

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

DEPARTMENT OF ECE

CO-PO ATTAINMENT

ACADEMIC YEAR

2018-19

ODD SEM



SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY
SIRA ROAD, TUMKUR- 572 106
DEPARTMENT OF MATHEMATICS
(COMMON TO ALL BRANCHES)
ACADEMIC YEAR: 2018-2019



SUBJECT: ENGINEERING MATHEMATICS -III

SUBJECT CODE: 17MAT31/15MAT31

COURSE OUTCOMES:

- CO1: 1. Know the use of periodic signals and Fourier series to analyze circuits and system communications.
- CO2: Explain the general linear system theory for continuous-time signals and digital signal processing using the Fourier Transform and z-transform.
- CO3: . Employ appropriate numerical methods to solve algebraic and transcendental equations.
- CO4. Apply Green's Theorem, Divergence Theorem and Stokes' theorem in various applications in the field of electro-magnetic and gravitational fields and fluid flow problems.
- CO5 : Determine the extremals of functionals and solve the simple problems of the calculus of variations.

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

MAPPING CORRELATION	LOW	MODERATELY	HIGHLY	NO
	1	2	3	0

SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY, TUMKUR-06

(An ISO 9001-2008 Certified Institution)

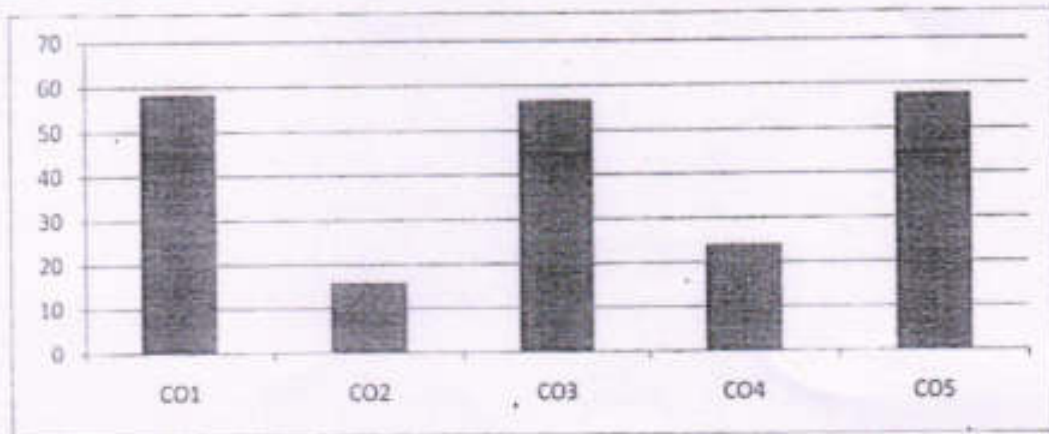
DEPARTMENT OF MATHEMATICS



COLLEGE		SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY			
FACULTY NAME		Dr. CHETANA C/Prof. RASHMI S B			
BRANCH		ECE/EEE/CSE/CVE/ISE/ME	ACADEMIC YEAR		2018-19
COURSE	B.E	SEMESTER		III	SECTION
SUBJECT		ENGINEERING MATHEMATICS -III		SUBJECT CODE	17MAT31

CO & PO MAPPING

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	58	1.17	1.75	0	0	0	0	0	0	0	0	0	0.58
CO2	16	0.32	0.48	0	0	0	0	0	0	0	0	0	0.16
CO3	57	1.14	1.71	0	0	0	0	0	0	0	0	0	0.57
CO4	24	0.48	0.72	0	0	0	0	0	0	0	0	0	0.24
CO5	58	1.16	1.73	0	0	0	0	0	0	0	0	0	0.58
AVG	43	1	1	0	0	0	0	0	0	0	0	0	0
Final attainment level													1.33



[Signature]
Staff in-charge

[Signature]
HOD

[Signature]
Principal

[Signature]
PRINCIPAL
SIET, TUMAKURU.

Nandana Sanyal

PRINCIPAL
SLET, TUMAKURU.

S. No	Roll No	TUM	S	Semester	COURSE	TEST I				TEST II				ASSIGNMENTS (100 MARKS)				EX-MARKS				TOTAL OBTAINMENT						TOTAL PERCENTAGE					
						18 TEST (40%)		22 TEST (40%)		15 TEST (40%)		ASSIGNMENTS (100 MARKS)		EX-MARKS		1st		2nd		3rd		4th		5th		6th							
						AT	CT	TOTAL	AT	CT	TOTAL	AT	CT	TOTAL	AT	CT	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th					
25V17E001	33	15	30	15	15	30	15	15	30	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	50.2	6.2	23.2	6.2	36.2	25.1	14.1	39.1	21.4	62.1				
25V17E002	30	4	34	3	10	13	4	10	14	2	2	2	2	2	3.4	3.4	3.4	3.4	3.4	28.4	5.4	9.4	5.4	28.4	18.1	12.1	30.1	18.6	44.1				
25V17E003	30	14	24	15	10	25	10	15	25	2	2	2	2	2	8.6	8.6	8.6	8.6	8.6	50.6	10.6	24.6	10.6	30.6	15.8	24.8	34.8	18.8	60.8				
25V17E004	30	11	21	10	10	20	7	10	21	2	2	2	2	2	7	7	7	7	7	30	8	20	8	28	16.1	20.1	29.1	11.0	62.1				
25V17E005	30	10	20	10	10	20	10	9	19	2	2	2	2	2	4.6	4.6	4.6	4.6	4.6	35.6	6.6	16.6	6.6	28.6	10.3	15.0	37.2	22.8	60.5				
25V17E006	30	14	24	10	15	25	10	15	25	2	2	2	2	2	7.6	7.6	7.6	7.6	7.6	44.6	9.6	23.6	9.6	34.6	15.8	23.8	33.8	13.1	78.8				
25V17E007	30	14	24	10	11	21	10	14	24	2	2	2	2	2	6.6	6.6	6.6	6.6	6.6	42.6	8.6	22.6	8.6	31.6	22.2	19.5	41.7	29.7	71.8				
25V17E008	11	10	21	17	10	27	11	10	21	2	2	2	2	2	3	3	3	3	3	3	38	5	15	5	27	14.4	11.4	31.7	17.2	62.4			
25V17E009	14	14	28	14	11	25	14	14	28	2	2	2	2	2	10.2	10.2	10.2	10.2	10.2	54.2	12.2	28.2	12.2	40.2	19.9	27.7	40.3	42.1	89.1				
25V17E010	8	10	18	7	10	17	8	10	18	2	2	2	2	2	5	5	5	5	5	35	7	17	7	25	14.2	15.8	58.6	24.1	56.8				
25V17E011	10	9	19	10	10	20	10	9	19	2	2	2	2	2	4.4	4.4	4.4	4.4	4.4	33.4	6.4	15.4	6.4	21.4	13.2	14.5	33.1	22.1	71.4				
25V17E012	14	13	27	13	13	26	14	13	27	2	2	2	2	2	5	5	5	5	5	47	7	20	7	28	14.7	15.9	49.0	28.1	77.1				
25V17E013	10	10	20	8	10	18	10	10	20	2	2	2	2	2	5.6	5.6	5.6	5.6	5.6	36.6	7.6	17.6	7.6	25.6	17.0	17.0	34.0	26.2	62.2				
25V17E014	30	9	39	10	10	20	10	10	20	2	2	2	2	2	2.8	2.8	2.8	2.8	2.8	34.8	4.8	11.8	4.8	16.8	10.0	10.9	27.6	16.6	56.6				
25V17E015	8	10	18	7	15	22	7	15	22	2	2	2	2	2	6	6	6	6	6	33	8	18	8	26	15.9	18.2	42.1	27.6	59.1				
25V17E016	13	13	26	13	13	26	13	13	26	2	2	2	2	2	4.6	4.6	4.6	4.6	4.6	42.6	6.6	19.6	6.6	26.6	22.2	15.0	37.6	22.8	78.6				
25V17E017	14	10	24	14	10	24	14	10	24	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	34.2	6.2	16.2	6.2	22.2	14.9	14.1	29.0	21.4	66.4				
25V17E018	10	4	14	10	4	14	10	4	14	2	2	2	2	2	1.8	1.8	1.8	1.8	1.8	26.8	1.8	7.8	1.8	17.8	4.4	8.4	26.9	13.1	40.5				
25V17E019	30	10	20	10	10	20	9	10	19	2	2	2	2	2	4.6	4.6	4.6	4.6	4.6	36.6	6.6	16.6	6.6	23.6	12.0	15.0	27.0	22.8	58.2				
25V17E020	15	15	30	15	15	30	15	15	30	2	2	2	2	2	10.6	10.6	10.6	10.6	10.6	57.6	12.6	27.6	12.6	40.6	17.6	28.6	45.6	43.4	96.8				
25V17E021	14	13	27	13	13	26	14	14	28	2	2	2	2	2	9.2	9.2	9.2	9.2	9.2	52.2	12.2	24.2	12.2	36.2	28.5	25.5	54.0	38.6	84.5				
25V17E022	15	15	30	15	15	30	15	15	30	2	2	2	2	2	10.6	10.6	10.6	10.6	10.6	57.6	12.6	27.6	12.6	40.6	17.6	28.6	45.6	43.4	96.8				
25V17E023	10	7	17	10	6	16	10	7	17	2	2	2	2	2	4.7	4.7	4.7	4.7	4.7	33.7	6.7	13.7	6.7	20.7	16.3	14.5	30.8	21.4	50.5				
25V17E024	10	8	18	10	7	17	10	8	18	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	34.2	6.2	14.2	6.2	20.2	14.0	14.2	28.2	21.4	52.2				
25V17E025	3	10	13	2	10	12	3	10	13	2	2	2	2	2	2.2	2.2	2.2	2.2	2.2	19.2	4.2	14.2	4.2	17.2	12.5	9.5	22.0	14.5	39.1				
25V17E026	10	10	20	10	11	21	10	11	21	2	2	2	2	2	4.4	4.4	4.4	4.4	4.4	37.4	6.4	16.4	6.4	23.4	14.5	14.5	29.0	22.1	62.3				
25V17E027	13	10	23	14	10	24	14	10	24	2	2	2	2	2	6.6	6.6	6.6	6.6	6.6	45.6	8.6	18.6	8.6	27.6	17.3	19.5	36.8	29.7	76.1				
25V17E028	10	6	16	10	7	17	10	7	17	2	2	2	2	2	3	3	3	3	3	32	5	11	5	16	14.2	13.4	27.6	17.2	50.0				
25V17E029	15	15	30	15	15	30	15	15	30	2	2	2	2	2	3.6	3.6	3.6	3.6	3.6	30.6	5.6	10.6	5.6	16.6	15.8	12.7	31.0	19.3	50.9				
25V17E030	10	6	16	10	7	17	10	7	17	2	2	2	2	2	3	3	3	3	3	32	5	11	5	16	14.2	13.4	27.6	17.2	50.0				
25V17E031	10	10	20	11	10	21	11	10	21	2	2	2	2	2	2.8	2.8	2.8	2.8	2.8	35.8	4.8	14.8	4.8	19.8	10.7	10.9	21.6	18.8	58.6				
25V17E032	10	4	14	10	8	18	10	8	18	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	34.2	6.2	16.2	6.2	22.2	12.9	14.1	27.0	21.4	50.5				
25V17E033	1	11	12	11	11	22	11	10	21	2	2	2	2	2	3.2	3.2	3.2	3.2	3.2	37.2	5.2	16.2	5.2	21.2	11.1	11.8	22.9	17.9	61.8				
25V17E034	10	3	13	10	3	13	10	3	13	2	2	2	2	2	5.4	5.4	5.4	5.4	5.4	29.4	7.4	10.4	7.4	20.4	15.8	16.8	32.6	25.1	60.4				
25V17E035	3	1	4	1	1	2	1	0	1	2	2	2	2	2	3.2	3.2	3.2	3.2	3.2	27.2	5.2	12.2	5.2	17.2	12.2	11.8	24.0	17.9	46.4				
25V17E036	3	1	4	1	1	2	0	1	1	2	2	2	2	2	5.8	5.8	5.8	5.8	5.8	30.8	7.8	8.8	7.8	16.8	18.1	17.7	35.8	26.9	70.0				
25V17E037	2	1	3	1	2	3	1	0	1	2	2	2	2	2	1.4	1.4	1.4	1.4	1.4	6.4	3.4	4.4	3.4	6.4	10.8	7.7	18.5	11.7	34.5				
25V17E038	13	13	26	15	10	25	15	11	26	2	2	2	2	2	5.6	5.6	5.6	5.6	5.6	46.6	7.6	16.6	7.6	24.6	19.0	17.3	36.3	26.2	74.1				
25V17E039	8	10	18	7	10	17	8	10	18	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	31.2	6.2	16.2	6.2	22.2	14.2	14.2	28.4	21.4	55.0				
25V17E040	12	11	23	10	11	21	11	11	22	2	2	2	2	2	5.6	5.6	5.6	5.6	5.6	35.6	7.6	18.6	7.6	26.6	17.1	17.3	34.4	26.2	67.3				
25V17E041	5	5	10	3	6	9	5	5	10	2	2	2	2	2	6.4	6.4	6.4	6.4	6.4	21.4	8.4	13.4	8.4	19.4	16.3	19.1	35.4	29.0	74.1				
25V17E042	5	5	10	6	3	9	5	5	10	2	2	2	2	2	3.4	3.4	3.4	3.4	3.4	21.4	5.4	10.4	5.4	15.4	16.3	12.3	28.6	18.6	50.5				
25V17E043	11	10	21	12	10	22	13	10	23	2	2	2	2	2	1.4	1.4	1.4	1.4	1.4	38.4	3.4	13.4	3.4	16.4	15.1	7.7	46.2	11.7	60.0				
25V17E044	13	13	26	14	13	27	14	13	27	2	2	2	2	2	6	6	6	6	6	48	8	21	8	29	21.4	18.2	39.6	27.6	79.5				

Principals Signature

PRINCIPAL
SIET, TUMAKURU.

1SV17M0215	3	8	8	4	4	8	3	4	2	2	2	2	2	8	8	3	8	0	23	13	16	10	17	38.0	22.7	55.2	58.5	28.6		
1SV17M0216	3	5	5	4	4	8	6	3	2	2	2	2	2	0.8	3.8	2.9	4.8	0.8	12.8	7.8	8.8	2.8	12.8	21.7	6.4	30.1	9.7	26.1		
1SV17M0217	1	10	11	5	5	10	1	10	11	2	2	2	2	2	2	3	2	3	2	1	29	5	14	5	9	32.2	6.8	44.8	10.2	20.5
1SV17M0218	10	2	12	10	1	11	10	2	12	2	2	2	2	2	2.8	1.8	2.7	2.8	2.8	28.8	4.8	6.8	4.8	15.8	45.4	10.9	21.4	108	16.8	
1SV17M0219	2	10	12	5	5	10	6	6	12	2	2	2	2	2	3	0	0	0	0	35	2	12	2	13	25.4	4.3	41.4	6.9	29.3	
1SV17M0220	10	4	14	10	4	14	10	3	14	2	2	2	2	2	2.4	3.4	2.4	2.4	2.4	27.4	4.4	8.4	8.4	18.4	46.4	10.0	29.0	35.7	41.8	
1SV17M0221	2	6	8	3	6	9	4	6	8	2	2	2	2	2	3.8	2.8	1.8	1.8	1.8	18.8	1.8	9.8	1.8	13.8	21.8	8.8	23.8	13.1	31.4	
1SV17M0222	6	3	8	4	4	8	3	8	2	2	2	2	2	1.8	6	1.6	1.6	1.6	16.6	1.6	6.6	3.6	13.6	28.1	8.2	22.8	12.4	30.5		
1SV17M0223	6	3	8	4	4	8	3	8	2	2	2	2	2	2.2	2.2	2.2	2.2	2.2	22.2	2.2	7.2	4.2	11.2	34.2	9.5	24.8	14.5	25.3		
1SV17M0224	15	15	30	15	15	30	15	15	30	2	2	2	2	2	9.8	9.8	9.8	9.8	9.8	58.8	11.8	28.8	11.8	41.8	96.1	26.8	52.4	40.7	56.0	
1SV17M0225	5	5	10	5	5	10	5	4	9	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	22.2	6.2	11.2	8.2	16.2	34.2	10.1	28.6	21.4	30.8	
1SV17M0226	6	5	11	5	5	10	1	10	11	2	2	2	2	2	1.6	1.6	1.6	1.6	1.6	16.6	1.6	8.6	3.6	9.6	41.7	8.2	29.7	12.4	21.8	
1SV17M0227	5	14	29	14	14	28	14	15	29	2	2	2	2	2	1.8	1.8	1.8	1.8	1.8	17.8	1.8	17.8	3.8	11.8	81.0	8.6	41.4	13.1	27.3	
1SV17M0228	4	15	29	14	15	29	14	14	28	2	2	2	2	2	9.2	5.2	9.2	5.2	9.2	53.2	11.2	26.2	11.2	40.2	90.2	25.5	90.3	38.6	31.4	
1SV17M0229	9	9	18	10	9	18	10	9	19	2	2	2	2	2	5	5	5	5	5	25	1	16	2	26	54.1	15.9	55.2	24.1	54.1	
1SV17M0230	10	10	20	9	10	19	10	10	20	2	2	2	2	2	6	6	6	6	6	37	8	38	8	28	62.7	18.2	62.1	27.6	53.6	
1SV17M0231	14	14	28	14	14	28	14	13	27	2	2	2	2	2	10.4	10.4	10.4	10.4	10.4	53.4	12.4	26.4	12.4	40.4	90.5	28.7	91.0	42.8	91.8	
1SV17M0232	10	15	25	14	10	24	10	15	25	2	2	2	2	2	8.6	8.6	8.6	8.6	8.6	48.6	10.6	25.6	10.6	30.6	84.1	24.3	88.1	36.6	69.5	
1SV17M0233	4	4	8	6	3	9	4	3	9	2	2	2	2	2	3	3	3	3	3	18	5	9	5	14	30.5	11.4	31.0	17.2	31.8	
1SV17M0234	15	14	28	14	14	28	14	15	29	2	2	2	2	2	2	2	2	2	2	7	5.8	9	23	9	37	89.8	20.5	79.1	31.0	84.1
1SV17M0235	10	4	14	10	4	14	10	3	14	2	2	2	2	2	3.2	3.2	3.2	3.2	3.2	16.2	3.2	9.2	5.2	19.2	47.8	11.8	31.7	17.9	43.6	
1SV17M0236	14	10	24	14	10	24	13	10	24	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	24.2	6.2	16.2	6.2	29.2	74.9	14.1	55.9	21.4	66.8	
1SV17M0237	4	5	11	2	10	12	10	2	12	2	2	2	2	2	1	1	1	1	1	13	2	8	2	23	22.0	6.8	27.6	10.3	52.3	
1SV17M0238	15	15	30	14	15	29	15	15	30	2	2	2	2	2	9.1	9.1	9.1	9.1	9.1	51.1	11.1	26.1	11.1	41.1	93.8	25.9	90.1	38.6	93.6	
1SV17M0239	15	14	28	14	15	29	14	14	28	2	2	2	2	2	9.2	9.2	9.2	9.2	9.2	54.2	11.2	25.2	11.2	40.2	91.9	25.3	88.9	38.6	91.4	
1SV17M0240	11	10	21	11	11	22	13	10	23	2	2	2	2	2	5.4	5.4	5.4	5.4	5.4	31.4	7.4	17.4	7.4	31.4	70.3	16.8	60.0	25.5	71.4	
1SV17M0241	4	4	8	6	3	9	4	3	9	2	2	2	2	2	0.4	0.4	0.4	0.4	0.4	2.4	2.4	2.4	2.4	11.4	26.1	5.3	22.1	8.1	25.9	
1SV17M0242	11	15	26	15	10	25	13	13	26	2	2	2	2	2	8.6	8.6	8.6	8.6	8.6	49.6	10.6	25.6	10.6	35.6	84.1	24.1	88.1	36.6	76.4	
1SV17M0243	11	13	27	14	13	27	13	13	26	2	2	2	2	2	6	6	6	6	6	49	8	21	8	34	83.1	18.2	72.4	27.6	77.3	
1SV17M0244	13	14	24	10	13	23	12	12	24	2	2	2	2	2	4.6	4.6	4.6	4.6	4.6	38.6	6.6	20.6	6.6	31.6	65.4	15.0	71.0	22.8	71.8	
1SV17M0245	11	11	22	10	11	21	10	13	23	2	2	2	2	2	7.6	7.6	7.6	7.6	7.6	43.6	9.6	20.6	9.6	32.6	73.9	21.8	71.0	33.1	34.1	
1SV17M0246	14	15	29	14	14	28	15	14	29	2	2	2	2	2	10.6	10.6	10.6	10.6	10.6	54.6	12.6	27.6	12.6	41.6	92.5	28.6	95.2	43.4	84.5	
1SV17M0247	14	13	27	14	13	27	13	13	26	2	2	2	2	2	7.6	7.6	7.6	7.6	7.6	50.6	9.6	22.6	9.6	35.6	85.8	21.8	77.9	33.1	80.9	
1SV17M0248	5	6	11	6	6	12	6	6	12	2	2	2	2	2	0	0	0	0	0	19	2	8	2	14	32.2	4.5	27.6	6.9	31.8	
1SV17M0249	14	15	29	14	14	28	15	14	29	2	2	2	2	2	9.4	9.4	9.4	9.4	9.4	51.4	11.4	26.4	11.4	40.4	90.5	25.9	91.0	39.3	91.8	
1SV17M0250	11	12	23	11	11	22	11	12	23	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	40.2	6.2	18.2	6.2	28.2	68.1	14.1	62.9	21.4	64.1	
1SV17M0251	13	13	26	10	15	25	13	13	26	2	2	2	2	2	8.8	8.8	8.8	8.8	8.8	48.8	10.8	23.8	10.8	38.8	79.3	24.5	82.1	17.2	88.2	
1SV17M0252	10	11	21	10	10	20	11	10	21	2	2	2	2	2	4.6	4.6	4.6	4.6	4.6	36.6	6.6	17.6	6.6	27.6	62.0	15.0	60.7	22.8	62.7	
1SV17M0253	10	13	23	11	11	22	10	13	23	2	2	2	2	2	7.2	7.2	7.2	7.2	7.2	43.2	9.2	23.2	9.2	30.2	73.2	20.9	76.6	11.7	68.6	
1SV17M0254	9	6	9	4	4	8	3	6	9	2	2	2	2	2	3.6	3.6	3.6	3.6	3.6	18.6	5.6	11.6	5.6	12.6	31.5	12.7	40.0	19.3	28.6	
1SV17M0255	10	6	16	10	5	15	10	6	15	2	2	2	2	2	0	0	0	0	0	28	2	8	2	17	47.5	4.5	27.6	6.9	38.6	
1SV17M0256	6	10	16	2	10	17	8	10	17	2	2	2	2	2	6.8	6.8	6.8	6.8	6.8	33.8	8.8	28.8	8.8	26.8	57.3	20.0	64.8	30.3	60.9	
1SV17M0257	10	6	16	10	5	15	10	6	15	2	2	2	2	2	2.4	2.4	2.4	2.4	2.4	20.4	4.4	10.4	4.4	19.4	51.5	10.0	35.9	15.2	44.1	
1SV17M0258	13	10	21	10	10	20	11	10	21	2	2	2	2	2	5.2	5.2	5.2	5.2	5.2	38.2	7.2	17.2	7.2	28.2	64.7	16.4	59.1	24.8	64.1	
1SV17M0259	15	11	21	10	10	20	10	11	21	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	37.2	6.2	17.2	6.2	26.2	63.2	14.1	59.3	21.4	59.5	
1SV17M0260	12	12	24	11	11	22	12	12	24	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	38.2	6.2	18.2	6.2	27.2	64.7	14.1	62.8	21.4	61.8	
1SV17M0261	10	10	20	9	10	19	10	10	20	2	2	2	2	2	5.6	5.6	5.6	5.6	5.6	36.6	7.6	17.6	7.6	27.6	62.0	17.6	60.7	26.2	62.7	
1SV17M0262	10	13	23	10	12	22	10	13	23	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	39.2	6.2	19.2	6.2	28.2	66.4	14.1	66.2	21.4	64.1	
1SV17M0263	6	10	16	10	5	15	10	6	16	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	28.2	6.2	16.2	6.2	21.2	47.8	14.1	35.9	21.4	48.2	
1SV17M0264	10	10	20	9	10	19	10	10	20	2	2	2	2	2	4.6	4.6	4.6	4.6	4.6	35.6	6.6	16.6	6.6	26.6	60.3	15.0	57.2	22.8	60.5	
1SV17M0265	14	14	28	13	14	27	14	14	28	2	2	2	2	2	5.2	5.2	5.2	5.2	5.2	48.2	7.2	21.2	7.2	35.2	81.7	16.4	73.1	24.8	80.0	
1SV17M0266	11	11	22	11	10	21	11	11	22	2	2	2	2	2	5.6	5.6	5.6	5.6	5.6	40.6	7.6	18.6	7.6	28.6	68.8	17.3	64.1	26.2	65.0	
1SV17M0267	4	10	14	6	7	13	7	7	14	2	2	2	2	2	6.6	6.6	6.6	6.6	6.6											



DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

SUBJECT	ELECTRONICS INSTRUMENTATION	SUBJECT CODE	17EC32
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COURSE OUTCOME

Course Outcomes: After studying this course, students will be able to:

- CO1: Describe instrument measurement errors and calculate them.
- CO2: Describe the operation of Ammeters, Voltmeters, Multimeters and develop circuits for multirange Ammeters and Voltmeters.
- CO3: Describe functional concepts and operation of Digital voltmeters and instruments to measure voltage, frequency, time period, phase difference of signals, rotation speed, capacitance and pH of solutions.
- CO4: Describe functional concepts and operation of various Analog measuring instruments to measure field Strength, impedance, stroboscopic speed, in/out of phase, Q of coils, insulation resistance.
- CO5: Describe and discuss functioning and types of Oscilloscopes, Signal generators and Transducers.

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. Madhu B.C											
BRANCH	ECE			ACADEMIC YEAR				2018-19				
COURSE	B.E	SEMESTER			III	SECTION			ECE			
SUBJECT	ELECTRONICS INSTRUMENTATION					SUBJECT CODE			17EC32			
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	2	1	1								2
CO2	1	3	1	2								1
CO3	1	2	1	1								1
CO4	2	3	2	1								1
CO5	2	2	1	1								2
AVERAGE	1.6	2.4	1.2	1.2								2.2
OVERALL MAPPING OF SUBJECT												1.4

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	49.1954	0.98	0.98	0.49	0.49								0.98
CO2	49.60055	0.49	1.48	0.49	0.99								0.49
CO3	47.83699	0.47	0.95	0.47	0.47								0.47
CO4	48.25496	0.96	1.45	0.96	0.48								0.48
CO5	48.04598	0.96	0.96	0.48	0.48								0.96
AVERAGE		0.77	1.16	0.58	0.58								0.67
FINAL ATTAINMENT LEVEL													0.75

COURSE INSTRUCTOR

HOD
Dept of E&C
SIET, Tumkur-6

PRINCIPAL
SIET, Tumkur-6



DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

SUBJECT	AE	SUBJECT CODE	17EC33
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COURSE OUTCOME

After studying this course, students will be able to:

- CO1: Describe the working principle and characteristics of BJT, FET, Single stage, cascaded and feedback amplifiers.
- CO2: Describe the Phase shift, Wien bridge, tuned and crystal oscillators using BJT/FET/UJT.
- CO3: Calculate the AC gain and impedance for BJT using r_e and h parameters models for CE and CC configuration.
- CO4: Determine the performance characteristics and parameters of BJT and FET amplifier using small signal model.
- CO5: Determine the parameters which affect the low frequency and high frequency responses of BJT and FET amplifiers and draw the characteristics.
- CO6: Evaluate the efficiency of Class A and Class B power amplifiers and voltage regulators.

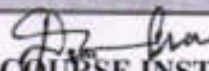
PROGRAM OUTCOMES

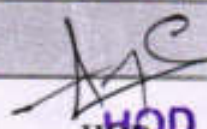
- PO1 Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.
- PO2 Problem analysis: Identify, formulate, research literature, and analyze complex engineering 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.
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- PO8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- PO9 Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- PO10 Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.
- PO11 Project management and finance: An ability to use the modern engineering tools, techniques, skills and management principles to do work as a member and leader in a team, to manage projects in multidisciplinary environments.
- PO12 Life-long learning: A recognition of the need for, and an ability to engage in, to resolve contemporary issues and acquire lifelong learning.

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	Mrs. Prabitha D K											
BRANCH	ECE			ACADEMIC YEAR				2018-19				
COURSE	B.E	SEMESTER			III	SECTION			ECE			
SUBJECT	AE					SUBJECT CODE			17EC33			
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	1	1	2	1								
CO2	1	2	1	1								
CO3	2	3	1	1								
CO4	3	2	1	2								
CO5	2	1	1	1								
CO6	2	1	3	1								
AVERAGE	1.8	1.6	1.5	1.1								
OVERALL MAPPING OF SUBJECT												1.5

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	47.04284	0.47	0.47	0.94	0.47								
CO2	46.29477	0.46	0.92	0.46	0.46								
CO3	46.31139	0.92	1.38	0.46	0.46								
CO4	44.84848	1.34	0.89	0.44	0.89								
CO5	44.84848	0.89	0.44	0.44	0.44								
CO6	47.77429	0.89	0.44	0.44	0.44								
AVERAGE		0.82	0.75	0.53	0.53								
FINAL ATTAINMENT LEVEL													2.23


COURSE INSTRUCTOR


HOD
Dept of E&C
SIET Tumkur-6


PRINCIPAL
PRINCIPAL
SIET, TUMAKURU

Roll No.	USN	Name	SEM I (30)			SEM II (30)			ASSIGNMENT TESTS						SEE	SEE MARKS					TOTAL AVERAGE							
			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	60	CO1-12	CO2-12	CO3-12		CO4-12	CO5-12	CO1-29	CO2-29	CO3-29	CO4-29	CO5-29
1	DEVTEC001	RITHIK KUMAR C	21	24	14	13	9	13	11	10	4	2	2	2	2	2	30	6	6	6	6	6	17	30	18	18	12	18.3
2	DEVTEC045	RIJATHA S R	28	26	25	15	13	15	11	15	10	2	2	2	2	2	27	7.4	7.4	7.4	7.4	7.4	22.6	37.4	20.4	24.4	18.4	23
3	DEVTEC017	ARFA FATHIMA	17	30	13	11	8	15	18	7	6	2	2	2	2	2	30	6	6	6	6	6	14	25	20	15	14	21.5
4	DEVTEC010	ABIRWIN V.	11	22	4	9	3	15	8	0	4	2	2	2	2	2	22	4.4	4.4	4.4	4.4	4.4	5.4	24.4	14.4	6.4	10.4	16
5	DEVTEC040	DANIEL S	29	30	27	15	15	15	15	15	12	2	2	2	2	2	36	7.8	7.8	7.8	7.8	7.8	24.8	38.8	24.8	24.8	21.8	26.1
6	DEVTEC036	GEETHA M P	27	27	27	12	14	15	12	12	15	2	2	2	2	2	37	7.4	7.4	7.4	7.4	7.4	23.4	38.4	21.4	21.4	24.4	26.5
7	DEVTEC049	DITHENDRA H	23	18	15	12	13	13	9	9	6	2	2	2	2	2	29	5.9	5.9	5.9	5.9	5.9	20.9	31.9	13.9	13.9	16.9	22.8
8	DEVTEC044	METAI HIRSHADI	20	24	22	10	10	15	11	13	6	2	2	2	2	2	32	6.4	6.4	6.4	6.4	6.4	18.4	31.4	19.4	21.4	17.4	20.7
9	DEVTEC007	NEHA NAWAZ	27	30	26	14	13	15	15	13	15	2	2	2	2	2	36	7.6	7.6	7.6	7.6	7.6	22.6	37.6	24.6	22.6	22.6	23.8
10	DEVTEC048	NEHA H	21	18	11	11	10	10	8	2	6	2	2	2	2	2	27	5.4	5.4	5.4	5.4	5.4	17.4	27.4	15.4	8.4	16.4	21.8
11	DEVTEC034	NEELATHA NAWAZ	28	24	20	15	13	12	9	15	15	2	2	2	2	2	35	7.5	7.5	7.5	7.5	7.5	22.5	37.5	18.5	16.5	24.5	21.4
12	DEVTEC021	RAKESH K L	18	16	12	11	7	10	6	6	6	2	2	2	2	2	28	5	5	5	5	5	14	24	11	13	13	20.5
13	DEVTEC043	REKHA K N	20	16	21	13	7	10	9	15	8	2	2	2	2	2	30	6	6	6	6	6	15	25	16	21	18	17
14	DEVTEC038	SARANYA G P	20	16	11	11	6	8	10	8	5	2	2	2	2	2	27	5.4	5.4	5.4	5.4	5.4	16.4	25.4	17.4	13.4	12.4	17.8
15	DEVTEC042	SAYBEDUNNHA	13	21	18	5	6	14	7	9	9	2	2	2	2	2	26	5.6	5.6	5.6	5.6	5.6	15.6	25.6	14.6	16.6	16.6	17.8
16	DEVTEC030	TEJASWEE D	14	16	13	8	6	15	3	5	6	2	2	2	2	2	25	5	5	5	5	5	13	25	10	12	15	16.9
17	DEVTEC041	DIVYASHREE H	21	22	18	12	9	13	9	9	10	2	2	2	2	2	31	6.2	6.2	6.2	6.2	6.2	17.2	30.2	17.2	16.2	18.2	17.5
18	DEVTEC040	HEMA K P	25	14	24	11	14	14	10	12	12	2	2	2	2	2	35	7	7	7	7	7	25	37	19	21	21	22
19	DEVTEC040	LOKESHA G H	24	27	21	11	13	12	15	15	9	2	2	2	2	2	35	7	7	7	7	7	22	34	24	24	18	24.3
																							18.36842	31.47968	18.31051	17.84211	17.36842	

D. S. Manj
COURSE INSTRUCTOR

HOC
HOC
Dept of E&C
SIET, Tumkur-6

PRINCIPAL

45.59% 45.59% 45.17% 45.28% 45.29%

Principal
PRINCIPAL
SIET, TUMAKURUP

**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

SUBJECT	DIGITAL ELECTRONICS	SUBJECT CODE	17EC34
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COURSE OUTCOME

After studying this course, students will be able to:

- CO1: Develop simplified switching equation using Karnaugh Maps and Quine-McClusky techniques.
- CO2: Explain the operation of decoders, encoders, multiplexers, demultiplexers, adders, subtractors and comparators.
- CO3: Explain the working of Latches and Flip Flops (SR, D, T and JK).
- CO4: Design Synchronous/Asynchronous Counters and Shift registers using Flip Flops.
- CO5: Develop Mealy/Moore Models and state diagrams for the given clocked sequential circuits.
- CO6: Apply the knowledge gained in the design of Counters and Registers.

PROGRAM OUTCOMES

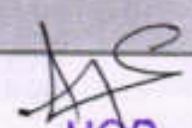
- P01** Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.
- P02** Problem analysis: Identify, formulate, research literature, and analyze complex engineering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

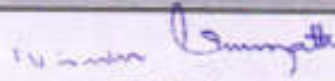
COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	Mr. Madhu B.C											
BRANCH	ECE			ACADEMIC YEAR				2018-19				
COURSE	B.E	SEMESTER			III	SECTION			ECE			
SUBJECT	DIGITAL ELECTRONICS					SUBJECT CODE			17EC34			
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	1	1	1									
CO2	1	3	2									
CO3	3	3	2									
CO4	3	1	2									
CO5	2	2	1									
CO6	3	2	1									
AVERAGE	2.16	2	1.5									
OVERALL MAPPING OF SUBJECT												1.88

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	48.52665	0.48	0.48	0.48									
CO2	51.2259	0.51	1.53	1.02									
CO3	47.16823	1.41	1.41	0.94									
CO4	49.98955	1.49	0.49	0.99									
CO5	49.98955	1	1	0.49									
CO6	49.98955	1.49	0.99	0.49									
AVERAGE		1.06	0.98	0.73									
FINAL ATTAINMENT LEVEL													0.92


COURSE INSTRUCTOR


HOD
Dept of E&C
SLET Tumkur-6


PRINCIPAL
SLET, Tumkur-6

**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

SUBJECT	NETWORK ANALYSIS	SUBJECT CODE	17EC35
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COURSE OUTCOME

After studying this course, students will be able to:

- CO1: Determine currents and voltages using source transformation/ source shifting/mesh/ nodal analysis and reduce given network using star-delta transformation/source transformation/ source shifting.
- CO2: Solve network problems by applying Superposition/ Reciprocity/ Thevenin's/Norton's/ Maximum Power Transfer/ Millman's Network Theorems and electrical laws to reduce circuit complexities and to arrive at feasible solutions.
- CO3: Calculate current and voltages for the given circuit under transient conditions.
- CO4: Apply Laplace transform to solve the given network.
- CO5: Evaluate for RLC elements/ frequency response related parameters like resonant frequency, quality factor, half power frequencies, voltage across inductor and capacitor, current through the RLC elements, in resonant circuits
- CO6: Solve the given network using specified two port network parameter like Z or Y or T or h.

PROGRAM OUTCOMES

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

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	Mrs. Haripriya R											
BRANCH	ECE			ACADEMIC YEAR				2018-19				
COURSE	B.E	SEMESTER		III	SECTION			ECE				
SUBJECT	NETWORK ANALYSIS					SUBJECT CODE			17EC35			
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	1	-	1	1	2							
CO2	1	1	1	3	2							
CO3	2	1	1	2	1							
CO4	2	2	1	1	2							
CO5	1	1	2	3	2							
CO6	2	1	1	2	2							
AVERAGE	1.6	1	1.16	2	1.83							
OVERALL MAPPING OF SUBJECT												1.51

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	48.81923	0.48	-	0.48	0.48	0.98							
CO2	50.48209	0.50	0.50	0.50	1.51	1							
CO3	48.81923	0.97	0.48	0.48	0.97	0.48							
CO4	49.65517	0.99	0.99	0.49	0.49	0.99							
CO5	49.65517	0.49	0.49	0.99	1.48	0.99							
CO6	48.92372	0.97	0.48	0.48	0.97	0.97							
AVERAGE		0.73	0.58	0.57	0.98	0.90							
FINAL ATTAINMENT LEVEL													0.75


COURSE INSTRUCTOR


HOD
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PRINCIPAL
SIET, TUMAKURU

**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

SUBJECT	ENGINEERING ELECTROMAGNETICS	SUBJECT CODE	17EC36
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COURSE OUTCOME

After studying this course, students will be able to:

- CO1: Evaluate problems on electric field due to point, linear, volume charges by applying conventional methods or by Gauss law.
- CO2: Determine potential and energy with respect to point charge and capacitance using Laplace equation.
- CO3: Calculate magnetic field, force, and potential energy with respect to magnetic materials.
- CO4: Apply Maxwell's equation for time varying fields, EM waves in free space and conductors.
- CO5: Evaluate power associated with EM waves using Poynting theorem.

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. Harish B											
BRANCH	ECE			ACADEMIC YEAR				2018-19				
COURSE	B.E	SEMESTER			III	SECTION			ECE			
SUBJECT	ENGINEERING ELECTROMAGNETICS						SUBJECT CODE		17EC36			
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	3	1	2								
CO2	2	2	1	2								
CO3	2	3	2	2								
CO4	1	2	1	2								
CO5	1	1	2	1								
AVERAGE	1.6	2.2	1.4	1.8								
OVERALL MAPPING OF SUBJECT												1.75

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	49.59248	0.99	1.48	0.49	0.99								
CO2	49.93113	0.99	0.99	0.49	0.99								
CO3	49.1745	0.98	1.47	0.98	0.98								
CO4	49.279	0.49	0.98	0.49	0.98								
CO5	49.279	0.49	0.49	0.98	0.49								
AVERAGE		0.78	1.08	0.68	0.88								
FINAL ATTAINMENT LEVEL													0.85


COURSE INSTRUCTOR


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SIET, Tumkur-6


PRINCIPAL
PRINCIPAL

Roll No.	USN	Name	2018-2019-000																									TOTAL AVERAGE
			SEM III SEM					PROF. HARISH S					SUB: EVOE ELECTROMAGNETICS					SEE MARKS					Final					
			T1	T2	T3	T4	T5	CO1-1S	CO2-1S	CO3-1S	CO4-1S	CO5-1S	CO1-2	CO2-2	CO3-2	CO4-2	CO5-2	60	CO1-12	CO2-12	CO3-12	CO4-12	CO5-12	CO1-2S	CO2-2S	CO3-2S	CO4-2S	
1	18V17EC005	RITHVI K S	21	24	14	18	9	15	11	10	4	2	2	2	2	2	30	8	8	8	8	8	17	30	18	18	11	19.3
2	18V17EC043	NITISHA Y S	28	28	25	18	15	18	11	18	12	2	2	2	2	2	37	7.4	7.4	7.4	7.4	7.4	22.4	37.4	25.4	29.4	19.4	21
3	18V17EC008	APRA KATERINA	17	30	13	11	8	16	16	7	8	2	2	2	2	2	35	8	8	8	8	8	14	29	23	15	14	21.8
4	18V17EC090	ANVISH V	11	23	4	8	3	16	8	0	4	2	2	2	2	2	22	4.4	4.4	4.4	4.4	4.4	9.4	24.4	19.4	8.4	10.4	18
5	18V17EC090	DANIEL S	29	30	27	18	18	18	18	18	12	2	2	2	2	2	39	7.8	7.8	7.8	7.8	7.8	24.8	39.8	24.8	24.8	21.8	20.1
6	18V17EC094	GEETHA M E	27	27	27	13	14	18	10	12	16	2	2	2	2	2	37	7.4	7.4	7.4	7.4	7.4	23.4	36.4	21.4	21.4	24.4	24.5
7	18V17EC040	ITHENDRA H	23	18	18	10	13	13	8	8	8	2	2	2	2	2	28	5.8	5.8	5.8	5.8	5.8	20.8	31.8	13.8	13.8	16.8	22.8
8	18V17EC094	MILTAJ HUSSAIN	20	24	22	10	10	13	11	12	8	2	2	2	2	2	32	6.4	6.4	6.4	6.4	6.4	18.4	31.4	19.4	21.4	17.4	20.7
9	18V17EC097	NIDA NAWAZ	27	30	26	14	13	18	15	13	13	2	2	2	2	2	38	7.6	7.6	7.6	7.6	7.6	22.6	37.6	24.6	22.6	22.6	21.8
10	18V17EC008	NISHA H	21	18	17	11	10	10	8	2	8	2	2	2	2	2	27	5.4	5.4	5.4	5.4	5.4	17.4	27.4	15.4	9.4	16.4	21.8
11	18V17EC008	NISHATHI NAWAZ	28	24	30	18	13	18	9	18	15	2	2	2	2	2	38	7.6	7.6	7.6	7.6	7.6	22.6	37.6	28.6	24.6	21.4	21.4
12	18V17EC043	RAKESH K L	18	18	12	11	7	10	8	6	6	2	2	2	2	2	25	5	5	5	5	5	14	24	13	13	13	20.3
13	18V17EC043	REKHA K N	20	18	21	13	7	10	8	13	8	2	2	2	2	2	30	6	6	6	6	6	15	25	16	21	16	17
14	18V17EC044	SAHANA G G	20	18	11	11	9	8	10	6	3	2	2	2	2	2	27	5.4	5.4	5.4	5.4	5.4	16.4	25.4	17.4	13.4	12.4	17.8
15	18V17EC043	SAVEDHUNNHA	13	21	18	8	8	14	7	8	8	2	2	2	2	2	28	5.8	5.8	5.8	5.8	5.8	15.8	25.8	14.8	16.8	16.8	17.8
16	18V17EC094	TEJASWINI D	14	16	13	8	6	10	3	8	8	2	2	2	2	2	28	5	5	5	5	5	13	26	10	12	15	16.9
17	18V17EC040	DEVYANSHREE D	21	22	18	12	8	13	8	8	10	2	2	2	2	2	31	6.2	6.2	6.2	6.2	6.2	17.2	30.2	17.2	16.2	18.2	17.5
18	18V17EC043	HEMA K P	25	14	24	11	14	14	10	12	12	2	2	2	2	2	35	7	7	7	7	7	23	37	19	21	21	22
19	18V17EC040	LEKSHA C H	24	27	21	11	13	12	15	15	8	2	2	2	2	2	35	7	7	7	7	7	22	34	24	24	18	24.3
																							18.36842	31.47968	18.21053	17.84211	17.36842	

COURSE INSTRUCTOR

AAC
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SIET, Tumkur-6

PRINCIPAL

49.50% 49.83% 49.17% 49.29% 49.29%

N. Srinivas
PRINCIPAL
SIET, TUMAKURU



DEPARTMENT OF ECE

SUBJECT		SUBJECT CODE	15ES51
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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.
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- PO12 Life-long learning: A recognition of the need for, and an ability to engage in, to resolve contemporary issues and acquire lifelong learning.

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	Mrs.Suchitra											
BRANCH	ECE	ACADEMIC YEAR					2018-19					
COURSE	B.E	SEMESTER	V									
SUBJECT	MANAGEMENT AND ENTREPRENEURSHIP DEVELOPMENT						SUBJECT CODE		15ES51			
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1											3	
CO2											3	
CO3								3	2		3	
CO4											3	
CO5											3	
AVERAGE	---	---	---	---	---	---	---	3	2	---	3	
OVERALL MAPPING OF SUBJECT												2.66

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	56.57										1.70		
CO2	58.31										1.75		
CO3	68.53								2.06	1.37	2.06		
CO4	70.32										2.11		
CO5	64.09										1.92		
AVERAGE	63.57								2.06	1.37	1.90		
FINAL ATTAINMENT LEVEL													1.77

Suchitra
FACULTY

AS
HOD

Manjunath
PRINCIPAL
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SIET, Tumkur-6

**5th Semester
Management And Entrepreneurship Development**

AY - 2018-19

SEM: U	IA TEST 1			IA TEST 2			IA TEST 3			Assignment and Seminar					SEE					Total					% of Individual CO				
USN	CO1	CO2	TOTAL	CO3	CO4	TOTAL	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5
	7	8	15	8	7	15	7	8	15	1	1	1	1	1	16	16	16	16	16	24	25	25	31	25					
15V15EC005	5	4	9	8	7	15	6	5	11	1	1	1	1	1	10	10	10	10	10	16	15	19	24	16	66.67	60	76	77.42	64
15V15EC007	6	4	10	8	7	15	6	7	13	1	1	1	1	1	9.8	9.8	9.8	9.8	9.8	17	15	19	24	18	70	59.2	75.2	76.77	71.2
15V15EC013	5	6	11	6	5	11	5	6	11	1	1	1	1	1	9.8	9.8	9.8	9.8	9.8	16	17	17	21	17	65.83	67.2	67.2	67.1	67.2
15V15EC018	2	3	5	8	7	15	6	6	12	1	1	1	1	1	7.4	7.4	7.4	7.4	7.4	10	11	16	21	14	43.33	45.6	65.6	69.03	57.6
15V15EC027	1	5	6	8	7	15	6	5	11	1	1	1	1	1	9.4	9.4	9.4	9.4	9.4	11	15	18	23	15	47.5	61.6	73.6	75.48	61.6
15V15EC035	3	5	8	6	6	12	5	7	12	1	1	1	1	1	9.6	9.6	9.6	9.6	9.6	14	16	17	22	18	56.67	62.4	66.4	69.68	70.4
15V15EC049	6	4	10	5	5	10	5	7	12	1	1	1	1	1	7.8	7.8	7.8	7.8	7.8	15	13	14	19	16	61.67	51.2	55.2	60.65	63.2
15V15EC052	2	6	8	8	7	15	3	6	9	1	1	1	1	1	8.6	8.6	8.6	8.6	8.6	12	16	18	20	16	48.33	62.4	70.4	63.23	62.4
15V16EC402	3	5	8	8	7	15	7	6	13	1	1	1	1	1	7.8	7.8	7.8	7.8	7.8	12	14	17	23	15	49.17	55.2	67.2	73.55	59.2
Total	33	42	75	65	58	123	49	55	104	9	9	9	9	9	80.2	80.2	80.2	80.2	80.2	122.2	131.2	154.2	196.2	144.2	509.2	524.8	616.8	632.9	576.8
No. of students	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
Average	3.667	4.667	8.33333	7.222	6.444	13.6667	5.444	6.111	11.5556	1	1	1	1	1	8.911	8.911	8.911	8.911	8.911	13.58	14.58	17.13	21.8	16.02	56.57	58.31	68.53	70.32	64.09

Sheet


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**Department of Electronics & Communication Engineering****Course Outcomes and CO-PO- Articulation Matrix****2015 Scheme**
ACADEMIC YEAR 2018-19**Semester-V**

Subject: Verilog HDL Prof. Sandhya R						Subject Code: 15EC53						
Course Outcomes												
CO1	Differentiate between Verilog and VHDL descriptions.											
CO2	Learn different Verilog HDL and VHDL constructs.											
CO3	Familiarize the different levels of abstraction in Verilog.											
CO4	Understand Verilog Tasks and Directives.											
CO5	Understand timing and delay Simulation.											
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												

ATTAINMENT TABLE													
COs	AVG	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	65%	0.65	1.3										
CO2	61.23%	0.61	0.61	1.2	0.61	1.2							
CO3	68.94%	1.37	1.37	2.06	2.06	1.37							
CO4	59.82%	1.19	1.19	1.19	1.79	1.79							
CO5	72.10%	1.14	0.72	1.14	0.72	1.14							
AVERAGE		0.99	1.03	1.39	1.29	1.37							
TOTAL ATTAINMENT												1.214	

S. Sandhya R
Course Instructor

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SIET, Tumkur-6

[Signature]
Principal
PRINCIPAL
SIET, TUMKUR

No	Nama	1997-1998		1998-1999		1999-2000		2000-2001		2001-2002		2002-2003		2003-2004		2004-2005		2005-2006		2006-2007		2007-2008		TOTAL ANGKAS 1
		TRIM I	TRIM II	TRIM I	TRIM II	TRIM I	TRIM II	TRIM I	TRIM II	TRIM I	TRIM II	TRIM I	TRIM II	TRIM I	TRIM II	TRIM I	TRIM II	TRIM I	TRIM II	TRIM I	TRIM II	TRIM I	TRIM II	
1	ISV18EC00 SANDA E	28	15	26	14	12	8	7	18	15	1	1	1	1	1	1	1	1	1	1	1	1	1	22.2
2	ISV18EC00 KARDINI BECAM H	20	20	22	14	12	15	5	10	22	1	1	1	1	1	1	1	1	1	1	1	1	1	23.24
3	ISV18EC00 ARUN C O	29	22	30	14	15	15	7	15	15	1	1	1	1	1	1	1	1	1	1	1	1	1	25.34
4	ISV18EC00 BHAYANA N	23	0	20	15	8	0	0	15	15	1	1	1	1	1	1	1	1	1	1	1	1	1	34.2
5	ISV18EC00 GAGANA S K	24	23	25	14	10	15	8	10	15	1	1	1	1	1	1	1	1	1	1	1	1	1	22
6	ISV18EC00 KAVYA S	21	14	30	14	7	8	6	15	15	1	1	1	1	1	1	1	1	1	1	1	1	1	30.4
7	ISV18EC00 MOCHA ATISHA	5	12	20	0	0	7	8	15	15	1	1	1	1	1	1	1	1	1	1	1	1	1	15.2
8	ISV18EC00 RACHUBAIG K	25	20	30	10	15	10	10	15	15	1	1	1	1	1	1	1	1	1	1	1	1	1	26.8
9	ISV18EC00 USHA Y M	27	14	25	13	14	7	7	10	15	1	1	1	1	1	1	1	1	1	1	1	1	1	22.6
10	ISV18EC00 VISHWAS P	24	11	30	10	14	7	4	15	15	1	1	1	1	1	1	1	1	1	1	1	1	1	15
11	ISV18EC00 ANURSHA T P	24	23	30	14	10	10	13	15	15	1	1	1	1	1	1	1	1	1	1	1	1	1	26

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Surya

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SIET, TUMAKURU.

Department of Electronics & Communication Engineering
Course Outcomes and CO-PO- Articulation Matrix
2015 Scheme
ACADEMIC YEAR 2018-19
Semester-V

Subject: Information Theory & Coding										Subject Code: 15EC54			
Prof. Haripriya R													
Course Outcomes													
CO1	Understand the concept of Entropy, Rate of information and order of the source with reference to dependent and independent source.												
CO2	Study various source encoding algorithms.												
CO3	Model discrete & continuous communication channels.												
CO4	Study various error control coding algorithms.												
CO5	Understand error detecting & correcting Algorithms												
CO-PO Mapping													
COs	Pos												
	1	2	3	4	5	6	7	8	9	10	11	12	
CO1	2	2			1								2
CO2	2	2	1	1	1	1							2
CO3	2	2	2	1	1								1
CO4	1	2	2	2	2	1							2
CO5	1	2	2	2	2	1							2
Average	2.66	2	1.75	1.5	1.4	1							1.8

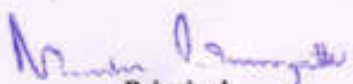
COs	AVG	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	54.82%	1.09	1.09				0.54						1.09
CO2	55.2%	1.1	1.1	0.55	0.55	0.55	0.55						1.1
CO3	50.73%	1.01	1.01	1.01	0.5	0.5							0.5
CO4	49.03%	0.49	0.98	0.98	0.98	0.98	0.49						0.98
CO5	51.30%	0.51	1.02	1.02	1.02	1.02	0.51						1.02
AVERAGE		0.84	1.04	0.89	0.76	0.76	0.52						0.938
TOTAL ATTAINMENT													0.821



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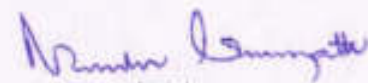


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SR# No	USR	NAME	SEM I		SEM II					SEM III					SEM IV					TOTAL AVERAGE																
			T1(30)		T2(30)		T3(20)		T4(30)			T1(30)		T2(30)		T3(20)		T4(30)																		
			T1(30)	T2(30)	T1(30)	T2(30)	CO1-15	CO2-15	CO3-15	CO4-15	CO5-15	CO1-15	CO2-15	CO3-15	CO4-15	CO5-15	CO1-15	CO2-15	CO3-15		CO4-15	CO5-15														
1	18V18EC08	RAMYA K	21	20	8	12	8	11	8	0	0	1	1	1	1	1	40	8	8	8	8	8	21	20	20	20	20	18.4								
2	18V18EC08	RAHIMU BEGANI H	20	8	25	14	15	11	8	10	20	1	1	1	1	1	41	8.2	8.2	8.2	8.2	8.2	25.2	14.2	8.2	8.2	18.1	11								
3	18V18EC08	ARUN C C	19	21	21	10	9	10	11	18	8	1	1	1	1	1	28	5.8	5.8	5.8	5.8	5.8	18.8	21.8	18.8	17.8	21.8	18.8								
4	18V18EC07	BHAVANA H	7	18	21	2	5	10	8	12	11	1	1	1	1	1	22	4.4	4.4	4.4	4.4	4.4	14	20.4	15.4	11.4	20.4	15								
5	18V18EC01	SADANA S E	15	24	20	18	15	15	8	7	13	1	1	1	1	1	32	8.4	7	7	7	7	22.4	15	17	15	21	21.88								
6	18V18EC04	NAVYAR	16	15	16	14	4	8	7	16	3	1	1	1	1	1	17	3.4	3.4	3.4	3.4	3.4	16.4	15.4	11.4	16.4	14	14.8								
7	18V18EC07	NOOR AYISHA	8	8	26	8	3	3	2	18	10	1	1	1	1	1	18	3.8	3.8	3.8	3.8	3.8	4.8	7.8	6.8	10.8	14.8	10.8								
8	18V18EC08	SACHIN S L D	22	25	23	18	22	18	15	12	13	1	1	1	1	1	45	9.2	9.2	9.2	9.2	9.2	30.2	42.2	25.2	30.2	35.2	38.2								
9	18V18EC07	SHIYA M	22	18	21	12	15	7	12	12	15	1	1	1	1	1	38	7.8	7.8	7.8	7.8	7.8	21.8	25.8	20.8	20.8	23.8	21.4								
10	18V18EC02	VISHWAS P	23	24	8	10	13	12	12	0	0	1	1	1	1	1	13	2.8	2.8	2.8	2.8	2.8	13.8	24.8	15.8	14.8	14.8	15								
11	18V18EC02	ARSHNA T P	27	21	15	14	13	10	11	8	7	1	1	1	1	1	45	8.8	8.8	8.8	8.8	8.8	28.8	31.8	20.8	17.8	18.8	21.2								
																					17.545	25.994	16.236	15.691	16.418	18.171										
																					54.83	55.242	50.739	49.034	51.307	52.23										


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**Department of Electronics & Communication Engineering****Course Outcomes and CO-PO- Articulation Matrix****2015 Scheme****ACADEMIC YEAR 2018-19****Semester-V**

Subject: Digital Signal Processing Prof. Pradeepkumar S S	Subject Code: 15EC52
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Course Outcomes

CO1	Understand the frequency domain sampling and reconstruction of discrete time signals
CO2	Study the properties and the development of efficient algorithms for the computation of DFT
CO3	Realization of FIR and IIR filters in different structural forms.
CO4	Learn the procedures to design of IIR filters from the analog filters using impulse invariance and bilinear transformation.
CO5	Study the different windows used in the design of FIR filters and design appropriate filters based on the specifications.

CO-PO Mapping

COs	Pos											
	1	2	3	4	5	6	7	8	9	10	11	12
CO1	2											2
CO2	3		3									2
CO3	3	3										2
CO4	3		2	2	2							2
CO5	3		3	2								2
Average	2.8	3	2.66	2	2							2

COs	AVG	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	52.94%	1.05											1.05
CO2	58.97%	1.74		1.74									1.17
CO3	51.85%	1.55	1.55			1.04	1.04						1.04
CO4	54.03%	1.62		1.08	1.88	1.08							1.08
CO5	51.85%	1.55		1.55	1.03	1.15	1.15						1.15
AVERAGE		1.30	1.55	1.45	1.45	1.09	1.09						1.09
TOTAL ATTAINMENT													1.28

Pradeepkumar S S
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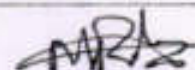
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**Department of Electronics & Communication Engineering****Course Outcomes and CO-PO- Articulation Matrix****2015 Scheme**
ACADEMIC YEAR 2018-19**Semester-V**

Subject: Operating System Prof. Maltesh Bajantri											Subject Code: 15EC553		
Course Outcomes													
CO1	Understand the services provided by an operating system.												
CO2	Understand how processes are synchronized and scheduled.												
CO3	Understand different approaches of memory management and virtual memory management.												
CO4	Understand the structure and organization of the file system												
CO5	Understand interprocess communication and deadlock situations.												
CO-PO Mapping													
COs	Pos												
	1	2	3	4	5	6	7	8	9	10	11	12	
CO1	3	2											1
CO2	1	3											1
CO3		3											1
CO4	1	3											1
CO5	2												1
Average	1.4	2.75											1

ATTAINMENT TABLE													
COs	AVG	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	62.72%	1.88	1.25										0.62
CO2	61.93%	0.61	1.85										0.61
CO3	57.72%		1.73										0.57
CO4	62.27%	0.62	1.88										0.62
CO5	66.76%	1.33											0.66
AVERAGE		1.11	1.67										0.616
TOTAL ATTAINMENT													1.132


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Sl. No.	IDN	Name	18EC553		2018-2019 OOD						SEM. IV SEM		TSP Prof. Mallesh Basanth					SEM. V SEM					TOTAL MARKS													
			T18E	T218E	T18E	T1		T2		T3		SEMESTER IV					SEMESTER V																			
						001-18	002-18	003-18	004-18	005-18	006-18	007-18	008-18	009-18	010-18	011-18	012-18	013-18	014-18	015-18	016-18	017-18		018-18												
1	18V14EC026	RAMYA K.	8	15	21	5	4	8	7	10	11	1	1	1	1	1	40	8	8	8	8	8	14	21	17	18	19	27.0								
2	18V14EC029	RASHMIN BSGAM H	0	16	27	0	0	8	8	12	15	1	1	1	1	1	41	8.2	8.2	8.2	8.2	8.2	8.2	17.2	17.2	17.2	21.0	28.4								
3	18V15EC008	ARUN C D	25	14	21	12	13	8	6	10	11	1	1	1	1	1	40	8	8	8	8	8	28.4	18.4	17.4	19.4	26.4	30.4								
4	18V15EC007	BHAVANA N	30	18	26	15	15	10	8	13	13	1	1	1	1	1	62	12.4	12.4	12.4	12.4	12.4	22.4	20.4	18.4	24.4	26.4	27.2								
5	18V15EC013	GAGANA S K	20	13	28	12	8	7	6	14	16	1	1	1	1	1	47	9.4	9.4	9.4	9.4	9.4	15.8	24.8	14.8	22.8	24.8	23								
6	18V15EC018	KAVYA S	13	18	28	7	8	10	8	14	16	1	1	1	1	1	38	7.8	7.8	7.8	7.8	7.8	22.4	11.8	18.8	13.8	13.8	23.92								
7	18V15EC027	NOOR AYISHA	28	27	26	13	15	12	15	15	11	1	1	1	1	1	42	8.4	3.8	3.8	3.8	3.8	22.2	15.2	22.2	26.2	22.2	25.4								
8	18V15EC035	BAGHURAJ K	23	24	28	12	13	12	12	16	12	1	1	1	1	1	55	9.2	9.2	9.2	9.2	9.2	22.4	11.4	13.4	20.4	21.4	23								
9	18V15EC049	USHA Y M	24	18	21	12	12	8	8	10	11	1	1	1	1	1	47	9.4	9.4	9.4	9.4	9.4	20.2	27.2	11.2	17.2	20.2	23								
10	18V15EC052	VISHWAS P	27	10	23	13	14	8	4	10	13	1	1	1	1	1	31	6.2	6.2	6.2	6.2	6.2	22.8	17.8	22.8	20.8	18.4	19.2								
11	18V16EC002	ANUSHA T P	23	26	19	12	13	14	12	10	9	1	1	1	1	1	49	9.8	9.8	9.8	9.8	9.8						24.56								
																					20.075	29.209	18.473	19.827	21.764	21.789										
																					62.727	61.934	57.727	62.273	66.761	62.385										

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**Department of Electronics & Communication Engineering****Course Outcomes and CO-PO- Articulation Matrix****2015 Scheme****ACADEMIC YEAR 2018-19****Semester-V**

Subject: Object Oriented Programming using C++ Prof. Madhu B C						Subject Code: 15EC562						
Course Outcomes												
CO1	Define Encapsulation, Inheritance and Polymorphism.											
CO2	Solve the problem with object oriented approach.											
CO3	Analyze the problem statement and build object oriented system model.											
CO4	Describe the characters and behavior of the objects that comprise a system.											
CO5	Explain function overloading, operator overloading and virtual functions.											
CO-PO Mapping												
COs	Pos											
	1	2	3	4	5	6	7	8	9	10	11	12
CO1	2											2
CO2	2											2
CO3	2	2	2	1	1							
CO4	1	2	2	2	2							
CO5	1	2	2	2	2							
Average	2.66	2	2	1.66	1.66							2

ATTAINMENT TABLE													
COs	AVG	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	64.03%	1.28											1.28
CO2	50.71%	1.01											1.01
CO3	52.04%	1.04	1.04	1.04	0.52	0.52							
CO4	65.96%	0.65	1.31	1.31	1.31	1.31							
CO5	71.93%	0.71	1.43	1.43	1.43	1.43							
AVERAGE		0.93	1.26	1.26	1.08	1.08							1.145
TOTAL ATTAINMENT													1.125


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Sl. No.	IDN	Name	EMCS42			2018-2019 ODS					SEM IV SEM					TSP Prof. Nadhu B C					Total Address							
			TS01	TS02	TS03	17			18		19		MANAGEMENT I/O					20	18									
						ODS-18	ODS-19	ODS-20	ODS-18	ODS-19	ODS-18	ODS-19	ODS-18	ODS-19	ODS-18	ODS-19	ODS-18		ODS-19	ODS-18		ODS-19						
1	1SV148C006	RAMYA K	27	14	30	13	14	8	8	15	15	1	1	1	1	1	44	8.8	8.8	8.8	8.8	8.8	32.8	33.8	17.8	15.8	24.8	22.8
2	1SV148C003	RASHMIN BEGAM H	0	18	30	0	0	8	13	15	15	1	1	1	1	1	45	9	8.8	8.8	8.8	8.8	30	14.8	14.8	22.8	24.8	17.44
3	1SV158C005	ARUN C G	17	9	30	15	2	5	4	15	15	4	1	1	1	1	34	6.8	6.8	6.8	6.8	6.8	20.8	26.8	12.8	20.8	21.8	17
4	1SV138C007	BHAVANA K	28	20	30	14	14	6	14	15	15	1	1	1	1	1	28	5.8	5.8	5.8	5.8	5.8	21.4	27.4	13.4	21.4	17.4	20.8
5	1SV158C003	GAGANA S K	25	18	22	13	12	7	11	15	9	1	1	1	1	1	37	7.4	7.4	7.4	7.4	7.4	21.4	13.4	15.4	22.4	22.4	23.4
6	1SV158C008	KAVYA S	16	12	30	14	2	4	8	15	15	1	1	1	1	1	32	6.4	6.4	6.4	6.4	6.4	17.8	18.8	17.8	23.8	21.8	19
7	1SV138C007	NOOR AYISHA	12	16	30	8	3	7	9	15	15	1	1	1	1	1	30	7.8	7.8	7.8	7.8	7.8	22.4	30.4	18.4	23.4	23.4	20.4
8	1SV158C005	BAGHURAJ C K	28	23	30	14	14	13	10	15	15	1	1	1	1	1	37	7.4	7.4	7.4	7.4	7.4	23.2	26.2	18.2	22.2	24.2	24.8
9	1SV158C049	LSHA Y M	26	15	28	14	12	8	10	13	15	1	1	1	1	1	41	8.2	8.2	8.2	8.2	8.2	18.2	17.2	9.2	22.2	22.2	23
10	1SV158C052	VISHWAS S P	19	4	30	11	8	2	2	15	15	1	1	1	1	1	31	6.2	6.2	6.2	6.2	6.2	24.8	30.8	25.8	25.8	25.8	17.8
11	1SV168C402	ANUSHA T P	28	28	30	14	12	13	15	15	15	1	1	1	1	1	48	9.6	9.6	9.6	9.6	9.6						27.4
																							20.491	23.836	16.655	21.109	23.018	0
																							64.034	58.716	52.045	65.986	71.932	60.919

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**Department of Electronics & Communication Engineering****Course Outcomes and CO-PO- Articulation Matrix****2015 Scheme****ACADEMIC YEAR 2018-19****Semester-VII**

Subject: Microwave & Antenna		Subject Code: 15EC71											
Faculty Name : Prof. Pradeepkumar S S													
Course Outcomes													
CO1	Describe the microwave properties and its transmission media												
CO2	Describe microwave devices for several application												
CO3	Understand the basics of antenna theory												
CO4	Select antennas for specific applications												
CO5	Can able to study different types of Antenna												
CO-PO Mapping													
COs	Pos												
	1	2	3	4	5	6	7	8	9	10	11	12	
CO1	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	68.93 %	0.68	1.36										
CO2	83.42%	0.83	0.83	1.66	0.83	1.66							
CO3	85.95%	1.7	1.7	2.55	2.55	1.7							
CO4	51.57%	1.02	1.02	1.02	1.53	1.53							
CO5	53.32%	1.06	0.53	1.06	0.53	1.06							
AVERAGE		1.058	1.088	1.44	1.36	1.48							
TOTAL ATTAINMENT													1.28

Prof. Pradeepkumar S S
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Roll No	USN	Name	2018-2019 ODD															SEM V/1 SEM										T1	T2	T3	T4	T5	T6	T7	T8	T9	T10	T11	T12	T13	T14	T15	T16	T17	T18	T19	T20	T21	T22	T23	T24	T25	T26	T27	T28	T29	T30	T31	T32	T33	T34	T35	T36	T37	T38	T39	T40	T41	T42	T43	T44	T45	T46	T47	T48	T49	T50	T51	T52	T53	T54	T55	T56	T57	T58	T59	T60	T61	T62	T63	T64	T65	T66	T67	T68	T69	T70	T71	T72	T73	T74	T75	T76	T77	T78	T79	T80	T81	T82	T83	T84	T85	T86	T87	T88	T89	T90	T91	T92	T93	T94	T95	T96	T97	T98	T99	T100	T101	T102	T103	T104	T105	T106	T107	T108	T109	T110	T111	T112	T113	T114	T115	T116	T117	T118	T119	T120	T121	T122	T123	T124	T125	T126	T127	T128	T129	T130	T131	T132	T133	T134	T135	T136	T137	T138	T139	T140	T141	T142	T143	T144	T145	T146	T147	T148	T149	T150	T151	T152	T153	T154	T155	T156	T157	T158	T159	T160	T161	T162	T163	T164	T165	T166	T167	T168	T169	T170	T171	T172	T173	T174	T175	T176	T177	T178	T179	T180	T181	T182	T183	T184	T185	T186	T187	T188	T189	T190	T191	T192	T193	T194	T195	T196	T197	T198	T199	T200	T201	T202	T203	T204	T205	T206	T207	T208	T209	T210	T211	T212	T213	T214	T215	T216	T217	T218	T219	T220	T221	T222	T223	T224	T225	T226	T227	T228	T229	T230	T231	T232	T233	T234	T235	T236	T237	T238	T239	T240	T241	T242	T243	T244	T245	T246	T247	T248	T249	T250	T251	T252	T253	T254	T255	T256	T257	T258	T259	T260	T261	T262	T263	T264	T265	T266	T267	T268	T269	T270	T271	T272	T273	T274	T275	T276	T277	T278	T279	T280	T281	T282	T283	T284	T285	T286	T287	T288	T289	T290	T291	T292	T293	T294	T295	T296	T297	T298	T299	T300	T301	T302	T303	T304	T305	T306	T307	T308	T309	T310	T311	T312	T313	T314	T315	T316	T317	T318	T319	T320	T321	T322	T323	T324	T325	T326	T327	T328	T329	T330	T331	T332	T333	T334	T335	T336	T337	T338	T339	T340	T341	T342	T343	T344	T345	T346	T347	T348	T349	T350	T351	T352	T353	T354	T355	T356	T357	T358	T359	T360	T361	T362	T363	T364	T365	T366	T367	T368	T369	T370	T371	T372	T373	T374	T375	T376	T377	T378	T379	T380	T381	T382	T383	T384	T385	T386	T387	T388	T389	T390	T391	T392	T393	T394	T395	T396	T397	T398	T399	T400	T401	T402	T403	T404	T405	T406	T407	T408	T409	T410	T411	T412	T413	T414	T415	T416	T417	T418	T419	T420	T421	T422	T423	T424	T425	T426	T427	T428	T429	T430	T431	T432	T433	T434	T435	T436	T437	T438	T439	T440	T441	T442	T443	T444	T445	T446	T447	T448	T449	T450	T451	T452	T453	T454	T455	T456	T457	T458	T459	T460	T461	T462	T463	T464	T465	T466	T467	T468	T469	T470	T471	T472	T473	T474	T475	T476	T477	T478	T479	T480	T481	T482	T483	T484	T485	T486	T487	T488	T489	T490	T491	T492	T493	T494	T495	T496	T497	T498	T499	T500	T501	T502	T503	T504	T505	T506	T507	T508	T509	T510	T511	T512	T513	T514	T515	T516	T517	T518	T519	T520	T521	T522	T523	T524	T525	T526	T527	T528	T529	T530	T531	T532	T533	T534	T535	T536	T537	T538	T539	T540	T541	T542	T543	T544	T545	T546	T547	T548	T549	T550	T551	T552	T553	T554	T555	T556	T557	T558	T559	T560	T561	T562	T563	T564	T565	T566	T567	T568	T569	T570	T571	T572	T573	T574	T575	T576	T577	T578	T579	T580	T581	T582	T583	T584	T585	T586	T587	T588	T589	T590	T591	T592	T593	T594	T595	T596	T597	T598	T599	T600	T601	T602	T603	T604	T605	T606	T607	T608	T609	T610	T611	T612	T613	T614	T615	T616	T617	T618	T619	T620	T621	T622	T623	T624	T625	T626	T627	T628	T629	T630	T631	T632	T633	T634	T635	T636	T637	T638	T639	T640	T641	T642	T643	T644	T645	T646	T647	T648	T649	T650	T651	T652	T653	T654	T655	T656	T657	T658	T659	T660	T661	T662	T663	T664	T665	T666	T667	T668	T669	T670	T671	T672	T673	T674	T675	T676	T677	T678	T679	T680	T681	T682	T683	T684	T685	T686	T687	T688	T689	T690	T691	T692	T693	T694	T695	T696	T697	T698	T699	T700	T701	T702	T703	T704	T705	T706	T707	T708	T709	T710	T711	T712	T713	T714	T715	T716	T717	T718	T719	T720	T721	T722	T723	T724	T725	T726	T727	T728	T729	T730	T731	T732	T733	T734	T735	T736	T737	T738	T739	T740	T741	T742	T743	T744	T745	T746	T747	T748	T749	T750	T751	T752	T753	T754	T755	T756	T757	T758	T759	T760	T761	T762	T763	T764	T765	T766	T767	T768	T769	T770	T771	T772	T773	T774	T775	T776	T777	T778	T779	T780	T781	T782	T783	T784	T785	T786	T787	T788	T789	T790	T791	T792	T793	T794	T795	T796	T797	T798	T799	T800	T801	T802	T803	T804	T805	T806	T807	T808	T809	T810	T811	T812	T813	T814	T815	T816	T817	T818	T819	T820	T821	T822	T823	T824	T825	T826	T827	T828	T829	T830	T831	T832	T833	T834	T835	T836	T837	T838	T839	T840	T841	T842	T843	T844	T845	T846	T847	T848	T849	T850	T851	T852	T853	T854	T855	T856	T857	T858	T859	T860	T861	T862	T863	T864	T865	T866	T867	T868	T869	T870	T871	T872	T873	T874	T875	T876	T877	T878	T879	T880	T881	T882	T883	T884	T885	T886	T887	T888	T889	T890	T891	T892	T893	T894	T895	T896	T897	T898	T899	T900	T901	T902	T903	T904	T905	T906	T907	T908	T909	T910	T911	T912	T913	T914	T915	T916	T917	T918	T919	T920	T921	T922	T923	T924	T925	T926	T927	T928	T929	T930	T931	T932	T933	T934	T935	T936	T937	T938	T939	T940	T941	T942	T943	T944	T945	T946	T947	T948	T949	T950	T951	T952	T
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SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

SUBJECT	DIGITAL IMAGE PROCESSING	SUBJECT CODE	15EC72
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COURSE OUTCOME

After studying this course, students will be able to:

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

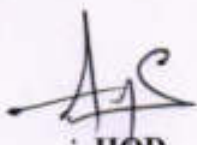
COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	MR.Raghavendra D											
BRANCH	ECE			ACADEMIC YEAR				2018-19				
COURSE	B.E	SEMESTER		7TH	SECTION			ECE				
SUBJECT	DIGITAL IMAGE PROCESSING				SUBJECT CODE			15EC72				
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	1	1	2	1								2
CO2	1	1	1	1								1
CO3	1	1	1	1								1
CO4	2	2	2	1								1
AVERAGE	1.25	1.25	1.5	1								1.25
OVERALL MAPPING OF SUBJECT												1.25

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	78.67	0.78	0.78	1.56	0.78								1.56
CO2	89.67	0.89	0.89	0.89	0.89								0.89
CO3	84.55	0.84	0.84	0.84	0.84								0.84
CO4	87.32	1.74	1.74	1.74	0.87								0.87
AVERAGE		1.06	1.06	1.25	0.84								1.04
FINAL ATTAINMENT LEVEL													1.05

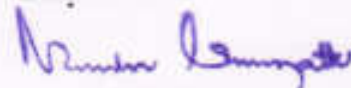


COURSE INSTRUCTOR



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

PRINCIPAL



**PRINCIPAL
SIET, TUMAKURU.**

Academic year	SEM/VII	2016-19		SEM - 7TH		Total strength			41				Subject				DIP				ISECT2				SEE Tot			
		IA TEST 1(30M)		IA TEST 2(30M)		IA TEST 3(30M)		SSIGNEMENT / QUIZ(10 N		SEE MARKS(60)				Total Cos ATTAINMENT				% of Individual CO				SEE Tot						
USN	NAME	CO1	CO2 TOTAL	CO2	CO3 TOTAL	CO3	CO4 TOTAL	CO1	CO2	CO3	CO4	CO1=1	CO2	CO3	CO4	O1=2	O2=4	O3=2	O4=2	CO1	CO2	CO3	CO4	60M	SEE Tot			
1SV14EC015	LAHARI N RAJ	14	4	18	14	15	29	15	15	30	2	2	2	2	7.0	7.0	7.0	7.0	23.0	18	24.0	24.0	81.38	40.91	84.83	84.83	38	7.0
1SV15EC001	ABHISHEK G SHEELVANT	11	16	27	15	15	30	14	13	27	2	2	2	2	8.2	8.2	8.2	8.2	21.2	41.2	25.2	24.2	73.1	93.64	86.9	83.45	41	8.2
1SV15EC002	AISHWARYA S M	10	11	21	14	14	28	13	12	25	2	2	2	2	10.6	10.6	10.6	10.6	22.6	37.8	26.6	27.6	77.93	85.45	91.72	95.17	33	10.6
1SV15EC003	AKSHAYA BRADAR	12	13	25	14	13	27	14	11	25	2	2	2	2	9.4	9.4	9.4	9.4	23.4	38.4	24.4	25.4	80.69	87.27	84.14	87.59	47	9.4
1SV15EC004	AMEENA ROUSHNIE	15	19	34	19	18	37	14	12	26	2	2	2	2	7	7	7	7	24	35	22	23	82.78	79.55	75.86	79.31	35	7
1SV15EC009	CL BALAJI	9	12	21	13	15	28	12	12	24	2	2	2	2	8.4	8.4	8.4	8.4	19.4	35.4	25.4	22.4	68.9	80.45	87.59	77.24	42	8.4
1SV15EC010	CHAITHIRA M	12	13	25	14	12	26	12	13	25	2	2	2	2	8.4	8.4	8.4	8.4	22.4	37.4	22.4	22.4	77.24	85	77.24	77.24	42	8.4
1SV15EC011	D CHANDANA	13	13	26	14	13	27	15	13	28	2	2	2	2	10.8	10.8	10.8	10.8	25.8	39.8	25.8	27.8	86.97	90.45	88.97	95.86	54	10.8
1SV15EC012	DEEPIKA H P	12	6	18	11	15	26	15	13	28	2	2	2	2	9	9	9	9	28	28	26	26	78.31	63.84	89.66	89.66	45	9
1SV15EC014	GEETA BAMESHAPPA HANCHI	12	12	24	11	13	24	15	13	28	2	2	2	2	12	12	12	12	26	37	27	29	89.68	84.09	93.1	100	60	12
1SV15EC016	HARINI D C	12	9	21	11	8	19	14	14	28	2	2	2	2	9.2	9.2	9.2	9.2	23.2	31.2	19.2	25.2	80	70.91	66.21	86.9	48	9.2
1SV15EC017	S KAVITHA	15	8	23	10	9	19	7	14	21	2	2	2	2	8.6	8.6	8.6	8.6	15.6	28.6	19.6	17.6	88.28	65	67.59	60.69	43	8.6
1SV15EC020	MAMATHA M S	10	8	18	15	15	30	15	15	30	2	2	2	2	10.2	10.2	10.2	10.2	22.2	35.2	27.2	27.2	76.55	80	93.79	93.79	51	10.2
1SV15EC026	NITHYA SHREE B T	12	13	25	13	15	28	15	15	30	2	2	2	2	8	8	8	8	22	36	25	25	75.86	81.82	86.21	86.21	40	8
1SV15EC028	PADMA M A	13	14	27	14	15	29	12	14	26	2	2	2	2	11.2	11.2	11.2	11.2	26.2	41.2	28.2	25.2	90.34	93.64	97.24	86.9	56	11.2
1SV15EC030	PCCOA K S	12	12	24	15	15	30	15	15	30	2	2	2	2	9.8	9.8	9.8	9.8	23.8	36.8	26.8	26.8	82.07	83.64	92.41	92.41	49	9.8
1SV15EC031	PRAHIN KARKI	14	14	28	12	13	25	15	15	30	2	2	2	2	12.2	12.2	12.2	12.2	28.2	40.2	27.2	29.2	97.24	91.36	93.79	78.45	61	12.2
1SV15EC032	PRASHANT CHOUDESI	9	2	11	9	13	22	15	15	30	2	2	2	2	11.0	11.0	11.0	11.0	22.0	34.0	24.0	26.0	77.93	59.91	91.72	98.62	58	11.0
1SV15EC033	PREETHI BAI B L	13	0	13	11	12	23	15	15	30	2	2	2	2	11.4	11.4	11.4	11.4	26.4	34.4	25.4	28.4	91.03	55.45	87.59	97.93	57	11.4
1SV15EC034	PRIYANKA K	15	15	30	14	15	29	15	15	30	2	2	2	2	10.2	10.2	10.2	10.2	27.2	37.2	27.2	26.2	93.79	93.79	97.93	90.34	51	10.2
1SV15EC036	RAKSHA M V	15	14	29	15	13	28	14	13	27	2	2	2	2	10.6	10.6	10.6	10.6	25.6	35.6	26.6	27.6	88.28	91.72	90.34	95.17	53	10.6
1SV15EC038	RAMYA M G	11	7	18	9	14	23	15	15	30	2	2	2	2	9.8	9.8	9.8	9.8	22.8	32.8	23.8	20.8	78.62	64.83	95.17	71.72	49	9.8
1SV15EC039	RANJITHA B M	14	11	25	8	14	22	15	15	30	2	2	2	2	11.6	11.6	11.6	11.6	27.6	34.6	24.6	21.6	95.17	84.83	71.72	74.48	58	11.6
1SV15EC040	ROHITH P	12	12	24	14	14	28	15	15	30	2	2	2	2	10.8	10.8	10.8	10.8	24.8	34.8	24.8	26.8	85.52	85.52	74.48	92.41	54	10.8
1SV15EC041	SAVITA HOSBALLI	12	7	19	13	15	30	15	15	30	2	2	2	2	10	10	10	10	24	34	31	27	82.76	65.52	92.41	93.1	50	10
1SV15EC042	SHALINI N	13	14	27	14	13	27	14	12	26	2	2	2	2	10.8	10.8	10.8	10.8	25.8	35.8	26.8	26.8	88.97	92.41	93.1	92.41	54	10.8
1SV15EC043	SONA K R	15	11	26	13	15	28	15	15	30	2	2	2	2	9.2	9.2	9.2	9.2	26.2	32.2	27.2	24.2	90.34	76.55	92.41	83.45	46	9.2
1SV15EC044	SOUMYA D H	13	14	27	14	12	26	15	15	30	2	2	2	2	10.8	10.8	10.8	10.8	25.8	35.8	26.8	26.8	88.97	92.41	83.45	92.41	54	10.8
1SV15EC046	SUSHMA T N	12	8	20	5	13	18	15	15	30	2	2	2	2	9.6	9.6	9.6	9.6	23.6	33.6	24.6	16.6	81.38	67.59	92.41	57.24	48	9.6
1SV15EC047	THOSHITHA	13	14	27	1	14	15	15	15	30	2	2	2	2	8.6	8.6	8.6	8.6	23.6	33.6	24.6	11.6	81.38	84.83	57.24	40	43	8.6
1SV15EC051	VINAY S P	14	15	29	15	15	30	15	15	30	2	2	2	2	10.4	10.4	10.4	10.4	26.4	36.4	27.4	27.4	91.03	94.48	67.59	94.48	52	10.4
1SV16EC400	ABDUL NAZEERSAB A KANAVALLI	15	15	30	14	13	27	15	14	29	2	2	2	2	9.4	9.4	9.4	9.4	26.4	36.4	27.4	25.4	91.03	91.03	94.48	87.59	47	9.4
1SV16EC401	AISHWARYA K S	14	14	28	15	12	27	13	14	27	2	2	2	2	9.4	9.4	9.4	9.4	25.4	35.4	26.4	26.4	87.59	87.59	87.59	91.03	47	9.4
1SV16EC403	BINDUSHREE G S	14	13	27	14	11	25	15	15	30	2	2	2	2	10.8	10.8	10.8	10.8	26.8	36.8	27.8	26.8	92.41	88.97	91.03	92.41	54	10.8
1SV16EC404	CHIRANJEEVI K M	13	13	26	14	12	26	14	12	26	2	2	2	2	8.6	8.6	8.6	8.6	23.6	33.6	24.6	24.6	81.38	81.38	92.41	84.83	43	8.6
1SV16EC407	MANJUNATH B YANNI	13	15	28	12	13	24	13	13	26	2	2	2	2	9.8	9.8	9.8	9.8	24.8	34.8	25.8	23.8	85.52	92.41	84.83	82.07	49	9.8
1SV16EC408	MOHANKUMAR D	14	12	26	12	13	25	13	14	27	2	2	2	2	9.6	9.6	9.6	9.6	25.6	35.6	26.6	23.6	88.28	81.38	88.28	81.38	48	9.6
1SV16EC410	NANDINI L	14	13	27	15	13	28	14	13	27	2	2	2	2	10.4	10.4	10.4	10.4	26.4	36.4	27.4	27.4	91.03	87.59	88.97	94.48	52	10.4
1SV16EC411	PCCOA A	11	15	26	15	13	28	15	15	30	2	2	2	2	7.8	7.8	7.8	7.8	20.8	30.8	21.8	24.8	71.72	85.52	123.4	85.52	39	7.8
1SV16EC412	RAMYA N K	11	13	24	15	13	28	15	15	30	2	2	2	2	9.8	9.8	9.8	9.8	22.8	32.8	23.8	26.8	76.62	85.52	123.4	92.41	49	9.8
1SV16EC413	RAMYASHREE M	11	8	19	14	14	28	15	15	30	2	2	2	2	11	11	11	11	24	34	21	32	82.76	72.41	91.72	93.1	55	11
1SV16EC414	ROWNDARYA A	10	9	19	7	14	21	15	15	30	2	2	2	2	12.4	12.4	12.4	12.4	24.4	34.4	25.4	21.4	84.14	80.69	94.48	73.79	62	12.4

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78.67 88.67 84.55 87.32



DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

SUBJECT	POWER ELECTRONICS	SUBJECT CODE	15EC73
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COURSE OUTCOME

After studying this course, students will be able to:

- CO1: Describe the characteristics of different power devices and identify the various applications associated with it.
- CO2: Illustrate the working of power circuit as DC-DC converter.
- CO3: Illustrate the operation of inverter circuit and static switches.
- CO4: Determine the output response of a thyristor circuit with various triggering options.
- CO5: Determine the response of controlled rectifier with resistive and inductive loads.

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	MRS. Haripriya R											
BRANCH	ECE			ACADEMIC YEAR				2018-19				
COURSE	B.E	SEMESTER		7TH	SECTION			ECE				
SUBJECT	POWER ELECTRONICS					SUBJECT CODE			15EC73			
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	1	2	2	1	1							
CO2	1	2	1	3	1							
CO3	2	1	1	1	1							
CO4	1	2	1	1	2							
CO5	1	1	1	2	1							
AVERAGE	1.2	1.6	1.2	1.6	1.2							
OVERALL MAPPING OF SUBJECT												1.36

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	74.59	0.75	1.51	1.51	0.75	0.75							
CO2	64.09	0.64	1.28	0.64	1.92	0.64							
CO3	85.41	1.70	0.85	0.85	0.85	0.85							
CO4	85.67	1.03	2.06	1.03	1.03	2.06							
CO5	73.39	0.73	0.73	0.73	1.46	0.73							
AVERAGE		0.97	1.28	0.95	0.61	1.00							
FINAL ATTAINMENT LEVEL													0.962


COURSE INSTRUCTOR


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Academic year	SEM/VII	2018-19		SEM VIII		Total strength			Subject					Power Electronics				ISEC 7)					% of individual CO								
		IA TEST 1(30M)		IA TEST 2(30M)		IA TEST 3(30M)			ASSIGNMENT / QUIZ(10 M)					SEE MARKS(60)				Total Cos ATTAINMENT													
		CO1	CO2	TOTAL	CO2	CO3	TOTAL	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	
15V14EC015	LAHARI N RAJ	8	10	18	11	7	18	15	13	28	2	2	2	2	2	6.6	6.6	6.6	6.6	6.6	14.8	16	15.6	26.6	23.6	50.54	30.36	51.79	91.72	81.38	
15V15EC001	ADHIRSHEK G SHEELVAN	8	7	15	6	13	19	10	13	23	2	2	2	2	2	8	8	8	8	8	18	23	23	29	20	62.07	52.27	79.51	97.88	88.97	
15V15EC002	ASHWARYA S M	13	14	27	13	15	30	10	13	23	2	2	2	2	2	10.4	10.4	10.4	10.4	10.4	29.4	41.4	27.4	42.4	22.4	87.99	94.09	94.48	67.98	77.24	
15V15EC003	AKSHATA BILADAR	6	9	15	5	15	20	10	13	23	2	2	2	2	2	10.2	10.2	10.2	10.2	10.2	18.2	26.2	27.2	32.2	22.2	62.76	59.55	83.79	56.98	76.55	
15V15EC004	AMEENA ROUSHNIE	15	15	30	11	6	17	15	15	30	2	2	2	2	2	8.4	6.4	6.4	6.4	6.4	23.4	34.4	14.4	25.4	23.4	80.89	78.18	49.66	87.59	80.69	
15V15EC009	CL BALAJI	15	12	27	9	7	16	15	15	30	2	2	2	2	2	9.6	9.6	9.6	9.6	9.6	26.6	32.6	18.6	27.6	26.6	91.72	74.09	64.14	95.17	91.72	
15V15EC010	CHAITHRA M	14	13	27	10	10	20	15	14	29	2	2	2	2	2	8.8	8.8	8.8	8.8	8.8	24.8	33.8	20.8	30.8	25.8	85.52	76.82	71.72	56.89	88.97	
15V15EC011	D CHANDANA	14	3	17	9	13	24	15	14	29	2	2	2	2	2	7.2	7.2	7.2	7.2	7.2	23.2	21.2	24.2	33.2	24.2	80	48.18	83.45	98.54	83.45	
15V15EC012	DEEPIKA H P	13	5	18	14	7	21	15	15	30	2	2	2	2	2	9.8	9.8	9.8	9.8	9.8	24.8	30.8	18.8	32.8	26.8	85.52	70	64.83	95.4	92.41	
15V15EC014	GEETA RAMESHAPPA I	15	7	22	6	7	13	15	14	29	2	2	2	2	2	6.2	6.2	6.2	6.2	6.2	39.2	21.2	15.2	21.2	23.2	80	48.18	52.41	73.1	80	
15V15EC016	HARINI D C	15	12	27	4	4	8	15	14	29	2	2	2	2	2	8.2	8.2	8.2	8.2	8.2	25.2	26.2	14.2	10.2	25.2	88.9	59.55	48.97	35.17	86.9	
15V15EC017	S KAVITHA	12	3	15	0	7	7	15	15	30	2	2	2	2	2	5.6	5.6	5.6	5.6	5.6	19.6	10.6	14.6	14.6	27.6	67.99	34.09	50.34	50.34	77.93	
15V15EC020	MAMATHA M S	15	15	30	15	15	30	10	13	23	2	2	2	2	2	6.2	6.2	6.2	6.2	6.2	23.2	36.2	23.2	36.2	16.2	80	86.82	80	67.95	62.76	
15V15EC026	NITHYA SHREE B T	12	7	19	11	14	25	15	15	30	2	2	2	2	2	11.8	11.8	11.8	11.8	11.8	25.8	31.6	27.8	38.8	28.8	88.28	71.82	95.17	89.34	98.62	
15V15EC028	PADMA M A	5	3	10	11	14	25	15	14	29	2	2	2	2	2	12.6	12.6	12.6	12.6	12.6	19.6	30.6	28.6	39.6	29.6	67.99	69.55	98.62	87.95	102.1	
15V15EC030	POOJA K S	11	8	19	13	15	28	15	14	29	2	2	2	2	2	9.6	9.6	9.6	9.6	9.6	22.6	32.6	29.6	39.6	26.6	77.99	74.09	91.72	67.99	91.72	
15V15EC031	PRABIN KARKI	15	12	27	11	6	18	15	14	29	2	2	2	2	2	7.2	7.2	7.2	7.2	7.2	34.2	33.2	15.2	27.2	34.2	83.45	75.45	52.41	93.79	83.45	
15V15EC032	PRASHANT CHOUDRI	7	8	15	14	7	21	10	15	25	2	2	2	2	2	6.8	6.8	6.8	6.8	6.8	15.8	30.6	15.8	29.6	18.6	55.79	69.55	53.79	88.67	64.14	
15V15EC033	PREETHI BAI B L	15	6	21	11	14	25	15	14	29	2	2	2	2	2	10.8	10.8	10.8	10.8	10.8	27.8	29.8	26.8	37.8	27.8	95.88	67.73	92.41	98.67	95.88	
15V15EC034	PRIYANKA K	15	12	27	6	13	19	15	14	29	2	2	2	2	2	9.2	9.2	9.2	9.2	9.2	26.2	23.2	38.2	30.2	17.2	90.34	80	56.88	87.9	59.31	
15V15EC036	RAKSHA M V	15	14	29	3	13	16	15	14	29	2	2	2	2	2	7.4	7.4	7.4	7.4	7.4	24.4	23.4	38.4	25.4	12.4	84.14	80.69	88.98	87.59	42.76	
15V15EC038	RAMYA M G	8	7	15	4	14	18	15	15	30	2	2	2	2	2	5.6	5.6	5.6	5.6	5.6	15.6	14.6	22.6	25.6	11.6	33.79	50.34	77.93	88.28	40	
15V15EC039	RANITHA B M	11	2	13	10	8	16	15	15	30	2	2	2	2	2	8.2	8.2	8.2	8.2	8.2	21.2	12.2	23.2	26.2	20.2	79.1	42.07	80	90.34	69.66	
15V15EC040	ROHITH P	4	6	10	0	13	13	8	14	22	2	2	2	2	2	6.4	6.4	6.4	6.4	6.4	12.4	14.4	18.4	21.4	8.4	42.76	49.66	83.45	73.79	28.97	
15V15EC041	SAVITA HOSALLI	15	11	26	6	15	21	15	14	29	2	2	2	2	2	8.8	8.8	8.8	8.8	8.8	25.8	21.8	36.8	31.8	16.8	88.97	75.17	65.89	43.89	57.93	
15V15EC042	SHALINI N	7	10	17	8	15	23	15	15	30	2	2	2	2	2	8.4	8.4	8.4	8.4	8.4	17.4	20.4	27.4	33.4	18.4	60	70.34	94.48	56.78	63.45	
15V15EC043	SONA K R	7	4	11	14	13	27	15	15	30	2	2	2	2	2	6.8	6.8	6.8	6.8	6.8	15.8	12.8	29.8	35.8	22.8	54.48	44.14	68.28	78.88	78.62	
15V15EC044	SOUMYA D H	12	12	24	15	6	21	15	14	29	2	2	2	2	2	6.6	6.6	6.6	6.6	6.6	20.6	20.6	32.6	29.6	23.6	71.03	71.03	89.56	79.99	81.98	
15V15EC046	SUSHMA T N	13	6	19	5	10	15	10	14	24	2	2	2	2	2	5.6	5.6	5.6	5.6	5.6	20.6	13.6	26.6	22.6	12.6	71.03	46.9	91.72	77.93	43.45	
15V15EC047	THOSHITHA	14	15	29	9	15	24	15	15	30	2	2	2	2	2	10.2	10.2	10.2	10.2	10.2	20.2	30.2	27.2	41.2	36.2	21.2	90.34	93.79	98.76	89.56	73.1
15V15EC051	VINAY S P	15	14	29	14	15	29	11	15	27	2	2	2	2	2	9	9	9	9	9	26	25	40	40	25	89.66	86.21	87.66	76.99	86.21	
15V16EC400	ABDUL NAZEER S A B	14	2	16	9	13	22	15	13	28	2	2	2	2	2	5.6	5.6	5.6	5.6	5.6	23.6	9.6	23.6	29.6	16.6	74.48	33.1	81.38	98.76	57.24	
15V16EC401	ASHWARYA K S	15	7	22	7	8	15	15	14	29	2	2	2	2	2	7	7	7	7	7	24	16	14	16	16	82.76	55.17	76	82.76	55.17	
15V16EC403	BINDUSHEEJI G S	6	6	12	7	7	14	15	15	30	2	2	2	2	2	8.6	8.6	8.6	8.6	8.6	16.6	16.6	22.6	24.6	17.6	57.24	57.24	77.93	84.83	60.69	
15V16EC404	CHIRANJEVI K M	9	0	9	5	10	15	10	15	25	2	2	2	2	2	6.4	6.4	6.4	6.4	6.4	17.4	8.4	17.4	23.4	13.4	60	28.97	40	80.89	46.21	
15V16EC407	MANJUNATH B YANNI	4	3	7	6	12	18	10	14	24	2	2	2	2	2	6.6	6.6	6.6	6.6	6.6	12.6	11.6	15.6	26.6	14.6	43.45	40	53.79	91.72	50.34	
15V16EC408	MOHANKUMAR D	8	6	14	4	3	7	10	10	20	2	2	2	2	2	6.8	6.8	6.8	6.8	6.8	16.8	14.8	22.8	15.8	12.8	57.93	51.03	78.62	54.48	44.14	
15V16EC410	NANDINI L	15	13	28	15	14	29	10	12	22	2	2	2	2	2	10.6	10.6	10.6	10.6	10.6	27.6	25.6	40.6	41.6	32.6	95.17	88.28	77.89	97.66	95.17	
15V16EC411	POOJA A	13	11	24	14	14	28	13	20	33	2	2	2	2	2	8.6	8.6	8.6	8.6	8.6	23.6	21.6	34.6	38.6	34.6	81.38	74.48	98.67	87.89	84.83	
15V16EC412	RAMYA N K	15	13	28	10	13	23	15	14	29	2	2	2	2	2	9.6	9.6	9.6	9.6	9.6	26.6	24.6	39.6	34.6	21.6	91.72	84.83	87.89	95.45	74.48	
15V16EC413	RAMYASHREE M	14	7	21	13	13	26	15	14	29	2	2	2	2	2	10.4	10.4	10.4	10.4	10.4	28.4	19.4	33.4	38.4	25.4	91.03	66.9	89	87.89	87.59	
15V16EC414	SOWNDARYA A	7	4	11	11	14	25	15	15	30	2	2	2	2	2	7.6	7.6	7.6	7.6	7.6	16.6	13.6	20.6	34.6	20.6	57.24	46.9	71.03	76.98	71.03	

74.59 64.09 75.52 85.67 73.4


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SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

SUBJECT	REAL TIME SYSTEMS	SUBJECT CODE	15EC743
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COURSE OUTCOME

After studying this course, students will be able to:

CO1: Understand the basics and importance of RTS Using a generalized Computer Control System

CO2: Describe the process control applications and types of control strategies.

CO3: Summarize the major features of the microprocessors using Schematic diagram.

CO4: Describe the standard interfacing techniques and communication methodology

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	MRS. SANDYA R											
BRANCH	ECE			ACADEMIC YEAR				2018-19				
COURSE	B.E	SEMESTER		7TH	SECTION			ECE				
SUBJECT	REAL TIME SYSTEMS					SUBJECT CODE			15EC743			
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	1	1	2	1	2							
CO2	1	1	1	1	1							
CO3	1	1	1	1	1							
CO4	2	2	2	1	1							
AVERAGE	1.25	1.25	1.5	1	1.25							
OVERALL MAPPING OF SUBJECT												1.25

S. Uppa

Nandini Sanyal
 PRINCIPAL
 SIET, TUMAKURU.

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	87.67	0.87	0.87	1.74	0.87	1.74							
CO2	99.70	0.99	0.99	0.99	0.99	0.99							
CO3	86.55	0.86	0.86	0.86	0.86	0.86							
CO4	85.32	1.7	1.7	1.7	0.85	0.85							
AVERAGE		1.10	1.10	1.32	0.89	1.11							
FINAL ATTAINMENT LEVEL													1.10

S. Rupa

COURSE INSTRUCTOR

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Academic year	SEM/VII	2018-19		SEM 7TH		Total strength			42				Subject				RTS				ISECT43				%				SEE Tot
		IA TEST 1(30M)		IA TEST 2(30M)		IA TEST 3(30M)			ASSIGNMENT / QUIZ(10 X)				SEE MARKS(40)				Total Cos ATTAINMENT				% of individual CO								
USN	NAME	CO1	CO2	TOTAL	CO2	CO3	TOTAL	CO3	CO4	TOTAL	CO1	CO2	CO3	CO4	Q1=1	CO2	CO3	CO4	CO1-2	CO2-4	CO3-2	CO4-2	CO1	CO2	CO3	CO4	60M		
1SV16EC015	LAHARI N RAJ	14	4	18	14	15	29	15	15	30	2	2	2	2	7.0	7.0	7.0	7.0	23.8	18	24.6	24.6	81.38	40.91	84.83	84.83	38	7.6	
1SV15EC001	ABHINAV G SHREELVANT	11	16	27	15	15	30	15	15	30	2	2	2	2	8.2	8.2	8.2	8.2	11.2	41.2	25.2	25.2	73.1	83.64	86.9	86.9	41	8.2	
1SV15EC002	ABHINAV S M	10	11	21	14	14	28	15	15	30	2	2	2	2	10.6	10.6	10.6	10.6	22.6	37.6	26.6	27.6	77.93	85.45	91.72	95.17	53	10.6	
1SV15EC003	AKSHATA BIDARAR	13	13	26	14	13	27	15	15	30	2	2	2	2	9.4	9.4	9.4	9.4	23.4	38.4	24.4	24.4	80.69	87.27	84.14	91.03	47	9.4	
1SV15EC004	AMEENA ROUSHINIE	19	13	32	13	13	26	15	15	30	2	2	2	2	7	7	7	7	24	35	22	24	82.76	79.53	75.88	82.76	35	7	
1SV15EC009	CL BALAJI	9	12	21	13	15	28	8	15	23	2	2	2	2	8.4	8.4	8.4	8.4	19.4	35.4	25.4	18.4	66.9	80.45	87.59	83.45	42	8.4	
1SV15EC010	CHAITRA M	12	13	25	14	12	26	14	12	26	2	2	2	2	8.4	8.4	8.4	8.4	22.4	37.4	22.4	24.4	77.24	85	77.24	86.14	42	8.4	
1SV15EC011	D CHANDANA	13	13	26	14	13	27	13	13	26	2	2	2	2	10.8	10.8	10.8	10.8	25.8	39.8	25.8	25.8	88.97	90.45	88.97	88.97	54	10.8	
1SV15EC012	DEEPIKA H P	13	6	19	11	15	26	15	15	30	2	2	2	2	9	9	9	9	23	28	26	20	79.31	63.64	89.66	89.66	45	9	
1SV15EC014	GEETA RAMESHAPPA HANCHI	13	12	25	11	13	24	14	12	26	2	2	2	2	12	12	12	12	12	12	12	12	89.66	84.09	83.1	96.55	60	12	
1SV15EC016	HARINI D C	13	9	22	11	8	19	15	15	30	2	2	2	2	9.2	9.2	9.2	9.2	23.2	31.2	19.2	25.2	80	70.91	86.31	86.3	46	9.2	
1SV15EC017	S KAVITHA	19	8	27	10	9	19	15	15	30	2	2	2	2	8.6	8.6	8.6	8.6	21.6	28.6	19.6	25.6	88.26	83	67.59	88.28	43	8.6	
1SV15EC020	MAMATHA M S	10	8	18	15	15	30	15	15	30	2	2	2	2	10.2	10.2	10.2	10.2	21.2	35.2	27.2	27.2	76.95	80	93.79	93.79	51	10.2	
1SV15EC026	NITHYA SHREE B T	12	13	25	13	15	28	15	15	30	2	2	2	2	8	8	8	8	22	36	25	25	75.86	81.82	86.21	86.21	40	8	
1SV15EC028	PADMA M A	13	14	27	14	15	29	12	14	26	2	2	2	2	11.2	11.2	11.2	11.2	26.2	41.2	28.2	25.2	90.34	93.64	87.24	86.9	56	11.2	
1SV15EC030	POOJA K S	12	13	25	13	15	28	15	15	30	2	2	2	2	9.8	9.8	9.8	9.8	23.8	36.8	26.8	26.8	82.07	83.64	92.41	92.41	49	9.8	
1SV15EC031	PRABIN KARKI	14	14	28	12	13	25	15	15	30	2	2	2	2	12.2	12.2	12.2	12.2	28.2	40.2	27.2	29.2	97.34	91.38	93.79	100.7	61	12.2	
1SV15EC032	PRASHANT CHOUDRI	9	2	11	9	13	22	15	15	30	2	2	2	2	11.6	11.6	11.6	11.6	22.6	34.6	26.6	28.6	77.93	55.91	91.72	88.62	58	11.6	
1SV15EC033	PREETHI BAI B L	13	0	13	11	12	23	15	15	30	2	2	2	2	11.4	11.4	11.4	11.4	26.4	34.4	25.4	28.4	91.03	55.45	87.59	87.59	57	11.4	
1SV15EC034	PRIYANKA K	13	15	28	14	15	29	15	15	30	2	2	2	2	10.2	10.2	10.2	10.2	27.2	37.2	27.2	26.2	93.79	93.79	97.93	90.34	51	10.2	
1SV15EC036	RAKSHA M V	13	14	27	15	13	28	14	13	27	2	2	2	2	10.6	10.6	10.6	10.6	25.6	36.6	30.6	27.6	88.28	91.72	90.34	95.17	53	10.6	
1SV15EC038	RAMYA M G	11	7	18	9	14	23	15	15	30	2	2	2	2	9.8	9.8	9.8	9.8	22.8	33.8	29.8	20.8	78.62	64.83	95.17	71.72	49	9.8	
1SV15EC039	RANITHA B M	14	11	25	8	14	22	15	15	30	2	2	2	2	11.0	11.0	11.0	11.0	27.0	37.0	24.0	24.0	95.17	84.83	71.72	74.48	58	11.0	
1SV15EC040	ROHITH P	12	12	24	14	14	28	15	15	30	2	2	2	2	10.8	10.8	10.8	10.8	24.8	34.8	24.8	26.8	85.52	85.52	74.48	92.41	54	10.8	
1SV15EC041	SAVITA HOSALLI	12	7	19	15	15	30	15	15	30	2	2	2	2	10	10	10	10	24	34	19	27	82.76	65.92	92.41	93.1	50	10	
1SV15EC042	SHALINI N	13	14	27	14	13	27	14	12	26	2	2	2	2	10.8	10.8	10.8	10.8	25.8	35.8	26.8	26.8	88.97	92.41	93.1	92.41	54	10.8	
1SV15EC043	SONA K R	13	11	24	13	15	28	15	15	30	2	2	2	2	9.2	9.2	9.2	9.2	26.2	32.2	37.2	24.2	90.34	76.55	92.41	83.45	46	9.2	
1SV15EC044	SOUMYA D H	13	14	27	14	12	26	15	15	30	2	2	2	2	10.8	10.8	10.8	10.8	25.8	35.8	26.8	26.8	88.97	92.41	83.45	92.41	54	10.8	
1SV15EC046	SUSHMA T N	12	8	20	5	13	18	15	15	30	2	2	2	2	9.6	9.6	9.6	9.6	23.6	33.6	31.6	16.6	81.38	84.83	57.24	40	43	9.6	
1SV15EC047	THOSHITHA	13	14	27	1	14	15	15	15	30	2	2	2	2	10.4	10.4	10.4	10.4	27.4	37.4	27.4	27.4	94.48	56.55	67.59	94.48	52	10.4	
1SV15EC051	VINAY S P	15	4	19	15	15	30	15	15	30	2	2	2	2	10.4	10.4	10.4	10.4	27.4	37.4	31.4	27.4	94.48	80.89	84.14	94.48	47	9.4	
1SV16EC400	ABDUL NAZEERSAB A KANAVALL	12	13	25	14	13	27	15	14	29	2	2	2	2	9.4	9.4	9.4	9.4	23.4	34.4	24.4	25.4	80.89	84.14	87.59	91.03	47	9.4	
1SV16EC401	ABHINAV K S	13	14	27	15	12	27	13	14	27	2	2	2	2	9.4	9.4	9.4	9.4	24.4	34.4	25.4	26.4	84.14	87.59	87.59	91.03	54	10.8	
1SV16EC403	BINDUSHREE G S	15	12	27	14	11	25	15	15	30	2	2	2	2	10.8	10.8	10.8	10.8	27.8	37.8	26.8	26.8	95.86	85.52	91.03	92.41	54	10.8	
1SV16EC404	CHIRANJEEVI K M	15	13	28	14	12	26	14	13	27	2	2	2	2	8.6	8.6	8.6	8.6	25.6	35.6	24.6	24.6	88.28	81.38	92.41	84.83	43	8.6	
1SV16EC407	MANJUNATH B YANNI	14	10	24	12	12	24	13	13	26	2	2	2	2	9.8	9.8	9.8	9.8	25.8	35.8	23.8	23.8	88.97	75.17	84.83	82.07	49	9.8	
1SV16EC408	MCHANKUMAR D	14	15	29	12	13	25	13	14	27	2	2	2	2	9.6	9.6	9.6	9.6	25.6	35.6	40.6	23.6	88.28	91.72	88.28	81.38	48	9.6	
1SV16EC410	NANDINI L	14	15	29	15	13	28	14	13	27	2	2	2	2	10.4	10.4	10.4	10.4	26.4	36.4	41.4	27.4	91.03	94.48	88.97	94.48	52	10.4	
1SV16EC411	POOJA A	12	5	17	15	13	28	15	15	30	2	2	2	2	7.8	7.8	7.8	7.8	21.8	31.8	26.8	26.8	75.17	51.03	92.41	85.52	39	7.8	
1SV16EC412	RAMYA N K	20	1	21	15	15	30	15	15	30	2	2	2	2	9.8	9.8	9.8	9.8	21.8	31.8	22.8	26.8	75.17	44.14	78.62	92.41	49	9.8	
1SV16EC413	RAMYASHREE M	13	8	21	14	14	28	15	15	30	2	2	2	2	11	11	11	11	26	31	34	27	89.66	72.41	91.72	93.1	55	11	
1SV16EC414	SOWNDARYA A	13	14	27	7	14	21	15	15	30	2	2	2	2	12.4	12.4	12.4	12.4	27.4	37.4	41.4	21.4	94.48	97.93	94.48	73.79	62	12.4	

87.67 99.7 86.55 85.32

S. Nagar

Faculty

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Dept of E&C
SIET, Tumkur-6

Principal

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PRINCIPAL
SIET., TUMAKURU.

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

DEPARTMENT OF ECE

CO-PO ATTAINMENT

ACADEMIC YEAR

2018-19

EVEN SEM



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



(COMMON TO ALL BRANCHES)
ACADEMIC YEAR: 2018-2019

SUBJECT: ENGINEERING MATHEMATICS -IV
SUBJECT CODE: 17MAT41/15MAT41

COURSE OUTCOMES:

CO1: Solve first and second order ordinary differential equation arising in flow problems using single step and multistep numerical methods.

CO2: Illustrate problems of potential theory, quantum mechanics and heat conduction by employing notions and properties of Bessel's functions and Legendre's polynomials.

CO3: Explain the concepts of analytic functions, residues, poles of complex potentials and describe conformal and Bilinear transformation arising in field theory and signal processing.

CO4: Develop probability distribution of discrete, continuous random variables and joint probability distribution occurring in digital signal processing, information theory and design engineering

CO5: Demonstrate testing of hypothesis of sampling distributions and illustrate examples of Markov chains related to discrete parameter stochastic process

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

MAPPING CORRELATION	LOW	MODERATELY	HIGHLY	NO
	1	2	3	0

SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY, TUMKUR-06

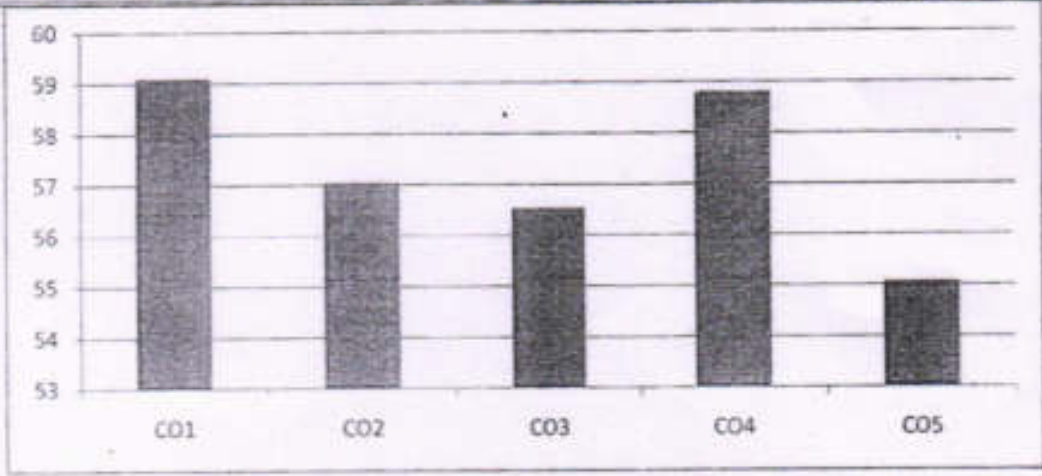
(An ISO 9001-2008 Certified Institution)

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	2018-19		
COURSE	B.E	SEMESTER	IV	SECTION	-
SUBJECT	ENGINEERING MATHEMATICS-IV		SUBJECT CODE	17MAT41	

CO & PO MAPPING													
	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	59	1.18	1.77	0	0	0	0	0	0	0	0	0	0.59
CO2	57	1.14	1.71	0	0	0	0	0	0	0	0	0	0.57
CO3	57	1.13	1.70	0	0	0	0	0	0	0	0	0	0.57
CO4	59	1.18	1.76	0	0	0	0	0	0	0	0	0	0.59
CO5	55	1.10	1.65	0	0	0	0	0	0	0	0	0	0.55
AVG	57	1	2	0	0	0	0	0	0	0	0	0	1
Final attainment level													1.93



[Signature]
Staff in-charge

[Signature]
HOD

[Signature]
Principal

[Signature]
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Manjunath

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Sl. No	SEM I					SEM II					SEM III					SEM IV					SEM V																					
	I YEAR (HARD)					II YEAR (HARD)					ASSIGNMENT (HARD/SEM)					SEE HARDWARE					Final Exam (STAIRMENT)					% of Individual CO																
	Att	Exp	Total	CO1	CO2	CO3	CO4	CO5	CO6	CO7	CO8	CO9	CO10	CO11	CO12	CO13	CO14	CO15	CO16	CO17	CO18	CO19	CO20	CO21	CO22	CO23	CO24	CO25	CO26	CO27	CO28	CO29	CO30	CO31	CO32	CO33	CO34	CO35				
15V15ME012	10	5	15	10	4	14	10	5	15	2	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	16.2	16.2	15.2	10.2	11.2	55.9	55.9	34.5	55.9	34.5	55.9	34.5	55.9	34.5	55.9	34.5	55.9					
15V15ME031	5	0	5	3	3	6	3	3	6	2	2	2	2	2	2	5.0	5.0	5.0	5.0	5.0	17.6	10.0	10.0	10.0	10.0	43.0	36.0	24.1	36.0	24.1	36.0	24.1	36.0	24.1	36.0	24.1	36.0					
15V15ME033	1	1	2	0	1	1	1	1	2	2	2	2	2	2	2	4.4	4.4	4.4	4.4	4.4	7.4	6.4	6.4	7.4	7.4	25.5	22.1	19.3	25.5	22.1	19.3	25.5	22.1	19.3	25.5	22.1	19.3	25.5				
15V15ME052	2	2	4	2	2	4	1	2	3	2	2	2	2	2	2	2.2	2.2	2.2	2.2	2.2	6.2	6.2	6.2	5.2	6.2	21.4	21.4	18.6	17.9	21.4	18.6	17.9	21.4	18.6	17.9	21.4	18.6	17.9	21.4			
15V15ME064	3	0	3	1	1	2	2	1	3	2	2	2	2	2	2	1.4	1.4	1.4	1.4	1.4	1.4	6.4	4.4	4.4	5.4	4.4	22.1	15.2	10.0	18.6	15.2	10.0	18.6	15.2	10.0	18.6	15.2	10.0	18.6			
15V15ME088	10	4	14	10	5	15	10	5	15	2	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	16.2	16.2	15.2	10.2	11.2	55.9	55.9	34.5	55.9	34.5	55.9	34.5	55.9	34.5	55.9	34.5	55.9	34.5	55.9			
15V17ME001	3	10	13	2	10	12	3	10	13	2	2	2	2	2	2	5.2	5.2	5.2	5.2	5.2	10.2	9.2	27.2	10.2	17.2	35.2	11.7	61.8	35.2	59.3	11.7	61.8	35.2	59.3	11.7	61.8	35.2	59.3	11.7	61.8		
15V17ME003	10	8	18	10	8	18	10	7	17	2	2	2	2	2	2	6.4	6.4	6.4	6.4	6.4	18.4	18.4	24.4	18.4	15.4	63.4	63.4	55.5	63.4	55.5	63.4	55.5	63.4	55.5	63.4	55.5	63.4	55.5	63.4			
15V17ME004	2	10	12	1	10	11	2	10	12	2	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	6.2	7.2	26.2	6.2	16.2	28.3	24.8	59.5	28.3	55.9	28.3	55.9	28.3	55.9	28.3	55.9	28.3	55.9	28.3	55.9		
15V17ME006	11	11	22	10	13	23	10	13	23	2	2	2	2	2	2	7.2	7.2	7.2	7.2	7.2	20.2	19.2	33.2	19.2	22.2	69.7	66.2	75.3	66.2	75.3	66.2	75.3	66.2	75.3	66.2	75.3	66.2	75.3	66.2	75.3		
15V17ME007	14	14	28	14	13	27	14	14	28	2	2	2	2	2	2	3	3	3	3	3	19	19	32	19	19	65.5	65.5	72.7	65.5	72.7	65.5	72.7	65.5	72.7	65.5	72.7	65.5	72.7	65.5	72.7		
15V17ME008	10	11	21	11	10	21	10	10	20	2	2	2	2	2	2	6.6	6.6	6.6	6.6	6.6	18.6	18.6	29.6	18.6	18.0	64.1	67.6	67.3	64.1	67.6	67.3	64.1	67.6	67.3	64.1	67.6	67.3	64.1	67.6			
15V17ME011	14	1	15	4	10	14	2	13	15	2	2	2	2	2	2	6.6	6.6	6.6	6.6	6.6	20.6	20.6	17.6	8.6	19.6	71.0	36.6	40.0	29.7	67.6	36.6	40.0	29.7	67.6	36.6	40.0	29.7	67.6	36.6	40.0	29.7	67.6
15V17ME012	4	4	8	5	4	9	4	5	9	2	2	2	2	2	2	0.6	0.6	0.6	0.6	0.6	6.6	7.6	10.6	6.6	7.6	22.8	26.2	24.1	22.8	26.2	24.1	22.8	26.2	24.1	22.8	26.2	24.1	22.8	26.2	24.1	22.8	
15V17ME013	14	15	29	14	14	28	15	14	28	2	2	2	2	2	2	7.8	7.8	7.8	7.8	7.8	23.8	23.8	36.8	24.8	23.8	82.1	82.1	88.2	82.1	88.2	82.1	88.2	82.1	88.2	82.1	88.2	82.1	88.2	82.1	88.2		
15V17ME014	7	8	15	8	7	15	7	7	14	2	2	2	2	2	2	6.6	6.6	6.6	6.6	6.6	15.6	16.6	23.6	15.6	15.6	53.8	57.2	53.4	53.8	57.2	53.4	53.8	57.2	53.4	53.8	57.2	53.4	53.8	57.2	53.4	53.8	
15V17ME015	10	10	20	10	11	21	11	10	21	2	2	2	2	2	2	6.2	6.2	6.2	6.2	6.2	18.2	18.2	29.2	19.2	18.2	62.8	62.8	66.4	62.8	66.4	62.8	66.4	62.8	66.4	62.8	66.4	62.8	66.4	62.8	66.4		
15V18ME400	5	4	9	4	4	8	3	4	8	2	2	2	2	2	2	0	0	0	0	0	7	6	10	7	6	24.1	20.7	22.7	24.1	20.7	22.7	24.1	20.7	22.7	24.1	20.7	22.7	24.1	20.7	22.7		
15V18ME401	7	7	14	7	7	14	12	1	13	2	2	2	2	2	2	0.8	0.8	0.8	0.8	0.8	9.4	8.4	16.4	14.4	3.4	32.4	32.4	37.3	49.7	11.7	31.7	25.5	28.3	31.7	25.5	28.3	31.7	25.5	28.3	31.7		
15V18ME404	5	4	9	5	3	8	4	5	9	2	2	2	2	2	2	2.2	2.2	2.2	2.2	2.2	9.2	9.2	11.2	8.2	9.2	31.7	31.7	25.5	28.3	31.7	25.5	28.3	31.7	25.5	28.3	31.7	25.5	28.3	31.7			
15V18ME407	8	2	10	10	1	11	1	10	11	2	2	2	2	2	2	0	0	0	0	0	10	12	5	3	12	34.5	41.4	11.4	10.3	41.4	11.4	10.3	41.4	11.4	10.3	41.4	11.4	10.3	41.4	11.4	10.3	41.4
15V18ME405	8	8	16	8	8	16	10	5	15	2	2	2	2	2	2	2.6	2.6	2.6	2.6	2.6	12.6	12.6	20.6	14.6	9.6	43.4	43.4	46.8	50.3	33.1	43.4	46.8	50.3	33.1	43.4	46.8	50.3	33.1	43.4	46.8		
15V18ME406	5	5	10	7	3	10	5	4	9	2	2	2	2	2	2	2.4	2.4	2.4	2.4	2.4	9.4	11.4	12.4	9.4	8.4	32.4	39.3	28.2	32.4	29.0	32.4	29.0	32.4	29.0	32.4	29.0	32.4	29.0	32.4	29.0	32.4	
15V18ME403	10	6	16	7	8	15	8	8	16	2	2	2	2	2	2	4.4	4.4	4.4	4.4	4.4	16.4	13.4	20.4	14.4	14.4	56.6	46.2	46.4	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7		
15V18ME408	10	6	16	6	10	16	6	7	15	2	2	2	2	2	2	3	3	3	3	3	15	11	21	13	12	53.7	37.9	47.7	44.8	41.4	47.7	44.8	41.4	47.7	44.8	41.4	47.7	44.8	41.4	47.7	44.8	41.4
15V17EC001	9	9	18	10	9	19	9	10	19	2	2	2	2	2	2	6.2	6.2	6.2	6.2	6.2	17.2	18.2	26.2	17.2	18.2	59.3	62.8	59.5	59.3	62.8	59.5	59.3	62.8	59.5	59.3	62.8	59.5	59.3	62.8			
15V17EC002	10	9	19	8	10	18	9	10	19	2	2	2	2	2	2	3	3	3	3	3	15	13	24	14	15	53.7	44.8	54.5	49.3	51.7	44.8	54.5	49.3	51.7	44.8	54.5	49.3	51.7	44.8	54.5	49.3	51.7
15V17EC003	13	13	26	12	13	25	15	11	26	2	2	2	2	2	2	9.4	9.4	9.4	9.4	9.4	24.4	21.4	37.4	26.4	27.4	64.1	60.7	85.0	91.0	77.2	60.7	85.0	91.0	77.2	60.7	85.0	91.0	77.2	60.7	85.0		
15V17EC004	12	15	27	15	12	27	13	13	26	2	2	2	2	2	2	8.4	8.4	8.4	8.4	8.4	22.4	25.4	37.4	23.4	23.4	77.2	87.6	85.0	80.7	80.7	87.6	85.0	80.7	80.7	87.6	85.0	80.7	80.7	87.6			
15V17EC005	9	9	18	9	10	19	8	11	19	2	2	2	2	2	2	3.4	3.4	3.4	3.4	3.4	14.4	14.4	24.4	13.4	16.4	49.7	49.7	55.5	48.2	56.6	49.7	55.5	48.2	56.6	49.7	55.5	48.2	56.6	49.7	55.5		
15V17EC006	10	10	20	15	5	20	9	10	19	2	2	2	2	2	2	7.8	7.8	7.8	7.8	7.8	19.8	24.8	34.8	18.8	19.8	68.3	85.5	56.4	64.8	68.3	85.5	56.4	64.8	68.3	85.5	56.4	64.8	68.3	85.5	56.4	64.8	
15V17EC007	15	6	21	15	10	25	16	10	26	2	2	2	2	2	2	10	10	10	10	10	20	27	28	20	22	93.1	91.1	61.6	96.6													

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	10	2	12	2	10	12	5	6	11	2	2	2	2	2	2	2.4	2.4	2.4	2.4	2.4	14.4	6.4	16.4	9.4	10.4	49.7	22.1	32.1	32.4	35.9
1SV17E009	7	10	17	9	7	16	15	2	17	2	2	2	2	2	2	6.4	6.4	6.4	6.4	6.4	19.4	17.4	25.4	23.4	10.4	53.1	60.0	57.7	80.7	35.5
1SV17E010	11	10	21	11	11	23	15	7	22	2	2	2	2	2	2	10.8	10.8	10.8	10.8	10.8	23.8	23.8	33.2	27.8	19.8	82.1	82.1	76.8	95.9	68.3
1SV17E011	10	7	12	3	10	12	10	1	11	2	2	2	2	2	2	6.2	6.2	6.2	6.2	6.2	18.2	18.2	20.8	18.2	9.8	64.8	37.2	47.2	64.8	33.8
1SV17E012	13	13	24	13	13	30	13	11	30	2	2	2	2	2	2	3.6	3.6	3.6	3.6	3.6	20.6	20.6	33.4	20.6	20.6	71.0	71.0	80.9	71.0	71.0
1SV18E001	6	6	12	7	6	13	6	7	13	2	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	12.2	11.2	18.2	12.2	11.2	42.1	45.5	43.4	42.1	45.5
1SV18E002	10	3	13	10	2	12	10	3	13	2	2	2	2	2	2	5.8	5.8	5.8	5.8	5.8	17.8	17.8	12.8	17.8	10.8	61.4	61.4	29.1	51.4	37.2
1SV18E003	10	9	19	9	10	19	8	10	18	2	2	2	2	2	2	3.4	3.4	3.4	3.4	3.4	15.4	14.4	24.4	13.4	15.4	53.1	49.7	55.5	40.2	53.1
1SV18E004	11	11	22	10	11	21	10	12	22	2	2	2	2	2	2	5.8	5.8	5.8	5.8	5.8	18.8	17.8	29.8	17.8	19.8	64.8	61.4	67.7	61.4	68.3
1SV17S001	15	15	30	15	15	30	15	15	30	2	2	2	2	2	2	9.8	9.8	9.8	9.8	9.8	26.8	26.8	42.8	26.8	26.8	92.4	92.4	95.0	92.4	92.4
1SV17S002	5	5	10	5	4	9	5	1	10	2	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	11.2	11.2	15.2	15.2	7.2	38.6	38.6	34.5	52.4	24.5
1SV17S003	6	4	10	5	6	11		10	1	2	2	2	2	2	2	1.6	1.6	1.6	1.6	1.6	9.6	8.6	13.6	3.6	13.6	33.1	29.7	30.9	12.4	46.9
1SV17S004	15	14	29	14	15	29	14	14	28	2	2	2	2	2	2	1.8	1.8	1.8	1.8	1.8	18.8	17.8	32.8	17.8	17.8	64.8	61.4	74.5	51.4	61.4
1SV17CS001	10	8	18	7	10	17	8	10	18	2	2	2	2	2	2	7	7	7	7	7	19	16	27	17	19	63.5	55.2	63.4	60.0	47.8
1SV17CS002	8	8	16	10	5	16	10	5	15	2	2	2	2	2	2	5.4	5.4	5.4	5.4	5.4	15.4	17.4	20.4	17.4	12.4	53.2	60.0	46.4	60.0	47.8
1SV17CS003	13	15	10	13	15	10	13	15	10	2	2	2	2	2	2	7.8	7.8	7.8	7.8	7.8	24.8	24.8	39.8	24.8	24.8	85.5	85.5	90.5	85.5	85.5
1SV17CS004	14	14	28	14	13	27	11	13	28	2	2	2	2	2	2	8.2	8.2	8.2	8.2	8.2	24.2	24.2	37.2	25.2	23.2	83.4	81.4	88.5	86.5	80.0
1SV17CS005	10	3	13	4	10	14	11	3	14	2	2	2	2	2	2	3	3	3	3	3	15	9	16	16	8	51.7	31.0	40.9	55.2	27.6
1SV17CS006	15	15	30	15	15	30	15	15	30	2	2	2	2	2	2	8.8	8.8	8.8	8.8	8.8	25.8	25.8	40.8	25.8	25.8	89.0	89.0	92.7	89.0	89.0
1SV17CS008	10	2	12	5	6	11	8	4	12	2	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	16.2	11.2	14.2	14.2	10.2	55.9	38.6	32.3	49.0	35.2
1SV17CS009	3	12	25	12	13	25	12	12	24	2	2	2	2	2	2	5.4	5.4	5.4	5.4	5.4	20.4	19.4	32.4	19.4	19.4	70.1	66.9	73.6	66.9	66.9
1SV17CS011	10	2	12	10	1	11	10	2	12	2	2	2	2	2	2	1	1	1	1	1	13	13	6	13	5	44.8	44.8	13.8	44.8	17.2
1SV17CS012	14	13	27	14	14	28	15	13	28	2	2	2	2	2	2	8.4	8.4	8.4	8.4	8.4	24.4	24.4	37.4	23.4	23.4	84.1	84.1	85.0	87.6	80.7
1SV17CS013	15	3	28	15	12	27	14	14	28	2	2	2	2	2	2	9.2	9.2	9.2	9.2	9.2	26.2	26.2	36.2	25.2	25.2	90.3	90.3	59.5	96.9	86.9
1SV17CS014	15	2	17	2	15	17	15	1	16	2	2	2	2	2	2	7.2	7.2	7.2	7.2	7.2	24.2	11.2	26.2	24.2	10.2	83.4	38.6	59.5	83.4	35.2
1SV17CS015	5	4	9	4	4	8	3	4	9	2	2	2	2	2	2	0.4	0.4	0.4	0.4	0.4	7.4	6.4	10.4	7.4	6.4	25.5	22.1	23.0	25.5	27.1
1SV17CS016	13	12	25	13	13	26	13	13	26	2	2	2	2	2	2	8.2	8.2	8.2	8.2	8.2	23.2	23.2	35.2	23.2	23.2	80.0	80.0	80.0	80.0	80.0
1SV17CS017	14	14	28	13	14	27	14	14	28	2	2	2	2	2	2	6.4	6.4	6.4	6.4	6.4	22.4	21.4	36.4	22.4	22.4	77.2	73.8	82.7	77.2	77.2
1SV17CS019	13	13	26	13	13	26	13	12	25	2	2	2	2	2	2	4.8	4.8	4.8	4.8	4.8	19.8	19.8	12.8	19.8	19.8	68.3	68.3	74.5	68.3	64.8
1SV17CS020	10	10	20	15	4	19	10	10	20	2	2	2	2	2	2	8.2	8.2	8.2	8.2	8.2	20.2	25.2	24.2	20.2	20.2	69.7	86.9	55.0	69.7	69.7
1SV17CS021	25	13	28	15	12	27	14	14	28	2	2	2	2	2	2	10.2	10.2	10.2	10.2	10.2	27.2	27.2	37.2	26.2	26.2	93.8	93.8	84.5	90.3	90.3
1SV17CS023	13	14	27	13	15	28	15	13	28	2	2	2	2	2	2	5	5	5	5	5	20	20	36	22	20	69.0	69.0	81.8	75.9	69.0
1SV17CS024	8	5	11	6	6	12	10	7	12	2	2	2	2	2	2	0	0	0	0	0	8	8	13	12	4	27.6	27.6	29.5	41.4	13.8
1SV17CS025	15	15	30	15	15	30	15	15	30	2	2	2	2	2	2	8.6	8.6	8.6	8.6	8.6	25.6	25.6	40.6	25.6	25.6	88.3	88.3	92.1	88.3	88.3
1SV17CS026	4	10	14	3	10	13	11	3	14	2	2	2	2	2	2	6	6	6	6	6	22	11	28	19	11	41.4	37.9	63.6	65.5	37.9
1SV17CS029	15	7	22	11	11	22	15	6	21	2	2	2	2	2	2	8	8	8	8	8	25	21	28	25	16	86.2	72.4	83.6	86.2	55.2
1SV17CS030	10	10	20	9	10	19	15	5	20	2	2	2	2	2	2	5.8	5.8	5.8	5.8	5.8	17.8	16.8	27.8	22.8	12.8	60.7	57.2	62.7	77.9	43.4
1SV17CS031	15	1	16	15	2	17	15	2	17	2	2	2	2	2	2	4.6	4.6	4.6	4.6	4.6	21.6	21.6	9.6	21.6	8.6	74.5	74.5	21.8	74.5	29.7
1SV17CS032	5	3	8	4	5	9	5	4	9	2	2	2	2	2	2	2.8	2.8	2.8	2.8	2.8	9.8	8.8	12.8	9.8	8.8	33.8	30.3	29.1	33.8	30.3
1SV17CS033	7	8	15	8	8	16	8	8	16	2	2	2	2	2	2	0	0	0	0	0	9	10	18	10	10	31.0	34.5	40.9	34.5	34.5
1SV17CS035	10	8	18	9	10	19	9	10	19	2	2	2	2	2	2	6.4	6.4	6.4	6.4	6.4	18.4	17.4	28.4	17.4	18.4	63.4	60.0	60.0	60.0	63.4
1SV17CS036	5	4	9	5	5	10	8	2	10	2	2	2	2	2	2	3.6	3.6	3.6	3.6	3.6	10.6	10.6	14.6	13.6	7.6	36.6	36.6	33.3	45.9	26.2
1SV17CS037	7	8	15	8	8	16	10	6	16	2	2	2	2	2	2	5.2	5.2	5.2	5.2	5.2	14.2	15.2	23.2	17.2	13.2	49.0	52.4	52.7	59.3	45.5
1SV17CS038	13	0	15	1	13	16	15	1	16	2	2	2	2	2	2	8.4	6.4	6.4	6.4	6.4	23.4	9.4	23.4	23.4	9.4	60.7	32.4	53.2	80.7	32.4
1SV17CS039	5	4	9	5	5	10	5	5	10	2	2	2	2	2	2	6.2	6.2	6.2	6.2	6.2	13.2	13.2	17.2	13.2	13.2	45.5	45.5	3		

15V17CV006	10	11	23	12	12	24	12	12	24	2	2	2	2	2	9	9	9	9	9	21	23	34	23	23	72.4	78.3	81.8	79.3	79.3
15V17CV007	12	10	22	11	10	21	11	11	22	2	2	2	2	2	7.2	7.2	7.2	7.2	7.2	21.2	20.2	29.2	20.2	20.2	73.1	69.7	68.4	69.7	69.7
15V17CV008	5	5	10	6	3	9	5	5	10	2	2	2	2	2	3.4	3.4	3.4	3.4	3.4	10.4	11.4	13.4	10.4	10.4	35.0	39.3	30.5	35.9	35.9
15V17CV010	3	6	9	4	4	8	3	6	9	2	2	2	2	2	1.5	1.5	1.5	1.5	1.5	4.5	7.8	13.6	6.5	9.8	22.8	26.2	30.9	22.8	33.1
15V17CV011	6	3	9	4	4	8	6	3	9	2	2	2	2	2	1.8	1.6	1.6	1.6	1.6	9.6	7.6	10.6	9.6	6.4	11.1	26.2	24.1	33.1	22.8
15V17CV012	9	10	19	8	10	18	9	10	19	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	13.2	14.2	16.2	16.2	16.2	57.4	49.0	59.5	52.4	55.9
15V17CV013	8	3	9	4	4	8	6	3	9	2	2	2	2	2	1	1	1	1	1	9	7	10	9	8	11.0	24.1	22.2	31.0	20.7
15V17CV014	1	6	9	4	4	8	3	6	9	2	2	2	2	2	1	1	1	1	1	6	7	13	8	9	20.7	24.1	29.5	20.7	31.0
15V17CV015	10	11	21	10	10	20	10	11	21	2	2	2	2	2	5.8	5.8	5.8	5.8	5.8	17.8	17.8	19.8	17.8	18.8	61.4	61.4	65.5	61.4	64.8
15V17CV016	10	10	20	9	10	19	10	10	20	2	2	2	2	2	8	8	8	8	8	20	13	30	20	20	69.0	65.5	68.2	69.0	69.0
15V17CV017	15	10	29	14	14	28	14	15	29	2	2	2	2	2	8	8	8	8	8	25	24	38	24	25	86.2	82.8	86.4	82.8	86.2
15V17CV018	15	10	25	14	14	24	15	15	25	2	2	2	2	2	6.8	6.8	6.8	6.8	6.8	23.8	22.8	32.8	18.8	23.8	81.4	77.9	74.1	64.1	81.4
15V17CV019	14	14	28	14	14	27	14	14	28	2	2	2	2	2	6.6	6.6	6.6	6.6	6.6	24.6	24.6	17.6	24.6	24.6	84.8	84.8	85.5	84.8	84.8
15V17CV021	15	15	30	15	15	30	15	15	30	2	2	2	2	2	10.2	10.2	10.2	10.2	10.2	27.2	27.2	27.2	27.2	27.2	93.8	93.8	95.9	93.8	93.8
15V17CV022	11	11	22	10	11	21	10	12	22	2	2	2	2	2	5.8	5.8	5.8	5.8	5.8	18.8	17.8	21.8	17.8	19.8	64.0	61.4	67.7	61.4	68.2
15V17CV023	12	11	22	11	10	21	12	10	22	2	2	2	2	2	5.8	5.8	5.8	5.8	5.8	18.8	18.8	28.8	19.8	17.8	64.0	64.0	65.5	68.2	61.4
15V17CV024	12	12	24	12	12	24	10	13	24	2	2	2	2	2	10	10	10	10	10	24	24	36	27	25	82.8	82.8	81.8	75.0	86.2
15V17CV025	14	14	24	14	14	24	13	10	24	2	2	2	2	2	10	10	10	10	10	26	26	40	25	22	89.7	89.7	90.5	86.2	75.9
15V17CV026	15	15	30	15	15	30	15	15	30	2	2	2	2	2	10	10	10	10	10	27	27	42	27	27	93.1	93.1	95.5	93.1	93.1
15V17CV027	10	9	19	9	10	19	8	10	18	2	2	2	2	2	6.8	6.8	6.8	6.8	6.8	18.8	17.8	27.8	18.8	18.8	64.8	61.4	63.2	57.9	64.8
15V18CV000	10	11	21	10	11	21	10	10	20	2	2	2	2	2	4.6	4.6	4.6	4.6	4.6	16.6	16.6	28.6	16.6	16.6	57.2	57.2	65.0	57.2	57.2
15V18CV001	6	6	12	6	6	12	6	5	11	2	2	2	2	2	4.6	4.6	4.6	4.6	4.6	12.6	12.6	18.6	12.6	11.6	43.4	43.4	42.3	43.4	40.0
15V18CV002	10	15	25	10	11	25	14	10	24	2	2	2	2	2	5.2	5.2	5.2	5.2	5.2	17.2	17.2	17.2	21.2	17.2	55.3	55.3	64.5	73.1	59.3
15V18CV003	15	10	25	15	10	25	10	14	24	2	2	2	2	2	5.2	5.2	5.2	5.2	5.2	22.2	22.2	27.2	17.2	21.2	76.6	76.6	61.8	59.3	73.1
15V18CV004	6	6	12	6	6	12	5	5	11	2	2	2	2	2	4.6	4.6	4.6	4.6	4.6	12.6	12.6	18.6	11.6	12.6	43.4	43.4	42.3	40.0	43.4
15V18CV005	4	10	14	4	10	14	3	13	13	2	2	2	2	2	5.2	5.2	5.2	5.2	5.2	11.2	11.2	17.2	10.2	17.2	35.6	38.0	61.8	35.2	59.3
15V18CV006	10	13	23	10	13	23	10	12	22	2	2	2	2	2	4.4	4.4	4.4	4.4	4.4	16.4	16.4	22.4	16.4	18.4	56.6	56.6	73.6	56.6	63.4
15V18CV007	17	10	22	12	10	22	11	10	21	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	18.2	18.2	26.2	17.2	16.2	62.8	62.8	59.5	59.3	35.9
15V18CV008	13	4	14	10	4	14	10	3	13	2	2	2	2	2	5.2	5.2	5.2	5.2	5.2	17.2	17.2	15.2	17.2	10.2	59.3	59.3	34.5	59.3	35.2
15V18CV009	3	10	14	4	10	14	3	10	13	2	2	2	2	2	5.2	5.2	5.2	5.2	5.2	11.2	11.2	27.2	10.2	17.2	38.6	38.6	61.8	38.2	59.3
15V18CV010	3	2	5	2	3	5	0	4	4	2	2	2	2	2	1.8	1.8	1.8	1.8	1.8	6.8	5.8	8.8	3.8	7.8	23.4	20.0	20.0	13.1	26.9
15V18CV011	8	10	18	8	10	18	7	10	17	2	2	2	2	2	5.6	5.6	5.6	5.6	5.6	15.6	15.6	27.6	14.6	17.6	53.8	53.8	62.7	50.3	60.7
15V18CV012	10	8	18	10	8	18	10	7	17	2	2	2	2	2	5.6	5.6	5.6	5.6	5.6	17.6	17.6	23.6	17.6	14.6	60.7	60.7	53.6	60.7	50.3
15V18CV013	11	11	22	11	11	22	11	10	21	2	2	2	2	2	5.2	5.2	5.2	5.2	5.2	18.2	18.2	29.2	18.2	17.2	62.8	62.8	66.4	62.8	59.3
15V18CV014	6	3	9	6	3	9	4	4	8	2	2	2	2	2	3.4	3.4	3.4	3.4	3.4	11.4	11.4	11.4	9.4	9.4	39.3	39.3	25.9	32.4	32.4
15V18CV015	6	5	11	5	6	11	5	5	10	2	2	2	2	2	2.2	2.2	2.2	2.2	2.2	10.2	9.2	15.2	9.2	9.2	35.2	31.7	34.5	31.7	31.7
15V18CV016	10	12	22	10	12	22	10	11	21	2	2	2	2	2	6.2	6.2	6.2	6.2	6.2	18.2	18.2	32.2	18.2	19.2	62.8	62.8	71.2	62.8	66.2
15V18CV017	11	11	22	11	11	22	11	10	21	2	2	2	2	2	6.2	6.2	6.2	6.2	6.2	19.2	19.2	30.2	19.2	18.2	66.2	66.2	68.6	66.2	62.8
15V18CV018	14	13	27	13	14	27	13	13	26	2	2	2	2	2	7.8	7.8	7.8	7.8	7.8	23.8	22.8	36.8	22.8	22.8	82.1	78.6	81.6	78.6	78.6
15V18CV019	14	13	27	13	14	27	13	13	26	2	2	2	2	2	7.8	7.8	7.8	7.8	7.8	23.8	22.8	36.8	22.8	22.8	82.1	78.6	81.6	78.6	78.6

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

2017 Scheme
Semester-IV

Subject: SIGNALS AND SYSTEMS **Subject Code:** 17EC42
Academic year: 2018-19

Course Outcomes

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

CO-PO Mapping

COs	Pos											
	1	2	3	4	5	6	7	8	9	10	11	12
CO1	2	2	1	1	2					1		1
CO2	2	2	2	2	1					1		1
CO3	2	2	2	2	2					2		1
CO4	2	2	2	2	1					1		2
CO5	2	2	2	2	2					1		1
Average	2	2	1.8	1.8	1.6					1		1.2

ATTAINMENT TABLE

COs	AVG	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	63.34%	1.26	1.26	0.63	0.63	0.63					0.63		0.63
CO2	71.53%	1.43	1.43	1.43	1.43	0.71					0.71		0.71
CO3	62.79%	1.25	1.25	1.25	1.25	1.25					1.25		0.62
CO4	61.52%	1.23	1.23	1.23	1.23	0.61					0.61		1.23
CO5	59.89%	1.19	1.19	1.19	1.19	1.19					0.59		0.59
AVERAGE		1.3	1.3	1.15	1.15	0.88					0.76		0.75
TOTAL ATTAINMENT													1.04

Adarsh
COURSE INSTRUCTOR

AS
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Dep. HOD, E&C
SIFT Tumkur-6

Principals
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SIFT, TUMKURU



SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

ACADEMIC YEAR 2018-19

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

2017 Scheme

Semester-IV

Subject: LIC	Subject Code: 17EC45
FACULTY NAME: PROF: PRABITHA D K	

Course Outcomes

CO1	Explain Op-Amp circuit and parameters including CMRR, PSRR, Input & Output Impedances and Slew Rate.
CO2	Design Op-Amp based Inverting, Non-inverting, Summing & Difference Amplifier, and AC Amplifiers including Voltage Follower
CO3	Test circuits of Op-Amp based Voltage/ Current Sources & Sinks, Current, Instrumentation and Precision Amplifiers.
CO4	Test circuits of Op-Amp based linear and non-linear circuits comprising of limiting, clamping, Sample & Hold, Differentiator/ Integrator Circuits, Peak Detectors, Oscillators and Multiplier & Divider.
CO5	Design first & second order Low Pass, High Pass, Band Pass, Band Stop Filters and Voltage Regulators using Op-Amps.

CO-PO Mapping

COs	Pos											
	1	2	3	4	5	6	7	8	9	10	11	12
CO1	2	2	1	1	2					1		1
CO2	2	2	2	2	1					1		1
CO3	2	2	2	2	2					2		1
CO4	2	2	2	2	1					1		2
CO5	2	2	2	2	2					1		1
Average	2	2	1.8	1.8	1.6					1		1.2

ATTAINMENT TABLE

COs	AVG	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	63.34%	1.26	1.26	0.63	0.63	0.63					0.63		0.63
CO2	71.53%	1.43	1.43	1.43	1.43	0.71					0.71		0.71
CO3	62.79%	1.25	1.25	1.25	1.25	1.25					1.25		0.62
CO4	61.52%	1.23	1.23	1.23	1.23	0.61					0.61		1.23
CO5	59.89%	1.19	1.19	1.19	1.19	1.19					0.59		0.59
AVERAGE		1.3	1.3	1.15	1.15	0.88					0.76		0.75
TOTAL ATTAINMENT													1.04

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Roll No.	USN	Name	CHECKS			2018-2019 EVEN						SEM-IV SEM					Subj	LIC	SEE					SEE MARKS					Final					TOTAL AVERAGE		
			T1(30)	T2(30)	T3(30)	T1	T2	T3	CO1-18	CO2-18	CO3-18	CO4-18	CO5-18	CO1-2	CO2-2	CO3-2			CO4-2	CO5-2	60	CO1-12	CO2-12	CO3-12	CO4-12	CO5-12	CO1-29	CO2-29	CO3-29	CO4-29	CO5-29					
1	18V12C002	VIJESH K NAGARAJ	21	24	14	12	8	12	11	10	4	2	2	2	2	2	30	5	5	5	5	5	17	30	19	28	22	19.3								
2	18V12C004	SHRUTHI Y K	28	28	25	18	13	15	11	12	10	2	2	2	2	2	37	7.4	7.4	7.4	7.4	7.4	22.4	27.6	22.4	24.4	19.4	22								
3	18V12C006	ARFA KATIRAJ	17	30	13	11	8	15	15	7	8	2	2	2	2	2	30	5	5	5	5	5	14	29	25	23	14	21.9								
4	18V12C008	AMITHA V	11	23	4	8	3	15	9	2	4	2	2	2	2	2	22	4.4	4.4	4.4	4.4	4.4	9.4	24.4	14.4	6.4	10.4	18								
5	18V12C009	DANIEL S	26	30	27	18	15	15	15	15	10	2	2	2	2	2	38	7.6	7.6	7.6	7.6	7.6	24.8	29.8	24.8	24.8	21.8	20.1								
6	18V12C004	GEETHA M S	27	27	27	13	14	15	12	12	15	2	2	2	2	2	37	7.4	7.4	7.4	7.4	7.4	25.4	28.4	21.4	21.4	24.4	26.5								
7	18V12C004	DEEPIKA H	23	19	15	10	13	13	8	8	9	2	2	2	2	2	29	5.8	5.8	5.8	5.8	5.8	20.8	23.8	13.8	19.8	16.8	22.8								
8	18V12C006	ADYAI MURARI	20	24	22	10	10	13	11	13	9	2	2	2	2	2	32	6.4	6.4	6.4	6.4	6.4	18.4	21.4	18.4	21.4	17.4	20.7								
9	18V12C007	REKA NAWAZ	27	30	26	14	13	15	15	12	13	2	2	2	2	2	38	7.6	7.6	7.6	7.6	7.6	22.6	27.6	24.6	22.6	22.6	23.8								
10	18V12C008	ANHA H	21	18	11	11	10	10	8	2	8	2	2	2	2	2	27	5.4	5.4	5.4	5.4	5.4	17.4	22.4	13.4	9.4	16.4	21.4								
11	18V12C009	SHIBATHI NAWAZ	28	24	30	15	13	15	9	15	15	2	2	2	2	2	35	7.0	7.0	7.0	7.0	7.0	22.0	27.0	18.0	24.0	24.0	21.4								
12	18V12C005	SADESH K L	18	18	12	11	7	10	8	8	8	2	2	2	2	2	25	5	5	5	5	5	14	24	13	13	13	20.5								
13	18V12C004	BEKA K H	20	18	21	13	7	10	8	13	8	2	2	2	2	2	30	6	6	6	6	6	15	25	18	21	18	21								
14	18V12C004	SAHANA G R	20	18	11	11	8	8	10	5	5	2	2	2	2	2	27	5.4	5.4	5.4	5.4	5.4	16.4	21.4	17.4	13.4	12.4	17.8								
15	18V12C005	SAVEENKESHU	13	21	18	5	8	14	7	9	8	2	2	2	2	2	28	5.6	5.6	5.6	5.6	5.6	18.6	23.6	14.6	16.6	16.6	17.8								
16	18V12C006	HEJAMINI D	14	16	13	8	6	15	3	5	8	2	2	2	2	2	25	5	5	5	5	5	13	28	10	12	13	16.9								
17	18V12C009	DEVASHREE H	21	22	18	12	9	13	6	8	10	2	2	2	2	2	31	6.2	6.2	6.2	6.2	6.2	17.2	20.2	17.2	16.2	18.2	17.5								
18	18V12C005	HIMA K P	25	14	24	11	14	14	10	12	12	2	2	2	2	2	35	7	7	7	7	7	23	27	19	21	21	22								
19	18V12C005	LAKSHYA CH	24	27	21	11	13	12	15	15	9	2	2	2	2	2	35	7	7	7	7	7	22	24	24	24	18	24.3								
																											18.30842	21.47268	18.21053	17.84211	17.36842					
																											63.34%	71.53%	62.70%	61.52%	59.80%					

Dr. Vidya
COURSE INSTRUCTOR

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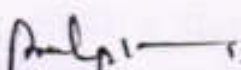
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SIET, TUMAKURU.

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	PROF. PRADEEPKUMAR S S											
BRANCH	ECE			ACADEMIC YEAR				2018-19				
COURSE	B.E	SEMESTER		IV	SECTION			ECE				
SUBJECT	MICRO PROCESSOR					SUBJECT CODE			17EC46			
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


SUBJECT CO-ORDINATOR


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PRINCIPAL

**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

SUBJECT	MICRO PROCESSOR	SUBJECT CODE	17EC46
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COURSE OUTCOME

CO1. Analyze the different types of signals and systems.

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

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

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

CO5. • Explain the signals and systems

PROGRAM OUTCOMES

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

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

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

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

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

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

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

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

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

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

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

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

Roll No	UEN	Name	2018-2019 EVEN																							TOTAL AVERAGE																
			SEM IV MM					SEM V MM					SEM VI MM					SEM VII MM					Final																			
			T1	T2	T3	CO1-18	CO2-18	CO3-18	CO4-18	CO5-18	CO1-19	CO2-19	CO3-19	CO4-19	CO5-19	CO1-20	CO2-20	CO3-20	CO4-20	CO5-20																						
1	INSTRUC	RITHVI KUMAR U M	23	25	26	10	12	10	18	12	18	2	3	2	2	2	28	3.0	3.8	3.8	3.8	3.8	20.8	36.9	22.8	20.8	22.8	23.8														
2	INSTRUC	RUSHIYA Y K	26	22	28	15	11	12	8	13	10	2	2	2	2	2	27	3.4	3.4	3.4	3.4	3.4	18.4	31.4	16.4	20.4	22.4	22.1														
3	INSTRUC	ARNA PATRANIA	12	30	20	10	2	10	10	12	14	2	3	2	2	2	27	3.4	3.4	3.4	3.4	3.4	9.4	24.4	22.4	19.4	21.4	20.8														
4	INSTRUC	ANVISHA K	14	10	27	7	7	6	12	12	10	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	13.2	19.2	18.2	18.2	11.2	18.8														
5	INSTRUC	SHRUTI S	38	26	30	13	18	14	15	16	16	2	2	2	2	2	27	3.4	3.4	3.4	3.4	3.4	22.4	36.4	22.4	22.4	22.4	21.7														
6	INSTRUC	LEKSHA M E	16	27	30	12	7	12	16	16	16	2	2	2	2	2	32	3.4	3.4	3.4	3.4	3.4	15.4	27.4	25.4	23.4	25.4	23.9														
7	INSTRUC	ITHRESHIKA H	13	8	23	6	7	7	1	11	12	2	2	2	2	2	18	3.2	3.2	3.2	3.2	3.2	12.2	18.2	9.2	16.2	17.2	18.8														
8	INSTRUC	SEETALDEWAN	19	27	27	10	8	16	12	14	13	2	2	2	2	2	11	3.2	2.2	2.2	2.2	2.2	13.2	18.2	16.2	18.2	17.2	18.8														
9	INSTRUC	SHIVA NARAY	13	38	30	12	3	10	10	16	15	2	2	2	2	2	22	7.8	4.4	4.4	4.4	4.4	12.8	24.8	21.8	21.8	21.8	28.4														
10	INSTRUC	SRINI H	6	17	30	6	3	7	10	18	18	2	2	2	2	2	32	3.4	3.4	3.4	3.4	3.4	11.4	18.4	18.4	21.4	21.4	19.42														
11	INSTRUC	SRINATH NARAY	24	38	25	13	11	10	16	10	18	2	2	2	2	2	22	4.4	4.4	4.4	4.4	4.4	17.4	32.4	21.4	21.4	21.4	19.62														
12	INSTRUC	SAKSHI K L	14	10	20	7	7	8	11	15	8	2	2	2	2	2	29	3.8	3.8	3.8	3.8	3.8	14.8	22.8	18.8	22.8	12.8	20.9														
13	INSTRUC	SHRUTI B N	17	22	26	10	7	7	10	11	16	2	2	2	2	2	28	3.2	3.2	3.2	3.2	3.2	14.2	21.2	22.2	18.2	22.2	20.8														
14	INSTRUC	SAHANA C P	7	21	30	7	9	16	8	15	15	2	2	2	2	2	28	3.2	3.2	3.2	3.2	3.2	14.2	21.2	22.2	18.2	22.2	19														
15	INSTRUC	SHYAMKUNDA	14	24	28	7	7	7	18	18	14	2	2	2	2	2	27	3.4	3.4	3.4	3.4	3.4	14.4	21.4	23.4	22.4	22.4	18.8														
16	INSTRUC	TEJASWINI D	7	19	30	7	8	10	9	16	16	2	2	2	2	2	11	2.2	2.2	2.2	2.2	2.2	4.2	14.2	13.2	18.2	18.2	18.1														
17	INSTRUC	SHYAMSHREE S	18	32	30	9	9	15	15	18	18	2	2	2	2	2	16	3.2	3.2	3.2	3.2	3.2	14.2	29.2	20.2	20.2	20.2	17.1														
18	INSTRUC	SHRUTI K P	19	28	28	10	4	12	15	15	14	2	2	2	2	2	14	2.8	2.8	2.8	2.8	2.8	6.8	21.8	19.8	19.8	18.8	17.4														
19	INSTRUC	SHRUTI A C H	28	28	30	18	13	14	14	15	18	2	2	2	2	2	20	3	3	3	3	3	20	34	21	22	22	20.8														
																							13.9884	25.04211	18.97995	20.60318	20.71578															
																							48.08%	57.37%	65.44%	71.25%	71.43%															


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

2015 Scheme ACADEMIC YEAR- 2018-19

Semester-VI

Subject: DIGITAL COMMUNICATION		Code: 15EC61											
Faculty Name : Prof.Haripriya													
CO1	Associate and apply the concepts of Bandpass sampling to well specified signals and channels.												
CO2	Analyze and compute performance parameters and transfer rates for low pass and bandpass symbol under ideal and corrupted non band limited channels.												
CO3	Test and validate symbol processing and performance parameters at the receiver under ideal and corrupted bandlimited channels.												
CO4	Demonstrate that bandpass signals subjected to corruption and distortion in a bandlimited channel can be processed at the receiver to meet specified performance criteria.												
CO5	Understand the principles of spread spectrum communications.												
COs	Pos												
	1	2	3	4	5	6	7	8	9	10	11	12	
CO1	3	2	1										
CO2	3	2	2										
CO3	3	2	2										
CO4	3	2	2										
CO5	3	2	2										
Average	2	2	1.8										

ATTAINMENT TABLE													
COs	AVG	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	75.06%	2.25	1.50	0.75									
CO2	77.35%	2.32	1.54	1.54									
CO3	28.58%	0.85	0.57	0.57									
CO4	38.37%	1.15	0.76	0.76									
CO5	34.80%	0.34	0.696	0.69									
AVERAGE		1.38	1.01	0.86									
TOTAL ATTAINMENT													1.083


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Roll No.	SEM	Name	SEM I					SEM II					SEM III					SEM IV	SEM V					Final	TOTAL AVERAGE		
			T1	T2	T3	CO1-14	CO2-7	CO3-4	CO4-4	CO5-7	CO1-7	CO2-7	CO3-7	CO4-7	CO5-7	CO1-14	CO2-14		CO3-14	CO4-14	CO5-14	CO1-21	CO2-21			CO3-21	CO4-21
1	19V14EC019	RAMYA K	10	9	12	25	10	10	16	15	1	1	1	1	1	55	11	4	4	4	4	37	15	15	23	20	22
2	19V14EC019	RASHMIDHARAN H	12	10	14	24	5	5	12	8	1	1	1	1	1	48	9.8	9.8	9.8	9.8	9.8	34.8	15.8	15.8	25.8	18.8	22
3	19V14EC019	ARUN C C	9	12	12	15	10	10	12	13	1	1	1	1	1	45	9	9	9	9	9	25	20	20	25	23	22.8
4	19V14EC019	BHAVANAN	10	14	10	14	9	9	15	15	1	1	1	1	1	10.4	4.6	4.6	4.6	4.6	4.6	19.6	14.6	14.6	23.6	20.6	18.8
5	19V14EC019	AGANARAJ	15	12	14	13	10	10	11	12	1	1	1	1	1	30	6	6	6	6	6	20	17	17	21	19	18.8
6	19V14EC019	KAVYAS	10	15	12	10	11	12	10	8	1	1	1	1	1	45	9	9	9	9	9	20	21	22	23	18	20.8
7	19V14EC019	NEELAVESHA	9	10	11	9	7	8	14	14	1	1	1	1	1	48	9.6	9.6	9.6	9.6	9.6	19.6	17.6	18.6	27.6	24.6	21.8
8	19V14EC019	RAGHUBALAKR	12	12	10	14	10	15	15	15	1	1	1	1	1	45	9	9	9	9	9	24	20	25	28	25	24.4
9	19V14EC019	USHA Y M	10	10	8	14	5	5	10	10	1	1	1	1	1	48	9.8	9.8	9.8	9.8	9.8	24.8	15.8	15.8	23.8	20.8	20.2
10	19V14EC019	VISHWAS P	12	8	7	0	10	5	12	13	1	1	1	1	1	60	12	12	12	12	12	13	23	18	28	26	21.6
11	19V14EC019	ANUSHA T P	10	14	13	14	12	13	14	14	1	1	1	1	1	58	11.6	11.6	11.6	11.6	11.6	26.6	24.6	25.6	29.6	26.6	26.8
																						34.018	18.564	7.3448	9.5981	8.3517	


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

2015 Scheme ACADEMIC YEAR- 2018-19

Semester-VI

Subject: ARM MICROCONTROLLER & EMBEDDED SYSTEMS		Code: 15EC62											
Faculty Name : Prof.Raghavendra D													
CO1	Be familiar with the composition, design, and implementation of embedded systems,												
CO2	Be familiar with both medium level and high level languages appropriate for embedded systems development techniques (e.g., C and Python)												
CO3	Be familiar with reading and understanding processor and component datasheets												
CO4	Be familiar with driving use contexts, including human-computer interaction, environment sensing and actuation, etc.,												
CO5	Be familiar with the basics of interfacing hardware and software,												
COs	Pos												
	1	2	3	4	5	6	7	8	9	10	11	12	
CO1	3	2	1										
CO2	3	2	2										
CO3	3	2	2										
CO4	3	2	2										
CO5	3	2	2										
Average	2	2	1.8										

ATTAINMENT TABLE													
COs	AVG	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	73.06%	2.19	1.46	0.73									
CO2	72.35%	2.16	1.44	1.44									
CO3	28.58%	0.84	0.56	0.56									
CO4	55.37%	1.65	1.1	1.1									
CO5	34.80%	1.02	0.68	0.68									
AVERAGE		1.58	1.04	0.90									
TOTAL ATTAINMENT													1.17

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Sl No	USN	Name	15WCE02C					SEM IV SEM					TSP Prof Raghavendra D	SEE	ARM MICROCONTROLLER & EMBEDDED SYSTEMS										TOTAL AVERAGE																					
			318-2019 EVEN			T1		T2		T3					ASSIGNMENT 3/3					SEE MARKS						Final																				
			T1	T2	T3	CO1-15	CO2-7	CO3-8	CO4-8	CO5-7	CO1-1	CO2-1			CO3-5	CO4-1	CO5-1	CO1-15	CO2-16	CO3-16	CO4-16	CO5-16	CO1-32	CO2-24		CO3-25	CO4-26	CO5-24																		
1	15V14EC026	BAMYA K	10	8	12	25	10	10	15	15	1	1	1	1	1	55	11	4	4	4	4	37	15	15	23	20	22																			
2	15V14EC029	BASHMIN BEGAM H	12	10	14	24	5	5	12	8	1	1	1	1	1	48	9.8	9.8	9.8	9.8	9.8	34.8	15.6	15.6	25.6	18.6	22																			
3	15V15EC005	ARUN C G	9	12	12	15	10	10	12	13	1	1	1	1	1	45	9	9	9	9	9	25	20	20	25	21	22.6																			
4	15V15EC007	BHAVANA N	10	14	10	14	8	8	15	15	1	1	1	1	1	10.4	4.6	4.6	4.6	4.6	4.6	19.6	14.6	14.6	23.6	20.6	18.6																			
5	15V15EC013	GAGANA S K	18	12	14	13	10	10	11	12	1	1	1	1	1	30	6	6	6	6	6	20	17	17	21	19	18.8																			
6	15V15EC018	KAVYA S	10	15	12	10	11	12	10	8	1	1	1	1	1	45	9	9	9	9	9	20	21	22	23	19	20.8																			
7	15V15EC027	NCKR AYISHA	8	10	11	9	7	8	14	14	1	1	1	1	1	48	9.8	9.8	9.8	9.8	9.8	19.8	17.8	15.8	27.8	14.8	21.6																			
8	15V15EC035	RACHURAJ C K	12	12	10	14	10	15	15	15	1	1	1	1	1	45	9	9	9	9	9	24	20	25	28	25	24.4																			
9	15V15EC049	USHA Y M	10	10	8	14	5	5	10	10	1	1	1	1	1	49	9.8	9.8	9.8	9.8	9.8	24.8	15.8	15.8	23.8	20.8	20.2																			
10	15V15EC052	VISHWAS P	12	8	7	8	10	5	12	13	1	1	1	1	1	60	12	12	12	12	12	13	23	18	28	26	21.6																			
11	15V16EC402	ANURHA T P	10	14	13	14	12	13	14	14	1	1	1	1	1	58	11.8	11.8	11.8	11.8	11.8	25.8	24.8	25.8	29.8	25.8	26.6																			
																				-	34.018	18.564	7.1448	9.5931	8.3517																					
																					73.06%	72.35%	28.58%	55.37%	34.80%																					

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Course Outcomes and CO-PO-PSO Articulation Matrix

2015 Scheme ACADEMIC YEAR- 2018-19

Semester-VI

Subject: VLSI DESIGN	Code: 15EC63
Faculty Name :Prof.Manohar B N	

CO1	Understand the insights of the MOS devices and its characteristics.
CO2	Develop the sequential circuits and clocking schemes.
CO3	Design the CMOS combinational logic circuits and its layout
CO4	Appreciate the different VLSI process technologies.
CO5	Explain the importance of Logic Synthesis in IC design and its design flow.

COs	Pos											
	1	2	3	4	5	6	7	8	9	10	11	12
CO1	1	1	1									
CO2	2	2	2									2
CO3	3	2	2									2
CO4	3	2	2									2
CO5	1	2	2									2
Average	2	1.8	1.8									2

ATTAINMENT TABLE

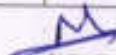
COs	AVG	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	70.06%	0.70	0.70	0.70									1.4
CO2	68.35%	1.36	1.36	1.36									1.36
CO3	34.58%	1.02	0.68	0.68									0.68
CO4	57.37%	1.71	1.14	1.14									1.14
CO5	36.80%	0.36	0.72	0.72									0.72
AVERAGE		1.03	0.92	0.92									1.06
TOTAL ATTAINMENT													0.98

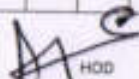

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Sl No	USN	Name	15EC63 DC 2018-2019 EVEN			15		SEM IV SEM		TSP/Prof. Manohar B N					SEE	SUB: VLSI DESIGN					Final					TOTAL AVER									
			T1	T2	T3	T1		T2		ASSIGNMENT 5/5						SEE MARKS																			
						CO1-15	CO2-7	CO3-8	CO4-8	CO5-7	CO1-1	CO2-1	CO3-1	CO4-1		CO5-1	CO1-16	CO2-16	CO3-16	CO4-16	CO5-16	CO1-32	CO2-24	CO3-25	CO4-25		CO5-24								
1	15V14EC026	RAMIYA K	10	9	12	26	10	10	15	15	1	1	1	1	1	80	11	4	4	4	4	37	15	15	23	20	22								
2	15V14EC029	RASHMIN BEGAM H	12	10	14	24	5	5	12	8	1	1	1	1	1	48	9.6	9.6	9.6	9.6	9.6	34.6	15.6	15.6	25.6	18.6	22								
3	15V15EC005	ARUN C G	9	12	12	15	10	10	12	13	1	1	1	1	1	45	9	9	9	9	9	26	20	20	25	22	22.6								
4	15V15EC007	BHAVANA N	10	14	10	14	9	9	15	15	1	1	1	1	1	10.4	4.6	4.6	4.6	4.6	4.6	19.6	14.6	14.6	23.6	20.6	18.6								
5	15V15EC013	GAGANA S K	15	12	14	13	10	10	11	12	1	1	1	1	1	30	6	6	6	6	6	20	17	17	21	19	18.8								
6	15V15EC018	KAVYA S	10	15	12	10	11	12	10	8	1	1	1	1	1	45	9	9	9	9	9	20	21	22	23	18	20.8								
7	15V15EC027	NOOR AYESHA	9	10	11	9	7	8	14	14	1	1	1	1	1	48	9.6	9.6	9.6	9.6	9.6	19.6	17.6	18.6	27.6	24.6	21.6								
8	15V15EC035	BAGHURAJ G K	12	12	10	14	10	15	15	15	1	1	1	1	1	45	9	9	9	9	9	24	20	25	28	25	24.4								
9	15V15EC049	USHA Y M	10	10	8	14	5	5	10	10	1	1	1	1	1	49	9.8	9.8	9.8	9.8	9.8	24.8	15.8	15.8	23.8	20.8	20.2								
10	15V15EC052	VISHWAS S P	12	8	7	0	10	5	12	13	1	1	1	1	1	60	12	12	12	12	12	13	23	18	26	26	21.6								
11	15V16EC402	ANUSHA T P	10	14	13	14	12	13	14	14	1	1	1	1	1	58	11.6	11.6	11.6	11.6	11.6	26.6	24.6	25.6	29.6	26.6	26.6								
																										24.018	18.564	7.1448	9.5931	8.3517					
																										70.06%	68.15%	34.58%	57.37%	36.80%					


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2015 Scheme ACADEMIC YEAR- 2018-19

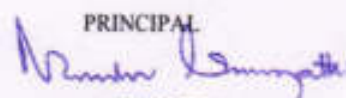
Semester-VII

Subject: Computer Communication Networks (CCN)		Code: 15EC64											
Faculty Name : Prof.Pradeepkumar S S													
CO1	Explain basic concepts, OSI reference model, services and role of each layer of OSI model and TCP/IP, networks devices and transmission media, Analog and digital data transmission												
CO2	Apply channel allocation, framing, error and flow control techniques												
CO3	Describe the functions of Network Layer i.e. Logical addressing, subnetting & Routing Mechanism												
CO4	Explain the different Transport Layer function i.e. Port addressing, Connection Management, Error control and Flow control mechanism												
CO5	Explain the functions offered by session and presentation layer and their Implementation												
COs	Pos												
	1	2	3	4	5	6	7	8	9	10	11	12	
CO1	3	3	2		1					1			
CO2	3	2	2		1					1			
CO3	2	2			2					1			
CO4	3	2	1										
CO5	2		2										
Average	2.6	1.8	1.4		1.25					1			

ATTAINMENT TABLE													
COs	AVG	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	65.29 %	1.95	1.95	1.30		0.65					0.65		
CO2	68.03 %	2.04	1.36	1.36		0.68					0.68		
CO3	26.75 %	0.535	0.535			0.53					0.26		
CO4	24.14 %	0.72	0.48	0.24									
CO5	21.88 %	0.43		0.43									
AVERAGE		1.134	1.08	0.83		0.62					0.53		
TOTAL ATTAINMENT													0.83


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

2015 Scheme ACADEMIC YEAR- 2018-19

Semester-VI

Subject: Cellular Mobile network		Code: 15EC651											
Faculty Name : Prof.Prabitha D K													
CO1	Demonstrate cellular mobile system design concepts in wireless mobile communication networks.												
CO2	Design of Antenna system, Antenna parameters and their effects, diversity receiver, non co-channel Interference different.												
CO3	Understand the concepts of Handoff, dropped calls and cell splitting, Intersystem handoff.												
CO4	Imbibe knowledge about Wireless Systems And Standards GSM channels, multiplex access scheme, TDMA CDMA.												
CO5	Intelligent Network For Wireless Communications SS7 network and ISDN for AIN, AIN for mobile communication												
		Pos											
COs		1	2	3	4	5	6	7	8	9	10	11	12
CO1		3	2	1			1						
CO2		3	2	2			2						
CO3		3	2	2			2						
CO4		3	2	2			2						
CO5		3	2	2			2						
Average		2	2	1.8			1.8						

COs	AVG	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	73.06%	2.19	1.46	0.73			0.73						
CO2	72.35%	2.16	1.44	1.44			1.44						
CO3	28.58%	0.84	0.56	0.56			0.56						
CO4	55.37%	1.65	1.1	1.1			1.1						
CO5	34.80%	1.02	0.68	0.68			0.68						
AVERAGE		1.58	1.04	0.90			0.90						
TOTAL ATTAINMENT													1.11


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roll No	USN	Name	1SEC651 DC 2018-2019 EVEN 25					SEM -VI SEM TSP:Prof.Prabitha D K					SUB: Cellular Mobile network										TOTAL AVER							
			T1			T2		T3		ASSIGNMENT 5/5					SEE	SEE MARKS					Final									
			T1	T2	T3	CO1-15	CO2-7	CO3-8	CO4-8	CO5-7	CO1-1	CO2-1	CO3-1	CO4-1		CO5-1	CO1-16	CO2-16	CO3-16	CO4-16	CO5-16	CO1-32		CO2-24	CO3-25	CO4-25	CO5-24			
1	1SV14EC026	RAMYA K	10	9	12	25	10	10	15	15	1	1	1	1	1	80	11	4	4	4	4	37	15	15	23	30	22			
2	1SV14EC029	RASHMIN BEGAM FE	12	10	14	24	5	5	12	8	1	1	1	1	1	48	5.6	9.6	9.6	9.6	9.6	34.6	15.6	15.6	25.6	18.6	22			
3	1SV15EC005	ARUN C G	9	12	12	15	10	10	12	13	1	1	1	1	1	45	9	9	9	9	9	25	20	20	25	23	22.8			
4	1SV15EC007	BHAVANA N	10	14	10	14	9	9	15	15	1	1	1	1	1	10.4	4.6	4.6	4.6	4.6	4.6	19.6	14.6	14.6	23.6	20.6	18.8			
5	1SV15EC011	GAGANA S K	15	12	14	13	10	10	11	12	1	1	1	1	1	30	6	6	6	6	6	20	17	17	21	19	18.8			
6	1SV15EC018	KAVYA S	10	15	12	10	11	12	10	8	1	1	1	1	1	45	9	9	9	9	9	20	21	22	23	18	20.8			
7	1SV15EC027	NOOR AYESHA	9	10	11	8	7	8	14	14	1	1	1	1	1	48	9.6	9.6	9.6	9.6	9.6	15.6	17.6	18.6	27.6	24.6	21.5			
8	1SV15EC035	RAGHURAJ G K	12	12	10	14	10	15	15	15	1	1	1	1	1	45	9	9	9	9	9	24	20	25	28	25	24.4			
9	1SV15EC049	USHA Y M	10	10	8	14	5	5	10	10	1	1	1	1	1	49	9.8	9.8	9.8	9.8	9.8	24.8	15.8	15.8	23.8	20.8	20.2			
10	1SV15EC052	VISHWAS S P	12	8	7	0	10	5	12	13	1	1	1	1	1	60	12	12	12	12	12	13	23	18	28	26	21.8			
11	1SV16EC402	ANUSHA T P	10	14	13	14	12	13	14	14	1	1	1	1	1	58	11.6	11.6	11.6	11.6	11.6	26.6	24.6	25.6	29.6	26.6	26.8			
																					24.018	78.564	7.1448	9.9932	8.3517					
																					70.06%	68.35%	34.58%	57.37%	36.80%					

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**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

SUBJECT	WIRELESS CELLULAR & LTE 4G BORADBAND	SUBJECT CODE	15EC81
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COURSE OUTCOME

After studying this course, students will be able to:

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

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

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

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

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

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	Mrs.Sandya R											
BRANCH	ECE			ACADEMIC YEAR				2018-19				
COURSE	B.E	SEMESTER	8 TH	SECTION			ECE					
SUBJECT	WIRELESS CELLULAR & LTE 4G BORADBAND					SUBJECT CODE			15EC81			
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	1	1	1	2						2		
CO2	2	2	2	1						1		
CO3	3	1	2	2						1		
CO4	2	3	2	2						2		
CO5	1	1	1	1						1		
AVERAGE	1.8	1.6	1.6	1.6						1.4		
OVERALL MAPPING OF SUBJECT												1.6

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	53.56	0.53	0.53	0.53	1.07						1.07		
CO2	52.54	1.05	1.05	1.05	0.52						0.52		
CO3	53.70	1.61	0.53	1.07	1.07						0.53		
CO4	56.73	1.13	1.70	1.13	1.13						1.13		
CO5	55.46	0.55	0.55	0.55	0.55						0.55		
AVERAGE		0.97	0.97	0.86	0.86						0.76		
FINAL ATTAINMENT LEVEL													0.88

S. Suresh

COURSE INSTRUCTOR

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

DEPARTMENT OF ECE

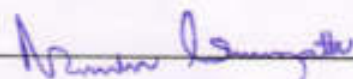
CO-PO ATTAINMENT

ACADEMIC YEAR

2018-19

ODD SEM

FIRST YEAR




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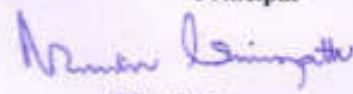
**Department of Electronics & Communication Engineering****Course Outcomes and CO-PO- Articulation Matrix****2017 Scheme****ACADEMIC YEAR 2018-19****Semester-I**

Subject: Basic Electronics Prof. Raghavendra D												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	57%	1.71	1.71	1.14			1.14						0.57
CO4	59%	1.77	1.77	1.18			1.18						0.59
CO5	55%	1.65											
AVERAGE		1.60	1.73	1.01			1.15						0.58
TOTAL ATTAINMENT													1.21


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S.No	Name	Maths				Science				English				Social				Art				Music				Total	Percentage
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
1

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**Department of Electronics & Communication Engineering****Course Outcomes and CO-PO- Articulation Matrix****2018 Scheme**
ACADEMIC YEAR 2018-19**Semester-II**

Subject: Basic Electronics												Subject Code: 18ELN24	
Prof. RAGHAVENDRA D													
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	65%	1.3		0.65									0.65
CO2	63%	1.89	1.89	1.26			1.26						0.63
CO3	69%	2.07	2.07	1.38			1.38						0.69
CO4	67%	2.01	2.01	1.34			1.34						0.67
CO5	68%	2.04											
AVERAGE		1.86	1.99	1.15			1.32						0.66
TOTAL ATTAINMENT													1.39

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19V17CS031	22	8	18	9	20	19	9	20	19	2	2	2	2	2	2	6.4	6.4	6.4	6.4	6.4	18.4	17.4	26.4	17.4	18.4	49.448	40	40	10	49.448	32	20	6.4	
19V17CS036	5	4	9	5	5	10	8	2	10	2	2	2	2	2	2	3.6	3.6	3.6	3.6	3.6	10.8	10.6	14.8	10.8	7.6	36.332	36.332	33.162	46.897	26.227	18	20	3.6	
19V17CS037	7	8	15	8	8	14	10	8	18	2	2	2	2	2	2	5.2	5.2	5.2	5.2	5.2	14.2	14.2	20.2	17.2	13.2	48.986	52.414	52.727	39.81	43.517	26	26	5.2	
19V17CS038	13	0	13	1	13	14	13	1	18	2	2	2	2	2	2	6.4	6.4	6.4	6.4	6.4	19.4	18.4	26.4	17.4	13.2	48.986	52.414	52.727	39.81	43.517	26	26	6.4	
19V17CS039	5	4	9	5	5	10	8	2	10	2	2	2	2	2	2	6.4	6.4	6.4	6.4	6.4	19.4	18.4	26.4	17.4	13.2	48.986	52.414	52.727	39.81	43.517	26	26	6.4	
19V17CS040	8	15	9	14	5	19	13	4	19	2	2	2	2	2	2	6.2	6.2	6.2	6.2	6.2	19.2	18.2	17.2	13.2	13.2	45.517	45.517	39.261	45.517	45.517	21	20	6.2	
19V17CS041	8	8	12	7	4	13	10	8	19	2	2	2	2	2	2	5	5	5	5	5	1	1	7	7	11	53.172	72.434	61.364	71.862	37.931	23	23	5	
19V17CS042	10	3	13	10	4	14	10	4	14	2	2	2	2	2	2	5.4	5.4	5.4	5.4	5.4	13.4	14.4	17.4	17.4	12.4	46.227	49.655	33.341	40	35.862	27	23	5.4	
19V17CS070	18	13	26	13	14	27	13	14	27	2	2	2	2	2	2	7	7	7	7	7	7	19	19	14	19	17	65.517	65.517	36.364	65.517	44.826	35	24	7

60 60 64.543 60 63.448
 41 37 8.2

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