7.8	7.8	24.8	38.8	24.8	24.8	24.8	#REF!	85.52	88.18	85.52	85.52	85.51724138
1SV17EC003	DANIEL S	14	15	29	15	15	30	14	15	29	2	2	2	2	2	8.6	8.6	8.6	8.6	8.6	24.6	40.6	25.6	24.6	24.6	#REF!	84.83	92.27	88.28	84.83	84.82758621
1SV17EC004	GEETHA M I	14	13	27	15	15	30	15	15	30	2	2	2	2	2	7.8	7.8	7.8	7.8	7.8	23.8	37.8	24.8	24.8	24.8	#REF!	82.07	85.91	85.52	85.52	85.51724138
1SV17EC005	IITHENDRA	15	7	22	10	10	20	13	13	26	2	2	2	2	2	9	9	9	9	9	26	28	21	24	24	#REF!	89.66	63.64	72.41	82.76	82.75862069
1SV17EC006	MD TAJ HUS	15	15	30	14	9	23	14	15	29	2	2	2	2	2	8.6	8.6	8.6	8.6	8.6	25.6	39.6	19.6	24.6	24.6	#REF!	88.28	90	67.59	84.83	84.82758621
1SV17EC007	NIDA NAWA	15	15	30	14	15	29	14	15	29	2	2	2	2	2	8.4	8.4	8.4	8.4	8.4	25.4	39.4	25.4	24.4	24.4	#REF!	87.59	89.55	87.59	84.14	84.13793103
1SV17EC008	NISHA H	15	15	30	15	15	30	15	15	30	2	2	2	2	2	9.4	9.4	9.4	9.4	9.4	26.4	41.4	26.4	26.4	26.4	#REF!	91.03	94.09	91.03	91.03	91.03448276
1SV17EC009	NISHATH N	15	15	30	15	15	0	15	14	29	2	2	2	2	2	9.2	9.2	9.2	9.2	9.2	26.2	41.2	26.2	26.2	26.2	#REF!	90.34	93.64	90.34	90.34	90.34482759
1SV17EC011	RAKESH K U	13	12	25	13	14	27	15	12	27	2	2	2	2	2	7.8	7.8	7.8	7.8	7.8	22.8	34.8	23.8	24.8	24.8	#REF!	78.62	79.09	82.07	85.52	85.51724138
1SV17EC013	REKHA K N	15	15	30	15	15	30	15	12	27	2	2	2	2	2	7.4	7.4	7.4	7.4	7.4	24.4	39.4	24.4	24.4	24.4	#REF!	84.14	89.55	84.14	84.14	84.13793103
1SV17EC014	SAHANA G	15	15	30	15	15	30	15	15	30	2	2	2	2	2	7.8	7.8	7.8	7.8	7.8	24.8	39.8	24.8	24.8	24.8	#REF!	85.52	90.45	85.52	85.52	85.51724138
1SV17EC015	SAYEEDUNI	13	15	28	12	15	27	13	14	27	2	2	2	2	2	8.4	8.4	8.4	8.4	8.4	23.4	37.4	25.4	23.4	23.4	#REF!	80.69	85	87.59	80.69	80.68965517
1SV17EC016	TEJASWINI I	14	13	27	13	14	27	13	14	27	2	2	2	2	2	8.6	8.6	8.6	8.6	8.6	24.6	36.6	24.6	23.6	23.6	#REF!	84.83	83.18	84.83	81.38	81.37931034
1SV18EC400	DIVYASHRE	12	15	27	14	14	28	15	14	29	2	2	2	2	2	9	9	9	9	9	23	40	25	26	26	#REF!	79.31	90.91	86.21	89.66	89.65517241
1SV18EC401	HEMA K P	15	15	30	15	15	30	14	15	29	2	2	2	2	2	9.6	9.6	9.6	9.6	9.6	26.6	41.6	26.6	25.6	25.6	#REF!	91.72	94.55	91.72	88.28	88.27586207
1SV18EC402	LOKESHA G	15	13	28	13	15	28	14	13	27	2	2	2	2	2	9.2	9.2	9.2	9.2	9.2	26.2	37.2	26.2	25.2	25.2	#REF!	90.34	84.55	90.34	86.9	86.89655172
																											49.59	49.93	49.17	49.28	49.27899687

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COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY		
FACULTY NAME	Mrs. Grace Hemalatha/Mr. Prathap B N		
BRANCH	ECE	ACADEMIC YEAR	2019-20
COURSE B.E	SEMESTER	V	
SUBJECT	MANAGEMENT AND ENTREPRENEURSHIP DEVELOPMENT	SUBJECT CODE	17ES51

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	69.12											2.07	
CO2	70.65											2.21	
CO3	66.25								1.32	1.32		1.99	
CO4	66.01											1.98	
CO5	64.33											1.93	
AVERAGE	67.27								1.32	1.32		2.03	
											FINAL ATTAINMENT LEVEL		1.55

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

DEPARTMENT OF ECE

SUBJECT		SUBJECT CODE	17ES51

COURSE OUTCOME

CO1-.Understand the fundamental concepts of Management and Entrepreneurship ·

CO2-.Select a best Entrepreneurship model for the required domain of establishment ·

CO3-Describe the functions of Managers, Entrepreneurs and their social responsibilities ·

CO4-.Compare various types of Entrepreneurs ·

CO5-Analyze the Institutional support by various state and central government agencies.

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.

5th Semester

Management And Entrepreneurship Development

AY - 2019-20

SEM: V	IA TEST 1			IA TEST 2			IA TEST 3			Assignment and Seminar					SEE					Total					% of Individual CO				
USN	CO1	CO2	TOTAL	CO3	CO4	TOTAL	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5
	15	15	30	15	15	30	15	15	30	2	2	2	2	2	12	12	12	12	12	29	29	29	44	29					
1SV14EC025	12	7	19	6	6	12	0	0	0	2	2	2	2	2	5.8	5.8	5.8	5.8	5.8	20	15	14	14	8	68.3	51	47.6	31.4	26.9
1SV15EC008	11	7	18	8	4	12	0	0	0	2	2	2	2	2	5.6	5.6	5.6	5.6	5.6	19	15	16	12	8	64.1	50.3	53.8	26.4	26.2
1SV15EC025	10	16	26	12	13	25	15	11	26	2	2	2	2	2	7	7	7	7	7	19	25	21	37	20	65.5	86.2	72.4	84.1	69
1SV15EC029	12	9	21	9	2	11	0	0	0	2	2	2	2	2	7.4	7.4	7.4	7.4	7.4	21	18	18	11	9	73.8	63.4	63.4	25.9	32.4
1SV15EC045	11	11	22	12	14	26	9	12	21	2	2	2	2	2	7.6	7.6	7.6	7.6	7.6	21	21	22	33	22	71	71	74.5	74.1	74.5
1SV17EC001	14	14	28	15	13	28	15	14	29	2	2	2	2	2	8	8	8	8	8	24	24	25	38	24	82.8	82.8	86.2	86.4	82.8
1SV17EC003	10	15	25	12	13	25	14	13	27	2	2	2	2	2	6.6	6.6	6.6	6.6	6.6	19	24	21	36	22	64.1	81.4	71	80.9	74.5
1SV17EC004	11	15	26	13	14	27	13	14	27	2	2	2	2	2	5.8	5.8	5.8	5.8	5.8	19	23	21	35	22	64.8	78.6	71.7	79.1	75.2
1SV17EC005	9	11	20	13	3	16	11	11	22	2	2	2	2	2	5	5	5	5	5	16	18	20	21	18	55.2	62.1	69	47.7	62.1
1SV17EC006	10	14	24	9	15	24	12	14	26	2	2	2	2	2	5.8	5.8	5.8	5.8	5.8	18	22	17	35	22	61.4	75.2	57.9	79.1	75.2
1SV17EC007	15	13	28	14	15	29	15	14	29	2	2	2	2	2	6	6	6	6	6	23	21	22	38	22	79.3	72.4	75.9	86.4	75.9
1SV17EC008	13	12	25	15	14	29	14	14	28	2	2	2	2	2	6.4	6.4	6.4	6.4	6.4	21	20	23	36	22	73.8	70.3	80.7	82.7	77.2
1SV17EC009	12	15	27	14	13	27	13	15	28	2	2	2	2	2	6.2	6.2	6.2	6.2	6.2	20	23	22	34	23	69.7	80	76.6	77.7	80
1SV17EC011	13	12	25	0	0	0	0	0		2	2	2	2	2	0	0	0	0	0	15	14	2	2	2	51.7	48.3	6.9	4.55	6.9
1SV17EC013	15	14	29	13	15	28	15	14	29	2	2	2	2	2	4.8	4.8	4.8	4.8	4.8	22	21	20	37	21	75.2	71.7	68.3	83.6	71.7
1SV17EC014	15	12	27	15	15	30	8	12	20	2	2	2	2	2	9.2	9.2	9.2	9.2	9.2	26	23	26	34	23	90.3	80	90.3	77.7	80
1SV18EC401	10	14	24	9	13	22	14	15	29	2	2	2	2	2	8.8	8.8	8.8	8.8	8.8	21	25	20	38	26	71.7	85.5	68.3	85.9	89
1SV18EC402	9	9	18	8	10	18	14	14	28	2	2	2	2	2	6.8	6.8	6.8	6.8	6.8	18	18	17	33	23	61.4	61.4	57.9	74.5	78.6
Total	212	220	432	197	192	389	182	187	369	36	36	36	36	36	113	113	113	113	113	361	369	346	523	336	**1244**	**1272**	**1192**	**1188**	**1158**
No. of Stidents	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	**18**	**18**	**18**	**18**	**18**
Average	11.8	12.2	24	10.9	10.7	21.611	10.1	10.4	20.5	2	2	2	2	2	6.27	6.27	6.27	6.27	6.27	20	20.5	19.2	29	18.7	**69.1**	**70.7**	**66.2**	**66**	**64.3**

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

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

SUBJECT	DIGITAL SIGNAL PROCESSING	SUBJECT CODE	17EC52

COURSE OUTCOME

After studying this course, students will be able to:

CO1: Determine response of LTI systems using time domain and DFT techniques.

CO2: Compute DFT of real and complex discrete time signals.

CO3: Computation of DFT using FFT algorithms and linear filtering approach.

CO4: Solve problems on digital filter design and realize using digital computations.

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. PRADEEPKUMAR S S				
BRANCH	ECE	ACADEMIC YEAR	2019-20		
COURSE	B.E	SEMESTER	5TH	SECTION	ECE
SUBJECT	DIGITAL SIGNAL PROCESSING			SUBJECT CODE	17EC52

CO & PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	1	2	1		2							
CO2	2	1	1		2							
CO3	1	2	3		3							
CO4	3	2	1		2							
AVERAGE	1.75	1.75	1.5		2.25							
											OVERALL MAPPING OF SUBJECT	1.81

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	39.41484	0.39	0.78	0.39		0.78							
CO2	35.49682	0.70	0.35	0.35		0.70							
CO3	36.59352	0.36	0.73	1.09		1.09							
CO4	34.92163	1.04	0.69	0.34		0.69							
AVERAGE		0.62	0.78	0.54		0.81							
												FINAL ATTAINMENT LEVEL	0.75

COURSE INSTRUCTOR

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Academic year		2019-20			SE	5TH		Total strengt	20		Subject	SIGNAL PRO					17EC52								
SEM:VII		TEST 1(30M			TEST 2(30M			TEST 3(30M			ASSIGNMENT / QUIZ				SEE MARKS(60)				Total Cos ATTAINMENT				% of Individual CO				SEE Tot
USN	NAME	CO1	CO2	TOTA	CO1	CO2	TOTA	CO1	CO2	TOTA	CO1	CO2	CO3	CO4	CO1=1	CO2	CO3	CO4	CO1=2	CO2=4	CO3=2	CO4=2	CO1	CO2	CO3	CO4	60M
5V14EC02	RAMKUI	10	15	25	6	5	11	8	10	18	2	2	2	2	1.2	1.2	1.2	1.2	13.2	25	8.2	11.2	45.52	56.82	28.28	38.62	6
5V15EC0(	BIBEK YA	9	8	17	9	13	22	7	10	17	2	2	2	2	3.8	3.8	3.8	3.8	14.8	22.8	18.8	12.8	51.03	51.82	64.83	44.14	19
5V15EC02	NITHIN	15	13	28	7	8	15	9	15	24	2	2	2	2	5.4	5.4	5.4	5.4	22.4	27.4	15.4	16.4	77.24	62.27	53.1	56.55	27
5V15EC02	PAVITHI	13	6	19	7	5	12	0	0	0	2	2	2	2	0.8	0.8	0.8	0.8	15.8	15.8	7.8	2.8	54.48	35.91	26.9	9.655	4
5V15EC0-	SUNITH	15	7	22	15	8	23	9	15	24	2	2	2	2	6.6	6.6	6.6	6.6	23.6	30.6	16.6	17.6	81.38	69.55	57.24	60.69	33
5V17EC0(	AFRA FA	6	7	13	8	14	22	8	13	21	2	2	2	2	5.2	5.2	5.2	5.2	13.2	22.2	21.2	15.2	45.52	50.45	73.1	52.41	26
5V17EC0(	DANIEL	14	11	25	13	15	28	15	15	30	2	2	2	2	6.4	6.4	6.4	6.4	22.4	32.4	23.4	23.4	77.24	73.64	80.69	80.69	32
5V17EC0(	GEETHA	11	8	19	15	14	29	15	6	21	2	2	2	2	5.2	5.2	5.2	5.2	18.2	30.2	21.2	22.2	62.76	68.64	73.1	76.55	26
5V17EC0(	IITHENI	12	6	18	11	8	19	7	10	17	2	2	2	2	4.8	4.8	4.8	4.8	18.8	23.8	14.8	13.8	64.83	54.09	51.03	47.59	24
5V17EC0(	MD TAJ I	13	2	15	13	12	25	8	14	22	2	2	2	2	2.8	2.8	2.8	2.8	17.8	19.8	16.8	12.8	61.38	45	57.93	44.14	14
5V17EC0(	NIDA NA	14	14	28	11	15	0	9	15	24	2	2	2	2	8.4	8.4	8.4	8.4	24.4	35.4	25.4	19.4	84.14	80.45	87.59	66.9	42
5V17EC0(	NISHA F	12	3	15	7	9	16	8	14	22	2	2	2	2	4.8	4.8	4.8	4.8	18.8	16.8	15.8	14.8	64.83	38.18	54.48	51.03	24
5V17EC0(	NISHAT	15	8	23	15	13	28	12	15	27	2	2	2	2	6.6	6.6	6.6	6.6	23.6	31.6	21.6	20.6	81.38	71.82	74.48	71.03	33
5V17EC0(	RAKESH	12	4	16	12	9	21	11	13	24	2	2	2	2	6	6	6	6	20	24	17	19	68.97	54.55	58.62	65.52	30
5V17EC0(	REKHA I	12	9	21	15	6	21	9	13	22	2	2	2	2	4.6	4.6	4.6	4.6	18.6	30.6	12.6	15.6	64.14	69.55	43.45	53.79	23
5V17EC0(	SAHANA	9	4	13	15	11	26	14	15	29	2	2	2	2	8.6	8.6	8.6	8.6	19.6	29.6	21.6	24.6	67.59	67.27	74.48	84.83	43
5V18EC4(	HEMA K	12	12	24	11	6	17	12	13	25	2	2	2	2	4.2	4.2	4.2	4.2	18.2	29.2	12.2	18.2	62.76	66.36	42.07	62.76	21
5V18EC4(	LOKESH	11	7	18	12	7	19	6	15	21	2	2	2	2	4.6	4.6	4.6	4.6	17.6	25.6	13.6	12.6	60.69	58.18	46.9	43.45	23
1SV17EC	ASHWIN	7	0	7	8	6	14	15	4	19	2	2	2	2	5	5	5	5	14	15	13	22	48.28	34.09	44.83	75.86	25
1SV17EC	SAYEED	15	11	26	12	8	20	7	15	22	2	2	2	2	5.2	5.2	5.2	5.2	22.2	18.2	33.2	19.2	76.55	62.76	114.5	66.21	26
																							39.41	35.5	36.59	34.92	25.05

1.2	3.8	5.4	0.8	6.6	5.2	6.4	5.2	4.8	2.8	8.4	4.8	6.6	4.6	8.6	4.2	4.6	5	5.2											41.75

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contemporary issues and acquire lifelong learning.

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY				
FACULTY NAME	MR. RAGHAVENDRA D				
BRANCH	ECE	ACADEMIC YEAR	2019-20		
COURSE	B.E	SEMESTER	5TH	SECTION	ECE
SUBJECT	VERILOG HDL		SUBJECT CODE	17EC53	

CO & PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	1	2	2	1	2	1	1					
CO2	2	2	1	1	2	2	1					
CO3	2	1	2	2	3	1	1					
CO4	2	2	2	2	2	1	1					
CO5	1	2	1	2	2	1	1					
CO6	1	1	2	1	1	1	1					
AVERAGE	1.5	1.66	1.66	1.5	2	1.16	1					
OVERALL MAPPING OF SUBJECT												1.49

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	50.40752	0.50	1.00	1.00	0.50	1.00	0.50	0.50					
CO2	48.1177	0.96	0.96	0.48	0.48	0.96	0.96	0.48					
CO3	49.88506	0.99	0.49	0.99	0.99	1.49	0.49	0.49					
CO4	40.58516	0.81	0.81	0.81	0.81	0.81	0.40	0.40					
CO5	173.819	1.73	3.46	1.73	3.46	3.46	1.73	1.73					
CO6	40.58516	0.40	0.40	0.81	0.40	0.40	0.40	0.40					
AVERAGE		0.89	1.18	0.97	1.10	1.35	0.74	0.66					
FINAL ATTAINMENT LEVEL													0.98

COURSE INSTRUCTOR

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SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

SUBJECT	VERILOG HDL	SUBJECT CODE	17EC53

COURSE OUTCOME

After studying this course, students will be able to:

CO1: Write Verilog programs in gate, dataflow (RTL), behavioral and switch modeling levels of Abstraction.

CO2:Write simple programs in VHDL in different styles.

CO3:Design and verify the functionality of digital circuit/system using test benches.

CO4:Identify the suitable Abstraction level for a particular digital design.

CO5:Write the programs more effectively using Verilog tasks and directives.

CO6:Perform timing and delay Simulation.

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

Academic year		2019-20			SE	5th		Total strengt		20			Subject					VERILOG HDL									17EC53													
SEM:VII		TEST 1(30)			TEST 2(30)			TEST 3(30)			SSIGNEMENT / QUIZ(10 M							SEE MARKS(60)							Total Cos ATTAINMENT						% of Individual CO						SEE Tot	
USN	NAME	CO1	CO2	OTA	CO1	CO4	OTA	CO5	CO	OTA	CO1	CO2	CO3	CO4	CO5	CO6	CO1=1	CO2	CO3	CO4	CO5	CO6	CO1=2	CO2=4	CO3=2	CO4=2	CO5=2	CO6=2	CO1	CO2	CO3	CO4	CO5	CO6	60M	
1SV14EC025	RAMKUMAR	12	2	14	6	11	17	6	1	7	2	2	2	2	2	2	7.8	7.8	7.8	7.8	7.8	7.8	21.8	14	16	20	20.8	15.8	75.17	31.82	71.72	54.48	259.2	54.48	39	7.8
1SV15EC008	BIBEK YADAV	12	8	20	7	11	18	0	0	0	2	2	2	2	2	2	7	7	7	7	7	7	21	24	40	34	20	9	72.41	54.55	68.97	31.03	249.7	31.03	35	7
1SV15EC025	NITHIN KUM	14	14	28	14	15	29	11	12	23	2	2	2	2	2	2	6.6	6.6	6.6	6.6	6.6	6.6	22.6	36.6	51.6	51.6	23.6	19.6	77.93	83.18	81.38	67.59	268.7	67.59	33	6.6
1SV15EC029	PAVITHRA S	7	12	19	5	5	10	7	6	13	2	2	2	2	2	2	8.8	8.8	8.8	8.8	8.8	8.8	17.8	27.8	34.8	25.8	15.8	17.8	61.38	63.18	54.48	61.38	211.7	61.38	44	8.8
1SV15EC045	SUNITHA Y K	14	15	29	14	15	29	11	11	22	2	2	2	2	2	2	6.6	6.6	6.6	6.6	6.6	6.6	22.6	37.6	52.6	51.6	23.6	19.6	77.93	85.45	81.38	67.59	268.7	67.59	33	6.6
1SV17EC001	AFRA FATHIM	13	15	28	15	15	30	4	14	18	2	2	2	2	2	2	7	7	7	7	7	7	22	39	52	54	24	13	75.86	88.64	82.76	44.83	261.6	44.83	35	7
1SV17EC003	DANIEL S	15	15	30	15	15	30	15	15	30	2	2	2	2	2	2	7.4	7.4	7.4	7.4	7.4	7.4	24.4	39.4	54.4	54.4	24.4	24.4	84.14	89.55	84.14	84.14	290.1	84.14	37	7.4
1SV17EC004	GEETHA M R	15	15	30	15	15	30	14	15	29	2	2	2	2	2	2	8.8	8.8	8.8	8.8	8.8	8.8	25.8	40.8	55.8	55.8	25.8	24.8	88.97	92.73	88.97	85.52	306.8	85.52	44	8.8
1SV17EC005	JITHENDRA H	14	8	22	14	11	25	8	4	12	2	2	2	2	2	2	5.2	5.2	5.2	5.2	5.2	5.2	21.2	29.2	40.2	46.2	18.2	15.2	73.1	66.36	62.76	52.41	252.1	52.41	26	5.2
1SV17EC006	MD TAJ HUSS	15	8	23	13	13	26	11	11	22	2	2	2	2	2	2	8	8	8	8	8	8	25	31	46	49	23	21	86.21	70.45	79.31	72.41	297.3	72.41	40	8
1SV17EC007	NIDA NAWAZ	15	15	30	15	13	0	15	11	26	2	2	2	2	2	2	8.2	8.2	8.2	8.2	8.2	8.2	25.2	40.2	53.2	25.2	23.2	25.2	86.9	91.36	80	86.9	299.6	86.9	41	8.2
1SV17EC008	NISHA H	15	10	25	12	15	27	12	12	24	2	2	2	2	2	2	7	7	7	7	7	7	24	31	49	48	24	21	82.76	70.45	82.76	72.41	285.4	72.41	35	7
1SV17EC009	NISHATH NA	15	15	30	15	14	29	15	15	30	2	2	2	2	2	2	6.6	6.6	6.6	6.6	6.6	6.6	23.6	38.6	52.6	52.6	22.6	23.6	81.38	87.73	77.93	81.38	280.6	81.38	33	6.6
1SV17EC011	RAKESH K L	15	15	30	0	0	0	0	0	0	2	2	2	2	2	2	6.4	6.4	6.4	6.4	6.4	6.4	23.4	23.4	38.4	8.4	8.4	8.4	80.69	53.18	28.97	28.97	278.2	28.97	32	6.4
1SV17EC013	REKHA K N	15	15	30	15	15	30	13	13	26	2	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	4.2	21.2	36.2	51.2	51.2	21.2	19.2	73.1	82.27	73.1	66.21	252.1	66.21	21	4.2
1SV17EC014	SAHANA G R	15	14	29	15	15	30	12	13	25	2	2	2	2	2	2	8.2	8.2	8.2	8.2	8.2	8.2	25.2	39.2	54.2	55.2	25.2	22.2	86.9	89.09	86.9	76.55	299.6	76.55	41	8.2
1SV18EC401	HEMA K P	15	15	30	14	15	29	11	12	23	2	2	2	2	2	2	7.6	7.6	7.6	7.6	7.6	7.6	24.6	38.6	54.6	52.6	24.6	20.6	84.83	87.73	84.83	71.03	292.5	71.03	38	7.6
1SV18EC402	LOKESHA G I	15	13	28	15	12	27	13	11	24	2	2	2	2	2	2	7	7	7	7	7	7	24	37	49	51	21	22	82.76	84.09	72.41	75.86	285.4	75.86	35	7
1SV17EC002	ASHWINI V	15	14	29	14	11	25	11	10	21	2	2	2	2	2	2	6.2	6.2	6.2	6.2	6.2	6.2	23.2	36.2	48.2	47.2	19.2	19.2	80	82.27	66.21	66.21	275.9	66.21	31	6.2
1SV17EC015	SAYEEDUNNI	15	10	25	13	13	26	10	8	18	2	2	2	2	2	2	5.6	5.6	5.6	5.6	5.6	5.6	22.6	17.6	45.6	46.6	32.6	20.6	77.93	60.69	112.4	71.03	268.7	71.03	28	5.6
1SV18EC400	Divyashree	15	15	30	0	0	0	0	0	0	2	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	4.2	21.2	21.2	36.2	6.2	36.2	6.2	73.1	73.1	124.8	21.38	252.1	21.38	21	4.2

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

DEPARTMENT OF ELECTRONICS & COMMUNICATION

SEM: V

ACADEMIC YEAR:2019-2020

SUBJECT	OPERATING SYSTEM	SUBJECT CODE	17EC553

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	2019-2020		
COURSE	B.E	SEMESTER	V	SECTION	A
SUBJECT	OPERATING SYSTEM	SUBJECT CODE	17EC553		

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	1.75	2.75										1
											OVERALL MAPPING OF SUBJECT	1.83

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	62.37	1.87	1.24										0.62
CO2	68.94	0.68	2.06										0.68
CO3	68.94		2.06										0.68
CO4	79.18	0.79	2.37										0.79
CO5	78.75	1.57											0.78
AVERAGE	71.63	1.22	1.93										0.71
												FINAL ATTAINMENT LEVEL	1.28

COURSE INSTRUCTOR

HOD

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SIET, Tumkur-6

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Academic year	2019-20			SEM	V		Total strength			16		Subject			Operating system				Subject Code	17EC553										
SEM-V	IA TEST 1(30M)			IA TEST 2(30M)			IA TEST 3(30M)			Assignments(10M)					SEE MARK(50)					Total Cos ATTAINMENT					% of individual CO					
USN	CO1	CO2	TOTAL	CO3	CO4	TOTAL	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	CO1=Q2	CO2	CO3	CO4	CO5	CO1=Q9	CO2=44	CO3=39	CO4=39	CO5=26	CO1	CO2	CO3	CO4	CO5	SEE Tot
1SV15EC025	4	5	9	15	15	30	15	15	30	2	2	2	2	2	6.6	6.6	6.6	6.6	6.6	12.6	28.6	23.6	23.6	23.6	63.448	65	81.379	81.379	81.379	
1SV15EC045	13	13	26	15	15	30	15	13	28	2	2	2	2	2	6.6	6.6	6.6	6.6	6.6	21.6	36.6	23.6	23.6	21.6	74.483	83.182	81.379	81.379	74.483	33
1SV17EC001	15	15	30	15	15	30	15	15	30	2	2	2	2	2	6.6	6.6	6.6	6.6	6.6	23.6	38.6	23.6	23.6	23.6	81.379	87.727	81.379	81.379	81.379	33
1SV17EC002	3	6	9	5	8	13	15	15	30	2	2	2	2	2	5.6	5.6	5.6	5.6	5.6	10.6	18.6	15.6	22.6	22.6	36.552	42.273	53.793	77.931	77.931	33
1SV17EC003	9	11	20	15	15	30	15	15	30	2	2	2	2	2	5.4	5.4	5.4	5.4	5.4	16.4	33.4	22.4	22.4	22.4	56.552	75.909	77.241	77.241	77.241	29
1SV17EC004	13	15	28	15	15	30	15	15	30	2	2	2	2	2	7.2	7.2	7.2	7.2	7.2	22.2	39.2	24.2	24.2	24.2	76.552	89.091	83.448	83.448	83.448	27
1SV17EC005	10	4	14	9	14	23	15	15	30	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	16.2	19.2	20.2	21.2	21.2	55.862	43.636	69.655	73.103	73.103	36
1SV17EC006	7	2	9	9	12	21	15	15	30	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	13.2	17.2	18.2	21.2	21.2	45.517	39.091	62.759	73.103	73.103	21
1SV17EC007	15	13	28	15	15	30	15	15	30	2	2	2	2	2	7.2	7.2	7.2	7.2	7.2	24.2	37.2	24.2	24.2	24.2	83.448	84.545	83.448	83.448	83.448	21
1SV17EC008	10	8	18	6	10	16	14	14	28	2	2	2	2	2	5	5	5	5	5	17	21	17	21	21	58.621	47.727	58.621	72.414	72.414	36
1SV17EC009	15	15	30	15	15	30	15	15	30	2	2	2	2	2	4.8	4.8	4.8	4.8	4.8	21.8	36.8	21.8	21.8	21.8	75.172	83.636	75.172	75.172	75.172	29
1SV17EC013	11	7	18	15	15	30	15	13	30	2	2	2	2	2	5	5	5	5	5	18	29	22	22	22	62.069	65.909	75.862	75.862	75.862	24
1SV17EC014	9	14	23	15	15	30	15	15	30	2	2	2	2	2	6.2	6.2	6.2	6.2	6.2	17.2	37.2	23.2	23.2	23.2	59.31	84.545	80	80	80	25
1SV17EC015	13	13	26	15	15	30	15	15	30	2	2	2	2	2	8.4	8.4	8.4	8.4	8.4	23.4	38.4	25.4	25.4	25.4	80.69	87.273	87.586	87.586	87.586	31
1SV18EC401	10	10	20	10	15	25	15	15	30	2	2	2	2	2	7	7	7	7	7	18	29	24	24	24	65.517	65.909	82.759	82.759	82.759	42
1SV18EC402	4	6	10	11	13	24	13	15	30	2	2	2	2	2	6.4	6.4	6.4	6.4	6.4	12.4	25.4	21.4	23.4	23.4	42.759	57.727	78.793	80.69	80.69	35
																														32
																									62.371	68.949	68.949	79.181	78.75	
																									12.775	14.122	15.388	16.218	16.13	30.125
																														50.20833333

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SIET, Tumkur-6

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COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY				
FACULTY NAME	MRS. SANDYA R				
BRANCH	ECE	ACADEMIC YEAR	2019-20		
COURSE	B.E	SEMESTER	5TH	SECTION	ECE
SUBJECT	INFORMATION THEORY AND CODING	SUBJECT CODE	17EC54		

CO & PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	1	1	1	2								
CO2	1	3	2	1								
CO3	1	1	1	2								
CO4	1	1	2	1								
CO5	1	2	2	1								
AVERAGE	1	1.6	1.6	1.4								
OVERALL MAPPING OF SUBJECT												1.49

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	43.61546	0.43	0.43	0.43	0.87								
CO2	46.40401	0.46	1.39	0.92	0.46								
CO3	46.43678	0.46	0.46	0.46	0.92								
CO4	43.71996	0.43	0.43	0.87	0.43								
CO5	41.63009	0.41	0.83	0.83	0.41								
AVERAGE		1.86	0.70	0.70	0.61								
FINAL ATTAINMENT LEVEL													0.97

COURSE INSTRUCTOR

HOD

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Dept of E&C
SIET, Tumkur-6.

SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

SUBJECT	INFORMATION THEORY AND CODING	SUBJECT CODE	17EC54

COURSE OUTCOME

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 codes.

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.

Academic year		2019-20			SE	III		Total strengt			21		Subject			ITC				subject Cod	17EC54										
SEM:VII		TEST 1(30)			TEST 2(30)			TEST 3(30)			SIGNEMENT / QUIZ(15					SEE MARKS(60)					Total Cos ATTAINMENT					% of individual CO					SEE Tot
USN	NAME	CO1	CO2	TOTAL	CO2	CO3	TOTAL	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	O1=1	CO2	CO3	CO4	CO5	O1=2	O2=4	O3=2	O4=2	O5=2	CO1	CO2	CO3	CO4	CO5	60M	
1SV14EC025	RAMKUMAR D	8	13	21	7	10	17	0	0	0	2	2	2	2	2	0.2	0.2	0.2	0.2	0.2	10.2	21	12.2	2.2	2.2	35.17	47.73	42.07	7.586	7.586	1	0.2
1SV15EC008	BIBEK YADAV	8	15	23	11	14	25	0	0	0	2	2	2	2	2	7	7	7	7	7	17	35	23	9	9	58.62	79.55	79.31	31.03	31.03	35	7
1SV15EC025	NITHIN KUMA	13	15	28	15	15	30	15	15	30	2	2	2	2	2	5.6	5.6	5.6	5.6	5.6	20.6	37.6	22.6	22.6	22.6	71.03	85.45	77.93	77.93	77.93	28	5.6
1SV15EC029	PAVITHRA S	15	13	28	14	15	29	0	0	0	2	2	2	2	2	1.8	1.8	1.8	1.8	1.8	18.8	30.8	18.8	3.8	3.8	64.83	70	64.83	13.1	13.1	9	1.8
1SV15EC045	SUNITHA Y K	11	15	26	15	15	30	15	14	29	2	2	2	2	2	6.2	6.2	6.2	6.2	6.2	19.2	38.2	23.2	23.2	22.2	66.21	86.82	80	80	76.55	31	6.2
1SV17EC001	AFRA FATHIMA	13	13	26	15	15	30	15	15	30	2	2	2	2	2	1	1	1	1	1	16	31	18	18	18	55.17	70.45	62.07	62.07	62.07	5	1
1SV17EC003	DANIEL S	15	15	30	15	15	30	14	15	29	2	2	2	2	2	7.2	7.2	7.2	7.2	7.2	24.2	39.2	24.2	23.2	24.2	83.45	89.09	83.45	80	83.45	36	7.2
1SV17EC004	GEETHA M R	15	15	30	15	15	30	15	14	29	2	2	2	2	2	7	7	7	7	7	24	39	24	24	23	82.76	88.64	82.76	82.76	79.31	35	7
1SV17EC005	JITHENDRA H	13	7	20	15	15	30	14	15	29	2	2	2	2	2	9.2	9.2	9.2	9.2	9.2	24.2	33.2	26.2	25.2	26.2	83.45	75.45	90.34	86.9	90.34	46	9.2
1SV17EC006	MD TAJ HUSSA	15	15	30	15	14	29	15	13	28	2	2	2	2	2	9.4	9.4	9.4	9.4	9.4	26.4	41.4	25.4	26.4	24.4	91.03	94.09	87.59	91.03	84.14	47	9.4
1SV17EC007	NIDA NAWAZ	15	15	30	15	15	0	15	15	30	2	2	2	2	2	10	10	10	10	10	27.2	42.2	27.2	27.2	27.2	93.79	95.91	93.79	93.79	93.79	51	10.2
1SV17EC008	NISHA H	15	1	16	14	9	23	15	14	29	2	2	2	2	2	6.4	6.4	6.4	6.4	6.4	23.4	23.4	17.4	23.4	22.4	80.69	53.18	60	80.69	77.24	32	6.4
1SV17EC009	NISHATH NAW	15	15	30	15	15	30	15	15	30	2	2	2	2	2	7	7	7	7	7	24	39	24	24	24	82.76	88.64	82.76	82.76	82.76	35	7
1SV17EC011	RAKESH K L	12	13	25	11	10	21	13	13	26	2	2	2	2	2	9.6	9.6	9.6	9.6	9.6	23.6	35.6	21.6	24.6	24.6	81.38	80.91	74.48	84.83	84.83	48	9.6
1SV17EC013	REKHA K N	15	15	30	15	15	30	15	15	30	2	2	2	2	2	6.2	6.2	6.2	6.2	6.2	23.2	38.2	23.2	23.2	23.2	80	86.82	80	80	80	31	6.2
1SV17EC014	SAHANA G R	15	15	30	15	15	30	15	14	29	2	2	2	2	2	6.4	6.4	6.4	6.4	6.4	23.4	38.4	23.4	23.4	22.4	80.69	87.27	80.69	80.69	77.24	32	6.4
1SV18EC401	HEMA K P	15	15	30	15	15	30	15	14	29	2	2	2	2	2	7.2	7.2	7.2	7.2	7.2	24.2	39.2	24.2	24.2	23.2	83.45	89.09	83.45	83.45	80	36	7.2
1SV18EC402	LOKESHA G H	8	15	23	15	14	29	15	13	28	2	2	2	2	2	6.4	6.4	6.4	6.4	6.4	16.4	38.4	22.4	23.4	21.4	56.55	87.27	77.24	80.69	73.79	32	6.4
1SV17EC002	ASHWINI V	5	0	5	7	15	22	14	8	22	2	2	2	2	2	7.6	7.6	7.6	7.6	7.6	14.6	16.6	24.6	23.6	17.6	50.34	37.73	84.83	81.38	60.69	38	7.6
1SV17EC015	SAYEEDUNNIS	8	2	10	15	8	23	15	4	19	2	2	2	2	2	6.8	6.8	6.8	6.8	6.8	16.8	10.8	18.8	23.8	16.8	57.93	37.24	64.83	82.07	57.93	34	6.8
																										43.62	46.4	46.44	43.72	41.63	32.1	45
																															53.5	
					FACULTY											HOD								PRINCIPAL							

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Department of Electronics & Communication Engineering

Course Outcomes and CO-PO- Articulation Matrix

2015 Scheme

ACADEMIC YEAR 2019-20

Semester-VII

SUBJECT: MICROWAVE & ANTENNA FACULTY NAME : PROF. PRADEEPKUMAR S S	Subject Code: 15EC71

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	81.42 %	0.81	1.62										
CO2	79.39%	0.79	0.79	1.58	0.79	1.58							
CO3	22.57%	0.45	0.45	2.38	2.38	0.45							
CO4	23.53%	0.47	0.47	0.45	0.67	0.70							
CO5	23.79%	0.47	0.23	0.47	0.23	0.47							
AVERAGE		0.59	0.71	1.22	1.01	0.8							
TOTAL ATTAINMENT													0.86

COURSE INSTRUCTOR

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Roll No	USN	Name	18ES71	5ABA	2019-2020 ODD																										
			T1	T2	T3	CO1-10	CO2-7	CO3-8	CO4-8	CO6-7	CO1-1	CO2-1	CO3-1	CO4-1	CO6-1	ME	CO1-10	CO2-10	CO3-10	CO4-10	CO6-10	CO1-25	CO2-24	CO3-25	CO4-25	CO6-24	TOTAL AVERAGE
1	1SV14EC026	RAHUL K	26	21	1	28	14	8	7	0	1	1	1	1	1	33	8.8	8.8	8.8	8.8	8.8	33.6	21.6	16.6	17.6	7.8	18.4
2	1SV14EC034	RASHMIN RECAMI	19	20	6	16	13	7	6	6	1	1	1	1	1	29	5.8	5.8	5.8	5.8	5.8	21.8	19.8	13.8	8.8	8.8	14.2
3	1SV15EC065	ARUN C G	23	22	16	23	13	8	4	12	1	1	1	1	1	18	3.6	3.6	3.6	3.6	3.6	27.6	17.6	13.6	11.6	15.6	17.4
4	1SV15EC067	BHAVANA N	16	23	9	15	14	8	6	6	1	1	1	1	1	11	2.2	2.2	2.2	2.2	2.2	18.2	17.2	12.2	8.2	3.2	11.4
5	1SV15EC071	GAGANA K S	27	16	6	27	12	7	6	6	1	1	1	1	1	28	5.6	5.6	5.6	5.6	5.6	33.6	19.6	13.6	8.6	8.6	15.4
6	1SV15EC084	RAVI A S	11	23	20	11	14	8	7	13	1	1	1	1	1	19	3.2	3.2	3.2	3.2	3.2	15.2	18.2	13.2	14.2	17.2	13.6
7	1SV15EC097	NOOR AYSHA	26	17	22	26	6	8	8	13	1	1	1	1	1	40	8.4	8.4	8.4	8.4	8.4	30.4	18.4	17.4	21.4	23.4	23
8	1SV15EC098	RAGHURAJ G K	24	21	23	24	13	8	8	15	1	1	1	1	1	40	8	8	8	8	8	33	23	17	23	24	23.2
9	1SV15EC099	USHA Y M	20	21	21	20	12	8	8	12	1	1	1	1	1	36	7	7	7	7	7	28	20	17	20	20	21
10	1SV15EC102	VINIYAS S P	14	19	25	14	11	8	10	15	1	1	1	1	1	17	3.4	3.4	3.4	3.4	3.4	18.4	15.4	12.4	17.4	18.4	16.8
11	1SV15EC402	ANUSHA T P	15	24	28	15	14	10	13	15	1	1	1	1	1	30	6	6	6	6	6	27	21	17	23	22	22
																						28.09455	19.09455	13.64137	15.80779	15.71636	
																						81.80%	79.39%	22.57%	23.53%	23.79%	

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Department of Electronics & Communication Engineering

Course Outcomes and CO-PO- Articulation Matrix

2015 Scheme
ACADEMIC YEAR 2019-20

Semester-VII

Subject: Digital Image Processing Prof. Raghavendra D	Subject Code: 15EC72

Course Outcomes

CO1	Understand the fundamentals of digital image processing
CO2	Understand the image transform used in digital image processing
CO3	Understand the image enhancement techniques used in digital image processing
CO4	Understand the image restoration techniques and methods used in digital image processing
CO5	Understand the Morphological Operations and Segmentation used in digital image processing

CO-PO Mapping

COs	Pos											
	1	2	3	4	5	6	7	8	9	10	11	12
CO1	3	1									3	1
CO2	3	2									3	1
CO3	3	2									3	1
CO4	3	2									3	1
CO5	3	1									3	1
Average	3	1.6									3	1

ATTAINMENT TABLE

COs	AVG	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	65.62%	1.96	0.65									1.96	0.65
CO2	68.66%	0.2	0.68									0.2	0.68
CO3	58.80%	1.76	1.17									1.76	0.58
CO4	53.69%	1.61	1.07									1.61	0.53
CO5	40.90%	1.22	0.41									1.22	0.41
AVERAGE		1.35	0.79									1.35	0.57
TOTAL ATTAINMENT													1.015

Course Instructor

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Roll No.	USN	Name	T1	T2	T3	CO1.65	CO2.65	CO3.65	CO4.65	CO5.65	CO1.5	CO2.5	CO3.5	CO4.5	CO5.5	SS	CO1.15	CO2.15	CO3.15	CO4.15	CO5.15	CO1.50	CO2.50	CO3.50	CO4.50	CO5.50	TOTAL AVERAGE
1	NITHIN KUMAR S	1SV18EC029	40	38	38	20	20	20	19	19	19	2	2	2	2	2	38	7	7	7	7	7	29	29	29	30	28	28.8
2	SUNITHA Y N	1SV19EC045	32	31	32	16	16	15	16	20	12	2	2	2	2	2	28	5.6	5.6	5.6	5.6	5.6	23.6	22.6	23.6	29.6	19.6	23.8
3	AFRA FATHIMA	1SV17EC001	37	36	28	20	20	18	18	12	14	2	2	2	2	2	32	6.4	6.4	6.4	6.4	6.4	28.4	26.4	26.4	22.4	22.4	25.2
4	ANIHANI V	1SV17EC002	32	30	30	12	12	15	15	15	15	2	2	2	2	2	28	5.6	5.6	5.6	5.6	5.6	19.6	22.6	22.6	24.6	22.6	22.4
5	DANIEL S	1SV17EC003	40	38	36	20	20	19	19	18	18	2	2	3	2	2	40	8	8	8	8	8	30	29	29	30	28	29.2
6	GEETHA M S	1SV17EC004	38	38	38	19	19	19	19	20	18	2	2	2	2	2	36	7	7	7	7	7	29	29	29	31	27	28.4
7	JITHENDRA H	1SV17EC005	36	34	32	18	18	17	17	20	12	2	2	2	2	2	27	5.4	5.4	5.4	5.4	5.4	25.4	24.4	24.4	29.4	19.4	24.6
8	MD TAJ HUSSAIN	1SV17EC006	36	35	28	18	18	17	18	14	12	2	2	2	2	2	23	4.6	4.6	4.6	4.6	4.6	24.6	23.6	24.6	22.6	18.6	22.8
9	NIDA NAWAZ	1SV17EC007	40	38	24	20	20	19	19	12	12	2	2	2	2	2	41	8.2	8.2	8.2	8.2	8.2	30.2	29.2	29.2	24.2	22.2	27
10	NISHA H	1SV17EC008	37	38	40	23	23	19	19	20	20	2	2	2	2	2	36	7.2	7.2	7.2	7.2	7.2	32.2	28.2	28.2	31.2	29.2	29.8
11	NIHATH NAWAZ	1SV17EC009	40	35	26	20	20	17	18	13	13	2	2	2	2	2	48	9.6	9.6	9.6	9.6	9.6	31.6	28.6	29.6	26.6	24.6	28.2
12	REKHA K N	1SV17EC013	33	32	32	16	16	16	16	16	16	2	2	2	2	2	24	4.8	4.8	4.8	4.8	4.8	22.8	22.8	22.8	24.8	22.8	23.2
13	SAHANA G R	1SV17EC014	40	40	40	20	20	20	*20	20	20	2	2	2	2	2	34	6.8	6.8*	6.8	6.8	6.8	26.8	26.8	26.8	30.8	26.8	29.2
14	SAYEEDUNNISA	1SV17EC015	35	36	36	18	18	19	19	19	19	2	2	2	2	2	27	5.4	5.4	5.4	5.4	5.4	25.4	26.4	26.4	28.4	26.4	26.6
15	HEMA K P	1SV18EC401	38	40	40	20	20	20	20	20	20	2	2	2	2	2	41	8.2	8.2	8.2	8.2	8.2	30.2	30.2	30.2	32.2	30.2	30.8
16	LOKESHA G H	1SV18EC402	30	32	32	15	15	16	16	20	12	2	2	2	2	2	28	5.6	5.6	5.6	5.6	5.6	22.6	23.6	23.6	29.6	19.6	23.8
																							27.025	26.463	14.669	15.428	13.4276	
																							71.12%	69.64%	38.60%	40.60%	35.34%	

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Department of Electronics & Communication Engineering

Course Outcomes and CO-PO- Articulation Matrix

2015 Scheme
ACADEMIC YEAR 2019-20

Semester-VII

Subject: Power Electronics Prof. Maltesh Bajantri	Subject Code: 15EC73

Course Outcomes

CO1	Understand the construction and working of various power devices.
CO2	Study and analysis of thyristor circuits with different triggering conditions.
CO3	Learn the applications of power devices in controlled rectifiers, converters and inverters.
CO4	Study of power electronics circuits under various load conditions.
CO5	Understand different devices of power electronics

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			2					1.75		1

ATTAINMENT TABLE

COs	AVG	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	58.63%	1.16									0.58		0.58
CO2	69.24%	2.07	2.07				1.38				1.38		0.69
CO3	60.79%	1.82	1.82				1.21				1.21		0.6
CO4	38.63%	1.15	1.15				0.77				0.77		0.38
CO5	54.82%	1.64											
AVERAGE		1.56	1.68				1.12				0.98		0.56
TOTAL ATTAINMENT													1.18

Course Instructor

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			USCTS		2019-2020 ODD						SEM: VII SEM	TIP: Prof. Mahesh Bapatt															
						T1		T2		T3		Assignment 5/5						SEE	SEE MARKS					Final					
Roll No	USN	Name	T1(100)	T2(100)	T3(100)	CO1-15	CO2-15	CO2-15	CO3-15	CO4-15	CO5-15	CO1-1	CO2-1	CO3-1	CO4-1	CO5-1	80	CO1-15	CO2-15	CO3-15	CO4-15	CO5-15	CO1-22	CO2-47	CO3-22	CO4- 22	CO5-22	TOTAL AVERAGE
1	1SV14EC02x	KAMYA E	27	29	6	12	15	15	14	6	8	1	1	1	1	1	12	2.8	2.8	2.8	2.8	2.8	25.6	33.6	18.6	9.6	17.6	25
2	1SV14EC079	KANNADI BEGAM H	30	27	9	15	15	15	12	8	8	1	1	1	1	1	0	0	0	0	0	0	16	31	16	1	13	15.4
3	1SV15EC049	ARUN C C	28	29	22	15	13	14	15	8	14	1	1	1	1	1	35	7	7	7	7	7	23	35	22	16	23	23.8
4	1SV15EC047	BHAVANA N	22	23	6	7	15	15	8	8	8	1	1	1	1	1	34	6.8	6.8	6.8	6.8	6.8	14.6	37.6	12.6	7.6	15.6	19.6
5	1SV15EC051	CACANA K K	29	28	16	15	14	11	14	8	11	1	1	1	1	1	18	3.6	3.6	3.6	3.6	3.6	19.6	29.6	21.6	12.6	15.6	19.6
6	1SV15EC056	K AYYA S	12	22	0	6	4	8	14	8	8	1	1	1	1	1	36	7.2	7.2	7.2	7.2	7.2	16.2	30.2	16.2	8.2	8.2	13.8
7	1SV15EC057	NOOR AYESHA	30	27	20	15	15	14	13	13	12	1	1	1	1	1	33	6.6	6.6	6.6	6.6	6.6	22.6	36.6	31.6	20.6	10.6	24.2
8	1SV15EC058	RACHEREAL C E	30	28	21	15	15	14	14	7	14	1	1	1	1	1	33	6.6	6.6	6.6	6.6	6.6	22.6	36.6	21.6	14.6	21.6	23.4
9	1SV15EC049	SNEHA T M	22	24	24	7	15	12	14	8	15	1	1	1	1	1	47	9.4	9.4	9.4	9.4	9.4	17.4	31.8	16.8	15.4	21.8	20.56
10	1SV15EC052	VISMAYA S P	16	14	23	8	8	7	7	8	15	1	1	1	1	1	28	5.6	5.6	5.6	5.6	5.6	14.6	25.8	17.8	18.6	25.6	20.56
11	1SV14EC402	ANUSHA T P	28	23	0	13	15	14	9	0	0	1	1	1	1	1	50	10	10.2	10.2	10.2	10.2	24	40.2	25.2	11.2	11.2	22.36
																							18.764	32.545	19.455	12.364	17.545	20.135
																							58.636	69.246	60.795	38.636	54.83	56.429

Course Instructor

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DEPARTMENT OF ELECTRONICS & COMMUNICATION

SEM: VII ACADEMIC YEAR:2019-2020

SUBJECT	SATELLITE COMMUNICATION	SUBJECT CODE	15EC755

COURSE OUTCOME

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

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

CO3. Compute the satellite link parameters under various propagation conditions with the illustration of multiple access techniques

CO4 Describe the communication satellites with the focus on national satellite system

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

PROGRAM OUTCOMES

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

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

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

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

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

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

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

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

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

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

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

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

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	Prof.AIJAZ AHAMED SHARIEF											
BRANCH	ECE			ACADEMIC YEAR			2019-2020					
COURSE	B.E	SEMESTER	VII	SECTION	A							
SUBJECT	SATELLITE COMMUNICATION					SUBJECT CODE	15EC755					

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	78.80	1.57	1.57										
CO2	85.37	1.70	1.70										
CO3	78.23	1.56	1.56										
CO4	78.23	1.56	1.56	0.78									
CO5	42.15	0.84	0.84	0.42									
AVERAGE	72.55	1.44	1.44	0.6									
												FINAL ATTAINMENT LEVEL	1.16

COURSE INSTRUCTOR

HOD

Dept of E&C
SIET, Tumkur-6

PRINCIPAL
SIET, TUMAKURU

Academic year	2019-20			SEM	VII		Total strength			11		Subject		Satellite communication					Subject Code	15EC755										
SEM:VII	IA TEST 1(30M)			IA TEST 2(30M)			IA TEST 3(30M)			ASSIGNEMENT / QUIZ(05 M)					SEE MARKS(80)					Total Cos ATTAINMENT					% of individual CO					SEE Tot
USN	CO1	CO2	TOTAL	CO2	CO3	TOTAL	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	CO1=16	CO2	CO3	CO4	CO5	CO1=32	CO2=47	CO3=32	CO4=32	CO5=32	CO1	CO2	CO3	CO4	CO5	80M
1SV14EC026	15	14	29	15	14	29	0	0	0	1	1	1	1	1	4.6	4.6	4.6	4.6	4.6	20.6	34.6	19.6	5.6	5.6	64.375	73.617	61.25	17.5	17.5	23
1SV14EC029	15	14	29	15	14	29	0	0	0	1	1	1	1	1	9	9	9	9	9	25	39	24	10	10	78.125	82.979	75	31.25	31.25	45
1SV15EC005	15	15	30	15	15	30	4	9	13	1	1	1	1	1	9.4	9.4	9.4	9.4	9.4	25.4	40.4	25.4	14.4	19.4	79.375	85.957	79.375	45	60.625	47
1SV15EC007	15	14	29	15	14	29	0	0	0	1	1	1	1	1	11.2	11.2	11.2	11.2	11.2	27.2	41.2	26.2	12.2	12.2	85	87.66	81.875	38.125	38.125	56
1SV15EC013	11	14	25	15	14	29	5	4	9	1	1	1	1	1	11.8	11.8	11.8	11.8	11.8	23.8	41.8	26.8	17.8	16.8	74.375	88.936	83.75	55.625	52.5	59
1SV15EC018	13	15	28	15	14	29	0	0	0	1	1	1	1	1	8.4	8.4	8.4	8.4	8.4	22.4	39.4	23.4	9.4	9.4	70	83.83	73.125	29.375	29.375	42
1SV15EC027	13	14	27	15	14	29	10	3	13	1	1	1	1	1	10.6	10.6	10.6	10.6	10.6	24.6	40.6	25.6	21.6	14.6	76.875	86.383	80	67.5	45.625	53
1SV15EC035	15	13	28	15	14	29	10	2	12	1	1	1	1	1	10.6	10.6	10.6	10.6	10.6	26.6	39.6	25.6	21.6	13.6	83.125	84.255	80	67.5	42.5	53
1SV15EC049	14	13	27	15	14	29	8	7	15	1	1	1	1	1	11.4	11.4	11.4	11.4	11.4	26.4	40.4	26.4	20.4	19.4	82.5	85.957	82.5	63.75	60.625	57
1SV15EC052	15	14	29	15	13	28	1	1	2	1	1	1	1	1	9.8	9.8	9.8	9.8	9.8	25.8	39.8	23.8	11.8	11.8	80.625	84.681	74.375	36.875	36.875	49
1SV16EC402	15	15	30	15	14	29	1	1	2	1	1	1	1	1	13.6	13.6	13.6	13.6	13.6	29.6	44.6	28.6	15.6	15.6	92.5	94.894	89.375	48.75	48.75	68
																									78.807	85.377	78.239	78.239	42.159	

FACULTY

HOD
Dept of E&C
SIET, Tumkur-6

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SIET, TUMAKURU.

SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY, TUMKUR

DEPARTMENT OF ECE

CO-PO ATTAINMENT

ACADEMIC YEAR

2019-20

EVEN SEM

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

(COMMON TO ALL BRANCHES)
ACADEMIC YEAR: 2019-2020

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

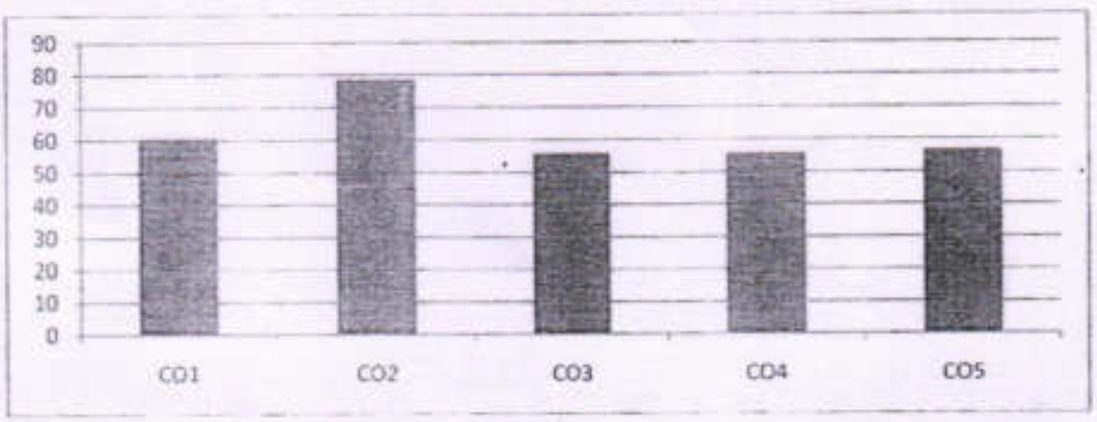
MAPPING	LOW	MODERATELY	HIGHLY	NO
CORELATION	1	2	3	0

Sri Shridevi Charitable Trust (R.)
SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY
Sira Road, Tumkur - 572 106, Karnataka, India.

DEPARTMENT OF MATHEMATICS

COLLEGE		SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY			
FACULTY NAME		/Dr. CHETANA C/Prof. RASHMI S B			
BRANCH		ECE/EEE/CSE/CVE/ISE/ME	ACADEMIC YEAR		2019-20
COURSE	B.E	SEMESTER	IV	SECTION	--
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	61	1.21	1.82	0	0	0	0	0	0	0	0	0	0.61
CO2	79	1.57	2.36	0	0	0	0	0	0	0	0	0	0.79
CO3	56	1.12	1.68	0	0	0	0	0	0	0	0	0	0.56
CO4	56	1.12	1.67	0	0	0	0	0	0	0	0	0	0.56
CO5	57	1.13	1.70	0	0	0	0	0	0	0	0	0	0.57
AVG	62	1	2	0	0	0	0	0	0	0	0	0	1
												Final attainment level	1.23



Staff in-charge

HOD

PRINCIPAL
SIET
Principal

PRINCIPAL
SIET., TUMAKURU.

USN	CO1	CO2	TOTAL	CO3	CO4	TOTAL	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	SEE Tot
1SV18EC012	8	7	15	15	15	30	28	56	2	2	2	2	2	8	8	8	8	8	18	21	10	12	53	66.7	92.6	83.3	63.0	60.9	40
1SV18EC013	15	14	29	15	15	30	28	56	2	2	2	2	2	5.2	5.2	5.2	5.2	5.2	27	27	7	21	50	87.2	87.2	60.0	78.5	57.7	26
1SV18EC014	12	12	24	0	0	0	27	54	2	2	2	2	2	6.6	6.6	6.6	6.6	6.6	21	9	9	21	36	76.3	33.3	71.7	76.3	40.9	33
1SV18EC015	13	13	26	15	15	30	26	52	2	2	2	2	2	9.8	9.8	9.8	9.8	9.8	25	27	12	25	53	91.9	99.1	98.3	91.9	80.7	49
1SV18EC016	15	15	30	15	15	30	28	56	2	2	2	2	2	7.4	7.4	7.4	7.4	7.4	24	24	9	24	52	90.4	90.4	78.3	90.4	80.2	37
1SV18EC017	15	15	30	15	15	30	28	56	2	2	2	2	2	5.2	5.2	5.2	5.2	5.2	22	22	3	22	50	82.2	82.2	60.0	82.2	57.7	26
1SV18EC018	13	14	19	15	15	30	26	52	2	2	2	2	2	6.6	6.6	6.6	6.6	6.6	24	24	9	23	50	87.4	87.4	71.7	83.7	57.0	33
1SV18EC019	6	0	0	15	15	30	26	52	2	2	2	2	2	3.6	3.6	3.6	3.6	3.6	6	21	6	6	47	20.7	76.3	46.7	20.7	53.6	18
1SV18EC020	14	8	22	15	15	30	26	52	2	2	2	2	2	10.2	10.2	10.2	10.2	10.2	26	27	12	20	53	97.0	100.7	101.7	74.8	61.1	51
1SV18EC021	13	15	30	15	15	30	28	56	2	2	2	2	2	6	6	6	6	6	23	23	8	23	51	85.2	85.2	66.7	85.2	58.6	30
1SV18EC022	8	0	0	12	14	26	26	52	2	2	2	2	2	10	10	10	10	10	12	26	12	12	50	44.4	96.3	100.0	44.4	57.5	50
1SV18EC023	14	15	29	15	15	30	28	56	2	2	2	2	2	7.4	7.4	7.4	7.4	7.4	24	24	9	24	52	86.7	90.4	78.3	90.4	80.2	37
1SV18EC024	14	14	28	15	15	30	28	56	2	2	2	2	2	5.4	5.4	5.4	5.4	5.4	21	22	7	21	50	79.3	83.0	61.7	79.3	57.9	27
1SV18EC025	3	0	0	14	15	29	28	56	2	2	2	2	2	4.4	4.4	4.4	4.4	4.4	6	21	6	6	48	23.7	79.3	53.3	23.7	55.6	22
1SV18EC026	12	5	17	15	15	30	28	56	2	2	2	2	2	8	8	8	8	8	22	25	10	15	53	81.5	92.6	83.3	55.6	60.9	40
1SV18EC027	12	5	17	15	15	30	26	52	2	2	2	2	2	5.2	5.2	5.2	5.2	5.2	19	22	7	12	48	71.1	82.2	60.0	45.2	55.4	26
1SV18EC028	7	5	12	15	15	30	28	56	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	13	21	6	11	49	48.9	78.5	51.7	41.5	56.6	21
1SV18EC029	9	11	20	15	15	30	26	52	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	15	21	6	17	47	56.3	78.5	51.7	63.7	54.3	21
1SV18EC030	6	0	0	4	6	10	26	52	2	2	2	2	2	5.2	5.2	5.2	5.2	5.2	7	13	7	7	17	26.7	48.9	60.0	26.7	42.8	26
1SV18EC031	8	8	26	15	15	30	28	56	2	2	2	2	2	6.6	6.6	6.6	6.6	6.6	24	24	9	17	52	87.4	87.4	71.7	61.5	59.3	33
1SV18EC032	0	0	0	15	15	30	26	52	2	2	2	2	2	2.2	2.2	2.2	2.2	2.2	4	19	4	4	45	15.6	71.1	35.0	15.6	52.0	11
1SV19EC400	10	2	12	13	15	28	26	52	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	16	21	6	8	45	60.0	78.5	51.7	60.4	52.0	21
1SV19EC401	12	5	17	15	15	30	28	56	2	2	2	2	2	2.2	2.2	2.2	2.2	2.2	16	19	4	9	47	60.0	71.1	35.0	34.1	54.3	11
1SV19EC402	5	5	10	15	15	30	27	54	2	2	2	2	2	2.6	2.6	2.6	2.4	2.4	9	19	4	9	48	34.8	71.9	36.7	34.8	53.3	12
1SV19EC403	4	4	8	15	15	30	28	56	2	2	2	2	2	1	1	1	1	1	7	18	3	7	46	25.9	66.7	25.0	25.9	52.5	5
1SV19EC404	4	5	8	15	15	30	28	56	2	2	2	2	2	1.8	1.8	1.8	1.8	1.8	7	19	4	9	47	25.2	69.6	31.7	32.6	53.8	9
1SV19EC405	3	7	10	15	15	2	27	54	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	9	21	6	13	48	34.1	78.5	51.7	48.9	55.4	21
1SV17EE006	15	15	30	15	15	30	30	60	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	21	21	6	21	51	78.5	78.5	51.7	78.5	58.9	21
1SV17EE012	15	1	16	15	15	30	25	50	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	21	21	6	7	46	78.5	78.5	51.7	26.7	53.1	21
1SV17EE006	15	6	21	13	15	28	17	34	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	21	21	6	12	36	78.5	78.5	51.7	45.2	41.6	21
1SV17EE012	15	14	29	14	15	29	30	60	2	2	2	2	2	9.2	9.2	9.2	9.2	9.2	26	26	11	25	55	97.0	97.0	93.3	93.3	63.4	46
1SV18EE002	15	4	19	11	14	25	29	58	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	21	20	6	10	46	78.5	74.8	51.7	37.8	53.1	21
1SV18EE003	11	15	26	15	15	30	30	60	2	2	2	2	2	5.2	5.2	5.2	5.2	5.2	18	22	7	22	52	67.4	82.2	60.0	82.2	60.0	26
1SV18EE004	2	0	2	15	14	29	29	58	2	2	2	2	2	5.6	5.6	5.6	5.6	5.6	10	22	8	8	52	36.3	80.7	65.0	28.9	59.5	29
1SV18EE005	5	8	13	15	15	30	30	60	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	11	21	6	14	51	41.5	78.5	51.7	52.6	58.9	21
1SV18EE006	5	5	10	15	15	30	28	56	2	2	2	2	2	2.6	2.6	2.6	2.6	2.6	10	20	5	10	48	35.6	72.6	38.3	35.6	54.7	13
1SV18EE007	10	5	15	15	14	29	30	60	2	2	2	2	2	1.6	1.6	1.6	1.6	1.6	14	18	4	9	49	50.4	65.2	30.0	31.5	55.9	8
1SV18EE008	11	10	21	15	15	30	22	44	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	17	21	6	16	43	63.7	78.5	51.7	60.0	49.7	21
1SV18EE009	2	9	11	15	13	28	30	60	2	2	2	2	2	1	1	1	1	1	5	16	3	12	48	18.5	59.3	25.0	44.4	55.2	5
1SV19EE400	5	4	9	15	15	30	30	60	2	2	2	2	2	3.2	3.2	3.2	3.2	3.2	10	20	5	9	50	37.8	74.8	43.3	34.1	57.7	16
1SV19EE401	5	10	15	15	15	30	30	60	2	2	2	2	2	1.8	1.8	1.8	1.8	1.8	9	19	4	14	49	32.6	69.6	31.7	51.1	56.1	9
1SV19EE402	5	5	10	15	15	30	30	60	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	11	21	6	11	51	41.5	78.5	51.7	41.5	58.9	21
1SV19EE403	12	5	17	15	14	29	30	60	2	2	2	2	2	2.4	2.4	2.4	2.4	2.4	16	18	4	9	49	60.7	66.1	36.7	34.8	56.8	12
1SV19EE404	13	10	23	15	15	30	30	60	2	2	2	2	2	1.8	1.8	1.8	1.8	1.8	17	19	4	14	49	62.2	69.6	31.7	51.1	56.1	9
1SV19EE405	7	6	13	15	14	29	29	58	2	2	2	2	2	2.8	2.8	2.8	2.8	2.8	12	19	5	11	48	43.7	69.6	40.0	40.0	56.1	14
1SV17CS011	15	12	27	15	15	30	29	58	2	2	2	2	2	1.8	1.8	1.8	1.8	1.8	19	19	4	16	48	69.6	69.6	31.7	58.5	56.9	9
1SV17CS015	5	5	10	15	15	30	28	56	2	2	2	2	2	0.4	0.4	0.4	0.4	0.4	7	17	2	7	45	27.4	64.4	20.0	27.4	52.2	2
1SV17CS018	0	0	0	15	15	30	29	58	2	2	2	2	2	3.6	3.6	3.6	3.6	3.6	6	21	6	6	50	20.7	76.3	46.7	20.7	57.0	18
1SV17CS026	5	5	10	15	15	30	29	58	2	2	2	2	2	2	2	2	2	2	9	19	4	9	48	33.3	70.4	33.3	33.3	55.2	10

PRINCIPAL
SIET., TUMAKURU

15V17CS027	14	10	22	15	15	30	29	58	2	2	2	2	2	2	2	2	2	2	16	19	6	18	60	59.3	70.4	33.3	51.9	55.2	10
15V17CS034	0	0	0	10	15	25	29	58	2	2	2	2	2	2	0.6	0.6	0.6	0.6	0.6	5	18	3	3	42	9.6	65.2	71.7	9.6	47.8	3
15V18CS001	0	0	0	15	15	30	29	58	2	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	6	21	8	6	50	21.0	78.5	51.7	21.0	57.7	21
15V18CS003	15	12	27	15	15	30	30	60	2	2	2	2	2	2	6	6	6	6	6	23	23	8	20	53	85.2	85.2	66.7	74.1	60.9	30
15V18CS004	13	5	18	15	15	30	29	58	2	2	2	2	2	2	4.8	4.8	4.8	4.8	4.8	20	22	7	12	51	73.3	80.7	56.7	43.7	58.4	24
15V18CS005	15	12	27	15	15	30	30	60	2	2	2	2	2	2	11.2	11.2	11.2	11.2	11.2	28	28	13	25	58	104.4	104.4	130.0	93.3	66.9	50
15V18CS007	15	14	29	15	15	30	30	60	2	2	2	2	2	2	6.4	6.4	6.4	6.4	6.4	23	23	8	22	53	86.7	86.7	70.0	83.0	61.4	32
15V18CS008	0	0	0	15	15	30	29	58	2	2	2	2	2	2	4.6	4.6	4.6	4.6	4.6	7	22	7	7	51	24.4	80.0	55.0	24.4	58.2	23
15V18CS013	11	10	21	15	15	30	29	58	2	2	2	2	2	2	7.4	7.4	7.4	7.4	7.4	22	24	9	19	53	81.0	90.4	78.3	71.9	61.4	37
15V18CS014	12	13	30	15	15	30	30	60	2	2	2	2	2	2	7.2	7.2	7.2	7.2	7.2	24	24	9	24	54	89.6	89.6	76.7	89.6	62.3	36
15V18CS015	12	10	25	15	15	30	29	58	2	2	2	2	2	2	3.6	3.6	3.6	3.6	3.6	21	21	8	16	50	76.3	76.3	66.7	57.8	57.0	18
15V18CS017	13	15	30	15	15	30	29	58	2	2	2	2	2	2	7	7	7	7	7	24	24	9	24	53	88.9	88.9	75.0	88.9	60.9	35
15V18CS019	11	15	26	15	15	30	29	58	2	2	2	2	2	2	6.4	6.4	6.4	6.4	6.4	21	23	8	23	52	79.3	86.7	70.0	86.7	60.2	32
15V18CS021	15	15	30	15	15	30	30	60	2	2	2	2	2	2	6.2	6.2	6.2	6.2	6.2	23	23	8	23	53	85.9	85.9	68.3	85.9	61.1	31
15V18CS022	5	0	5	15	15	30	29	58	2	2	2	2	2	2	5	5	5	5	5	7	22	7	7	51	25.9	83.5	58.3	25.9	58.6	25
15V18CS023	5	0	5	15	15	30	29	58	2	2	2	2	2	2	6.4	6.4	6.4	6.4	6.4	8	23	8	8	57	31.1	88.7	70.0	31.1	60.2	32
15V18CS024	14	15	30	15	15	30	30	60	2	2	2	2	2	2	5	5	5	5	5	22	22	7	22	52	81.5	81.5	58.3	81.5	59.8	25
15V18CS025	13	14	28	15	15	30	29	58	2	2	2	2	2	2	4.8	4.8	4.8	4.8	4.8	17	22	7	21	51	62.2	60.7	56.7	77.0	58.4	24
15V18CS026	16	10	26	15	15	30	29	58	2	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	22	21	8	16	50	82.2	78.5	51.7	60.0	57.7	21
15V18CS028	5	13	18	15	15	30	29	58	2	2	2	2	2	2	0.6	0.6	0.6	0.6	0.6	8	18	3	16	47	28.1	65.2	21.7	57.8	53.6	5
15V18CS029	15	15	30	15	15	30	29	58	2	2	2	2	2	2	6.6	6.6	6.6	6.6	6.6	24	24	9	24	53	87.4	87.4	71.7	87.4	60.5	33
15V18CS030	0	0	0	15	14	29	27	54	2	2	2	2	2	2	3	3	3	3	3	5	19	5	5	47	18.5	70.4	41.7	18.5	54.0	15
15V18CS031	16	12	22	15	15	30	29	58	2	2	2	2	2	2	4.6	4.6	4.6	4.6	4.6	17	22	7	19	51	61.5	80.0	55.0	68.9	58.2	23
15V18CS032	0	0	0	15	15	30	28	56	2	2	2	2	2	2	9.4	9.4	9.4	9.4	9.4	11	26	11	11	54	42.2	57.8	95.0	42.2	62.5	47
15V18CS033	18	10	28	15	15	30	29	58	2	2	2	2	2	2	6.4	6.4	6.4	6.4	6.4	26	23	8	18	52	97.8	85.7	70.0	68.1	60.2	32
15V18CS038	15	15	30	15	15	30	29	58	2	2	2	2	2	2	5.2	5.2	5.2	5.2	5.2	22	22	7	22	53	82.2	82.2	60.0	82.2	58.9	26
15V18CS039	10	13	28	15	15	30	29	58	2	2	2	2	2	2	0	0	0	0	0	12	17	2	15	46	44.4	63.0	16.7	55.6	52.9	0
15V18CS042	13	10	23	15	15	30	29	58	2	2	2	2	2	2	3	3	3	3	3	18	20	5	15	49	66.7	78.1	41.7	55.6	56.3	15
15V18CS043	10	14	24	15	15	30	29	58	2	2	2	2	2	2	7.6	7.6	7.6	7.6	7.6	20	25	10	24	54	72.6	91.1	80.0	87.4	61.6	38
15V18CS045	6	0	6	15	15	30	29	58	2	2	2	2	2	2	3.2	3.2	3.2	3.2	3.2	5	20	5	5	49	19.3	74.8	43.3	19.3	56.6	16
15V18CS046	15	10	25	15	15	30	29	58	2	2	2	2	2	2	5.2	5.2	5.2	5.2	5.2	22	22	7	17	51	82.2	82.2	60.0	63.7	58.9	26
15V19CS400	13	15	28	15	15	30	28	56	2	2	2	2	2	2	3	3	3	3	3	18	20	5	20	48	66.7	74.1	41.7	74.1	55.2	15
15V19CS401	10	10	20	15	15	30	29	58	2	2	2	2	2	2	4.8	4.8	4.8	4.8	4.8	17	22	7	17	51	62.2	80.7	56.7	62.2	58.4	24
15V17CV009	10	3	13	15	15	30	29	58	2	2	2	2	2	2	1	1	1	1	1	13	18	3	6	47	48.1	66.7	25.0	22.2	54.0	5
15V18CV003	13	13	26	15	15	30	28	56	2	2	2	2	2	2	5.4	5.4	5.4	5.4	5.4	22	22	7	20	50	83.0	83.0	61.7	75.6	57.9	27
15V18CV004	14	4	18	15	15	30	29	58	2	2	2	2	2	2	3.6	3.6	3.6	3.6	3.6	20	21	8	10	50	72.6	76.3	46.7	35.6	57.0	18
15V18CV007	13	10	22	15	15	30	25	50	2	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	18	21	6	16	46	67.4	78.5	51.7	60.0	53.1	21
15V18CV008	10	10	20	14	15	29	30	60	2	2	2	2	2	2	5.4	5.4	5.4	5.4	5.4	17	22	7	17	51	64.4	83.0	61.7	64.4	59.1	27
15V18CV011	15	15	30	15	15	30	30	60	2	2	2	2	2	2	6	6	6	6	6	23	23	8	23	53	85.2	85.2	66.7	85.2	60.9	30
15V18CV013	15	15	30	15	15	30	30	60	2	2	2	2	2	2	10.2	10.2	10.2	10.2	10.2	27	27	12	27	57	100.7	100.7	101.7	100.7	65.7	51
15V18CV014	15	15	30	15	15	30	30	60	2	2	2	2	2	2	7.4	7.4	7.4	7.4	7.4	24	24	9	24	54	90.4	90.4	78.3	90.4	62.5	37
15V18CV015	15	14	29	4	15	19	20	40	2	2	2	2	2	2	5.4	5.4	5.4	5.4	5.4	22	22	7	21	31	83.0	83.0	61.7	79.3	36.1	27
15V18CV017	15	10	25	14	15	29	30	60	2	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	21	21	8	16	50	78.5	78.5	51.7	60.0	57.7	21
15V18CV018	15	15	30	15	15	30	30	60	2	2	2	2	2	2	10.2	10.2	10.2	10.2	10.2	27	27	12	27	57	100.7	100.7	101.7	100.7	65.7	51
15V18CV019	15	15	30	15	15	30	30	60	2	2	2	2	2	2	6.6	6.6	6.6	6.6	6.6	24	24	9	24	54	87.4	87.4	71.7	87.4	61.6	33
15V18CV026	15	2	17	15	14	29	20	40	2	2	2	2	2	2	5.6	5.6	5.6	5.6	5.6	21	22	8	10	43	83.7	80.0	63.3	35.6	49.0	28
15V18CV027	15	14	29	15	15	30	30	60	2	2	2	2	2	2	5	5	5	5	5	22	22	7	21	52	81.5	81.5	58.3	77.8	59.8	25
15V18CV028	15	11	26	15	15	30	28	56	2	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	21	21	6	17	49	78.5	78.5	51.7	63.7	56.6	21
15V18CV029	5	13	18	15	15	30	29	58	2	2	2	2	2	2	5	5	5	5	5	12	22	7	20	51	44.4	81.5	58.3	74.1	58.6	25
15V18CV030	15	15	30	15	15	30	29	58	2	2	2	2	2	2	7	7	7	7	7	24	24	9	24	53	88.9	88.9	75.0	88.9	60.9	35
15V18CV036	15	15	30	15	10	25	30	60	2	2	2	2	2	2	7.2	7.2	7.2	7.2	7.2	24	19	9	24	54	89.6	71.1	76.7	89.6	62.3	36
15V19CV400	7	5	12	15	14	29	30	60	2	2	2	2	2	2	1.6	1.6	1.6	1.6	1.6	11	18	4	9	49	39.3	65.2	30.0	31.9	55.9	8
15V19CV404	3	2	5	15	14	29	21	42	2	2	2	2	2	2	0	0	0	0	0	5	16	2	4	38	18.5	59.3	16.7	14.8	43.7	0

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1SV19CV407	17	13	25	15	15	30	29								5.2	5.2	5.2	5.2	5.2		22	7	20	51	73.1	82.2	80.0	74.8	58.9	28
1SV19CV408	11	5	16	15	13	28	30	60	2	2	2	2	2	2	1.2	1.2	1.2	1.2	1.2	14	16	3	8	48	52.6	60.0	26.7	30.6	55.4	6
1SV19CV404	8	5	5	15	15	30	30	60	2	2	2	2	2	2	6.6	6.6	6.6	6.6	6.6	9	24	9	14	54	31.9	87.4	71.7	50.4	61.6	33
1SV19CV405	6	8	14	AB	AB	AB	25	52	2	2	2	2	2	2	3	3	3	3	3	11	5	5	13	31	40.7	18.5	41.7	48.1	35.6	15
1SV19CV406	17	3	15	14	15	29	30	60	2	2	2	2	2	2	1.6	1.6	1.6	1.6	1.6	16	15	4	7	48	57.8	68.9	30.0	24.4	58.7	8
1SV19CV407	4	6	10	14	15	29	30	60	2	2	2	2	2	2	2.6	2.6	2.6	2.6	2.6	9	20	3	11	49	11.9	72.6	38.3	38.3	55.0	13
1SV19CV408	3	12	15	15	15	30	30	60	2	2	2	2	2	2	3.4	3.4	3.4	3.4	3.4	8	20	3	17	50	33.3	75.6	45.0	64.4	57.8	17
1SV19CV409	10	11	21	9	15	24	30	60	2	2	2	2	2	2	4.4	4.4	4.4	4.4	4.4	16	21	6	17	45	60.7	79.3	53.3	64.4	52.2	22
1SV19CV410	13	12	25	15	15	30	30	60	2	2	2	2	2	2	3	3	3	3	3	18	20	5	17	50	66.7	74.1	41.7	65.0	57.5	15
1SV19CV411	3	5	8	15	15	30	26	56	2	2	2	2	2	2	1.8	1.8	1.8	1.8	1.8	7	19	4	9	47	25.2	69.6	31.7	32.6	53.3	9
1SV19CV412	2	3	5	14	15	29	30	60	2	2	2	2	2	2	3	3	3	3	3	7	20	5	8	49	25.9	74.1	41.7	29.6	56.3	15
1SV19CV413	9	4	13	9	15	28	30	60	2	2	2	2	2	2	2.6	2.6	2.6	2.6	2.6	14	20	5	9	44	50.4	72.6	38.3	33.9	50.1	13
1SV19CV414	7	5	12	15	15	30	29	58	2	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	13	21	6	11	50	48.9	78.5	51.7	41.5	57.7	21
1SV19CV415	3	8	11	15	15	30	30	60	2	2	2	2	2	2	5.4	5.4	5.4	5.4	5.4	10	22	7	16	52	38.5	83.0	61.7	60.7	60.2	27
1SV19CV416	12	3	15	15	15	30	29	58	2	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	18	21	6	9	50	67.4	78.5	51.7	34.1	57.7	21
1SV19CV417	5	8	13	15	15	30	30	60	2	2	2	2	2	2	2.8	2.8	2.8	2.8	2.8	10	20	5	13	50	36.3	73.3	40.0	47.8	57.2	14
1SV19CV418	12	5	17	13	15	28	30	60	2	2	2	2	2	2	10.2	10.2	10.2	10.2	10.2	28	27	12	17	45	89.6	100.7	101.7	63.7	52.0	51
1SV19CV419	10	10	20	15	15	30	29	58	2	2	2	2	2	2	5	5	5	5	5	17	22	7	17	51	63.0	83.5	58.3	63.0	58.6	25
1SV19CV420	10	11	21	15	15	30	30	60	2	2	2	2	2	2	4.8	4.8	4.8	4.8	4.8	17	22	7	18	52	62.2	80.7	56.7	65.9	59.5	24
1SV18ME002	15	15	30	14	15	29	30	60	2	2	2	2	2	2	7.8	7.8	7.8	7.8	7.8	25	25	10	25	54	91.9	91.9	81.7	91.9	61.8	39
1SV18ME004	10	15	25	15	15	30	30	60	2	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	16	21	6	21	51	60.0	78.5	51.7	78.5	58.9	21
1SV18ME005	15	5	20	15	15	30	28	56	2	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	21	21	6	11	49	78.5	78.5	51.7	41.5	56.6	21
1SV18ME009	15	4	19	15	15	30	30	60	2	2	2	2	2	2	3	3	3	3	3	20	20	5	9	50	74.1	74.1	41.7	33.3	57.5	15
1SV19ME400	15	7	22	13	15	28	30	60	2	2	2	2	2	2	6.4	6.4	6.4	6.4	6.4	23	23	8	15	51	86.7	86.7	70.0	57.0	59.1	32
1SV19ME401	15	13	28	15	15	30	30	60	2	2	2	2	2	2	7.8	7.8	7.8	7.8	7.8	25	25	10	23	55	91.9	91.9	81.7	84.4	64.0	39
1SV19ME402	6	5	11	12	15	27	29	58	2	2	2	2	2	2	1.8	1.8	1.8	1.8	1.8	10	19	4	9	45	36.1	69.6	31.7	32.6	51.5	9
1SV19ME403	0	1	1	15	15	30	30	60	2	2	2	2	2	2	4.4	4.4	4.4	4.4	4.4	6	21	6	7	51	21.7	79.3	53.3	27.4	59.1	22
1SV19ME404	3	2	5	13	15	28	30	60	2	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	9	21	6	8	49	34.1	78.5	51.7	30.4	56.6	21
																									60.7	78.7	55.9	55.8	56.7	

STAFF

HOD

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

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

SUBJECT	ANALOG CIRCUITS	SUBJECT CODE	18EC42

COURSE OUTCOME

CO1. Analyze the different types of signals and systems.

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

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

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

CO5. • Explain the signals and systems

PROGRAM OUTCOMES

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

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

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

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

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

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

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

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

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

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

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

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

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	PROF. PRADEEPKUMAR S S											
BRANCH	ECE			ACADEMIC YEAR			2019-20					
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
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	74.74%	1.15	1.72	1.58	0.48								1.15
CO2	70.42%	1.25	1.87	1.58	0.48								1.25
CO3	70.71%	0.534	1.068	1.58	0.48								0.534
CO4	71.16%	1.76	1.76	1.58	0.48								1.17
CO5	70.42%	1.08	1.626	1.58	0.48								1.626
VERAGE		1.154	1.608	1.58	0.48								1.146
												FINAL ATTAINMENT LEVEL	1.195

COURSE INSTRUCTOR

HOD
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			18EC42		2019-2020 EVEN			SEM :IV SEM		PROF. SANDHYA R				ANALOG CIRCUITS											
						T1	T2		T3	ASSIGNMENT 10/5					SEE	SEE MARKS					Final					
Roll No	USN	Name	T1(40)	T2(40)	T3(40)	CO1-40	CO2-20	CO3-20	CO4-20	CO5-20	CO1-2	CO2-2	CO3-2	CO4-2	CO5-2	50	CO1-10	CO2-10	CO3-10	CO4-10	CO5-10	CO1-32	CO2-32	CO3-32	CO4-32	CO5-32	TOTAL AVERAGE
1	1SV17EC012	RAVISH KUMAR	18	18	18	18	9	9	9	9	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	24.2	13.2	13.2	13.2	13.2	17
2	1SV18EC002	ANUSHA G S	33	33	33	33	16	17	17	16	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	39.2	22.2	23.2	23.2	22.2	21.8
3	1SV18EC004	BASAVARAJ	40	40	40	40	20	20	20	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	46.2	26.2	26.2	26.2	26.2	28.1
4	1SV18EC005	BHARATHI M	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	20.2	20.2	20.2	20.2	26.6
5	1SV18EC006	BRUNDA K	35	35	35	35	18	19	20	18	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	41.2	24.2	25.2	26.2	24.2	25.6
6	1SV18EC007	CHANDANA D	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	20.2	20.2	20.2	20.2	25.6
7	1SV18EC008	DEVIKA L	35	35	35	35	17	18	19	17	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	41.2	23.2	24.2	25.2	23.2	25.2
8	1SV18EC009	GURANNAGOUDA	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	20.2	20.2	20.2	20.2	25.2
9	1SV18EC010	KETANRAJ S	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	20.2	20.2	20.2	20.2	25
10	1SV18EC011	LATHASHREE K R	37	37	37	37	18	19	20	18	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	43.2	24.2	25.2	26.2	24.2	25.8
11	1SV18EC012	MOUNISHGOWDA	40	40	40	40	20	20	20	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	46.2	26.2	26.2	26.2	26.2	29.4
12	1SV18EC013	MOUNIKA Y	39	39	39	39	20	19	19	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	45.2	26.2	25.2	25.2	26.2	29.9
13	1SV18EC014	NAGESH D R	35	35	35	35	17	18	18	17	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	41.2	23.2	24.2	24.2	23.2	28.4
14	1SV18EC016	PRASHANTH M	40	40	40	40	20	20	20	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	46.2	26.2	26.2	26.2	26.2	28.7
15	1SV18EC018	RACHANA S R	29	29	29	29	15	14	14	15	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	35.2	21.2	20.2	20.2	21.2	26.9
16	1SV18EC019	SADAF NAZ	37	37	37	37	19	18	18	19	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	43.2	25.2	24.2	24.2	25.2	28
17	1SV18EC020	SAMEER BICHAGATTI	32	32	32	32	16	16	16	16	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	38.2	22.2	22.2	22.2	22.2	26.9
18	1SV18EC021	SHIRISHA R T	34	34	34	34	17	17	17	17	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	40.2	23.2	23.2	23.2	23.2	26
19	1SV18EC022	SIDRAM	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	20.2	20.2	20.2	20.2	24.8
20	1SV18EC023	SRINIVAS C	34	34	34	34	17	17	17	17	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	40.2	23.2	23.2	23.2	23.2	24.8
21	1SV18EC024	YASHASWINI K Y	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	20.2	20.2	20.2	20.2	24.8
																						38.8667	22.5333	22.6286	22.7714	22.5333	
																						74.74%	70.42%	70.71%	71.16%	70.42%	

Subject Co-Ordinator

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

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SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

SUBJECT	CONTROL SYSTEMS	SUBJECT CODE	18EC43

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 specification s for first an d 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 s stability of a system in the frequency domain u sing 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. NAYANA MS				
BRANCH	ECE	ACADEMIC YEAR	2019-20		
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	PO
CO1	78.24%	1.56	2.34	0.78	0.78								1.5
CO2	73.04%	1.46	2.19	0.73	0.73								1.2
CO3	73.47%	0.73	2.19	0.73	0.73								0.7
CO4	74.12%	2.22	2.22	0.74	0.74								1.4
CO5	74.12%	1.48	2.22	0.74	0.74								2.2
AVERAGE		1.49	2.23	0.74	0.74								1.4
												FINAL ATTAINMENT LEVEL	1.3

COURSE INSTRUCTOR

HOD
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			18EC43		2019-2020 EVEN				SEM /IV SEM		PROF. NAYANA H S control system															
						T1		T2		T3	ASSIGNMENT 10/5					SEE	SEE MARKS					Final					
Sl.No.	USN	Name	T1(40)	T2(40)	T3(40)	CO1-40	CO2-20	CO3-20	CO4-20	CO5-20	CO1-2	CO2-2	CO3-2	CO4-2	CO5-2	50	CO1-10	CO2-10	CO3-10	CO4-10	CO5-10	CO1-32	CO2-32	CO3-32	CO4-32	CO5-32	TOTAL 40/50/20
1	1SV17EC443	RAVISH KUMAR	32	32	30	32	20	12	20	12	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	33.2	26.2	28.2	26.2	28.2	28.4
2	1SV18EC002	ANISHA C N	28	28	28	28	16	13	16	13	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	23.2	28.2	23.2	28.2	24.2
3	1SV18EC004	BHAVAPRIYA	40	40	40	40	20	20	20	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	46.2	28.2	28.2	28.2	28.2	29.6
4	1SV18EC005	BHARATHI M	23	23	23	23	11	12	11	12	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	29.2	17.2	23.2	17.2	18.2	19.1
5	1SV18EC006	BINDIYA K	32	32	30	32	16	17	16	17	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	38.2	23.2	23.2	23.2	29.2	22.7
6	1SV18EC007	CHANDANA D	26	26	26	26	13	13	13	13	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	18.2	21.2	18.2	23.2	24.2
7	1SV18EC008	DEVIKA L	36	36	36	36	20	16	20	16	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	44.2	26.2	34.2	26.2	34.2	28
8	1SV18EC009	GURANNAGOUDA	28	28	28	28	13	15	13	15	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	19.2	21.2	19.2	21.2	26
9	1SV18EC010	KETAN RAJ S	32	32	32	32	12	20	12	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	33.2	18.2	28.2	19.2	28.2	24.2
10	1SV18EC011	LATHASHREE K R	40	40	40	40	20	20	20	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	46.2	28.2	28.2	28.2	28.2	27.8
11	1SV18EC012	MOUNESHGOWDA	40	40	40	40	20	20	20	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	46.2	28.2	28.2	28.2	28.2	30.2
12	1SV18EC013	MOUNIKA V	40	40	40	40	20	20	20	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	46.2	28.2	28.2	28.2	28.2	30.2
13	1SV18EC014	NAGESH D R	38 *	38	38	38	20	18	20	18	2	2	2	2	* 2	21	4.2	4.2	4.2	4.2	4.2	44.2	28.2	28.2	28.2	28.2	29.6
14	1SV18EC016	PRASHANTH M	38	38	38	38	20	18	20	18	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	44.2	28.2	28.2	28.2	28.2	29
15	1SV18EC018	RACHANA S R	30	30	30	30	15	15	15	15	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	36.2	23.2	23.2	23.2	23.2	26.6
16	1SV18EC019	SADAF NAZ	38	38	38	38	20	18	20	18	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	44.2	28.2	28.2	28.2	28.2	29.6
17	1SV18EC020	SAMEER BICHAGATTI	34	34	34	34	17	17	17	17	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	40.2	23.2	23.2	23.2	23.2	27.8
18	1SV18EC021	SHIFFNA P T	40	40	40	40	20	20	20	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	46.2	28.2	28.2	28.2	28.2	29.6
19	1SV18EC023	SIDRAH	26	26	26	26	13	13	13	13	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	21.2	18.2	21.2	18.2	26.8
20	1SV18EC024	SRINIVAS C	34	34	34	34	18	18	18	18	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	40.2	21.2	23.2	21.2	25.2	24.8
21	1SV18EC034	YASHASWINI K V	30	30	30	30	15	15	15	15	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	36.2	23.2	21.2	23.2	21.2	25.4
																						40.0571	23.1524	23.1088	23.1524	23.1088	
																						71.03%	71.03%	71.03%	71.03%	71.03%	

Subject Co-Ordinator

HOD

HOD
Dept of E&C
SIET, Tumkur-6

PRINCIPAL

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SIET., TUMAKURU.

SHRIDEVI

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

ESTD: 2002

SUBJECT: CALCULUS AND LINEAR ALGEBRA
SUBJECT CODE: 18EC44

COURSE OUTCOMES:

After studying this course, students will be able to:

CO1:Identify and associate Random Variables and Random Processes in Communication events.

CO2:Analyze and model the Random events in typical communication events to extract quantitative statistical parameters.

CO3:Analyze and model typical signal sets in terms of a basis function set of Amplitude, phase and frequency.

CO4:Demonstrate by way of simulation or emulation the ease of analysis employing basis functions, statistical representation

CO5: Analyze Eigen values.

	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
OVERALL MAPPING OF SUBJECT												2.0

MAPPING CORELATION	LOW	MODERATELY	HIGHLY	NO
	1	2	3	0

HOD

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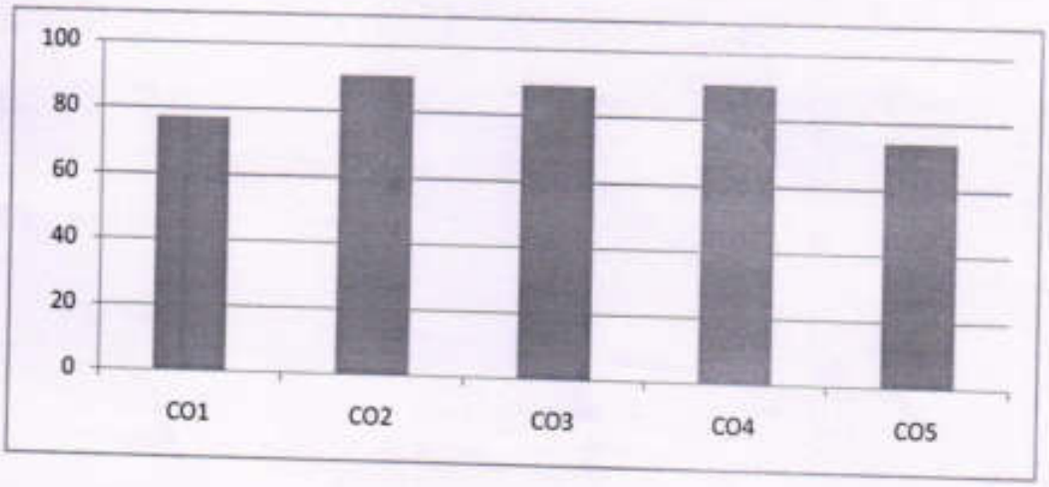
SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY
SIRA ROAD, TUMKUR- 572 106
DEPARTMENT OF MATHEMATICS

(COMMON TO ALL BRANCHES)

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY				
FACULTY NAME	Dr. CHETANA C/Prof. RASHMI S B				
BRANCH	ECE		ACADEMIC YEAR		2019-2020
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	77	1.55	2.32	0	0	0	0	0	0	0	0	0	0.77
CO2	91	1.82	2.73	0	0	0	0	0	0	0	0	0	0.91
CO3	89	1.78	2.67	0	0	0	0	0	0	0	0	0	0.89
CO4	91	1.81	2.72	0	0	0	0	0	0	0	0	0	0.91
CO5	74	1.48	2.22	0	0	0	0	0	0	0	0	0	0.74
AVG	84	2	3	0	0	0	0	0	0	0	0	0	1
												Final attainment level	1.4



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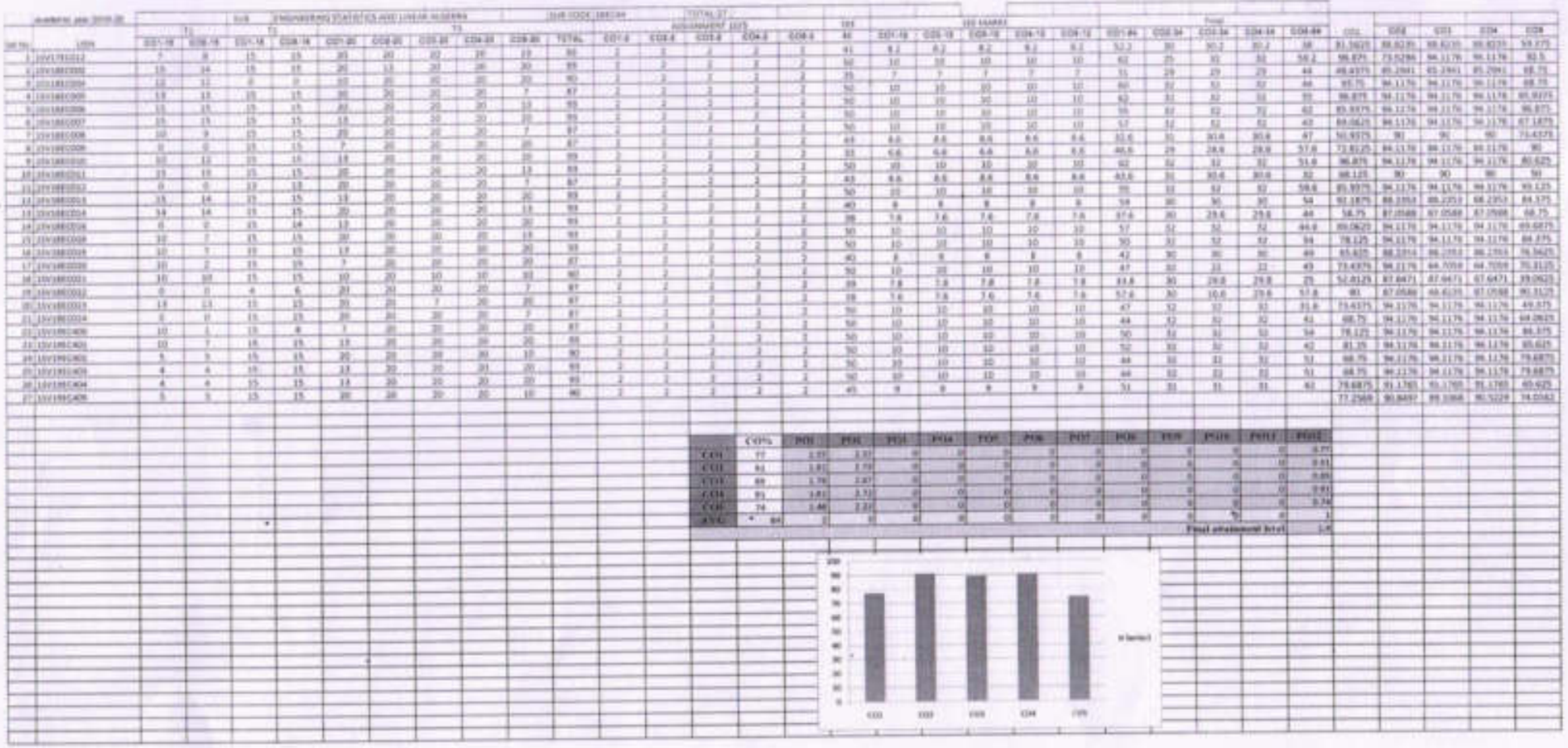

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SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

SUBJECT	S&S	SUBJECT CODE	18EC45

COURSE OUTCOME

CO1. Analyze the different types of signals and systems.

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

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

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

CO5. • Explain the signals and systems

PROGRAM OUTCOMES

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

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

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

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

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

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

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

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

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

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

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

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

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	PROF. PRADEEPKUMAR S S											
BRANCH	ECE			ACADEMIC YEAR			2019-20					
COURSE	B.E	SEMESTER	IV	SECTION	ECE							
SUBJECT	SIGNALS AND SYSTEM			SUBJECT CODE	18EC45							
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	3	1	1								2
CO2	2	3	1	1								2
CO3	1	2	1	1								1
CO4	3	3	1	1								2
CO5	2	3	1	1								3
AVERAGE	2	2.8	1	1								1.4
OVERALL MAPPING OF SUBJECT												1.72

CO AND PO ATTAINMENT

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

COURSE INSTRUCTOR

HOD

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			18EC45		2019-2020 EVEN				SEM :IV SEM		PROF. PRADEEPKUMAR .S.S						SIGNALS AND SYSTEM											
					T1		T2		T3		ASSESMENT 25/5					SEE	SEE MARKS					Final					TOTAL AVERAGE
Reg No	USN	Name	T1(40)	T2(40)	T3(40)	CO1-40	CO2-20	CO3-20	CO4-20	CO5-20	CO1-2	CO2-2	CO3-2	CO4-2	CO5-2	50	CO1-10	CO2-10	CO3-10	CO4-10	CO5-10	CO1-32	CO2-32	CO3-32	CO4-32	CO5-32	
1	1SV17EC012	KAVISH KUMAR	18	18	18	18	9	9	9	9	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	24.2	15.2	15.2	15.2	15.2	17
2	1SV18EC002	ANUSHA G S	33	32	33	33	16	17	17	16	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	39.2	23.2	23.2	23.2	23.2	21.5
3	1SV18EC004	BASAVARAJ	40	40	40	40	20	20	20	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	46.2	26.2	26.2	26.2	26.2	28.1
4	1SV15EC005	BHARATHI M	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	20.2	20.2	20.2	20.2	24.4
5	1SV18EC006	BRUNDA K	35	35	35	35	18	19	20	18	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	41.2	24.2	25.2	26.2	24.2	25.6
6	1SV18EC007	CHANDANA D	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	20.2	20.2	20.2	20.2	25.6
7	1SV18EC008	DEVIKA L	35	35	35	35	17	18	18	17	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	41.2	23.2	24.2	25.2	23.2	25.2
8	1SV18EC009	GURANNAGOUDA	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	20.2	20.2	20.2	20.2	25.2
9	1SV18EC010	KETANRAJ S	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	20.2	20.2	20.2	20.2	23
10	1SV18EC011	LATHASHREE K R	37	37	37	37	18	19	20	18	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	43.2	24.2	25.2	26.2	24.2	25.8
11	1SV18EC012	MOUNESHGOWDA	40	40	40	40	20	20	20	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	46.2	26.2	26.2	26.2	26.2	29.4
12	1SV18EC013	MOUNIKA Y	39	39	39	39	20	19	19	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	45.2	26.2	25.2	25.2	26.2	29.9
13	1SV18EC014	NAGESH D R	35	35	35	35	17	18	18	17	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	41.2	23.2	24.2	24.2	23.2	28.4
14	1SV18EC016	PRASHANTH M	40	40	40	40	20	20	20	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	46.2	26.2	26.2	26.2	26.2	28.7
15	1SV18EC018	RACHANA S R	29	29	29	29	15	14	14	15	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	35.2	21.2	20.2	20.2	21.2	26.9
16	1SV18EC019	SADAF NAZ	37	37	37	37	19	18	18	19	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	43.2	25.2	24.2	24.2	25.2	26
17	1SV18EC020	SAMEER BICHAGATTI	32	32	32	32	16	16	16	16	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	38.2	22.2	22.2	22.2	22.2	26.9
18	1SV18EC021	SHIRISHA R T	34	34	34	34	17	17	17	17	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	40.2	23.2	23.2	23.2	23.2	26
19	1SV18EC022	SIDRAM	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	20.2	20.2	20.2	20.2	24.8
20	1SV18EC023	SRINIVAS C	34	34	34	34	17	17	17	17	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	40.2	23.2	23.2	23.2	23.2	24.8
21	1SV18EC024	YASHASWINI K Y	28	28	28	28	14	14	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	20.2	20.2	20.2	20.2	24.8
																						38.8667	22.5333	22.6286	22.7714	22.5333	
																						74.79%	70.42%	70.71%	71.16%	70.42%	

Subject Co-Ordinator

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

DEPARTMENT OF ELECTRONICS & COMMUNICATION

SEM: VI ACADEMIC YEAR:2019-2020

SUBJECT	DIGITAL SWITCHING SYSEMS	SUBJECT CODE	17EC654

COURSE OUTCOME

CO1. Describe the electromechanical switching systems and its comparison with the digital switching.

CO2. Determine the telecommunication traffic and its measurements.

CO3. Define the technologies associated with the data switching operations.

CO4. Describe the software aspects of switching systems and its maintenance.

CO5. Describe the electromechanical switching systems and its comparison with the digital switching.

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 modelling 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: 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		2019-2020		
COURSE	B.E	SEMESTER	VI	SECTION	A		
SUBJECT	DIGITAL SWITCHING SYSTEMS			SUBJECT CODE	17EC654		

CO & PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	1										
CO2		1		2								
CO3	1				2							
CO4	2											
CO5	2	1										
AVERAGE	2	1.5		2	2							
OVERALL MAPPING OF SUBJECT												1.87

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	92.88	2.78	0.98										
CO2	93.18		0.93		1.86								
CO3	91.37	0.91				1.82							
CO4	90.08	1.80											
CO5	90.08	1.80	0.90										
AVERAGE		1.82	0.93		1.86	1.82							
FINAL ATTAINMENT LEVEL													1.60

COURSE INSTRUCTOR

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Academic year: 2019-20				SEM: VI			Total strength: 56			16		Subject: Digital switching systems					Subject Code: 17EC654											
2018-19	IA TEST 1(30M)			IA TEST 2(30M)			IA TEST 3(30M)			ASSIGNMENT / QUIZ(20M)					SEE MARKS(50)					Total Cos ATTAINMENT					% of individual CO					SEE 1st
USN	CO1	CO2	TOTAL	CO1	CO2	TOTAL	CO4	CO5	TOTAL	CO1=4	CO2	CO3	CO4	CO5	CO1=10	CO2	CO3	CO4	CO5	CO1=29	CO2=42	CO3=29	CO4=29	CO5=29	CO1	CO2	CO3	CO4	CO5	90M
1SV15EC029	15	15	30	15	15	30	15	14	29	4	4	4	4	4	8.4	8.4	8.4	8.4	8.4	27.4	42.4	27.4	27.4	26.4	94.48275862	96.36363636	94.48275862	94.48275862	91.03448276	42
1SV15EC045	15	15	30	15	15	30	14	15	29	4	4	4	4	4	7	7	7	7	7	28	41	26	25	26	89.65517241	93.18181818	89.65517241	86.20689655	89.65517241	35
1SV17EC001	15	15	30	12	12	24	15	14	29	4	4	4	4	4	8	8	8	8	8	27	39	24	27	26	93.10344828	88.63636364	82.75862069	93.10344828	89.65517241	40
1SV17EC002	15	15	30	14	14	28	15	10	25	4	4	4	4	4	6	6	6	6	6	25	39	24	25	20	86.20689655	88.63636364	82.75862069	86.20689655	68.96551724	30
1SV17EC003	15	15	30	15	15	30	14	15	29	4	4	4	4	4	9	9	9	9	9	28	43	28	27	28	96.55172414	97.72727273	96.55172414	93.10344828	96.55172414	45
1SV17EC004	15	15	30	15	15	30	14	15	29	4	4	4	4	4	9	9	9	9	9	28	43	28	27	28	96.55172414	97.72727273	96.55172414	93.10344828	96.55172414	45
1SV17EC005	13	13	26	14	14	28	13	13	26	4	4	4	4	4	7.6	7.6	7.6	7.6	7.6	24.6	38.6	25.6	24.6	24.6	84.82758621	87.72727273	88.27586207	84.82758621	84.82758621	38
1SV17EC006	15	15	30	15	15	30	13	14	27	4	4	4	4	4	7.8	7.8	7.8	7.8	7.8	26.8	41.8	26.8	24.8	25.8	92.4137931	95	92.4137931	85.51724138	88.96551724	39
1SV17EC007	15	15	30	15	15	30	15	14	29	4	4	4	4	4	9	9	9	9	9	28	43	28	28	27	96.55172414	97.72727273	96.55172414	96.55172414	93.10344828	45
1SV17EC008	13	13	26	15	15	30	13	13	26	4	4	4	4	4	8	8	8	8	8	27	42	27	25	25	93.10344828	95.45454545	93.10344828	86.20689655	86.20689655	40
1SV17EC009	15	15	30	15	15	30	14	15	29	4	4	4	4	4	9.2	9.2	9.2	9.2	9.2	28.2	43.2	28.2	27.2	28.2	97.24137931	98.18181818	97.24137931	93.79310345	97.24137931	46
1SV17EC013	15	15	30	15	15	30	14	15	29	4	4	4	4	4	7.8	7.8	7.8	7.8	7.8	26.8	41.8	26.8	25.8	26.8	92.4137931	95	92.4137931	88.96551724	92.4137931	39
1SV17EC014	15	15	30	15	15	30	14	15	29	4	4	4	4	4	9	9	9	9	9	28	43	28	27	28	96.55172414	97.72727273	96.55172414	93.10344828	96.55172414	45
1SV17EC015	15	15	30	10	15	25	14	15	29	4	4	4	4	4	7.6	7.6	7.6	7.6	7.6	26.6	36.6	26.6	25.6	26.6	91.72413793	83.18181818	91.72413793	88.27586207	91.72413793	38
1SV18EC401	13	15	30	15	15	30	14	15	29	4	4	4	4	4	8	8	8	8	8	27	42	27	28	27	93.10344828	95.45454545	93.10344828	89.65517241	93.10344828	40
1SV18EC402	15	15	30	10	11	21	14	13	27	4	4	4	4	4	7.6	7.6	7.6	7.6	7.6	26.6	36.6	22.6	25.6	24.6	91.72413793	83.18181818	77.93103448	88.27586207	84.82758621	38
																									92.88793103	93.18181818	91.37931034	90.0862069	90.0862069	

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SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

Department of Electronics & Communication Engineering

Course Outcomes and CO-PO Articulation Matrix

2015 Scheme

ACADEMIC YEAR 2019-20

Semester-VIII

Subject: WIRELESS CELLULAR & LTE 4G BROADBAND **NAME FACULTY**: PROF. SANDHYA R	**Subject Code: 15EC81**

Course Outcomes

CO1	Understand the system architecture and the functional standard specified in LTE 4G
CO2	Analyze the role of LTE radio interface protocols and EPS Data convergence protocols to set up, reconfigure and release data and voice from users.
CO3	Demonstrate the UTRAN and EPS handling processes from set up to release including mobility management for a variety of data call scenarios.
CO4	Test and Evaluate the Performance of resource management and packet data processing and transport algorithms.

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
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
AVERAGE		**1.04**	**1.04**	**1.04**	**0.93**	**0.82**					**0.60**		**0.634**
TOTAL ATTAINMENT													**0.87**

SUBJECT INSRTUCTOR

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			15EC81		2019-2020 EVEN				SEM /VIII SEM		PROF. SANDHYA /WIRELESS CELLULAR & LTE 4G BROADBAND																
						T1	T2		T3		ASSIGNMENT 10/5					SEE	SEE MARKS					Final					TOTAL AVERAGE
Roll No.	USN	Name	T1	T2	T3	CO1-15	CO2-7	CO3-8	CO4-7	CO5-8	CO1-1	CO2-1	CO3-1	CO4-1	CO5-1	60	CO1-12	CO2-12	CO3-12	CO4-12	CO5-12	CO1-25	CO2-20	CO3-21	CO4-20	CO5-21	
1	1SV14EC026	RAMYA K	20	21	10	20	15	6	5	5	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	24.2	21.2	12.2	11.2	11.2	16.4
2	1SV14EC029	RASHMIN BEGAM H	12	13	4	12	6	6	2	2	2	2	2	2	2	28	5.2	5.2	5.2	5.2	5.2	19.2	13.2	13.2	9.2	9.2	14.6
3	1SV15EC008	ARUN C G	10	30	30	10	15	15	15	15	2	2	2	2	2	34	6.8	6.8	6.8	6.8	6.8	16.8	23.8	23.8	23.8	23.8	17.8
4	1SV15EC007	BHAVANA N	11	5	24	11	3	2	12	12	2	2	2	2	2	28	5.6	5.6	5.6	5.6	5.6	18.6	10.6	9.6	19.6	19.6	19.2
5	1SV15EC013	GAGANA S K	11	26	16	11	12	14	11	5	2	2	2	2	2	29	5	5	5	5	5	18	19	21	18	12	16.6
6	1SV15EC018	KAVYA S	15	23	14	15	11	12	7	7	2	2	2	2	2	20	4	4	4	4	4	21	17	16	13	13	17
7	1SV15EC027	NOOR AYESHA	14	7	14	14	4	3	7	7	2	2	2	2	2	31	6.2	6.2	6.2	6.2	6.2	22.2	12.2	11.2	15.2	15.2	15.8
8	1SV15EC035	RAGHURAJ G K	14	10	9	14	5	5	4	5	2	2	2	2	2	19	3.8	3.8	3.8	3.8	3.8	19.8	10.8	10.8	9.8	10.8	13.8
9	1SV15EC049	USHA Y M	9	6	2	9	3	3	1	1	2	2	2	2	2	26	5.2	5.2	5.2	5.2	5.2	16.2	10.2	10.2	8.2	8.2	11.5
10	1SV15EC052	VISHWAS S P	9	9	12	9	4	5	11	1	2	2	2	2	2	27	5.4	5.4	5.4	5.4	5.4	16.4	11.4	12.4	18.4	8.4	12
11	1SV16EC402	ANUSHA T P	10	7	7	10	4	3	4	*3	2	2	2	2	2	30	6	6	6	*6	6	18	12	11	12	11	13.1
																						19.491	14.673	13.945	14.4	12.945	
																						50.24%	55.73%	42.31%	58.86%	53.00%	

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

DEPARTMENT OF ELECTRONICS & COMMUNICATION

SEM: VIII ACADEMIC YEAR:2019-2020

SUBJECT	FIBER OPTICS & NETWORKS	SUBJECT CODE	15EC82

COURSE OUTCOME

CO1. Apply the transmission characteristics and losses in optical fiber communication

CO2. Describe the construction and working principle of Optical connectors, multiplexers and amplifiers.

CO3 Analyze the working of Optical Fiber with different modes of Signal propagation

CO4 Illustrate the Optical fiber networks and its standards

CO5. Apply Fiber optics and networks in communications

PROGRAM OUTCOMES

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

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

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

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

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

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

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

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

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

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

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

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

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	Prof.AIJAZ AHAMED SHARIEF											
BRANCH	ECE			ACADEMIC YEAR			2019-2020					
COURSE	B.E	SEMESTER	VIII	SECTION	A							
SUBJECT	FIBER OPTICS & NETWORKS					SUBJECT CODE	15EC82					
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	1		1					2	1		1
CO2	3	3	1	1	1	1	1		2	1		1
CO3	3	2	1	1	1				2	1		1
CO4	3	2	1	2	1				2	1		2
CO5	3	2	2	2	2	1	1		3	1	1	3
AVERAGE	3	2	1.25	1.4	1.25	1	1			1	1	
OVERALL MAPPING OF SUBJECT												1.43

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	76.07	2.28	0.76		0.76					1.52	0.76		0.76
CO2	75.20	2.25	2.25	0.75	0.75	0.75	0.75	0.75		1.50	0.75		0.75
CO3	78.92	2.36	1.57	0.78	0.78	0.78				1.57	0.78		0.78
CO4	77.5	2.32	1.55	0.77	1.55	0.77				1.55	0.77		1.55
CO5	76.36	2.23	1.52	1.52	1.52	1.52	0.76	0.76		2.23	0.76	0.76	2.23
AVERAGE	76.81	2.28	1.53	0.96	1.07	0.95	0.75	0.75		1.67	1.27		1.21
FINAL ATTAINMENT LEVEL													1.24

COURSE INSTRUCTOR

HOD

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Academic year	2019-20			SEM/VIII			Total strength			II		Subject			Fiber optics & Networks					Subject Code	IV[CO]									
SEM/VIII	IA TEST 1(30M)			IA TEST 2(30M)			IA TEST 3(30M)			ASSIGNMENT / QUIZ(40 M)					SEE MARKS(80)						Total Cos ATTAINMENT					% of individual CO				IEE Tot
USN	CO1	CO2	TOTAL	CO2	CO5	TOTAL	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	CO1+CO4	CO2	CO3	CO4	CO5	CO1+12	CO2+47	CO3+12	CO4+12	CO5+12	CO1	CO2	CO3	CO4	CO5	MAX
15V14EC026	8	3	11	15	15	30	15	14	29	1	1	1	1	1	11.2	11.2	11.2	11.2	11.2	20.2	30.2	27.2	27.2	26.2	63.125	64.2553191	85	85	81.875	56
15V14EC029	19	10	29	15	15	30	14	14	28	1	1	1	1	1	8.4	8.4	8.4	8.4	8.4	28.4	34.4	24.4	23.4	23.4	88.75	73.1914894	76.25	73.125	73.125	42
15V15EC005	15	15	30	15	15	30	15	14	29	1	1	1	1	1	8.4	8.4	8.4	8.4	8.4	24.4	39.4	24.4	24.4	23.4	76.25	83.8297872	76.25	76.25	73.125	42
15V15EC007	14	13	27	15	15	30	14	14	28	1	1	1	1	1	10.6	10.6	10.6	10.6	10.6	25.6	39.6	26.6	25.6	25.6	80	84.2553191	83.125	80	80	53
15V15EC018	15	7	22	15	15	30	14	14	28	1	1	1	1	1	6.2	6.2	6.2	6.2	6.2	22.2	29.2	22.2	21.2	21.2	69.375	62.1276596	69.375	66.25	66.25	31
15V15EC018	10	8	18	15	15	30	14	13	27	1	1	1	1	1	10	10	10	10	10	21	34	26	25	24	65.625	72.3404255	81.25	78.125	75	50
15V15EC027	13	14	28	14	14	28	14	13	27	1	1	1	1	1	7	7	7	7	7	21	36	22	22	21	65.625	76.5957447	68.75	68.75	65.625	35
15V15EC035	15	15	30	15	15	30	15	14	29	1	1	1	1	1	9.4	9.4	9.4	9.4	9.4	25.4	40.4	25.4	25.4	24.4	79.375	85.9574468	79.375	79.375	76.25	47
15V15EC049	15	15	30	15	15	30	15	15	30	1	1	1	1	1	7.6	7.6	7.6	7.6	7.6	23.6	38.6	23.6	23.6	23.6	73.75	82.1276596	73.75	73.75	73.75	38
15V15EC052	15	6	21	5	15	20	14	15	29	1	1	1	1	1	10.4	10.4	10.4	10.4	10.4	26.4	22.4	26.4	25.4	26.4	82.5	47.6595745	82.5	79.375	82.5	52
15V16EC402	15	15	30	15	15	30	15	15	30	1	1	1	1	1	13.6	13.6	13.6	13.6	13.6	29.6	44.6	29.6	29.6	29.6	92.5	94.893617	92.5	92.5	92.5	68
																									76.079545	75.2030848	78.920455	77.5	76.363636	

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SIRA ROAD, TUMKUR- 572 106.

Department of Electronics & Communication Engineering

Course Outcomes and CO-PO Articulation Matrix

2015 Scheme

ACADEMIC YEAR 2019-20

Semester-VIII

Subject: RADAR ENGINEERING NAME OF FACULTY: PROF. MADHU B C	**Subject Code: 15EC833**

Course Outcomes

CO1	Appreciate the technologies related to Micro Electro Mechanical Systems.
CO2	Understand design and fabrication processes involved with MEMS devices.
CO3	Analyze the MEMS devices and develop suitable mathematical models
CO4	Know various application areas for MEMS device

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
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
AVERAGE		**1.04**	**1.04**	**1.04**	**0.93**	**0.82**					**0.60**		**0.634**
TOTAL ATTAINMENT													**0.87**

SUBJECT INSTRUCTOR **HOD** **PRINCIPAL**

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			15EC833		2019-2020 EVEN				SEM :VIII SEM		PROF. MADHU B C						BADAR ENGINEERING										
						T1	T2		T3		ASSIGNMENT 10/5					SEE	SEE MARKS					Final					TOTAL AVERAGE
Roll No	USN	Name	T1	T2	T3	CO1-15	CO2-7	CO3-8	CO4-7	CO5-8	CO1-1	CO2-1	CO3-1	CO4-1	CO5-1	60	CO1-12	CO2-12	CO3-12	CO4-12	CO5-12	CO1-28	CO2-20	CO3-21	CO4-20	CO5-21	
1	1SV14EC026	RAMYA K	20	21	10	20	15	6	5	5	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	26.2	21.2	13.2	11.2	11.2	16.4
2	1SV14EC029	RASHMIN BEGA	12	13	4	12	6	6	2	2	2	2	2	2	2	26	5.2	5.2	5.2	5.2	5.2	19.2	13.2	13.2	9.2	9.2	14.8
3	1SV15EC001	ARUN C G	10	30	30	10	15	15	15	15	2	2	2	2	2	34	6.8	6.8	6.8	6.8	6.8	18.8	23.8	23.8	23.8	23.8	17.8
4	1SV15EC007	BHAVANA N	11	5	24	11	3	2	12	12	2	2	2	2	2	28	5.6	5.6	5.6	5.6	5.6	16.6	10.6	9.6	19.6	19.6	19.2
5	1SV15EC013	GAGANA S K	11	26	16	11	12	14	11	5	2	2	2	2	2	25	5	5	5	5	5	18	19	21	18	12	16.6
6	1SV15EC016	KAVYA S	15	23	14	15	11	12	7	7	2	2	2	2	2	20	4	4	4	4	4	21	17	18	13	13	17
7	1SV15EC027	NOOR AYESHA	14	7	14	14	4	3	7	7	2	2	2	2	2	31	6.2	6.2	6.2	6.2	6.2	22.2	12.2	11.2	15.2	15.2	15.8
8	1SV15EC035	RAGHURAJ G K	14	10	9	14	5	5	4	5	2	2	2	2	2	19	3.8	3.8	3.8	3.8	3.8	19.8	10.8	10.8	9.8	10.8	13.8
9	1SV15EC046	USHA Y M	9	6	2	9	3	3	1	1	2	2	2	2	2	26	5.2	5.2	5.2	5.2	5.2	16.2	10.2	10.2	8.2	8.2	11.5
10	1SV15EC052	VISHWAS S P	9	9	12	9	4	5	11	1	2	2	2	2	2	27	5.4	5.4	5.4	5.4	5.4	16.4	11.4	12.4	18.4	8.4	12
11	1SV16EC402	ANUSHA T P	10	7	7	10	4	3	4	3	2	2	2	2	2	30	6	6	6	6	6	18	12	11	12	11	13.1
																						19.49091	14.67273	13.9455	14.4	12.94545	
																						50.24%	55.75%	42.51%	58.86%	53.00%	

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(Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka and Affiliated to Visvesvaraya Technological University, Belagavi)

Department of Electronics & Communication Engineering

Course Outcomes and CO-PO- Articulation Matrix

2018 Scheme
ACADEMIC YEAR 2019-20

Semester-I

Subject: Basic Electronics Prof. Pradeepkumar S S	Subject Code: 18ELN14

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	59%	1.18		0.59									0.59
CO2	57%	1.71	1.71	1.14			1.14						0.57
CO3	61%	1.83	1.83	1.22			1.22						0.57
CO4	62 %	1.86	1.86	1.24			1.24						0.62
CO5	59%	1.77											
AVERAGE		1.67	1.8	1.04			1.2						0.58
TOTAL ATTAINMENT													1.25

Faculty

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Academic year	2023-24			SEM	Un		Test average		AA	Subject	Book Exercises							Subject Code			18CS814			Faculty Prof. Padmashree S.V					
SEM [3]	IA TEST 1 (20M)			IA TEST 2 (20M)			IA TEST 3 (20M)			ASSIGNMENT (QUIZ/MCM)				SEE MARKS(M)						Total CIA ATTAINMENT			% of individual CO					SEE Tot
USN	CO1	CO2	TOT(A)	CO1	CO2	TOT(A)	CO1	TOTAL	CO1	CO2	CO3	CO4	CO5	CO1+CO	CO2+CO	CO3+CO	CO4+CO	CO5+CO	CO6+CO	CO1-2	CO3-4	CO5-6	TOT-A	SEE	CO1	CO2	CO3	CO4	CO5	SEE
1SV17CS012	8	7	15	13	15	30	20	56	3	3	3	3	3	3	8	8	8	8	8	8	15	15	15	45	44.4444	62.96296	83.33333	62.96296	62.96296	60
1SV18CS002	12	14	26	15	15	30	28	56	3	3	3	3	3	3	9.2	9.2	9.2	9.2	9.2	11	23	23	23	91	61.11111	83.33333	80	78.51852	57.70533	58
1SV18CS004	12	12	24	0	0	0	27	54	3	3	3	3	3	3	8.8	8.8	8.8	8.8	8.8	11	7	8	15	30	76.2963	81.85185	71.66667	76.2963	60.51852	53
1SV18CS005	13	12	25	15	15	30	28	52	3	3	3	3	3	3	9.8	9.8	9.8	9.8	9.8	25	27	27	25	53	91.85185	99.25926	98.33333	91.85185	90.66964	89
1SV18CS006	12	12	24	15	15	30	28	56	3	3	3	3	3	3	7.6	7.6	7.6	7.6	7.6	23	23	23	24	93	82.72222	90.27557	98.33333	90.27557	80.22469	87
1SV18CS007	15	13	28	15	15	30	28	56	3	3	3	3	3	3	9.2	9.2	9.2	9.2	9.2	22	22	22	23	90	82.22222	82.22222	80	82.22222	57.70533	58
1SV18CS008	15	14	29	15	15	30	28	52	3	3	3	3	3	3	8.8	8.8	8.8	8.8	8.8	24	23	23	23	90	87.40741	87.40741	71.66667	83.7037	57.01166	55
1SV18CS009	18	19	38	15	15	30	28	52	3	3	3	3	3	3	9.8	9.8	9.8	9.8	9.8	6	21	6	6	47	20.74074	76.2963	66.66667	20.74074	53.78512	38
1SV18CS010	10	9	19	15	15	30	28	52	3	3	3	3	3	3	10.2	10.2	10.2	10.2	10.2	25	27	31	30	94	97.03704	100.7407	101.6667	74.81481	61.14943	61
1SV18CS011	15	15	30	15	15	30	28	56	3	3	3	3	3	3	8	8	8	8	8	23	23	8	15	51	83.18519	83.18519	68.33333	83.18519	59.63964	60
1SV18CS012	18	18	36	12	15	25	28	52	3	3	3	3	3	3	10	10	10	10	10	23	23	12	12	70	85.55556	99.2963	100	88.88889	57.47128	70
1SV18CS013	14	15	29	15	15	30	28	56	3	3	3	3	3	3	7.4	7.4	7.4	7.4	7.4	23	23	9	24	92	80.48889	90.37037	78.33333	90.37037	60.22469	67
1SV18CS014	14	14	28	15	15	30	28	56	3	3	3	3	3	3	9.4	9.4	9.4	9.4	9.4	21	22	7	21	90	79.25926	83.94284	83.88887	79.25926	57.85185	57
1SV18CS015	18	18	36	15	15	30	28	56	3	3	3	3	3	3	8.8	8.8	8.8	8.8	8.8	9	21	6	9	66	33.7037	79.25926	58.33333	33.7037	55.64218	53
1SV18CS016	12	5	17	15	15	30	28	56	3	3	3	3	3	3	8	8	8	8	8	11	15	10	15	51	81.48148	83.59259	83.33333	83.59259	60.51852	60
1SV18CS019	12	5	17	15	15	30	28	52	3	3	3	3	3	3	9.2	9.2	9.2	9.2	9.2	19	23	7	12	66	71.11111	83.22222	80	85.18518	55.4023	55
1SV18CS020	7	5	12	15	15	30	28	56	3	3	3	3	3	3	9.2	9.2	9.2	9.2	9.2	11	21	6	11	49	49.88889	78.51852	51.66667	61.48148	59.77172	53
1SV18CS021	8	11	30	15	15	30	28	56	3	3	3	3	3	3	9.2	9.2	9.2	9.2	9.2	11	21	6	17	47	50.2963	78.51852	51.66667	83.7037	54.25287	53
1SV18CS022	18	18	18	8	8	15	28	52	3	3	3	3	3	3	9.2	9.2	9.2	9.2	9.2	7	13	7	7	27	33.88889	48.88889	80	28.88889	42.75862	46
1SV18CS023	15	8	23	15	15	30	28	56	3	3	3	3	3	3	8.8	8.8	8.8	8.8	8.8	24	24	8	17	73	87.40741	87.40741	71.66667	81.48148	59.51059	63
1SV18CS024	18	18	18	15	15	30	28	52	3	3	3	3	3	3	3.2	3.2	3.2	3.2	3.2	6	19	6	6	43	35.55556	73.11111	35	35.55556	53.95402	53
1SV18EC400	10	2	12	15	15	30	28	52	3	3	3	3	3	3	4.2	4.2	4.2	4.2	4.2	16	21	6	8	43	60	78.51852	51.66667	80.37037	53.05402	53
1SV18EC401	12	5	17	15	15	30	28	56	3	3	3	3	3	3	3.2	3.2	3.2	3.2	3.2	16	19	6	8	47	50	73.11111	85	84.07407	54.25287	53
1SV18EC402	5	5	10	15	15	30	27	54	3	3	3	3	3	3	7.4	7.4	7.4	7.4	7.4	9	19	6	8	46	34.51852	73.85185	58.66667	84.81481	53.53333	53
1SV18EC403	4	4	8	15	15	30	28	56	3	3	3	3	3	3	1	1	1	1	1	7	18	6	7	48	23.62963	64.66667	25	23.62963	52.87356	5
1SV18EC404	5	5	8	15	15	30	28	56	3	3	3	3	3	3	1.8	1.8	1.8	1.8	1.8	7	19	6	8	47	25.18519	69.62963	51.66667	32.59259	55.7931	9
1SV18EC405	5	7	12	18	15	2	27	54	3	3	3	3	3	3	4.2	4.2	4.2	4.2	4.2	9	21	6	12	48	34.07407	78.51852	51.66667	48.88889	55.4023	21
1SV17EC006	15	15	30	15	15	30	30	60	3	3	3	3	3	3	4.2	4.2	4.2	4.2	4.2	21	21	6	21	51	78.51852	78.51852	51.66667	78.51852	59.85057	21
1SV17EC012	15	1	16	15	15	30	28	56	3	3	3	3	3	3	4.2	4.2	4.2	4.2	4.2	21	21	6	7	48	78.51852	78.51852	51.66667	28.88889	53.10345	21
1SV17EC009	15	9	21	15	15	28	27	54	3	3	3	3	3	3	4.2	4.2	4.2	4.2	4.2	21	21	6	12	60	78.51852	78.51852	51.66667	45.18519	41.6092	21
1SV17EC010	15	14	29	14	15	29	30	60	3	3	3	3	3	3	9.2	9.2	9.2	9.2	9.2	24	20	11	25	80	97.03704	97.03704	94.33333	89.33333	89.44828	86
1SV18EC001	15	9	24	11	14	25	29	58	3	3	3	3	3	3	4.2	4.2	4.2	4.2	4.2	21	20	6	10	60	78.51852	74.81481	51.66667	37.77778	53.10345	21
1SV18EC002	11	15	26	15	15	30	30	60	3	3	3	3	3	3	5.2	5.2	5.2	5.2	5.2	16	22	7	22	67	67.40741	82.22222	65	83.22222	60	26
1SV18EC004	2	6	8	15	14	29	29	58	3	3	3	3	3	3	5.8	5.8	5.8	5.8	5.8	10	22	8	8	52	36.2963	80.74074	65	28.88889	59.54023	29
1SV18EC005	5	8	13	15	15	30	30	60	3	3	3	3	3	3	4.2	4.2	4.2	4.2	4.2	11	21	6	14	51	41.48148	78.51852	51.66667	52.59259	58.85057	21
1SV18EC006	3	5	8	15	15	30	28	56	3	3	3	3	3	3	2.8	2.8	2.8	2.8	2.8	10	20	5	10	48	35.55556	73.96296	66.33333	35.55556	54.71264	28
1SV18EC007	10	5	15	15	14	29	30	60	3	3	3	3	3	3	1.8	1.8	1.8	1.8	1.8	14	18	6	9	48	30.37037	65.18519	50	33.85185	55.86207	8
1SV18EC008	12	10	21	15	15	30	22	44	3	3	3	3	3	3	4.2	4.2	4.2	4.2	4.2	17	21	6	16	60	83.7037	78.51852	51.66667	80	49.65517	21
1SV18EC009	3	8	11	15	15	28	30	60	3	3	3	3	3	3	1	1	1	1	1	5	16	6	12	48	18.51852	59.25926	25	44.44444	55.17241	5
1SV18EC400	5	4	9	15	15	30	30	60	3	3	3	3	3	3	8.2	8.2	8.2	8.2	8.2	10	20	5	9	50	37.77778	74.81481	48.33333	34.07407	57.70115	18
1SV18EC401	5	10	15	15	15	30	30	60	3	3	3	3	3	3	1.8	1.8	1.8	1.8	1.8	9	19	6	14	49	32.59259	68.62963	51.66667	51.11111	56.09195	9
1SV18EC402	5	5	10	15	15	30	30	60	3	3	3	3	3	3	4.2	4.2	4.2	4.2	4.2	11	21	6	11	51	41.48148	78.51852	51.66667	41.48148	58.85057	21
1SV18EC403	12	5	17	15	14	29	30	60	3	3	3	3	3	3	2.4	2.4	2.4	2.4	2.4	10	18	6	9	49	30.74074	68.14815	50.66667	34.81481	56.78161	12
1SV18EC404	13	10	23	15	15	30	30	60	3	3	3	3	3	3	1.8	1.8	1.8	1.8	1.8	17	19	6	14	48	62.22222	68.62963	51.66667	51.11111	56.09195	9
1SV18EC405	7	6	13	15	14	29	29	58	3	3	3	3	3	3	2.8	2.8	2.8	2.8	2.8	12	19	5	11	48	43.7037	68.62963	60	60	56.09195	18
1SV17EC009	10	9	19	15	15	30	29	58	3	3	3	3	3	3	1	1	1	1	1	13	18	5	8	47	48.14815	68.88887	25	22.22222	54.02299	5
1SV18EC003	15	13	28	15	15	30	29	56	3	3	3	3	3	3	5.4	5.4	5.4	5.4	5.4	11	21	7	20	90	82.96296	82.96296	91.66667	75.55556	57.93103	27
1SV18EC004	14	4	18	15	15	30	29	58	3	3	3	3	3	3	3.6	3.6	3.6	3.6	3.6	20	21	6	10	90	72.59259	76.2963	66.66667	35.55556	57.01149	18
1SV18EC007	12	10	22	15	15	30	29	58	3	3	3	3	3	3	4.2	4.2	4.2	4.2	4.2	18	21	6	16	66	67.40741	78.51852	51.66667	60	53.10345	21
1SV18EC008	18	10	28	14	15	29	30	60	3	3	3	3	3	3	5.4	5.4	5.4	5.4	5.4	17	21	7	17	91	84.44444	82.96296	91.66667	84.44444	59.08046	27
1SV18EC011	15	15	30	15	15	30	30	60	3	3	3	3	3	3	6	6	6	6	6	24	23	8	15	55	85.18519	85.18519	66.66667	85.18519	60.91954	30
1SV18EC013	15	15	30	15	15	30	30	60	3	3	3	3	3	3	10.2	10.2	10.2	10.2	10.2	27	27	12	27	97	100.7407	100.7407	101.6667	100.7407	65.74713	51
1SV18EC014	15	15	30	15	15	30	30	60	3	3	3	3	3	3	7.4	7.4	7.4	7.4	7.4	24	24	8	24	94	90.37037	90.37037	78.33333	90.37037	62.52874	57
1SV18EC018	15	14	29	6	15	21	29	42	3	3	3	3	3	3	5.4	5.4	5.4	5.4	5.4	22	22	7	21	91	83.96296	82.96296	61.66667	79.25926	56.09195	27
1SV18EC017	15	10	25	14	15	29	30	60	3	3	3	3	3	3	4.2	4.2	4.2	4.2	4.2	21	21	6	16	90	78.51852	78.51852	51.66667	60	57.70115	21
1SV18EC018	15	15	30	15	15	30	30	60	3	3	3	3	3	3	10.2	10.2	10.2	10.2	10.2	27	27	12	27	97	100.7407	100.7407	101.6667	100.7407	65.74713	51
1SV18EC019	15	15	30	15	15	30	30	60	3	3	3	3	3	3	8.8	8.8	8.8	8.8	8.8	24	24	9	24	94	87.40741	87.40741	71.66667	87.40741	61.6092	33
1SV18EC020	15	3	17	15	14	29	30	60	3	3	3	3	3	3	5.8	5.8	5.8	5.8	5.8	23	22	8	10	93	83.7037	80	83.33333	83.33333	68.96552	38
1SV18EC021	15	14	29	15	15	30	30	60	3	3	3	3	3	3	9	9	9	9	9	23	23	7	21	93	81.48148	81.48148	58.33333	77.77778	59.77011	35
1SV18EC022	15	11	26	15	15	30	28	58	3	3	3	3	3	3	4.2	4.2	4.2	4.2	4.2	21	21	6	17	66	78.51852	78.51852	51.66667	63.7037	56.55172	21
1SV18EC023	9	12	18	15	15	30	29	58	3	3	3	3	3	3	5	5	5	5	5	13	22	7	20	91	44.44444	81.48148	58.33333	74.07407	58.62069	29
1SV18EC400	15	15	30	15	15	30	29	58	3	3	3	3	3	3	7	7	7	7	7	24	24	9	24	94	88.88889	88.88889	75	88.88889	60.91954	35
1SV18EC006	15	15	30	15	15	30	30	60	3	3	3	3	3	3	7.2	7.2	7.2	7.2	7.2	24	18	9	24	94	89.62963	75.11111	78.66667	89.62963	62.29885	36
1SV20CV400	7	5	12	15	14	29	30	60	3	3	3	3	3	3	1.8	1.8	1.8	1.8	1.8	11	18	6	9	44	29.25926	65.18519	30	31.85185	55.86207	8
1SV20CV401	3	3	6	15	14	29	21	42	3	3	3	3	3	3	0	0	0	0	0	6	18	3	6	33	18.51852	59.25926	16.66667	14.81481	49.87356	0
1SV20CV402	12	13	25	15	15	30	29	58	3	3	3	3	3	3	5.2	5.2	5.2	5.2	5.2	19	22	7	20	91	71.11111	83.22222	60	74.81481	58.85057	33
1SV20CV403	11	5	16	15	13	28	30	60	3	3	3	3	3	3	3.2	3.2	3.2	3.2	3.2	14	16	3	8	46	53.59259	80	26.66667	69.57037	55.4023	25
1SV20CV404	8	5	13	15	15	30	30	60	3	3	3	3	3	3	6.6	6.6	6.6	6.6	6.6	8	24	9	14	54	31.85185	87.40741	71.66667	53.7037	61.3092	33
1SV20CV405	6	8	14	48	48	48	28	52	3	3	3	3	3	3	3	3	3	3	3	11	5	5	13	51	30.74074	38.51852	41.66667	38.14815	55.63218	23
1SV20CV406	12	8	15	14	15	29	30	60	3	3	3	3	3	3	1.8	1.8	1.8	1.8	1.8	10	18	4	7	46	33.33333	68.88887	30	24.44444	54.71264	8
1SV20CV407	6	9	15	14	15	29	30	60	3	3	3	3	3	3	2.8	2.8	2.8	2.8	2.8	8	20	5	11	49	31.85185	73.62963	50.33333	32.59259	59.88507	13
1SV20CV408	3	12	15	15	15	30	30	60	3	3	3	3	3	3	5.4	5.4	5.4	5.4	5.4	8	20	5	17	90	31.11111	75.55556	58.33333	46.66667	59.55172	27
1SV20CV409	10	11	21	9	15	24	30	60	3	3	3	3	3	3	4.4	4.4	4.4	4.4	4.4	16	21	6	17	45	80.74074	79.25926	53.33333	54.44444	52.18391	22
1SV20CV410	13	12	25	15	15	30	30	60	3	3	3	3	3	3	3	3	3	3	3	18	20	5	17	90	88.88887	74.07407	41.66667	62.96296	57.47126	25
1SV20CV411	3	5	8	15	15	30	28	56	3	3	3	3	3	3	1.8	1.8	1.8	1.8	1.8	7	15	4	9	47	25.18519	68.62963	51.66667	32.59259	55.7931	9
1SV20CV412	2	5	7	14	15	29	30	60	3	3	3	3	3	3	3	3	3	3	3	7	20	5	8	48	25.63394	74.07407	41.66667	29.62963	56.32184	25

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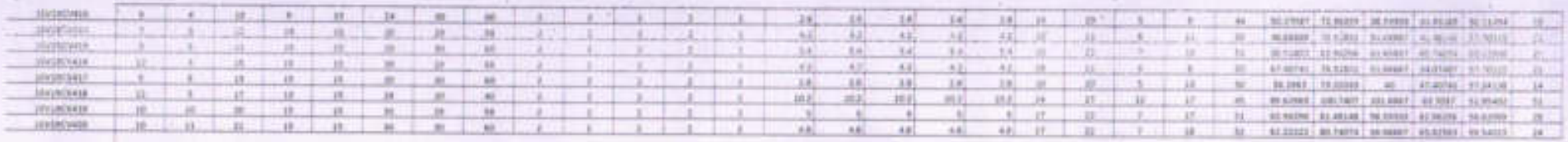

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SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY, TUMKUR

DEPARTMENT OF ECE

CO-PO ATTAINMENT

ACADEMIC YEAR

2019-20

EVEN SEM

FIRST YEAR

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(Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka and Affiliated to Visvesvaraya Technological University, Belagavi)

Department of Electronics & Communication Engineering

Course Outcomes and CO-PO- Articulation Matrix

2018 Scheme
ACADEMIC YEAR 2019-20

Semester-II

Subject: Basic Electronics Prof. Pradeepkumar S S	Subject Code: 18ELN24

Course Outcomes

CO1	Operation of Semiconductor diode, Zener diode and Special purpose diodes and their applications.
CO2	Biasing circuits for transistor (BJT) as an amplifier.
CO3	Study of linear Op-amps and its applications.
CO4	Logic circuits and their optimization.
CO5	Principles of Transducers and Communication.

CO-PO Mapping

COs	Pos											
	1	2	3	4	5	6	7	8	9	10	11	12
CO1	2		1									1
CO2	3	3	2		2							1
CO3	3	3	2		2							1
CO4	3	3	2		2							1
CO5	3											
Average	2.8	3	1.75		2							1

ATTAINMENT TABLE

COs	AVG	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	61%	1.22		0.61									0.61
CO2	79%	2.37	2.37	1.58			1.58						0.79
CO3	56%	1.68	1.68	1.12			1.12						0.56
CO4	56 %	1.68	1.68	1.12			1.12						0.56
CO5	57%	1.71											
AVERAGE		1.73	1.91	1.10			1.27						0.63
TOTAL ATTAINMENT													1.32

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USN	CO1	CO4	TOTAL	CO5	CO2	TOTAL	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	CO1=1	CO2=1	CO3=1	CO4=1	CO5=1	CO1=2	CO2=2	CO3=	CO4=2	CO5=0	CO1	CO2	CO3	CO4	CO5	MM	
1SV17CS011	13	12	27	15	15	30	29	58	2	2	2	2	2	1.8	1.8	1.8	1.8	1.8	19	19	4	14	48	69.63	69.63	31.67	58.52	54.94	9	1.8
1SV17CS015	5	5	10	15	15	30	29	58	2	2	2	2	2	0.4	0.4	0.4	0.4	0.4	7	17	2	7	43	27.41	84.44	20	27.41	52.18	2	0.4
1SV17CS018	0	0	0	15	15	30	29	58	2	2	2	2	2	3.6	3.6	3.6	3.6	3.6	6	21	6	6	50	20.74	76.3	46.67	20.74	37.01	18	3.6
1SV17CS024	5	5	10	15	15	30	29	58	2	2	2	2	2	2	2	2	2	2	9	15	4	9	48	33.33	70.37	33.33	33.33	55.17	10	2
1SV17CS027	12	10	22	15	15	30	29	58	2	2	2	2	2	2	2	2	2	2	16	19	4	14	48	59.26	70.37	33.33	51.85	55.17	10	2
1SV17CS034	0	0	0	10	15	25	29	58	2	2	2	2	2	0.6	0.6	0.6	0.6	0.6	3	18	3	3	41	9.63	65.19	21.67	9.63	47.82	3	0.6
1SV18CS001	0	0	0	15	15	30	29	58	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	6	21	6	6	50	22.96	78.52	51.67	22.96	37.7	21	4.2
1SV18CS003	13	13	27	15	15	30	30	60	2	2	2	2	2	6	6	6	6	6	23	23	8	20	53	85.19	85.19	66.67	74.07	60.92	30	6
1SV18CS004	13	5	18	15	15	30	29	58	2	2	2	2	2	4.8	4.8	4.8	4.8	4.8	20	22	7	12	51	73.33	80.74	56.67	43.7	58.39	24	4.8
1SV18CS005	15	12	27	15	15	30	30	60	2	2	2	2	2	11.2	11.2	11.2	11.2	11.2	28	28	13	25	58	104.4	104.4	110	93.33	68.9	56	11.2
1SV18CS007	15	14	29	15	15	30	30	60	2	2	2	2	2	6.4	6.4	6.4	6.4	6.4	23	23	8	22	53	86.67	86.67	70	82.96	61.38	32	6.4
1SV18CS008	0	0	0	15	15	30	29	58	2	2	2	2	2	4.6	4.6	4.6	4.6	4.6	7	22	7	7	51	24.44	80	55	24.44	58.16	23	4.6
1SV18CS011	13	10	23	15	15	30	29	58	2	2	2	2	2	7.4	7.4	7.4	7.4	7.4	22	24	9	19	53	82.96	90.37	78.33	71.85	61.38	37	7.4
1SV18CS014	15	15	30	15	15	30	30	60	2	2	2	2	2	7.2	7.2	7.2	7.2	7.2	24	24	9	24	54	89.63	89.63	76.67	89.63	62.3	36	7.2
1SV18CS018	15	10	25	15	15	30	29	58	2	2	2	2	2	3.6	3.6	3.6	3.6	3.6	21	21	6	16	50	76.3	76.3	46.67	57.78	57.01	18	3.6
1SV18CS017	15	15	30	15	15	30	29	58	2	2	2	2	2	7	7	7	7	7	24	24	9	24	55	88.89	88.89	75	88.89	60.92	35	7
1SV18CS019	13	15	28	15	15	30	29	58	2	2	2	2	2	6.4	6.4	6.4	6.4	6.4	21	23	8	23	52	79.26	86.67	70	86.67	60.23	32	6.4
1SV18CS021	15	16	30	15	15	30	30	60	2	2	2	2	2	6.2	6.2	6.2	6.2	6.2	23	23	8	23	53	85.93	85.93	68.33	85.93	61.15	31	6.2
1SV18CS022	0	0	0	15	15	30	29	58	2	2	2	2	2	5	5	5	5	5	7	22	7	7	51	25.93	81.48	58.33	25.93	58.62	29	5
1SV18CS025	0	0	0	15	15	30	29	58	2	2	2	2	2	6.4	6.4	6.4	6.4	6.4	8	23	8	8	52	31.11	86.67	70	31.11	60.23	32	6.4
1SV18CS024	15	15	30	15	15	30	30	60	2	2	2	2	2	5	5	5	5	5	22	22	7	22	52	81.48	81.48	58.33	81.48	59.77	25	5
1SV18CS025	10	14	24	15	15	30	29	58	2	2	2	2	2	4.8	4.8	4.8	4.8	4.8	17	22	7	21	51	62.22	80.74	56.67	77.04	58.39	24	4.8
1SV18CS026	16	10	16	15	15	30	29	58	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	22	21	6	16	50	82.22	78.52	51.67	60	57.7	21	4.2
1SV18CS028	5	13	18	15	15	30	29	58	2	2	2	2	2	0.6	0.6	0.6	0.6	0.6	8	18	3	16	47	28.15	65.19	21.67	57.78	53.56	3	0.6
1SV18CS029	15	15	30	15	15	30	29	58	2	2	2	2	2	6.6	6.6	6.6	6.6	6.6	24	24	9	24	53	87.41	87.41	71.67	87.41	60.46	33	6.6
1SV18CS030	0	0	0	15	14	29	27	54	2	2	2	2	2	3	3	3	3	3	5	19	5	5	47	18.52	70.37	41.67	18.52	54.02	15	3
1SV18CS031	10	12	22	15	15	30	29	58	2	2	2	2	2	4.6	4.6	4.6	4.6	4.6	17	22	7	19	51	61.48	80	55	68.89	58.16	23	4.6
1SV18CS032	0	0	0	15	15	30	28	56	2	2	2	2	2	9.4	9.4	9.4	9.4	9.4	11	26	11	11	54	42.22	97.78	95	42.22	62.53	47	9.4
1SV18CS033	18	10	28	15	15	30	29	58	2	2	2	2	2	6.4	6.4	6.4	6.4	6.4	26	23	8	18	52	97.78	86.67	70	68.15	60.23	32	6.4
1SV18CS038	15	15	30	15	15	30	29	58	2	2	2	2	2	5.2	5.2	5.2	5.2	5.2	22	22	7	22	51	82.22	82.22	60	82.22	58.85	26	5.2
1SV18CS039	10	13	23	15	15	30	29	58	2	2	2	2	2	0	0	0	0	0	12	17	2	15	46	44.44	62.96	16.67	55.56	52.87	0	0
1SV18CS042	13	10	23	15	15	30	29	58	2	2	2	2	2	3	3	3	3	3	18	20	5	15	49	66.67	74.07	41.67	55.56	56.32	15	3
1SV18CS043	10	14	24	15	15	30	29	58	2	2	2	2	2	7.6	7.6	7.6	7.6	7.6	20	25	10	24	54	72.59	91.11	80	87.41	61.61	38	7.6
1SV18CS045	0	0	0	15	15	30	29	58	2	2	2	2	2	3.2	3.2	3.2	3.2	3.2	5	20	5	5	49	19.26	74.81	43.33	19.26	56.55	16	3.2
1SV18CS046	13	13	26	15	15	30	29	58	2	2	2	2	2	5.2	5.2	5.2	5.2	5.2	22	22	7	17	51	82.22	82.22	60	63.7	58.85	26	5.2
1SV19CS400	13	15	28	15	15	30	28	56	2	2	2	2	2	3	3	3	3	3	18	20	5	20	48	66.67	74.07	41.67	74.07	55.17	15	3
1SV19CS401	10	10	20	15	15	30	29	58	2	2	2	2	2	4.8	4.8	4.8	4.8	4.8	17	22	7	17	51	62.22	80.74	56.67	62.22	58.39	24	4.8
1SV18ME002	15	15	30	14	15	29	30	60	2	2	2	2	2	7.8	7.8	7.8	7.8	7.8	25	25	10	25	54	91.85	91.85	81.67	91.85	61.84	39	7.8
1SV18ME004	10	15	25	15	15	30	30	60	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	16	21	6	21	51	60	78.52	51.67	78.52	58.85	21	4.2
1SV18ME005	15	5	20	15	15	30	28	56	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	21	21	6	11	49	78.52	78.52	51.67	41.48	56.55	21	4.2
1SV18ME009	15	4	19	15	15	30	30	60	2	2	2	2	2	3	3	3	3	3	20	20	5	9	50	74.07	74.07	41.67	33.33	57.47	15	3
1SV19ME400	15	7	22	13	15	28	30	60	2	2	2	2	2	6.4	6.4	6.4	6.4	6.4	23	23	8	15	51	86.67	86.67	70	57.04	59.08	32	6.4
1SV19ME401	15	13	28	15	15	30	30	60	2	2	2	2	2	7.8	7.8	7.8	7.8	7.8	25	25	10	23	55	91.85	91.85	81.67	84.44	62.99	39	7.8
1SV19ME402	6	5	11	12	15	27	29	58	2	2	2	2	2	1.8	1.8	1.8	1.8	1.8	10	19	4	9	45	36.3	69.63	31.67	32.59	51.49	9	1.8
1SV19ME403	0	1	1	15	15	30	30	60	2	2	2	2	2	4.4	4.4	4.4	4.4	4.4	6	21	6	7	51	23.7	79.26	53.33	27.41	59.08	22	4.4
1SV19ME404	3	2	5	13	15	28	30	60	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	9	21	6	8	49	34.07	78.52	51.67	30.37	56.55	21	4.2

21.62963	28.43875	19.62051	30.14815	20.57646
61	79	56	56	57

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