SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY, TUMKUR

DEPARTMENT OF ECE

CO-PO ATTAINMENT

ACADEMIC YEAR

2017-18

ODD SEM

SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

SUBJECT	DIGITAL SIGNAL PROCESSING	SUBJECT CODE	15EC52

COURSE OUTCOME

After studying this course, students will be able to:

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

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

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

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

PROGRAM OUTCOMES

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

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

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

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

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

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

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

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

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

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

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

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

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY				
FACULTY NAME	MR. PRADEEPKUMAR S S				
BRANCH	ECE	ACADEMIC YEAR	2017-18		
COURSE	B.E	SEMESTER	5TH	SECTION	ECE
SUBJECT	DIGITAL SIGNAL PROCESSING	SUBJECT CODE	15EC52		

CO & PO MAPPING

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

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	72.10031	0.72	1.44	0.72		1.44							
CO2	67.04332	1.34	0.67	0.67		1.34							
CO3	85.68443	0.85	0.71	2.57		2.57							
CO4	74.92163	2.24	1.49	0.74		1.49							
AVERAGE		1.28	1.07	0.54		1.17							
FINAL ATTAINMENT LEVEL													1.01

COURSE INSTRUCTOR

HOD

HOD
Dept of E&C
SIET, Tumkur-6

PRINCIPAL
PRINCIPAL

Academic year		2017-18			SEM	5TH		Total strength			50			Subject		DSP				15EC52									
SEM:VII		IA TEST 1(30M)			IA TEST 2(30M)			IA TEST 3(30M)			SSIGNEMENT / QUIZ(10 M					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	O1=1	CO2	CO3	CO4	O1=2	O2=4	O3=2	O4=2	CO1	CO2	CO3	CO4	60M	
1SV14EC015	LAHARI N RAJ	10	6	16	10	7	17	10	8	16	2	2	2	2	5.6	5.6	5.6	5.6	17.6	16	14.8	17.8	60.69	36.36	50.34	60.69	28	5.6
1SV15EC001	ABHISHEK G SHEELVAN	8	8	16	10	10	20	10	9	19	2	2	2	2	10.4	10.4	10.4	10.4	20.4	30.4	22.4	22.4	70.34	69.09	77.24	77.24	52	10.4
1SV15EC002	AISHWARYA S M	10	10	20	12	12	24	12	11	23	2	2	2	2	10.8	10.8	10.8	10.8	22.8	34.8	24.8	24.8	78.62	79.09	85.52	85.52	54	10.8
1SV15EC003	AKSHATA BIRADAR	8	8	16	10	8	18	10	10	20	2	2	2	2	6.2	6.2	6.2	6.2	16.2	26.2	16.2	18.2	55.86	59.55	55.86	62.76	31	6.2
1SV15EC004	AMEENA ROUSHNIE	10	11	21	11	11	22	12	12	24	2	2	2	2	7.4	7.4	7.4	7.4	19.4	31.4	20.4	21.4	66.9	71.36	70.34	73.79	37	7.4
1SV15EC009	CL BALAJI	9	9	18	10	13	23	13	13	26	2	2	2	2	12	12	12	12	23	33	27	26	79.31	75	93.1	89.66	60	12
1SV15EC010	CHAITHRA M	11	12	23	10	11	21	11	12	23	2	2	2	2	12.4	12.4	12.4	12.4	25.4	36.4	25.4	25.4	87.59	82.73	87.59	87.59	62	12.4
1SV15EC011	D CHANDANA	10	7	17	10	5	15	13	12	24	2	2	2	2	12.8	12.8	12.8	12.8	24.8	31.8	19.8	26.8	85.52	72.27	68.28	92.41	64	12.8
1SV15EC012	DEEPIKA H P	10	10	20	12	10	22	9	10	19	2	2	2	2	8.4	8.4	8.4	8.4	20.4	32.4	20.4	19.4	70.34	73.64	70.34	66.9	42	8.4
1SV15EC013	Gagana S K	10	3	13	7	7	14	10	9	19	2	2	2	2	7.4	7.4	7.4	7.4	19.4	12.4	22.4	16.4	66.9	28.18	77.24	56.55	37	7.4
1SV15EC014	GEETA RAMESHAPPA H	10	10	20	10	9	19	10	13	23	2	2	2	2	7.4	7.4	7.4	7.4	19.4	29.4	18.4	19.4	66.9	66.82	63.45	66.9	37	7.4
1SV15EC016	HARINI D C	8	8	16	8	8	0	8	8	16	2	2	2	2	9.8	9.8	9.8	9.8	19.8	27.8	19.8	19.8	68.28	63.18	68.28	68.28	49	9.8
1SV15EC017	S KAVITHA	10	7	17	10	11	21	11	11	22	2	2	2	2	6.6	6.6	6.6	6.6	18.6	25.6	19.6	19.6	64.14	58.18	67.59	67.59	33	6.6
1SV15EC020	MAMATHA M S	10	7	17	11	10	21	10	12	22	2	2	2	2	10	10	10	10	22	30	22	22	75.86	68.18	75.86	75.86	50	10
1SV15EC026	NITHYA SHREE B T	7	7	14	11	11	22	9	9	18	2	2	2	2	5.6	5.6	5.6	5.6	14.6	25.6	18.6	16.6	50.34	58.18	64.14	57.24	28	5.6
1SV15EC028	PADMA M A	10	7	17	10	10	20	10	10	20	2	2	2	2	8.6	8.6	8.6	8.6	20.6	27.6	20.6	20.6	71.03	62.73	71.03	71.03	43	8.6
1SV15EC030	POOJA K S	10	13	23	10	14	24	10	13	23	2	2	2	2	10.2	10.2	10.2	10.2	22.2	35.2	26.2	22.2	76.55	80	90.34	76.55	51	10.2
1SV15EC031	PRABIN KARKI	10	9	19	10	15	25	10	11	21	2	2	2	2	13.4	13.4	13.4	13.4	25.4	34.4	30.4	25.4	87.59	78.18	104.8	87.59	67	13.4
1SV15EC032	PRASHANT CHOUDRI	10	5	15	12	12	24	9	9	18	2	2	2	2	10.8	10.8	10.8	10.8	22.8	29.8	24.8	21.8	78.62	67.73	85.52	75.17	54	10.8
1SV15EC033	PREETHI BAI B L	10	7	17	11	11	22	10	11	21	2	2	2	2	10	10	10	10	22	30	23	22	75.86	68.18	79.31	75.86	50	10
1SV15EC034	PRIYANKA K	10	13	23	10	15	25	12	12	24	2	2	2	2	10.8	10.8	10.8	10.8	22.8	25.8	35.8	22.8	78.62	88.97	123.4	78.62	54	10.8
1SV15EC036	RAKSHA M V	10	9	19	10	11	21	11	12	23	2	2	2	2	10.8	10.8	10.8	10.8	22.8	21.8	31.8	22.8	78.62	75.17	109.7	78.62	54	10.8
1SV15EC038	RAMYA M G	9	9	18	10	4	14	10	11	21	2	2	2	2	8.4	8.4	8.4	8.4	19.4	19.4	28.4	20.4	66.9	66.9	97.93	70.34	42	8.4
1SV15EC039	RANJITHA B M	7	7	14	10	13	23	12	12	24	2	2	2	2	8.4	8.4	8.4	8.4	17.4	17.4	24.4	20.4	60	60	84.14	70.34	42	8.4
1SV15EC040	ROHITH P	10	8	18	8	8	16	10	9	19	2	2	2	2	7.4	7.4	7.4	7.4	19.4	17.4	27.4	17.4	66.9	60	94.48	60	37	7.4
1SV15EC041	SAVITA HOSALLI	10	7	17	10	11	21	11	12	23	2	2	2	2	6.8	6.8	6.8	6.8	18.8	15.8	25.8	18.8	64.83	54.48	88.97	64.83	34	6.8
1SV15EC042	SHALINI N	10	6	16	11	11	22	10	11	21	2	2	2	2	6.2	6.2	6.2	6.2	18.2	14.2	24.2	19.2	62.76	48.97	83.45	66.21	31	6.2
1SV15EC043	SONA K R	10	13	23	11	11	22	10	14	24	2	2	2	2	9.4	9.4	9.4	9.4	21.4	24.4	34.4	22.4	73.79	84.14	118.6	77.24	47	9.4
1SV15EC044	SOUMYA D H	10	9	19	10	13	23	10	13	23	2	2	2	2	8.6	8.6	8.6	8.6	20.6	19.6	29.6	20.6	71.03	67.59	102.1	71.03	43	8.6
1SV15EC046	SUSHMA T N	8	8	16	10	3	13	10	9	19	2	2	2	2	8.6	8.6	8.6	8.6	18.6	18.6	26.6	20.6	64.14	64.14	91.72	71.03	43	8.6
1SV15EC047	THOSHITHA	10	9	19	10	15	25	10	13	23	2	2	2	2	11.8	11.8	11.8	11.8	23.8	22.8	32.8	23.8	82.07	78.62	113.1	82.07	59	11.8
1SV15EC051	VINAY S P	10	6	16	10	14	24	10	14	24	2	2	2	2	12.4	12.4	12.4	12.4	24.4	20.4	30.4	24.4	84.14	70.34	104.8	84.14	62	12.4
1SV16EC400	ABDUL NAZEERSAB A R	0	3	3	10	10	20	10	5	15	2	2	2	2	5.6	5.6	5.6	5.6	7.6	10.6	10.6	17.6	26.21	36.55	36.55	60.69	28	5.6
1SV16EC401	AISHWARYA K S	10	3	13	10	9	19	10	10	20	2	2	2	2	6	6	6	6	18	11	21	18	62.07	37.93	72.41	62.07	30	6
1SV16EC403	BINDUSHREE G S	10	4	14	10	9	19	10	11	21	2	2	2	2	5.8	5.8	5.8	5.8	17.8	11.8	21.8	17.8	61.38	40.69	75.17	61.38	29	5.8
1SV16EC404	CHIRANJEEVI K M	0	3	3	10	4	14	10	4	14	2	2	2	2	5.6	5.6	5.6	5.6	7.6	10.6	10.6	17.6	26.21	36.55	36.55	60.69	28	5.6
1SV16EC407	MANJUNATH B YANNI	5	5	10	10	6	16	10	5	15	2	2	2	2	8	8	8	8	15	15	20	20	51.72	51.72	68.97	68.97	40	8
1SV16EC408	MOHANKUMAR D	0	8	8	0	8	8	10	6	16	2	2	2	2	5.6	5.6	5.6	5.6	7.6	15.6	15.6	7.6	26.21	53.79	53.79	26.21	28	5.6
1SV16EC410	NANDINI L	10	8	18	10	8	18	10	14	24	2	2	2	2	9	9	9	9	21	19	29	21	72.41	65.52	100	72.41	45	9
1SV16EC411	POOJA A	5	6	11	5	5	10	10	3	13	2	2	2	2	5	5	5	5	12	13	18	12	41.38	44.83	62.07	41.38	25	5
1SV16EC412	RAMYA N K	9	9	18	10	3	13	9	9	18	2	2	2	2	7.6	7.6	7.6	7.6	18.6	18.6	27.6	19.6	64.14	64.14	95.17	67.59	38	7.6
1SV16EC413	RAMYASHREE M	10	7	17	9	9	18	10	14	24	2	2	2	2	8.2	8.2	8.2	8.2	20.2	17.2	27.2	19.2	69.66	59.31	93.79	66.21	41	8.2
1SV16EC414	SOWNDARYA A	10	7	17	10	5	15	10	11	21	2	2	2	2	9.6	9.6	9.6	9.6	21.6	18.6	28.6	21.6	74.48	64.14	98.62	74.48	48	9.6

72.1	67.04	85.68	74.92	43.19	
				71.98	

Faculty

HOD
Dept of E&C
SIET, Tumkur-5

Principal
PRINCIPAL
SIET., TUMAKURU.

SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

SUBJECT	VERILOG HDL	SUBJECT CODE	15EC53

COURSE OUTCOME

After studying this course, students will be able to:

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

CO2:Write simple programs in VHDL in different styles.

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

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

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

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	MR. HARISH B											
BRANCH	ECE			ACADEMIC YEAR			2017-18					
COURSE	B.E	SEMESTER	5TH	SECTION	ECE							
SUBJECT	VERILOG HDL			SUBJECT CODE	15EC53							
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	1	2	2	1	2							
CO2	2	2	1	1	2							
CO3	2	1	2	2	3							
CO4	2	2	2	2	2							
CO5	1	2	1	2	2							
AVERAGE	1.75	1.75	1.5	2	2.25							
OVERALL MAPPING OF SUBJECT												1.85

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	78.55799	0.78	1.57	1.57	0.78	1.57							
CO2	63.97312	1.27	1.27	0.63	0.63	1.27							
CO3	76.36364	1.52	1.87	1.58	1.58	2.29							
CO4	99.24765	1.98	1.98	1.98	1.98	1.98							
CO5	95.48589	0.95	1.90	0.95	1.90	1.90							
AVERAGE		1.3	1.71	1.34	1.37	1.80							
FINAL ATTAINMENT LEVEL													1.50

COURSE INSTRUCTOR

HOD

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PRINCIPAL

PRINCIPAL
SIET., TUMAKURU

Academic year		2017-18			SEM	5TH		Total strength			43			Subject			verilog HDL					15EC53										
SEM:VII		IA TEST 1(30M)			IA TEST 2(30M)			IA TEST 3(30M)			ASSIGNEMENT / QUIZ(10 M)						SEE MARKS(60)					Total Co ATTAINMENT					% of individual CO					SEE Tot	
USN	NAME	CO1	CO2	TOTAL	CO2	CO3	TOTAL	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	O1=1	CO2	CO3	CO4	CO5	O1=2	O2=4	O3=2	O4=2	O5=2	CO1	CO2	CO3	CO4	CO5	60M	
5V14EC0	LAHARI N RAJ	10	5	15	10	5	15	10	7	17	2	2	2	2	2	6.6	6.6	6.6	6.6	6.6	18.6	15	19.6	23.6	18.6	64.14	34.09	46.9	81.38	64.14	33	6.6
5V15EC0	ABHISHEK G SHE	7	0	7	10	5	15	20	5	25	2	2	2	2	2	6.6	6.6	6.6	6.6	6.6	15.6	18.6	13.6	23.6	28.6	53.79	42.27	46.9	81.38	98.62	33	6.6
5V15EC0	AISHWARYA S M	20	1	21	20	5	25	20	5	25	2	2	2	2	2	8.4	8.4	8.4	8.4	8.4	30.4	31.4	15.4	35.4	30.4	104.8	71.36	93.1	122.1	104.8	42	8.4
5V15EC0	AKSHATA BIRAD	10	8	18	20	5	25	20	5	25	2	2	2	2	2	8	8	8	8	8	20	38	19	35	30	68.97	86.36	51.72	120.7	103.4	40	8
5V15EC0	AMEENA ROUSH	10	10	20	10	10	20	20	5	25	2	2	2	2	2	10.2	10.2	10.2	10.2	10.2	22.2	32.2	22.2	32.2	32.2	76.55	73.18	76.55	111	111	51	10.2
5V15EC0	CL BALAJI	5	7	12	0	8	8	20	5	25	2	2	2	2	2	7.8	7.8	7.8	7.8	7.8	14.8	16.8	17.8	17.8	29.8	51.05	38.18	61.38	61.38	102.8	39	7.8
5V15EC0	CHAITHRA M	10	7	17	10	1	11	20	5	25	2	2	2	2	2	11.4	11.4	11.4	11.4	11.4	23.4	30.4	14.4	24.4	33.4	80.69	69.09	49.66	84.14	119.2	57	11.4
5V15EC0	D CHANDANA	10	2	12	20	4	24	20	1	21	2	2	2	2	2	10.2	10.2	10.2	10.2	10.2	22.2	34.2	16.2	36.2	32.2	76.55	77.73	55.86	124.8	111	51	10.2
5V15EC0	DEEPIKA H P	10	3	13	20	1	21	20	5	25	2	2	2	2	2	7.4	7.4	7.4	7.4	7.4	19.4	32.4	10.4	30.4	29.4	66.9	73.64	35.86	104.8	101.4	37	7.4
5V15EC0	Gagana S K	0	0	0	0	0	0	0	0	0	2	2	2	2	2	9.8	9.8	9.8	9.8	9.8	11.8	11.8	11.8	11.8	11.8	40.69	26.82	40.69	40.69	40.69	49	9.8
5V15EC0	GEETA RAMESH	10	7	17	10	5	15	10	7	17	2	2	2	2	2	10.4	10.4	10.4	10.4	10.4	22.4	29.4	17.4	27.4	22.4	77.24	66.82	60	94.48	77.24	52	10.4
5V15EC0	HARINI D C	10	10	20	10	10	0	20	5	25	2	2	2	2	2	8.4	8.4	8.4	8.4	8.4	20.4	30.4	20.4	10.4	30.4	70.34	69.09	70.34	35.86	104.8	42	8.4
5V15EC0	S KAVITHA	10	3	13	10	2	12	20	5	25	2	2	2	2	2	8.8	8.8	8.8	8.8	8.8	20.8	23.8	12.8	22.8	30.8	71.72	54.09	44.14	78.62	106.2	44	8.8
5V15EC0	MAMATHA M S	20	3	23	10	6	16	20	5	25	2	2	2	2	2	12.8	12.8	12.8	12.8	12.8	34.8	27.8	20.8	30.8	34.8	120	63.18	71.72	106.2	120	64	12.8
5V15EC0	NITHYA SHREE P	10	10	20	10	9	19	20	5	25	2	2	2	2	2	8	8	8	8	8	20	30	19	29	30	68.97	68.18	65.52	100	103.4	40	8
5V15EC0	PADMA M A	20	4	24	10	4	14	20	5	25	2	2	2	2	2	10.4	10.4	10.4	10.4	10.4	32.4	26.4	16.4	26.4	32.4	111.7	60	56.55	91.03	111.7	52	10.4
5V15EC0	POOJA K S	10	9	19	20	1	21	20	5	25	2	2	2	2	2	8.4	8.4	8.4	8.4	8.4	20.4	39.4	11.4	31.4	30.4	70.34	88.55	39.31	108.3	104.8	42	8.4
5V15EC0	PRABIN KARKI	10	6	16	20	3	23	20	5	25	2	2	2	2	2	8.4	8.4	8.4	8.4	8.4	20.4	36.4	13.4	33.4	30.4	70.34	82.73	46.21	115.2	104.8	42	8.4
5V15EC0	PRASHANT CHO	10	4	14	10	8	18	20	5	25	2	2	2	2	2	9.8	9.8	9.8	9.8	9.8	21.8	25.8	19.8	29.8	31.8	75.17	58.64	68.28	102.8	109.7	49	9.8
5V15EC0	PREETHI BAI B L	10	9	19	10	8	18	20	5	25	2	2	2	2	2	9	9	9	9	9	21	30	19	29	31	72.41	68.18	65.52	100	106.9	45	9
5V15EC0	PRIYANKA K	20	1	21	10	10	20	20	5	25	2	2	2	2	2	9.8	9.8	9.8	9.8	9.8	31.8	12.8	32.8	31.8	21.8	109.7	44.14	113.1	109.7	75.17	49	9.8
5V15EC0	RAKSHA M V	10	5	15	10	7	17	20	5	25	2	2	2	2	2	11.2	11.2	11.2	11.2	11.2	23.2	18.2	28.2	30.2	23.2	80	62.76	97.24	104.1	80	56	11.2
5V15EC0	RAMYA M G	10	8	18	10	7	17	20	5	25	2	2	2	2	2	11.8	11.8	11.8	11.8	11.8	23.8	21.8	31.8	30.8	23.8	82.07	75.17	109.7	106.2	82.07	59	11.8
5V15EC0	RANJITHA B M	20	2	22	10	1	11	20	3	25	2	2	2	2	2	9.2	9.2	9.2	9.2	9.2	31.2	13.2	33.2	22.2	21.2	107.6	45.52	114.5	76.55	73.1	46	9.2
5V15EC0	ROHITH P	10	6	16	20	2	22	20	5	25	2	2	2	2	2	9	9	9	9	9	21	17	27	33	31	72.41	58.62	93.1	113.8	106.9	45	9
5V15EC0	SAVITA HOSALL	4	8	12	10	8	18	20	5	25	2	2	2	2	2	11.6	11.6	11.6	11.6	11.6	17.6	21.6	25.6	31.6	23.6	60.69	74.48	88.28	109	81.38	58	11.6
5V15EC0	SHALINI N	10	7	17	10	7	17	20	5	25	2	2	2	2	2	10.8	10.8	10.8	10.8	10.8	22.8	19.8	29.8	29.8	22.8	78.62	68.28	102.8	102.8	78.62	54	10.8
5V15EC0	SONA K R	10	5	15	20	5	25	20	5	25	2	2	2	2	2	11.8	11.8	11.8	11.8	11.8	23.8	18.8	28.8	38.8	33.8	82.07	64.83	99.31	133.8	116.6	59	11.8
5V15EC0	SOUMYA D H	20	2	22	10	7	17	20	5	25	2	2	2	2	2	11	11	11	11	11	33	15	35	30	23	113.8	51.72	120.7	103.4	79.31	55	11
5V15EC0	SUSHMA T N	10	8	18	1	3	4	20	5	25	2	2	2	2	2	7.8	7.8	7.8	7.8	7.8	19.8	17.8	27.8	13.8	10.8	68.28	61.38	95.86	47.59	37.24	39	7.8
5V15EC0	THOSHITHA	3	2	5	20	4	24	20	5	25	2	2	2	2	2	10.6	10.6	10.6	10.6	10.6	15.6	14.6	17.6	36.6	32.6	53.79	50.34	60.69	126.2	112.4	53	10.6
5V15EC0	VINAY S P	20	5	25	10	4	14	20	5	25	2	2	2	2	2	12.4	12.4	12.4	12.4	12.4	34.4	19.4	39.4	28.4	24.4	118.6	66.9	135.9	97.93	84!14	62	12.4
5V16EC4	ABDUL NAZEER	10	3	13	10	8	18	20	5	25	2	2	2	2	2	9	9	9	9	9	21	14	24	29	23	72.41	48.28	82.76	100	72.41	45	9
5V16EC4	AISHWARYA K S	10	9	19	10	3	13	20	4	24	2	2	2	2	2	8	8	8	8	8	20	19	29	23	20	68.97	65.52	100	79.31	68.97	40	8
5V16EC4	BINDUSHREE G S	10	9	19	10	3	13	20	5	25	2	2	2	2	2	9.6	9.6	9.6	9.6	9.6	21.6	20.6	30.6	24.6	21.6	74.48	71.03	105.5	84.85	74.48	48	9.6
5V16EC4	CHIRANJEEVI K N	10	7	17	10	3	13	20	7	27	2	2	2	2	2	7.6	7.6	7.6	7.6	7.6	19.6	16.6	26.6	22.6	19.6	67.59	57.24	91.72	77.93	67.59	38	7.6
5V16EC4	MANJUNATH B Y	10	5	15	20	1	21	20	5	25	2	2	2	2	2	9.6	9.6	9.6	9.6	9.6	21.6	16.6	26.6	32.6	31.6	74.48	57.24	91.72	112.4	109	48	9.6
5V16EC4	MOHANKUMAR	6	0	6	20	5	25	20	5	25	2	2	2	2	2	8.6	8.6	8.6	8.6	8.6	16.6	10.6	18.6	35.6	30.6	57.24	36.55	57.24	122.8	105.5	43	8.6
5V16EC4	NANDINI L	10	4	14	10	6	16	20	5	25	2	2	2	2	2	12.8	12.8	12.8	12.8	12.8	24.8	18.8	28.8	30.8	24.8	85.52	64.83	99.31	106.2	85.52	64	12.8
5V16EC4	POOJA A	10	10	20	6	1	7	20	5	25	2	2	2	2	2	6.2	6.2	6.2	6.2	6.2	18.2	18.2	28.2	15.2	14.2	62.76	62.76	97.24	52.41	48.97	31	6.2
5V16EC4	RAMYA N K	10	10	20	10	5	15	10	5	15	2	2	2	2	2	7.8	7.8	7.8	7.8	7.8	19.8	19.8	29.8	24.8	19.8	68.28	68.28	102.8	85.52	68.28	39	7.8
5V16EC4	RAMYASHREE M	10	5	15	20	4	24	20	5	25	2	2	2	2	2	9.2	9.2	9.2	9.2	9.2	21.2	16.2	26.2	35.2	31.2	73.1	55.86	90.34	121.4	107.6	46	9.2
5V16EC4	SOWNDARYA A	6	9	15	10	8	18	20	5	25	2	2	2	2	2	8.8	8.8	8.8	8.8	8.8	16.8	19.8	25.8	28.8	20.8	57.93	68.28	88.97	99.31	71.72	44	8.8

78.56	63.97	76.36	99.25	95.49	47.09
					78.49

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SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

SUBJECT	INFORMATION THEORY AND CODING	SUBJECT CODE	15EC54

COURSE OUTCOME

After studying this course, students will be able to:

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.

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY				
FACULTY NAME	MRS. HARIPRIYA R				
BRANCH	ECE	ACADEMIC YEAR	2017-18		
COURSE	B.E	SEMESTER	5TH	SECTION	ECE
SUBJECT	INFORMATION THEORY AND CODING	SUBJECT CODE	15EC54		

CO & PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	1	1	1	2								
CO2	1	3	2	1								
CO3	1	1	1	2								
CO4	1	1	2	1								
AVERAGE	1	1.6	1.6	1.4								
OVERALL MAPPING OF SUBJECT												1.46

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	102.11	1.02	1.02	1.02	2.04								
CO2	65.97	0.65	1.97	1.31	0.65								
CO3	83.00	0.83	0.83	1.66	0.83								

CO4	112.37	1.12	1.12	2.24	1.12								
AVERAGE		0.90	1.23	1.55	1.16								
FINAL ATTAINMENT LEVEL													1.21

COURSE INSTRUCTOR

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Academic year		2017-18			SEM 5TH			Total strength			43				Subject	ITC				15EC54									
SEM:VII		IA TEST 1(30M)			IA TEST 2(30M)			IA TEST 3(30M)			SSIGNEMENT / QUIZ(10 S				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	O1=1	CO2	CO3	CO4	O1=2	O2=4	O3=2	O4=2	CO1	CO2	CO3	CO4	60M	
1SV14EC015	LAHARI N RAJ	20	5	25	10	10	20	0	0	0	2	2	2	2	5.6	5.6	5.6	5.6	27.6	25	17.6	27.6	95.17	56.82	60.69	95.17	28	5.6
1SV15EC001	ABHISHEK G SHEELVANT	20	1	21	10	9	19	10	6	16	2	2	2	2	9.2	9.2	9.2	9.2	31.2	22.2	20.2	30.2	107.6	50.45	69.66	104.1	46	9.2
1SV15EC002	AISHWARYA S M	20	4	24	20	4	24	20	5	25	2	2	2	2	12	12	12	12	34	38	18	38	117.2	86.36	62.07	151	60	12
1SV15EC003	AKSHATA BIRADAR	20	5	25	20	3	23	20	4	24	2	2	2	2	5.6	5.6	5.6	5.6	27.6	32.6	10.6	30.6	95.17	74.09	36.55	105.5	28	5.6
1SV15EC004	AMEENA ROUSHNIE	20	4	24	10	10	20	20	5	25	2	2	2	2	6.2	6.2	6.2	6.2	28.2	22.2	18.2	28.2	97.24	50.45	62.76	97.24	31	6.2
1SV15EC009	CL BALAJI	10	6	16	20	2	22	20	1	21	2	2	2	2	11.6	11.6	11.6	11.6	23.6	39.6	15.6	35.6	81.38	90	53.79	122.8	58	11.6
1SV15EC010	CHAITHRA M	20	5	25	10	10	20	20	5	25	2	2	2	2	8.2	8.2	8.2	8.2	30.2	25.2	20.2	30.2	104.1	57.27	69.66	104.1	41	8.2
1SV15EC011	D CHANDANA	20	5	25	20	2	22	20	5	25	2	2	2	2	8.8	8.8	8.8	8.8	30.8	35.8	12.8	32.8	106.2	81.36	44.14	113.1	44	8.8
1SV15EC012	DEEPIKA H P	20	5	25	20	1	21	20	3	23	2	2	2	2	5.6	5.6	5.6	5.6	27.6	32.6	8.6	28.6	95.17	74.09	29.66	98.62	28	5.6
1SV15EC013	Gagana S K	0	0	0	0	2	2	0	3	3	2	2	2	2	8.6	8.6	8.6	8.6	10.6	10.6	10.6	12.6	36.55	24.09	36.55	43.45	43	8.6
1SV15EC014	GEETA RAMESHAPPA HI	20	4	24	20	1	21	10	9	19	2	2	2	2	14.2	14.2	14.2	14.2	36.2	40.2	17.2	37.2	124.8	91.36	59.31	128.3	71	14.2
1SV15EC016	HARINI D C	20	2	22	20	10	0	10	5	15	2	2	2	2	8.2	8.2	8.2	8.2	28.2	30.2	16.2	8.2	97.24	68.64	62.76	28.28	31	6.2
1SV15EC017	S KAVITHA	20	5	25	5	5	10	20	1	21	2	2	2	2	8.6	8.6	8.6	8.6	30.6	20.6	15.6	20.6	105.5	46.82	53.79	71.03	43	8.6
1SV15EC020	MAMATHA M S	20	5	25	20	7	27	20	5	25	2	2	2	2	9.4	9.4	9.4	9.4	31.4	36.4	18.4	38.4	108.3	82.73	63.45	132.4	47	9.4
1SV15EC026	NITHYA SHREE B T	20	5	25	10	5	15	20	5	25	2	2	2	2	11.6	11.6	11.6	11.6	33.6	28.6	18.6	28.6	115.9	65	64.14	98.62	58	11.6
1SV15EC028	PADMA M A	20	5	25	20	1	21	20	10	30	2	2	2	2	11.8	11.8	11.8	11.8	33.8	38.8	14.8	34.8	116.6	88.18	51.03	120	59	11.8
1SV15EC030	POOJA K S	20	5	25	20	5	25	10	5	15	2	2	2	2	11.4	11.4	11.4	11.4	33.4	38.4	18.4	38.4	115.2	87.27	63.45	132.4	57	11.4
1SV15EC031	PRABIN KARKI	20	5	25	20	4	24	20	2	22	2	2	2	2	11.2	11.2	11.2	11.2	33.2	38.2	17.2	37.2	114.5	86.82	59.31	128.3	56	11.2
1SV15EC032	PRASHANT CHOUDRI	20	5	25	20	4	24	20	9	29	2	2	2	2	13.4	13.4	13.4	13.4	35.4	40.4	19.4	39.4	122.1	91.82	66.9	135.9	67	13.4
1SV15EC033	PREETHI BAI B L	20	5	25	20	3	23	10	5	15	2	2	2	2	9.4	9.4	9.4	9.4	31.4	36.4	14.4	34.4	108.3	82.73	49.66	118.6	47	9.4
1SV15EC034	PRIYANKA K	20	5	25	20	1	21	20	4	24	2	2	2	2	10.6	10.6	10.6	10.6	32.6	17.6	37.6	33.6	112.4	60.69	129.7	115.9	53	10.6
1SV15EC036	RAKSHA M V	20	3	23	20	1	21	20	4	24	2	2	2	2	11.2	11.2	11.2	11.2	33.2	16.2	36.2	34.2	114.5	55.86	124.8	117.9	56	11.2
1SV15EC038	RAMYA M G	20	3	23	20	2	22	20	4	24	2	2	2	2	9.6	9.6	9.6	9.6	31.6	14.6	34.6	33.6	109	50.34	119.3	115.9	48	9.6
1SV15EC039	RANJITHA B M	20	5	25	20	1	21	20	4	24	2	2	2	2	7	7	7	7	29	14	34	30	100	48.28	117.2	103.4	45	9
1SV15EC040	ROHITH P	10	9	19	20	1	21	10	6	16	2	2	2	2	9	9	9	9	21	20	30	32	72.41	68.97	103.4	110.3	45	9
1SV15EC041	SAVITA HOSALLI	20	2	22	20	2	22	20	5	25	2	2	2	2	10	10	10	10	32	14	34	34	110.3	48.28	117.2	117.2	50	10
1SV15EC042	SHALINI N	20	3	23	20	5	25	20	1	21	2	2	2	2	6	6	6	6	28	11	31	33	96.55	37.93	106.9	113.8	30	6
1SV15EC043	SONA K R	20	5	25	20	3	23	20	5	25	2	2	2	2	10.4	10.4	10.4	10.4	32.4	17.4	37.4	35.4	111.7	60	129	122.1	52	10.4
1SV15EC044	SOUMYA D H	20	5	25	20	3	23	20	5	25	2	2	2	2	5.8	5.8	5.8	5.8	27.8	12.8	32.8	30.8	95.86	44.14	113.1	106.2	29	5.8
1SV15EC046	SUSHMA T N	20	4	24	20	5	25	20	2	22	2	2	2	2	6.6	6.6	6.6	6.6	28.6	12.6	32.6	33.6	98.62	43.45	112.4	115.9	33	6.6
1SV15EC047	THOSHITHA	20	5	25	20	1	21	10	8	18	2	2	2	2	13.8	13.8	13.8	13.8	35.8	20.8	40.8	36.8	123.4	71.72	140.7	126.9	69	13.8
1SV15EC051	VINAY S P	20	8	28	20	7	27	20	5	25	2	2	2	2	11.2	11.2	11.2	11.2	33.2	21.2	41.2	40.2	114.5	73.1	142.1	138.6	56	11.2
1SV16EC400	ABDUL NAZEERSAB A K	5	4	9	10	4	14	20	1	21	2	2	2	2	6.4	6.4	6.4	6.4	13.4	12.4	17.4	22.4	46.21	42.76	60	77.24	32	6.4
1SV16EC401	AISHWARYA K S	20	2	22	20	6	26	10	6	16	2	2	2	2	6.2	6.2	6.2	6.2	28.2	10.2	30.2	34.2	97.24	35.17	104.1	117.9	31	6.2
1SV16EC403	BINDUSHREE G S	10	2	12	10	7	17	20	5	25	2	2	2	2	8.2	8.2	8.2	8.2	20.2	12.2	22.2	27.2	69.66	42.07	76.55	93.79	41	8.2
1SV16EC404	CHIRANJEEVI K M	10	4	14	10	8	18	10	6	16	2	2	2	2	7.6	7.6	7.6	7.6	19.6	13.6	23.6	27.6	67.59	46.9	81.38	95.17	38	7.6
1SV16EC407	MANJUNATH B YANNI	20	9	29	10	9	19	20	1	21	2	2	2	2	6.2	6.2	6.2	6.2	28.2	17.2	37.2	27.2	97.24	59.31	128.3	93.79	31	6.2
1SV16EC408	MOHANKUMAR D	5	5	10	10	5	15	10	10	20	2	2	2	2	6	6	6	6	13	13	18	23	44.83	44.83	62.07	79.31	30	6
1SV16EC410	NANDINI L	20	2	22	20	1	21	20	5	25	2	2	2	2	11	11	11	11	33	15	35	34	113.8	51.72	120.7	117.2	55	11
1SV16EC411	POOJA A	20	5	25	10	7	17	10	5	15	2	2	2	2	5.6	5.6	5.6	5.6	27.6	12.6	32.6	24.6	95.17	43.45	112.4	84.83	28	5.6
1SV16EC412	RAMYA N K	20	8	28	10	7	17	20	2	22	2	2	2	2	5.6	5.6	5.6	5.6	27.6	15.6	35.6	24.6	95.17	53.79	122.8	84.83	28	5.6
1SV16EC413	RAMYASHREE M	10	5	15	10	8	18	20	5	25	2	2	2	2	8.4	8.4	8.4	8.4	20.4	15.4	25.4	28.4	70.34	53.1	87.59	97.93	42	8.4
1SV16EC414	SOWNDARYA A	20	4	24	20	1	21	20	5	25	2	2	2	2	9.2	9.2	9.2	9.2	31.2	15.2	35.2	32.2	107.6	51.41	121.4	111	46	9.2

102.1	65.97	83.01	112.6	44.21
				73.68

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

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

SUBJECT	OS	SUBJECT CODE	15EC553

COURSE OUTCOME

After studying this course, students will be able to:
C01: Understand the services provided by an operating system.
C02:Understand how processes are synchronized and scheduled.
C03:Understand different approaches of memory management and virtual memory management.
C04:Understand the structure and organization of the file system

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	MR. PRASANNAKUMAR B K											
BRANCH	ECE			ACADEMIC YEAR			2017-18					
COURSE	B.E	SEMESTER		5TH	SECTION		ECE					
SUBJECT	OS					SUBJECT CODE	15EC553					
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	1	2	1		2							
CO2	2	1	1		2							
CO3	1	2	3		3							
CO4	3	2	1		2							
AVERAGE	1.75	1.75	1.5		2.25							
OVERALL MAPPING OF SUBJECT												1.81

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	92.372	0.92	1.84	0.92		1.84							
CO2	66.29002	1.32	0.66	0.66		1.32							
CO3	78.97597	0.78	1.57	2.36		2.36							
CO4	94.33647	2.82	1.88	0.94		1.88							
AVERAGE		1.46	1.48	1.62		1.85							
												FINAL ATTAINMENT LEVEL	1.60

COURSE INSTRUCTOR

HOD

HOD
Dept of E&C
SIET, Tumkur-6

PRINCIPAL
SIET, TUMKUR.

PRINCIPAL

Academic year		2017-18			SEM	5TH		Total strength			50		Subject			OS					15EC553							
SEM:VII		IA TEST 1(30M)			IA TEST 2(30M)			IA TEST 3(30M)			SSIGNEMENT / QUIZ(10 M		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	Q1=1	CO2	CO3	CO4	Q1=2	Q2=4	Q3=2	Q4=2	CO1	CO2	CO3	CO4	60M	
1SV14EC015	LAHARI N RAJ	10	8	18	10	1	11	10	7	17	2	2	2	2	6.2	6.2	6.2	6.2	18.2	18	9.2	18.2	82.79	40.91	31.72	82.76	31	6.2
1SV15EC001	ABHISHEK G SHEELVANT	10	4	14	4	4	8	10	6	16	2	2	2	2	9.8	9.8	9.8	9.8	21.8	19.8	15.8	21.8	75.17	45	54.48	75.17	49	9.8
1SV15EC002	AISHWARYA S M	20	4	24	20	5	25	20	1	21	2	2	2	2	10.2	10.2	10.2	10.2	32.2	36.2	17.2	32.2	111	82.27	59.31	111	51	10.2
1SV15EC003	AKSHATA BIRADAR	20	2	22	20	1	21	20	4	24	2	2	2	2	9.8	9.8	9.8	9.8	31.8	33.8	12.8	31.8	109.7	76.82	44.14	109.7	49	9.8
1SV15EC004	AMBENA ROUSHNIE	20	4	24	20	1	21	20	5	25	2	2	2	2	10.8	10.8	10.8	10.8	32.8	36.8	13.8	32.8	113.1	83.64	47.59	113.1	54	10.8
1SV15EC009	CL BALAJI	10	6	16	5	5	10	10	5	15	2	2	2	2	11.2	11.2	11.2	11.2	23.2	24.2	18.2	23.2	80	55	62.76	80	56	11.2
1SV15EC010	CHAITHRA M	20	1	21	20	4	24	20	5	25	2	2	2	2	11.8	11.8	11.8	11.8	33.8	34.8	17.8	33.8	116.6	79.09	61.38	116.6	59	11.8
1SV15EC011	D CHANDANA	20	4	24	20	4	24	10	6	16	2	2	2	2	12	12	12	12	34	38	18	24	117.2	86.36	62.07	82.76	60	12
1SV15EC012	DEEPIKA H P	20	2	22	20	4	24	10	9	19	2	2	2	2	11.6	11.6	11.6	11.6	33.6	35.6	17.6	23.6	115.9	80.91	60.69	81.38	58	11.6
1SV15EC013	Gagana S K	0	0	0	0	0	0	0	0	0	2	2	2	2	11.4	11.4	11.4	11.4	13.4	13.4	13.4	13.4	46.21	30.45	46.21	46.21	57	11.4
1SV15EC014	GEETA RAMESHAPPA HANS	10	8	18	10	6	16	20	2	22	2	2	2	2	9.8	9.8	9.8	9.8	21.8	29.8	17.8	31.8	75.17	67.73	61.38	109.7	49	9.8
1SV15EC016	HARINI D C	10	9	19	20	4	0	10	7	17	2	2	2	2	10	10	10	10	22	41	16	22	75.86	93.18	55.17	75.86	50	10
1SV15EC017	S KAVITHA	20	1	21	10	7	17	10	8	18	2	2	2	2	8.8	8.8	8.8	8.8	30.8	21.8	17.8	20.8	106.2	49.55	61.38	71.72	44	8.8
1SV15EC020	MAMATHA M S	10	10	20	10	3	13	10	10	20	2	2	2	2	10.2	10.2	10.2	10.2	22.2	32.2	15.2	22.2	76.55	73.18	52.41	76.55	51	10.2
1SV15EC026	NITHYA SHREE B T	20	4	24	10	2	12	20	4	24	2	2	2	2	12.4	12.4	12.4	12.4	34.4	28.4	16.4	34.4	118.6	64.55	56.55	118.6	62	12.4
1SV15EC028	PADMA M A	20	4	24	20	3	23	20	5	25	2	2	2	2	10.8	10.8	10.8	10.8	32.8	36.8	15.8	32.8	113.1	83.64	54.48	113.1	54	10.8
1SV15EC030	POOJA K S	20	1	21	10	8	18	20	4	24	2	2	2	2	12.6	12.6	12.6	12.6	34.6	25.6	22.6	34.6	119.3	58.18	77.93	119.3	63	12.6
1SV15EC031	PRABIN KARKI	10	10	20	20	2	22	10	8	18	2	2	2	2	10.6	10.6	10.6	10.6	22.6	42.6	14.6	22.6	77.93	96.82	50.34	77.93	53	10.6
1SV15EC032	PRASHANT CHOUDRI	20	3	23	10	5	15	10	10	20	2	2	2	2	9.4	9.4	9.4	9.4	31.4	24.4	16.4	21.4	108.3	55.45	56.55	75.79	47	9.4
1SV15EC033	PREETHI BAI B L	20	4	24	10	4	14	20	4	24	2	2	2	2	9.8	9.8	9.8	9.8	31.8	25.8	15.8	31.8	109.7	58.64	54.48	109.7	49	9.8
1SV15EC034	PRIYANKA K	10	7	17	20	5	25	10	6	16	2	2	2	2	7.4	7.4	7.4	7.4	19.4	16.4	26.4	29.4	66.9	56.55	91.03	101.4	37	7.4
1SV15EC036	RAKSHA M V	20	1	21	20	4	24	10	10	20	2	2	2	2	10.2	10.2	10.2	10.2	32.2	13.2	33.2	32.2	111	45.52	114.5	111	51	10.2
1SV15EC038	RAMYA M G	10	10	-20	10	10	20	20	5	25	2	2	2	2	-11.6	11.6	11.6	11.6	23.6	23.6	33.6	23.6	81.38	81.38	115.9	-81.38	58	11.6
1SV15EC039	RANJITHA B M	20	3	23	20	2	22	20	5	25	2	2	2	2	11	11	11	11	33	18	36	33	113.8	55.17	124.1	113.8	55	11
1SV15EC040	ROHITH P	10	4	14	10	2	12	10	5	15	2	2	2	2	13.8	13.8	13.8	13.8	25.8	18.8	29.8	25.8	88.97	68.28	102.8	88.97	69	13.8
1SV15EC041	SAVITA HOSALLI	20	4	24	10	2	12	10	7	17	2	2	2	2	10	10	10	10	32	16	36	22	110.3	55.17	124.1	75.86	50	10
1SV15EC042	SHALINI N	10	10	20	10	8	18	20	5	25	2	2	2	2	8.2	8.2	8.2	8.2	20.2	20.2	30.2	20.2	69.66	69.66	104.1	69.66	41	8.2
1SV15EC043	SONA K R	10	10	20	20	2	22	20	5	25	2	2	2	2	5.6	5.6	5.6	5.6	17.6	17.6	27.6	27.6	60.69	60.69	95.17	95.17	28	5.6
1SV15EC044	SOUMYA D H	20	3	23	20	5	25	20	2	22	2	2	2	2	9.4	9.4	9.4	9.4	31.4	14.4	34.4	31.4	108.3	49.66	118.6	108.3	47	9.4
1SV15EC046	SUSHMA T N	4	4	8	10	8	18	20	5	25	2	2	2	2	8.8	8.8	8.8	8.8	14.8	14.8	18.8	20.8	51.03	51.03	64.83	71.72	44	8.8
1SV15EC047	THOSHITHA	20	4	24	20	5	25	20	4	24	2	2	2	2	13	13	13	13	35	19	39	35	120.7	65.52	134.5	120.7	65	13
1SV15EC051	VINAY S P	10	10	20	20	5	25	20	4	24	2	2	2	2	7.6	7.6	7.6	7.6	19.6	19.6	29.6	29.6	67.59	67.59	102.1	102.1	38	7.6
1SV16EC400	ABDUL NAZEERSAB A KAN	10	3	13	10	2	12	10	10	20	2	2	2	2	8.2	8.2	8.2	8.2	20.2	13.2	23.2	20.2	69.66	45.52	80	69.66	41	8.2
1SV16EC401	AISHWARYA K S	20	3	23	10	5	15	20	3	23	2	2	2	2	10.8	10.8	10.8	10.8	32.8	15.8	35.8	22.8	113.1	54.48	123.4	78.62	54	10.8
1SV16EC403	BINDUSHREE G S	10	6	16	10	5	15	20	5	25	2	2	2	2	9.2	9.2	9.2	9.2	21.2	17.2	27.2	21.2	73.1	59.31	93.79	73.1	46	9.2
1SV16EC404	CHIRANJEEVI K M	10	7	17	10	6	16	20	4	24	2	2	2	2	5.6	5.6	5.6	5.6	17.6	14.6	24.6	17.6	60.69	50.34	84.83	60.69	28	5.6
1SV16EC407	MANJUNATH B YANNI	20	1	21	10	4	14	10	4	14	2	2	2	2	10	10	10	10	32	13	33	22	110.3	44.83	113.8	75.86	50	10
1SV16EC408	MOHANKUMAR D	20	2	22	10	4	14	20	6	26	2	2	2	2	10.2	10.2	10.2	10.2	32.2	14.2	34.2	22.2	111	48.97	117.9	76.55	51	10.2
1SV16EC410	NANDINI L	20	1	21	20	1	21	20	5	25	2	2	2	2	9.6	9.6	9.6	9.6	31.6	12.6	32.6	31.6	109	43.45	112.4	109	48	9.6
1SV16EC411	POOJA A	10	8	18	10	8	18	20	5	25	2	2	2	2	11	11	11	11	23	21	31	23	79.31	72.41	106.9	79.31	55	11
1SV16EC412	RAMYA N K	20	1	21	10	8	18	20	5	25	2	2	2	2	13.2	13.2	13.2	13.2	35.2	16.2	36.2	25.2	121.4	55.86	124.8	86.9	66	13.2
1SV16EC413	RAMYASHREE M	20	5	25	20	1	21	20	5	25	2	2	2	2	8.2	8.2	8.2	8.2	30.2	15.2	35.2	30.2	104.1	52.41	121.4	104.1	41	8.2
1SV16EC414	SOWNDARYA A	10	4	14	20	1	21	20	5	25	2	2	2	2	9.6	9.6	9.6	9.6	21.6	15.6	25.6	31.6	74.48	53.79	88.28	109	48	9.6

92.37	66.29	78.98	94.34	50.16
				83.6

Faculty

HOD

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SIET, Tumkur-6

Principal

PRINCIPAL
SIET., TUMAKURU.

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

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

SUBJECT	OBJECT ORIENTED PROGRAMMING USING C++	SUBJECT CODE	15EC562

COURSE OUTCOME

After studying this course, students will be able to:
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.

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	MR. MADHU B C											
BRANCH	ECE			ACADEMIC YEAR			2017-18					
COURSE	B.E	SEMESTER		5^{TH}	SECTION		ECE					
SUBJECT	OBJECT ORIENTED PROGRAMMING USING C++				SUBJECT CODE		15EC562					
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	1	2	1		2							
CO2	2	1	1		2							
CO3	1	2	3		3							
CO4	3	2	1		2							
CO5	1	3	2		2							
AVERAGE	1.75	1.75	1.5		2.25							
OVERALL MAPPING OF SUBJECT												1.81

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	73.8558	0.73	1.47	0.73		1.47							
CO2	81.52323	1.63	0.81	0.81		1.63							
CO3	93.7722	0.93	1.87	2.81		2.81							
CO4	101.0867	3.03	2.02	1.01		2.02							
CO4	72.97806	0.72	2.18	1.45		1.45							
AVERAGE		1.40	1.67	1.36		1.87							
												FINAL ATTAINMENT LEVEL	1.57

COURSE INSTRUCTOR

HOD

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SIET, Tumkur-6

PRINCIPAL

PRINCIPAL

Academic year		2017-18			SEM	5TH		Total strength			50			Subject			OOPS USING C++					15EC562										
SEM:VII		IA TEST 1(30M)			IA TEST 2(30M)			IA TEST 3(30M)			ASSIGNEMENT / QUIZ(10 M)						SEE MARKS(60)					Total Cos ATTAINMENT					% of individual CO					SEE Tot	
USN	NAME	CO1	CO2	TOTAL	CO2	CO3	TOTAL	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	O1=1	CO2	CO3	CO4	CO5	O1=2	O2=4	O3=2	O4=2	O5=2	CO1	CO2	CO3	CO4	CO5	60M	
5V14EC01	LAHARI N R	10	10	20	4	4	8	10	11	21	2	2	2	2	2	10.2	10.2	10.2	10.2	10.2	22.2	20	16.2	20.2	22.2	76.55	43.45	55.86	69.66	76.55	51	10.2
5V15EC01	ABHISHEK G T	11	11	22	10	10	20	10	10	20	2	2	2	2	2	7.4	7.4	7.4	7.4	7.4	20.4	30.4	19.4	29.4	19.4	70.34	69.09	88.9	101.4	66.9	37	7.4
5V15EC02	AISHWARYA	10	15	25	10	15	25	10	13	23	2	2	2	2	2	9.8	9.8	9.8	9.8	9.8	21.8	36.8	26.8	36.8	21.8	75.17	83.64	92.41	126.9	75.17	49	9.8
5V15EC03	AKSHATA BIS	10	15	25	11	10	21	11	10	21	2	2	2	2	2	10.4	10.4	10.4	10.4	10.4	22.4	38.4	22.4	33.4	23.4	77.24	87.27	77.24	115.2	80.69	52	10.4
5V15EC04	AMEENA RO	10	15	25	10	10	20	10	15	25	2	2	2	2	2	10.8	10.8	10.8	10.8	10.8	22.8	37.8	22.8	32.8	22.8	78.62	85.91	78.62	118.1	78.62	54	10.8
5V15EC05	CL BALAJI	10	14	24	10	12	22	10	11	21	2	2	2	2	2	6.2	6.2	6.2	6.2	6.2	18.2	32.2	20.2	30.2	18.2	62.76	73.18	69.66	104.1	62.76	31	6.2
5V15EC06	CHAITHRA M	10	15	25	10	12	22	10	15	25	2	2	2	2	2	7.4	7.4	7.4	7.4	7.4	19.4	34.4	21.4	31.4	19.4	66.9	78.18	73.79	108.5	66.9	37	7.4
5V15EC07	D CHANDAN	10	11	21	10	11	21	10	11	21	2	2	2	2	2	12	12	12	12	12	24	35	25	35	24	82.76	79.55	86.21	120.7	82.76	60	12
5V15EC08	DEEPIKA H P	10	13	23	11	11	22	10	15	25	2	2	2	2	2	12.4	12.4	12.4	12.4	12.4	24.4	38.4	25.4	36.4	24.4	84.14	87.27	87.59	125.9	84.14	62	12.4
5V15EC09	Gagana S K	0	0	0	0	0	0	0	0	0	2	2	2	2	2	12.8	12.8	12.8	12.8	12.8	14.8	14.8	14.8	14.8	14.8	51.03	33.64	51.03	51.03	51.03	64	12.8
5V15EC10	GEETA RAMI	10	10	20	4	4	8	10	13	23	2	2	2	2	2	8.4	8.4	8.4	8.4	8.4	20.4	24.4	14.4	18.4	20.4	70.34	55.45	49.66	63.45	70.34	42	8.4
5V15EC11	HARINI D C	10	14	24	10	8	0	10	15	25	2	2	2	2	2	7.4	7.4	7.4	7.4	7.4	19.4	33.4	17.4	9.4	19.4	66.9	75.91	60	32.41	66.9	37	7.4
5V15EC12	S KAVITHA	10	12	22	10	4	14	10	15	25	2	2	2	2	2	9.8	9.8	9.8	9.8	9.8	21.8	33.8	15.8	25.8	21.8	75.17	76.82	54.48	88.97	75.17	49	9.8
5V15EC13	MAMATHA M	10	15	25	10	10	20	10	13	23	2	2	2	2	2	6.6	6.6	6.6	6.6	6.6	18.6	33.6	18.6	28.6	18.6	64.14	76.36	64.14	98.62	64.14	33	6.6
5V15EC14	NITHYA SHRI	10	15	25	10	3	13	10	13	23	2	2	2	2	2	10	10	10	10	10	22	37	15	25	22	75.86	84.09	51.72	86.21	75.86	50	10
5V15EC15	PADMA M A	10	15	25	10	14	24	11	10	21	2	2	2	2	2	5.6	5.6	5.6	5.6	5.6	17.6	32.6	21.6	31.6	18.6	60.69	74.09	74.48	109	64.14	28	5.6
5V15EC16	POOJA K S	10	15	25	10	15	25	10	11	21	2	2	2	2	2	8.6	8.6	8.6	8.6	8.6	20.6	35.6	25.6	35.6	20.6	71.03	80.91	86.28	122.8	71.03	43	8.6
5V15EC17	PRABIN KARO	10	15	25	10	7	17	10	12	22	2	2	2	2	2	10.2	10.2	10.2	10.2	10.2	22.2	37.2	19.2	29.2	22.2	76.55	84.55	66.21	100.7	76.55	51	10.2
5V15EC18	PRASHANT G	10	15	25	10	7	17	10	13	23	2	2	2	2	2	13.4	13.4	13.4	13.4	13.4	25.4	40.4	22.4	32.4	25.4	87.59	91.82	77.24	111.7	87.59	67	13.4
5V15EC19	PREETHI BAI	10	14	24	10	7	17	10	15	25	2	2	2	2	2	10.8	10.8	10.8	10.8	10.8	22.8	36.8	19.8	29.8	22.8	78.62	83.64	68.28	102.8	78.62	54	10.8
5V15EC20	PRIYANKA K	10	14	24	10	11	21	10	14	24	2	2	2	2	2	10	10	10	10	10	22	26	36	33	22	75.86	59.66	124.1	115.8	75.86	50	10
5V15EC21	RAKSHA M V	10	15	25	10	6	16	10	14	24	2	2	2	2	2	10.8	10.8	10.8	10.8	10.8	22.8	27.8	37.8	28.8	22.8	78.62	95.86	130.3	99.31	78.62	54	10.8
5V15EC22	RAMYA M G	10	14	24	10	8	18	10	15	25	2	2	2	2	2	10.8	10.8	10.8	10.8	10.8	22.8	26.8	36.8	30.8	22.8	78.62	92.41	126.9	106.2	78.62	54	10.8
5V15EC23	RANJITHA B S	10	14	24	10	15	25	10	15	25	2	2	2	2	2	8.4	8.4	8.4	8.4	8.4	20.4	24.4	34.4	35.4	20.4	70.34	84.14	118.6	122.1	70.34	42	8.4
5V15EC24	ROHITH P	10	14	24	10	2	12	10	12	22	2	2	2	2	2	8.4	8.4	8.4	8.4	8.4	20.4	24.4	34.4	22.4	20.4	70.34	84.14	118.6	77.24	70.34	42	8.4
5V15EC25	SAVITA HOSA	10	15	25	10	10	20	10	11	21	2	2	2	2	2	7.4	7.4	7.4	7.4	7.4	19.4	24.4	34.4	29.4	19.4	66.9	84.14	118.6	101.4	66.9	37	7.4
5V15EC26	SHALINI N	10	14	24	10	11	21	12	9	21	2	2	2	2	2	6.8	6.8	6.8	6.8	6.8	18.8	22.8	32.8	29.8	18.8	64.83	78.62	113.1	102.8	64.83	36	6.8
5V15EC27	SONA K R	10	14	24	10	14	24	10	11	21	2	2	2	2	2	6.2	6.2	6.2	6.2	6.2	18.2	22.2	32.2	32.2	18.2	62.76	76.55	111	111	62.76	31	6.2
5V15EC28	SOUMYA D H	20	15	35	10	7	17	10	13	23	2	2	2	2	2	9.4	9.4	9.4	9.4	9.4	31.4	26.4	46.4	28.4	21.4	108.3	91.03	160	97.93	73.79	47	9.4
5V15EC29	SUSHMA T N	10	9	19	4	3	7	11	11	22	2	2	2	2	2	8.6	8.6	8.6	8.6	8.6	20.6	19.6	29.6	17.6	14.6	71.03	67.59	102.1	60.69	50.34	43	8.6
5V15EC30	THOSHITHA	10	15	25	10	15	25	10	7	17	2	2	2	2	2	8.6	8.6	8.6	8.6	8.6	20.6	25.6	35.6	35.6	20.6	71.03	88.28	122.8	122.8	71.03	43	8.6
5V15EC31	VINAY S P	10	13	23	10	14	24	10	15	25	2	2	2	2	2	11.8	11.8	11.8	11.8	11.8	23.8	26.8	36.8	37.8	23.8	82.07	92.41	126.9	130.3	82.07	59	11.8
5V16EC40	ABDUL NAZE	10	13	23	4	4	8	10	15	25	2	2	2	2	2	12.4	12.4	12.4	12.4	12.4	24.4	27.4	37.4	22.4	18.4	84.14	94.48	129	77.24	63.45	62	12.4
5V16EC41	AISHWARYA	10	11	21	5	5	10	10	10	20	2	2	2	2	2	5.6	5.6	5.6	5.6	5.6	17.6	18.6	28.6	17.6	12.6	60.69	64.14	98.62	60.69	43.45	28	5.6
5V16EC42	BINDUSHREE	10	9	19	10	3	13	10	11	21	2	2	2	2	2	6	6	6	6	6	18	17	27	21	18	62.07	58.62	93.1	72.41	62.07	30	6
5V16EC43	CHIRANJEEV	10	9	19	5	5	10	10	7	17	2	2	2	2	2	5.8	5.8	5.8	5.8	5.8	17.8	16.8	26.8	17.8	12.8	61.38	57.93	92.41	61.38	44.14	29	5.8
5V16EC44	MANJUNATH	10	11	21	6	5	11	10	10	20	2	2	2	2	2	5.6	5.6	5.6	5.6	5.6	17.6	18.6	28.6	18.6	13.6	60.69	64.14	98.62	64.14	46.9	28	5.6
5V16EC45	MOHANKUM	10	10	20	10	3	13	10	10	20	2	2	2	2	2	8	8	8	8	8	20	20	30	23	20	68.97	68.97	103.4	79.31	68.97	40	8
5V16EC46	NANDINI L	10	10	20	10	7	17	10	15	25	2	2	2	2	2	5.6	5.6	5.6	5.6	5.6	17.6	17.6	27.6	24.6	17.6	60.69	60.69	95.17	84.83	60.69	28	5.6
5V16EC47	POOJA A	10	7	17	5	0	5	10	15	25	2	2	2	2	2	9	9	9	9	9	21	18	28	16	16	72.41	62.07	96.55	55.17	55.17	45	9
5V16EC48	RAMYA N K	10	14	24	6	5	11	7	7	14	2	2	2	2	2	5	5	5	5	5	17	21	31	18	13	58.62	72.41	106.9	62.07	44.83	25	5
5V16EC49	RAMYASHRE	12	13	25	10	4	14	12	12	24	2	2	2	2	2	7.6	7.6	7.6	7.6	7.6	21.6	22.6	34.6	23.6	19.6	74.48	77.93	119.3	81.38	67.59	38	7.6
5V16EC50	SOWNDARYA	12	12	24	10	8	18	10	13	23	2	2	2	2	2	8.2	8.2	8.2	8.2	8.2	22.2	22.2	34.2	28.2	20.2	76.55	76.55	117.9	97.24	69.66	41	8.2

75.86	81.52	91.77	101.1	72.98	43.74
					72.91

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Department of Electronics & Communication Engineering

Course Outcomes and CO-PO Articulation Matrix

2017 Scheme

Semester-V

Subject: MICRO CONTROLLER NAME OF FACULTY: PROF.PRABHITHA D K	**Subject Code: 17EC563**

CourseOutcomes

CO1	Explain the difference between Microprocessors & Microcontrollers, Architecture of 8051 Microcontroller, Interfacing of 8051 to external memory and Instruction set of 8051.
CO2	Write 8051 Assembly level programs using 8051 instruction set. Explain the Interrupt system, operation of Timers/Counters and Serial port of 8051.
CO3	Write 8051 Assembly language program to generate timings and waveforms using 8051 timers, to send & receive serial data using 8051 serial port and to generate an external interrupt using a switch.
CO4	Write 8051 C programs to generate square wave on 8051 I/O port pin using interrupt and to send & receive serial data using 8051 serial port.
CO5	Interface simple switches, simple LEDs, ADC 0804, LCD and Stepper Motor to 8051 using 8051 I/O ports

CO-PO Mapping

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

ATTAINMENT TABLE

COs	**AVG**	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
CO1	62.64%	1.23	1.23	1.23	1.23	1.25					0.63		0.63
CO2	71.21%	1.23	1.23	1.23	1.23	1.23					0.71		0.71
CO3	61.69%	1.25	1.25	1.25	1.25	1.25					1.25		0.62
CO4	60.34%	1.23	1.23	1.23	1.23	1.23					0.61		1.23
CO5	59.77%	1.19	1.19	1.19	1.19	1.19					0.59		0.59
AVERAGE		**1.12**	**1.12**	**1.12**	**1.15**	**1.14**					**0.76**		**0.75**
TOTAL ATTAINMENT													**1.02**

COURSE INSTRUCTOR

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Rgl No	USN	Name	T1(30)	T2(30)	T3(30)	CO1-15	CO2-15	CO3-15	CO3-15	CO4-15	CO5-15	CO1-2	CO2-2	CO3-2	CO4-2	CO5-2	SEE 60	CO1-12	CO2-12	CO3-12	CO4-12	CO5-12	CO1-39	CO2-44	CO3-39	CO4-39	CO5-39	TOTAL AVERAGE
1	[illegible]	NITHIN KUMAR C M	23	28	28	10	13	10	15	13	15	2	2	2	2	2	29	5.8	5.8	5.8	5.8	5.8	20.8	30.8	22.8	20.8	22.8	23.1
2	[illegible]	SUSHMA Y K	28	22	28	15	11	13	8	13	15	2	2	2	2	2	27	5.4	5.4	5.4	5.4	5.4	18.4	31.4	18.4	20.4	22.4	22.7
3	[illegible]	AFRA FATHIMA	12	30	28	10	2	15	15	12	14	2	2	2	2	2	27	5.4	5.4	5.4	5.4	5.4	9.4	24.4	22.4	19.4	21.4	20.6
4	[illegible]	[illegible]	14	19	27	7	7	6	13	12	15	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	13.2	19.2	19.2	18.2	21.2	18.8
5	[illegible]	DANIEL S	28	29	30	13	15	14	15	15	15	2	2	2	2	2	27	5.4	5.4	5.4	5.4	5.4	23.4	35.4	22.4	22.4	22.4	21.7
6	[illegible]	GEETHA M R	18	27	30	12	7	12	15	15	15	2	2	2	2	2	32	6.4	6.4	6.4	6.4	6.4	13.4	27.4	23.4	23.4	23.4	21.9
7	[illegible]	JITHENDRA H	13	8	23	6	7	7	1	11	12	2	2	2	2	2	16	3.2	3.2	3.2	3.2	3.2	12.2	19.2	6.2	16.2	17.2	18.4
8	[illegible]	MD TAJ HUSSAIN	18	27	27	10	9	15	12	14	13	2	2	2	2	2	11	2.2	2.2	2.2	2.2	2.2	13.2	28.2	28.2	18.2	17.2	18.4
9	[illegible]	NIDA NAWAZ	13	30	30	10	3	15	15	15	15	2	2	2	2	2	22	7.8	4.4	4.4	4.4	4.4	12.6	24.4	21.4	21.4	21.4	19.42
10	[illegible]	NISHA H	9	17	30	6	3	7	10	15	15	2	2	2	2	2	32	6.4	6.4	6.4	6.4	6.4	11.4	18.4	18.4	23.4	23.4	19.62
11	[illegible]	NIKHATH NAWAZ	24	30	30	13	11	15	15	15	15	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	20.9
12	[illegible]	RAKESH K L	14	19	20	7	7	8	11	15	5	2	2	2	2	2	29	5.8	5.8	5.8	5.8	5.8	14.8	22.8	18.8	22.8	13.8	20.6
13	[illegible]	REKHA K N	17	22	26	10	7	7	15	11	15	2	2	2	2	2	26	5.2	5.2	5.2	5.2	5.2	14.2	21.2	22.2	18.2	22.2	19
14	[illegible]	SAHANA C R	7	21	30	7	0	15	6	15	15	2	2	2	2	2	29	5.8	5.8	5.8	5.8	5.8	7.8	22.8	13.8	22.8	22.8	18.8
15	[illegible]	SAYEEDUNNISA	14	21	29	7	7	7	14	15	14	2	2	2	2	2	27	5.4	5.4	5.4	5.4	5.4	14.4	21.4	21.4	22.4	21.4	19.1
16	[illegible]	TEJASHWINI D	7	18	30	7	0	10	9	15	15	2	2	2	2	2	11	2.2	2.2	2.2	2.2	2.2	4.2	14.2	13.2	19.2	19.2	17.1
17	[illegible]	DIVYASHREE N	18	30	30	9	9	15	15	15	15	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	17.4
18	[illegible]	HEMA K P	19	28	29	15	4	13	15	15	14	2	2	2	2	2	14	2.8	2.8	2.8	2.8	2.8	8.8	21.8	19.8	19.8	18.8	19.3
19	[illegible]	LOKESHA G H	28	28	30	15	13	14	14	15	15	2	2	2	2	2	25	5	5	5	5	5	20	36	21	22	22	20.8
																							13.91684	25.24211	18.97895	20.66316	20.71579	
																							48.06%	57.37%	65.44%	71.25%	71.43%	

SUBJECT INSTRUCTOR

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Department of Electronics & Communication Engineering

Course Outcomes and CO-PO- Articulation Matrix

2017 Scheme
ACADEMIC YEAR 2017-18

Semester-VII

Subject: CCN Prof. PRABITHA D K	Subject Code: 10EC71

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	86%	1.24		0.62									0.62
CO2	84%	1.89	1.89	1.26			1.26						0.63
CO3	72%	1.8	1.8	1.2			1.2						0.60
CO4	77 %	1.59	1.59	1.06			1.06						0.53
CO5	77%	1.5											
AVERAGE		1.6	1.05	.82			0.70						0.47
TOTAL ATTAINMENT													0.928

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			10EC71		2017-2018 ODD					SEM VII SEM		TSP: Prof. PRABITHA D K					SUB CCN											
						T1		T2		T3		ASSIGNMENT 5/5					SEE	SEE MARKS					Final					
Roll No	USN	Name	T1(30)	T2(30)	T3(30)	CO1-15	CO2-15	CO2-15	CO3-15	CO4-15	CO5-15	CO1-1	CO2-1	CO3-1	CO4-1	CO5-1	80	CO1-16	CO2-16	CO3-16	CO4-16	CO5-16	CO1-32	CO2-47	CO3-32	CO4-32	CO5-32	TOTAL AVERAGE
1	[illegible]	H S SRINIVAS REDDY	20	23	23	10	10	13	10	10	13	1	1	1	1	1	49	9.8	9.8	9.8	9.8	9.8	20.8	20.8	23.8	20.8	20.8	21.4
2	[illegible]	MANJUNATHA M	20	18	18	10	10	8	10	10	8	1	1	1	1	1	36	7.2	7.2	7.2	7.2	7.2	18.2	18.2	16.2	18.2	18.2	17.8
3	[illegible]	RAGUVEER T P	20	14	14	10	10	4	10	10	4	1	1	1	1	1	60	12	12	12	12	12	23	23	17	23	23	21.8
4	[illegible]	SHAHBAN ALAM	5	8	8	5	5	8	0	0	8	1	1	1	1	1	53	10.6	10.6	10.6	10.6	10.6	16.6	16.6	19.6	11.6	11.6	15.2
5	[illegible]	SHRUTHI T KHATAVA[illegible]	20	22	22	10	10	12	10	10	12	1	1	1	1	1	45	9	9	9	9	9	20	20	22	20	20	20.4
6	[illegible]	SUMAN TAJ B K	20	21	21	10	10	11	10	10	11	1	1	1	1	1	45	9	9	9	9	9	20	20	21	20	20	20.2
7	[illegible]	VINAY S PATIL	16	15	15	8	8	7	8	8	7	1	1	1	1	1	38	7.6	7.6	7.6	7.6	7.6	18.6	18.6	23.6	16.6	16.6	16.4
8	[illegible]	[illegible]	18	17	17	9	9	8	9	9	8	1	1	1	1	1	42	8.4	8.4	8.4	8.4	8.4	18.4	18.4	17.4	18.4	18.4	18.2
9	[illegible]	[illegible]	21	5	28	10	11	5	5	14	14	1	1	1	1	1	76	15.2	15.2	15.2	15.2	15.2	26.2	27.2	21.2	30.2	30.2	27
10	[illegible]	[illegible]	10	6	15	10	0	1	5	4	11	1	1	1	1	1	46	9.2	9.2	9.2	9.2	9.2	20.2	10.2	11.2	14.2	14.2	14
11	[illegible]	[illegible]	18	15	11	5	13	10	5	7	4	1	1	1	1	1	51	10.2	10.2	10.2	10.2	10.2	16.2	24.2	21.2	18.2	18.2	19.6
12	[illegible]	[illegible]	18	15	8	5	13	10	5	4	4	1	1	1	1	1	47	9.4	9.4	9.4	9.4	9.4	15.4	23.4	20.4	14.4	14.4	17.6
13	[illegible]	[illegible]	18	15	17	10	8	10	5	4	13	1	1	1	1	1	66	13.2	13.2	13.2	13.2	13.2	24.2	22.2	24.2	18.2	18.2	21.4
14	[illegible]	[illegible]	14	13	22	10	4	0	13	13	9	1	1	1	1	1	45	9	9	9	9	9	20	18	10	23	23	18
15	[illegible]	[illegible]	16	17	13	8	8	8	7	9	4	1	1	1	1	1	57	11.4	11.4	11.4	11.4	11.4	20.4	20.4	20.4	21.4	21.4	20.8
16	[illegible]	[illegible]	22	18	15	10	12	10	8	2	13	1	1	1	1	1	62	12.4	12.4	12.4	12.4	12.4	23.4	25.4	23.4	15.4	15.4	20.6
17	[illegible]	[illegible]	19	5	27	8	11	5	0	13	14	1	1	1	1	1	47	9.4	9.4	9.4	9.4	9.4	18.4	21.4	15.4	23.4	23.4	20.4
18	[illegible]	[illegible]	17	18	19	10	7	10	8	5	14	1	1	1	1	1	58	11.6	11.6	11.6	11.6	11.6	22.6	19.6	22.6	17.6	17.6	20
19	[illegible]	[illegible]	18	21	27	10	8	8	13	14	13	1	1	1	1	1	78	15.6	15.6	15.6	15.6	15.6	26.6	24.6	24.6	30.6	30.6	27.4
20	[illegible]	[illegible]	23	15	25	10	13	10	5	13	12	1	1	1	1	1	57	11.4	11.4	11.4	11.4	11.4	22.4	25.4	22.4	25.4	25.4	24.2
21	[illegible]	[illegible]	1	16	20	0	1	10	6	12	8	1	1	1	1	1	69	13.8	13.8	13.8	13.8	13.8	14.8	15.8	24.8	26.8	26.8	21.8
22	[illegible]	[illegible]	21	13	16	10	11	0	13	8	8	1	1	1	1	1	44	8.8	8.8	8.8	8.8	8.8	19.8	20.8	9.8	17.8	17.8	17.2
23	[illegible]	[illegible]	19	13	20	10	9	0	13	8	12	1	1	1	1	1	37	7.4	7.4	7.4	7.4	7.4	18.4	17.4	8.4	16.4	16.4	15.4
24	[illegible]	[illegible]	23	13	23	10	13	0	13	12	11	1	1	1	1	1	69	13.8	13.8	13.8	13.8	13.8	24.8	27.8	14.8	26.8	26.8	24.2
25	[illegible]	[illegible]	13	23	23	0	13	10	13	11	12	1	1	1	1	1	46	9.2	9.2	9.2	9.2	9.2	10.2	23.2	20.2	21.2	21.2	19.2
26	[illegible]	[illegible]	10	13	24	0	10	10	5	12	12	1	1	1	1	1	61	12.2	12.2	12.2	12.2	12.2	13.2	23.2	23.2	25.2	25.2	22
27	[illegible]	[illegible]	20	13	25	10	10	0	13	12	13	1	1	1	1	1	55	11	11	11	11	11	22	22	12	24	24	20.8
28	[illegible]	[illegible]	26	25	26	13	13	13	10	13	13	1	1	1	1	1	68	13.6	13.6	13.6	13.6	13.6	29.6	25.6	29.6	27.6	27.6	28
29	[illegible]	[illegible]	21	21	26	10	11	10	11	13	13	1	1	1	1	1	49	9.8	9.8	9.8	9.8	9.8	20.8	21.8	20.8	23.8	23.8	22.2
30	[illegible]	[illegible]	21	23	27	10	11	10	13	13	14	1	1	1	1	1	67	13.4	13.4	13.4	13.4	13.4	24.4	25.4	24.4	27.4	27.4	25.8
31	[illegible]	[illegible]	21	22	27	11	10	11	11	14	13	1	1	1	1	1	51	10.2	10.2	10.2	10.2	10.2	22.2	21.2	22.2	25.2	25.2	23.2
32	[illegible]	[illegible]	23	25	23	11	10	13	10	13	10	1	1	1	1	1	80	16	16	16	16	16	28	27	32	30	30	29.4
33	[illegible]	[illegible]	12	15	10	6	6	6	7		10	1	1	1	1	1	60	12	12	12	12	12	19	19	21	13	13	17
34	[illegible]	[illegible]	20	22	15	10	10	12	10	15	0	1	1	1	1	1	66	13.2	13.2	13.2	13.2	13.2	24.2	24.2	26.2	29.2	29.2	26.6
35	[illegible]	[illegible]	7	10	7	9		9	10	0	7	1	1	1	1	1	40	8	8	8	8	8	16	9	18	9	9	12.2
	[illegible]	[illegible]	24	0	24	14	10	0	0	14	10	1	1	1	1	1	40	8	8	8	8	8	23	18	9	23	23	19.4
36	[illegible]	[illegible]	15	15	20	5	10	5	10	10	10	1	1	1	1	1	40	8	8	8	8	8	14	19	14	19	19	17
38	[illegible]	[illegible]	17	23	7	7	10	13	10	7	0	1	1	1	1	1	40	8	8	8	8	8	19	19	22	16	16	17.8
39	[illegible]	[illegible]	10	10	8	0	10	0	10	8	0	1	1	1	1	1	40	8	8	8	8	8	9	19	13	17	17	17.4
40	[illegible]	[illegible]	0	16	20	0	0	0	10	10	10	1	1	1	1	1	35	7	7	7	7	7	8	8	14	18	18	13.2
41	[illegible]	[illegible]	25	23	7	15	10	13	10	7	0	1	1	1	1	1	68	13.6	13.6	13.6	13.6	13.6	29.6	24.6	27.6	21.6	21.6	25
42	[illegible]	[illegible]	17	21	11	7	10	11	10	13	10	1	1	1	1	1	51	10.2	10.2	10.2	10.2	10.2	18.2	21.2	22.2	24.2	24.2	22
43	[illegible]	[illegible]	19	23	7	9	10	11	10	7	0	1	1	1	1	1	65	13	13	13	13	13	23	24	25	21	21	22.8
44	[illegible]	[illegible]	19	0	22	9	10	0	0	12	10	1	1	1	1	1	45	9	9	9	9	9	19	20	10	22	22	18.6
45	[illegible]	[illegible]	14	10	22	4	10	10	0	12	10	1	1	1	1	1	47	9.4	9.4	9.4	9.4	9.4	14.4	20.4	20.4	22.4	22.4	20
46	[illegible]	[illegible]	0	17	16	0	0	12	5	6	10	1	1	1	1	1	61	12.2	12.2	12.2	12.2	12.2	13.2	13.2	25.2	19.2	19.2	18
47	[illegible]	[illegible]	21	10	0	11	10	0	10	0	0	1	1	1	1	1	62	12.4	12.4	12.4	12.4	12.4	24.4	23.4	13.4	13.4	13.4	17.6
48	[illegible]	[illegible]	18	8	11	8	10	8	0	8	5	1	1	1	1	1	44	8.8	8.8	8.8	8.8	8.8	17.8	19.8	17.8	13.8	13.8	17.4
49	[illegible]	[illegible]	10	16	12	5	5	6	10	6	6	1	1	1	1	1	48	9.6	9.6	9.6	9.6	9.6	15.6	15.6	16.6	16.6	16.6	16.2
50	[illegible]	[illegible]	10	14	21	7	3	9	8	11	10	1	1	1	1	1	58	11.6	11.6	11.6	11.6	11.6	19.6	15.6	21.6	23.6	23.6	20.8
51	[illegible]	[illegible]	13	15	6	5	10	5	10	6	0	1	1	1	1	1	61	12.2	12.2	12.2	12.2	12.2	18.2	23.2	18.2	19.2	19.2	19.6
52	[illegible]	[illegible]	5	21	22	0	5	11	10	12	10	1	1	1	1	1	50	10	10	10	10	10	11	16	22	23	23	19
53	[illegible]	[illegible]	18	10	5	8	10	0	10	5	0	1	1	1	1	1	51	10.2	10.2	10.2	10.2	10.2	19.2	21.2	11.2	16.2	16.2	16.8
54	[illegible]	[illegible]	13	9	24	5	10	9	0	14	10	1	1	1	1	1	40	8	8	8	8	8	14	19	18	23	23	19.4
55	[illegible]	[illegible]	13	10	15	5	10	0	10	5	10	1	1	1	1	1	40	8	8	8	8	8	14	19	9	14	14	14
56	[illegible]	[illegible]	14	7	15	4	10	0	7	5	10	1	1	1	1	1	12	2.4	2.4	2.4	2.4	2.4	7.4	13.4	3.4	8.4	8.4	8.2
57	[illegible]	H S SRINIVAS REDDY	15	16	15	10	5	10	6	10	5	1	1	1	1	1	58	11.6	11.6	11.6	11.6	11.6	22.6	17.6	22.6	22.6	22.6	21.6
58	[illegible]	MANJUNATHA M	16	10	16	8	10	5	5	10	6	1	1	1	1	1	61	12.2	12.2	12.2	12.2	12.2	19.2	23.2	18.2	23.2	23.2	21.4
59	[illegible]	RAGUVEER T P	20	23	19	10	10	10	13	10	9	1	1	1	1	1	50	10	10	10	10	10	21	21	21	21	21	21
60	[illegible]	SHAHBAN ALAM	10	8	16	0	10	0	8	11	5	1	1	1	1	1	51	10.2	10.2	10.2	10.2	10.2	11.2	21.2	11.2	22.2	22.2	17.6
61	[illegible]	SHRUTHI T KHATAVA[illegible]	23	13	23	13	10	0	13	13	10	1	1	1	1	1	40	8	8	8	8	8	22	19	9	22	22	18.8
62	[illegible]	SUMAN TAJ B K	13	23	22	10	5	10	13	10	12	1	1	1	1	1	40	8	8	8	8	8	19	14	19	19	19	18
63	[illegible]	VINAY S PATIL	23	9	21	10	13	5	4	10	11	1	1	1	1	1	45	9	9	9	9	9	20	23	15	20	20	19.6
64	[illegible]	[illegible]	18	18	19	10	8	5	13	10	9	1	1	1	1	1	40	8	8	8	8	8	19	17	14	19	19	17.6
65	[illegible]	Shruthi D S	15	14	20	10	5	10	4	10	10	1	1	1	1	1	35	7	7	7	7	7	18	13	18	18	18	17
66	[illegible]	Padmesh Shekar	19	13	16	9	10	10	5	8	8	1	1	1	1	1	37	7.4	7.4	7.4	7.4	7.4	17.4	18.4	18.4	16.4	16.4	17.4
																							86.0512	84.1121	72.2412	77.5341	77.1145	

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Department of Electronics & Communication Engineering

Course Outcomes and CO-PO- Articulation Matrix

2017 Scheme
ACADEMIC YEAR 2017-18

Semester-VII

Subject: POWER ELECTRONICS Prof. HARIPRIYA R	Subject Code: 10EC73

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	86%	1.24		0.62									0.62
CO2	84%	1.89	1.89	1.26			1.26						0.63
CO3	72%	1.8	1.8	1.2			1.2						0.60
CO4	77 %	1.59	1.59	1.06			1.06						0.53
CO5	77%	1.5											
AVERAGE		1.6	1.05	.82			0.70						0.47
TOTAL ATTAINMENT													0.928

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			10EC73		2017-2018 ODD					SEM :VII SEM		TSP: Prof. HARIPRIYA S						SUB: POWER ELECTRONICS											
						T1		T2		T3		ASSIGNMENT 5/5						SEE	SEE MARKS					Final					TOTAL AVERAGE
Roll No	USN	Name	T1(30)	T2(30)	T3(30)	CO1-15	CO2-15	CO2-15	CO3-15	CO4-15	CO5-15	CO1-1	CO2-1	CO3-1	CO4-1	CO5-1	80	CO1-16	CO2-16	CO3-16	CO4-16	CO5-16	CO1-32	CO2-47	CO3-32	CO4-32	CO5-32	
1	1SV15EC007	[illegible]	20	25	23	10	10	13	10	10	13	1	1	1	1	1	49	9.8	9.8	9.8	9.8	9.8	20.8	20.8	23.8	20.8	20.8	21.4
2	1SV15EC024	[illegible]	20	18	18	10	10	8	10	10	8	1	1	1	1	1	36	7.2	7.2	7.2	7.2	7.2	18.2	18.2	16.2	18.2	18.2	17.8
3	1SV15EC036	[illegible]	20	14	14	10	10	4	10	10	4	1	1	1	1	1	60	12	12	12	12	12	23	23	17	23	23	21.8
4	1SV15EC040	[illegible]	5	8	8	5	5	8	0	0	8	1	1	1	1	1	53	10.6	10.6	10.6	10.6	10.6	15.6	16.6	19.6	11.6	11.6	15.2
5	1SV15EC047	[illegible]	20	22	21	10	10	12	10	10	12	1	1	1	1	1	45	9	9	9	9	9	20	20	22	20	20	20.4
6	1SV15EC048	[illegible]	20	21	21	10	10	11	10	10	11	1	1	1	1	1	45	9	9	9	9	9	20	20	21	20	20	20.2
7	1SV15EC057	[illegible]	16	15	15	8	8	7	8	8	7	1	1	1	1	1	38	7.6	7.6	7.6	7.6	7.6	16.6	16.6	15.6	16.6	16.6	16.4
8	1SV15EC058	[illegible]	18	17	17	9	9	9	9	9	9	1	1	1	1	1	42	8.4	8.4	8.4	8.4	8.4	18.4	18.4	17.4	18.4	18.4	18.2
9	1SV15EC060	[illegible]	21	5	28	10	11	5	5	14	14	1	1	1	1	1	76	15.2	15.2	15.2	15.2	15.2	26.2	27.2	21.2	30.2	30.2	27
10	1SV15EC061	[illegible]	10	6	15	10	0	1	5	4	11	1	1	1	1	1	46	9.2	9.2	9.2	9.2	9.2	20.2	10.2	11.2	14.2	14.2	14
11	1SV15EC063	[illegible]	18	15	11	5	13	10	5	7	4	1	1	1	1	1	51	10.2	10.2	10.2	10.2	10.2	16.2	24.2	21.2	18.2	18.2	19.6
12	1SV15EC064	[illegible]	18	15	8	5	13	10	5	4	4	1	1	1	1	1	47	9.4	9.4	9.4	9.4	9.4	15.4	23.4	20.4	14.4	14.4	17.6
13	1SV15EC065	[illegible]	18	15	17	10	8	10	5	4	13	1	1	1	1	1	66	13.2	13.2	13.2	13.2	13.2	24.2	22.2	24.2	18.2	18.2	21.4
14	1SV15EC066	[illegible]	14	13	22	10	4	0	13	13	9	1	1	1	1	1	45	9	9	9	9	9	20	14	10	23	23	18
15	1SV15EC067	[illegible]	16	15	13	8	8	8	7	9	4	1	1	1	1	1	57	11.4	11.4	11.4	11.4	11.4	20.4	20.4	20.4	21.4	21.4	20.8
16	1SV15EC068	[illegible]	22	18	15	10	12	10	8	2	13	1	1	1	1	1	62	12.4	12.4	12.4	12.4	12.4	23.4	25.4	23.4	15.4	15.4	20.6
17	1SV15EC069	[illegible]	19	5	27	8	11	5	0	13	14	1	1	1	1	1	47	9.4	9.4	9.4	9.4	9.4	18.4	21.4	15.4	23.4	23.4	20.4
18	1SV15EC071	[illegible]	17	18	19	10	7	10	8	5	14	1	1	1	1	1	58	11.6	11.6	11.6	11.6	11.6	22.6	19.6	22.6	17.6	17.6	20
19	1SV15EC072	[illegible]	18	21	27	10	8	8	13	14	13	1	1	1	1	1	78	15.6	15.6	15.6	15.6	15.6	26.6	24.6	24.6	30.6	30.6	27.4
20	1SV15EC073	[illegible]	23	15	25	10	13	10	5	13	12	1	1	1	1	1	57	11.4	11.4	11.4	11.4	11.4	22.4	25.4	22.4	25.4	25.4	24.2
21	1SV15EC074	[illegible]	1	16	20	0	1	10	6	12	8	1	1	1	1	1	69	13.8	13.8	13.8	13.8	13.8	14.8	15.8	24.8	26.8	26.8	21.8
22	1SV15EC075	[illegible]	21	13	16	10	11	0	13	8	8	1	1	1	1	1	44	8.8	8.8	8.8	8.8	8.8	19.8	20.8	9.8	17.8	17.8	17.2
23	1SV15EC076	[illegible]	19	13	20	10	9	0	13	8	12	1	1	1	1	1	37	7.4	7.4	7.4	7.4	7.4	18.4	17.4	8.4	16.4	16.4	15.4
24	1SV15EC079	[illegible]	23	13	23	10	13	0	13	12	11	1	1	1	1	1	69	13.8	13.8	13.8	13.8	13.8	24.8	27.8	14.8	26.8	26.8	24.2
25	1SV15EC080	[illegible]	13	23	23	0	13	10	13	11	12	1	1	1	1	1	46	9.2	9.2	9.2	9.2	9.2	10.2	23.2	20.2	21.2	21.2	19.2
26	1SV15EC082	[illegible]	10	13	24	0	10	10	5	12	12	1	1	1	1	1	61	12.2	12.2	12.2	12.2	12.2	13.2	23.2	23.2	25.2	25.2	22
27	1SV15EC083	[illegible]	20	13	25	10	10	0	13	12	13	1	1	1	1	1	55	11	11	11	11	11	22	22	12	24	24	20.8
28	1SV15EC084	[illegible]	26	25	26	13	13	13	10	13	13	1	1	1	1	1	68	13.6	13.6	13.6	13.6	13.6	29.6	25.6	29.6	27.6	27.6	28
29	1SV15EC085	[illegible]	21	21	26	10	11	10	11	13	13	1	1	1	1	1	49	9.8	9.8	9.8	9.8	9.8	20.8	21.8	20.8	23.8	23.8	22.2
30	1SV15EC086	[illegible]	21	21	27	10	11	10	13	13	14	1	1	1	1	1	67	13.4	13.4	13.4	13.4	13.4	24.4	25.4	24.4	27.4	27.4	25.8
31	1SV15EC087	[illegible]	21	22	27	11	10	13	11	14	13	1	1	1	1	1	51	10.2	10.2	10.2	10.2	10.2	22.2	21.2	22.2	25.2	25.2	23.2
32	1SV15EC088	[illegible]	21	25	23	11	10	13	10	13	10	1	1	1	1	1	80	16	16	16	16	16	28	27	32	30	30	29.4
33	1SV15EC089	[illegible]	12	15	10	6	6	8	7		10	1	1	1	1	1	60	12	12	12	12	12	19	19	21	13	13	17
34	1SV15EC094	[illegible]	20	22	15	10	10	12	10	15	0	1	1	1	1	1	66	13.2	13.2	13.2	13.2	13.2	24.2	24.2	26.2	29.2	29.2	26.6
35	1SV15EC095	[illegible]	7	19	7	7		9	10	0	7	1	1	1	1	1	40	8	8	8	8	8	16	9	18	9	9	12.2
36	1SV15EC096	[illegible]	24	0	24	14	10	0	0	14	10	1	1	1	1	1	40	8	8	8	8	8	23	10	9	23	23	19.4
	1SV15EC097	[illegible]	15	15	20	5	10	5	10	10	10	1	1	1	1	1	40	8	8	8	8	8	14	19	14	19	19	17
37	1SV15EC098	[illegible]	17	23	7	7	10	13	10	7	0	1	1	1	1	1	40	8	8	8	8	8	16	19	22	16	16	17.8
38	1SV15EC099	[illegible]	10	16	8	0	10	6	10	8	0	1	1	1	1	1	40	8	8	8	8	8	9	19	15	17	17	15.4
39	1SV15EC100	[illegible]	0	16	20	0	0	6	10	10	10	1	1	1	1	1	33	7	7	7	7	7	8	8	14	18	18	13.2
40	1SV15EC101	[illegible]	25	23	7	15	10	13	10	7	0	1	1	1	1	1	68	13.6	13.6	13.6	13.6	13.6	29.6	24.6	27.6	21.6	21.6	25
41	1SV15EC102	[illegible]	17	21	23	7	10	11	10	13	10	1	1	1	1	1	51	10.2	10.2	10.2	10.2	10.2	18.2	21.2	22.2	24.2	24.2	22
42	1SV15EC103	[illegible]	19	21	7	9	10	11	10	7	0	1	1	1	1	1	65	13	13	13	13	13	23	24	25	21	21	22.8
43	1SV15EC104	[illegible]	19	6	22	9	10	0	0	12	10	1	1	1	1	1	45	9	9	9	9	9	19	20	10	22	22	18.6
44	1SV15EC105	[illegible]	14	10	22	4	10	10	0	12	10	1	1	1	1	1	47	9.4	9.4	9.4	9.4	9.4	14.4	20.4	20.4	22.4	22.4	20
45	1SV15EC106	[illegible]	0	17	16	0	0	12	5	6	10	1	1	1	1	1	61	12.2	12.2	12.2	12.2	12.2	13.2	13.2	25.2	19.2	19.2	18
46	1SV15EC107	[illegible]	21	10	0	11	10	0	10	0	0	1	1	1	1	1	62	12.4	12.4	12.4	12.4	12.4	24.4	23.4	13.4	13.4	13.4	17.6
47	1SV15EC108	[illegible]	18	8	11	8	10	8	0	6	5	1	1	1	1	1	44	8.8	8.8	8.8	8.8	8.8	17.8	19.8	17.8	15.8	15.8	17.4
48	1SV15EC109	[illegible]	10	16	12	5	5	6	10	6	6	1	1	1	1	1	48	9.6	9.6	9.6	9.6	9.6	15.6	15.6	16.6	16.6	16.6	16.2
49	1SV15EC401	[illegible]	10	14	21	7	3	9	5	11	10	1	1	1	1	1	58	11.6	11.6	11.6	11.6	11.6	19.6	15.6	21.6	23.6	23.6	20.8
50	1SV15EC402	[illegible]	15	15	6	5	10	5	10	6	0	1	1	1	1	1	61	12.2	12.2	12.2	12.2	12.2	18.2	23.2	18.2	19.2	19.2	19.6
51	1SV15EC403	[illegible]	9	21	23	0	5	11	10	12	10	1	1	1	1	1	50	10	10	10	10	10	11	16	22	23	23	19
52	1SV15EC404	[illegible]	18	10	8	8	10	0	10	5	0	1	1	1	1	1	51	10.2	10.2	10.2	10.2	10.2	19.2	21.2	11.2	16.2	16.2	16.8
53	1SV15EC405	[illegible]	15	9	24	5	10	9	0	14	10	1	1	1	1	1	40	8	8	8	8	8	14	19	18	23	23	19.4
54	1SV15EC406	[illegible]	15	10	15	5	10	0	10	5	10	1	1	1	1	1	40	8	8	8	8	8	14	19	9	14	14	14
55	1SV15EC407	[illegible]	14	7	15	4	10	0	7	5	10	1	1	1	1	1	12	2.4	2.4	2.4	2.4	2.4	7.4	13.4	3.4	8.4	8.4	8.2
56	1SV15EC408	[illegible]	15	16	15	10	5	10	6	10	5	1	1	1	1	1	58	11.6	11.6	11.6	11.6	11.6	22.6	17.6	22.6	22.6	22.6	21.8
57	1SV15EC409	[illegible]	16	10	16	8	10	5	5	10	6	1	1	1	1	1	61	12.2	12.2	12.2	12.2	12.2	19.2	23.2	18.2	23.2	23.2	21.4
58	1SV15EC410	[illegible]	20	23	19	10	10	10	13	10	9	1	1	1	1	1	50	10	10	10	10	10	21	21	21	21	21	21
59	1SV15EC411	[illegible]	10	8	16	0	10	0	8	11	5	1	1	1	1	1	51	10.2	10.2	10.2	10.2	10.2	11.2	21.2	11.2	22.2	22.2	17.6
60	1SV15EC412	[illegible]	23	13	23	13	10	0	13	13	10	1	1	1	1	1	40	8	8	8	8	8	22	19	9	22	22	18.8
61	1SV15EC413	[illegible]	15	23	22	10	5	10	13	10	12	1	1	1	1	1	40	8	8	8	8	8	19	14	19	19	19	18
62	1SV15EC414	[illegible]	23	9	21	10	13	5	4	10	11	1	1	1	1	1	43	9	9	9	9	9	20	23	15	20	20	19.6
63	1SV15EC415	[illegible]	18	18	19	10	8	5	13	10	9	1	1	1	1	1	40	8	8	8	8	8	19	17	14	19	19	17.6
64	1SV15EC416	Shruthi D S	13	14	20	10	5	10	4	10	10	1	1	1	1	1	35	7	7	7	7	7	18	13	18	18	18	17
65	1SV15EC417	Padmesh S	19	15	16	9	10	10	7	8	8	1	1	1	1	1	37	7.4	7.4	7.4	7.4	7.4	17.4	18.4	18.4	10.4	10.4	17.4
																							86.0512	84.1121	72.2412	77.5341	77.1345	

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

Department of Electronics & Communication Engineering

Course Outcomes and CO-PO- Articulation Matrix

2017 Scheme
ACADEMIC YEAR 2017-18

Semester-VII

Subject: ESD Prof. Latha K	Subject Code: 10EC74

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	86%	1.24		0.62									0.62
CO2	84%	1.89	1.89	1.26			1.26						0.63
CO3	72%	1.8	1.8	1.2			1.2						0.60
CO4	77 %	1.59	1.59	1.06			1.06						0.53
CO5	77%	1.5											
AVERAGE		1.6	1.05	.82			0.70						0.47
TOTAL ATTAINMENT													0.928

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			10EC74		2017-2018 ODD				SEM :VII SEM		TSP: Prof. LATHA K					SUB: ESD											
							T1	T2		T3		ASSIGNMENT 5/5					SEE	SEE MARKS					Final				
Roll No.	USN	Name	T1(30)	T2(30)	T3(30)	CO1-15	CO2-15	CO2-15	CO3-15	CO4-15	CO5-15	CO1-1	CO2-1	CO3-1	CO4-1	CO5-1	80	CO1-16	CO2-16	CO3-16	CO4-16	CO5-16	CO1-32	CO2-47	CO3-32	CO4-32	CO5-32	TOTAL AVERAGE
1	[illegible]	[illegible]	20	23	23	10	10	13	10	10	13	1	1	1	1	1	49	9.8	9.8	9.8	9.8	9.8	20.8	20.8	21.8	20.8	20.8	21.4
2	[illegible]	MANJUNATHA M	20	18	18	10	10	8	10	10	8	1	1	1	1	1	36	7.2	7.2	7.2	7.2	7.2	18.2	18.2	16.2	18.2	18.2	17.8
3	[illegible]	[illegible]	20	14	14	10	10	4	10	10	4	1	1	1	1	1	60	12	12	12	12	12	23	23	17	23	23	21.8
4	[illegible]	SHAHBAN ALAM	5	8	8	5	5	8	0	0	8	1	1	1	1	1	53	10.6	10.6	10.6	10.6	10.6	16.6	16.6	19.6	11.6	11.6	15.2
5	[illegible]	[illegible]	20	22	22	10	10	12	10	10	12	1	1	1	1	1	45	9	9	9	9	9	20	20	22	20	20	20.4
6	[illegible]	SUMAN TAJ R K	20	21	21	10	10	11	10	10	11	1	1	1	1	1	45	9	9	9	9	9	20	20	21	20	20	20.2
7	[illegible]	VINAY R PATIL	16	15	15	8	8	7	8	8	7	1	1	1	1	1	38	7.6	7.6	7.6	7.6	7.6	16.6	16.6	15.6	16.6	16.6	16.4
8	[illegible]	[illegible]	18	17	17	9	9	8	9	9	8	1	1	1	1	1	42	8.4	8.4	8.4	8.4	8.4	18.4	18.4	17.4	18.4	18.4	18.2
9	[illegible]	[illegible]	21	5	28	10	11	3	3	14	14	1	1	1	1	1	76	15.2	15.2	15.2	15.2	15.2	26.2	27.2	21.2	30.2	30.2	27
10	[illegible]	[illegible]	10	6	15	10	0	1	5	4	11	1	1	1	1	1	46	9.2	9.2	9.2	9.2	9.2	20.2	10.2	11.2	14.2	14.2	14
11	[illegible]	[illegible]	18	15	11	5	13	10	5	7	4	1	1	1	1	1	51	10.2	10.2	10.2	10.2	10.2	16.2	24.2	21.2	18.2	18.2	19.6
12	[illegible]	[illegible]	18	15	8	5	13	10	3	4	4	1	1	1	1	1	47	9.4	9.4	9.4	9.4	9.4	15.4	23.4	20.4	14.4	14.4	17.6
13	[illegible]	[illegible]	18	15	17	10	8	10	5	4	13	1	1	1	1	1	66	13.2	13.2	13.2	13.2	13.2	24.2	22.2	24.2	18.2	18.2	21.4
14	[illegible]	[illegible]	14	13	22	10	4	0	13	13	9	1	1	1	1	1	45	9	9	9	9	9	20	14	10	23	23	18
15	[illegible]	[illegible]	16	15	23	8	8	8	7	9	4	1	1	1	1	1	57	11.4	11.4	11.4	11.4	11.4	20.4	20.4	20.4	21.4	21.4	20.8
16	[illegible]	[illegible]	22	18	15	10	12	10	8	2	13	1	1	1	1	1	62	12.4	12.4	12.4	12.4	12.4	23.4	23.4	23.4	15.4	15.4	20.6
17	[illegible]	[illegible]	19	5	27	8	11	5	0	13	14	1	1	1	1	1	47	9.4	9.4	9.4	9.4	9.4	18.4	21.4	15.4	23.4	23.4	20.4
18	[illegible]	IRFA SULTANA	17	18	19	10	7	10	8	5	14	1	1	1	1	1	58	11.6	11.6	11.6	11.6	11.6	22.6	19.6	22.6	17.6	17.6	20
19	[illegible]	K PRIYANKA	18	21	27	10	8	8	13	14	13	1	1	1	1	1	78	15.6	15.6	15.6	15.6	15.6	26.6	24.6	24.6	30.6	30.6	27.4
20	[illegible]	KAVYA D N	23	13	23	10	13	10	5	13	12	1	1	1	1	1	57	11.4	11.4	11.4	11.4	11.4	22.4	25.4	22.4	25.4	25.4	24.2
21	[illegible]	[illegible]	1	16	20	0	1	10	6	12	8	1	1	1	1	1	69	13.8	13.8	13.8	13.8	13.8	14.8	19.8	24.8	26.8	26.8	21.8
22	[illegible]	[illegible]	21	13	16	10	13	0	13	8	8	1	1	1	1	1	44	8.8	8.8	8.8	8.8	8.8	19.8	20.8	9.8	17.8	17.8	17.2
23	[illegible]	[illegible]	19	13	20	10	9	0	13	8	12	1	1	1	1	1	37	7.4	7.4	7.4	7.4	7.4	18.4	17.4	8.4	16.4	16.4	15.4
24	[illegible]	[illegible]	23	13	23	10	13	0	13	12	11	1	1	1	1	1	69	13.8	13.8	13.8	13.8	13.8	24.8	27.8	14.8	26.8	26.8	24.2
25	[illegible]	NITISH KUMAR	13	23	13	0	13	10	13	11	12	1	1	1	1	1	46	9.2	9.2	9.2	9.2	9.2	10.2	23.2	20.2	21.2	21.2	19.2
26	[illegible]	PAVAN B S	10	13	24	0	10	10	1	12	12	1	1	1	1	1	61	12.2	12.2	12.2	12.2	12.2	13.2	23.2	23.2	25.2	25.2	22
27	[illegible]	PRIYA NAIK	20	13	23	10	10	0	13	22	13	1	1	1	1	1	55	11	11	11	11	11	22	22	12	24	24	20.8
28	[illegible]	[illegible]	20	25	26	13	11	13	10	13	13	1	1	1	1	1	68	13.6	13.6	13.6	13.6	13.6	29.6	25.6	29.6	27.6	27.6	28
29	[illegible]	[illegible]	21	21	26	10	11	10	11	13	13	1	1	1	1	1	49	9.8	9.8	9.8	9.8	9.8	20.8	21.8	20.8	23.8	23.8	22.2
30	[illegible]	[illegible]	21	23	27	10	11	10	13	13	14	1	1	1	1	1	67	13.4	13.4	13.4	13.4	13.4	24.4	25.4	24.4	27.4	27.4	25.8
31	[illegible]	[illegible]	21	22	27	11	10	11	11	14	13	1	1	1	1	1	51	10.2	10.2	10.2	10.2	10.2	22.2	21.2	22.2	25.2	25.2	23.2
32	[illegible]	[illegible]	21	23	23	11	10	13	10	11	10	1	1	1	1	1	80	16	16	16	16	16	28	27	32	30	30	29.4
33	[illegible]	[illegible]	12	13	10	6	6	8	7		10	1	1	1	1	1	60	12	12	12	12	12	19	19	21	13	13	17
34	[illegible]	[illegible]	20	22	13	10	10	12	10	13	0	1	1	1	1	1	66	13.2	13.2	13.2	13.2	13.2	24.2	24.2	26.2	29.2	29.2	26.6
35	[illegible]	[illegible]	7	19	7	7		9	10	0	7	1	1	1	1	1	40	8	8	8	8	8	16	9	18	9	9	12.2
	[illegible]	[illegible]	24	0	24	14	10	0	0	14	10	1	1	1	1	1	40	8	8	8	8	8	23	19	9	23	23	19.4
36	[illegible]	[illegible]	13	13	20	3	10	3	10	10	10	1	1	1	1	1	40	8	8	8	8	8	14	19	14	19	19	17
38	[illegible]	[illegible]	17	23	7	7	10	13	10	7	0	1	1	1	1	1	40	8	8	8	8	8	16	19	22	16	16	17.8
39	[illegible]	[illegible]	10	10	8	0	10	0	10	8	0	1	1	1	1	1	40	8	8	8	8	8	9	19	15	17	17	13.4
40	[illegible]	[illegible]	0	16	20	0	0	0	10	10	10	1	1	1	1	1	35	7	7	7	7	7	8	8	14	18	18	13.2
41	[illegible]	[illegible]	23	23	7	15	10	13	10	7	0	1	1	1	1	1	68	13.6	13.6	13.6	13.6	13.6	29.6	24.6	27.6	21.6	21.6	25
42	[illegible]	[illegible]	17	23	23	7	10	11	10	13	10	1	1	1	1	1	51	10.2	10.2	10.2	10.2	10.2	18.2	21.2	22.2	24.2	24.2	22
43	[illegible]	[illegible]	19	23	7	9	10	11	10	7	0	1	1	1	1	1	65	13	13	13	13	13	23	24	25	21	21	22.8
44	[illegible]	[illegible]	19	0	23	9	10	0	0	12	10	1	1	1	1	1	45	9	9	9	9	9	19	20	10	22	22	18.6
45	[illegible]	[illegible]	14	10	22	4	10	10	0	12	10	1	1	1	1	1	47	9.4	9.4	9.4	9.4	9.4	14.4	20.4	20.4	22.4	22.4	20
46	[illegible]	[illegible]	0	17	16	0	0	12	5	6	10	1	1	1	1	1	61	12.2	12.2	12.2	12.2	12.2	13.2	13.2	25.2	19.2	19.2	18
47	[illegible]	[illegible]	21	10	0	11	10	0	10	0	0	1	1	1	1	1	62	12.4	12.4	12.4	12.4	12.4	24.4	23.4	13.4	13.4	13.4	17.6
48	[illegible]	[illegible]	18	8	11	8	10	8	0	6	5	1	1	1	1	1	44	8.8	8.8	8.8	8.8	8.8	17.8	19.8	17.8	15.8	15.8	17.4
49	[illegible]	[illegible]	10	16	12	3	3	6	10	6	6	1	1	1	1	1	48	9.6	9.6	9.6	9.6	9.6	15.6	17.6	16.6	16.6	16.6	16.2
50	[illegible]	[illegible]	10	14	21	7	3	9	5	11	10	1	1	1	1	1	58	11.6	11.6	11.6	11.6	11.6	19.6	13.6	21.6	23.6	23.6	20.8
51	[illegible]	[illegible]	15	15	6	3	10	5	10	6	0	1	1	1	1	1	61	12.2	12.2	12.2	12.2	12.2	18.2	23.2	18.2	19.2	19.2	19.8
52	[illegible]	[illegible]	5	21	22	0	5	11	10	12	10	1	1	1	1	1	50	10	10	10	10	10	11	16	22	23	23	19
53	[illegible]	[illegible]	18	10	3	8	10	0	10	5	0	1	1	1	1	1	51	10.2	10.2	10.2	10.2	10.2	19.2	21.2	11.2	16.2	16.2	16.8
54	[illegible]	[illegible]	13	9	24	5	10	9	0	14	10	1	1	1	1	1	40	8	8	8	8	8	14	19	18	23	23	19.4
55	[illegible]	[illegible]	15	10	15	5	10	0	10	5	10	1	1	1	1	1	40	8	8	8	8	8	14	19	9	14	14	14
56	[illegible]	[illegible]	14	7	15	4	10	0	7	5	10	1	1	1	1	1	17	2.4	2.4	2.4	2.4	2.4	7.4	13.4	3.4	8.4	8.4	8.2
57	[illegible]	[illegible]	13	16	15	10	5	10	0	10	5	1	1	1	1	1	58	11.6	11.6	11.6	11.6	11.6	22.6	17.6	22.6	22.6	22.6	21.6
58	[illegible]	MANJUNATHA M	16	10	16	6	10	5	5	10	6	1	1	1	1	1	61	12.2	12.2	12.2	12.2	12.2	19.2	23.2	18.2	23.2	23.2	21.4
59	[illegible]	[illegible]	20	25	19	10	10	10	13	10	9	1	1	1	1	1	50	10	10	10	10	10	21	21	21	21	21	21
60	[illegible]	SHAHBAN ALAM	10	8	16	0	10	0	8	11	5	1	1	1	1	1	51	10.2	10.2	10.2	10.2	10.2	11.2	21.2	11.2	22.2	22.2	17.6
61	[illegible]	[illegible]	23	13	23	13	10	0	13	13	10	1	1	1	1	1	40	8	8	8	8	8	22	19	9	22	22	18.8
62	[illegible]	SUMAN TAJ R K	15	23	22	10	5	10	13	10	12	1	1	1	1	1	40	8	8	8	8	8	19	14	19	19	19	18
63	[illegible]	VINAY R PATIL	23	9	21	10	13	5	4	10	11	1	1	1	1	1	45	9	9	9	9	9	20	23	15	20	20	19.6
64	[illegible]	[illegible]	18	18	19	10	8	5	13	10	9	1	1	1	1	1	40	8	8	8	8	8	19	17	14	19	19	17.6
65	[illegible]	Shruthi D S	15	14	20	10	5	10	[illegible]	10	10	1	1	1	1	1	35	7	7	7	7	7	18	13	18	18	18	17
66	[illegible]	Padmesh Shekar	15	15	16	9	10	10	[illegible]	8	8	1	1	1	1	1	37	7.4	7.4	7.4	7.4	7.4	17.4	18.4	18.4	16.4	16.4	17.4
																							80.0512	86.1121	72.2412	77.5381	77.1345	

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DEPARTMENT OF ELECTRONICS & COMMUNICATION

SEM: VIII ACADEMIC YEAR:2017-2018

SUBJECT	OPTICAL FIBER COMMUNICATION	SUBJECT CODE	15EC82

COURSE OUTCOME

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

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

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

CO4 Illustrate the Optical fiber networks and its standards

CO5. Apply Fiber optics and networks in communications

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	Prof.AIJAZ AHAMED SHARIEF											
BRANCH	ECE			ACADEMIC YEAR			2017-2018					
COURSE	B.E	SEMESTER		VII	SECTION		A					
SUBJECT	OPTICAL FIBER COMMUNICATION					SUBJECT CODE	15EC82					
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	1		1					2	1		1
CO2	3	3	1	1	1	1	1		2	1		1
CO3	3	2	1	1	1				2	1		1
CO4	3	2	1	2	1				2	1		2
CO5	3	2	2	2	2	1	1		3	1	1	3
AVERAGE	3	2	1.25	1.4	1.25	1	1			1	1	
OVERALL MAPPING OF SUBJECT												1.43

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	86.05	2.58	0.86		0.86					1.72	0.86		0.86
CO2	84.11	2.52	2.52	0.84	0.84	0.84	0.84	0.84		1.68	0.84		0.84
CO3	72.24	2.16	1.44	0.72	0.72	0.72				1.44	0.72		0.72
CO4	77.5	2.32	1.55	0.77	1.55	0.77				1.55	0.77		1.55
CO5	77.11	2.31	1.54	1.54	1.54	1.54	0.77	0.77		2.31	0.77	0.77	2.31
AVERAGE	79.4	2.37	1.58	0.97	0.94	0.96	0.80	0.80		1.74	0.79	0.77	1.25
												FINAL ATTAINMENT LEVEL	1.17

COURSE INSTRUCTOR

HOD

HOD
Dept of E&C
SIET, Tumkur-6

PRINCIPAL

PRINCIPAL
SIET., TUMAKURU

			10EC72		2017-2018 ODD					SEM: VII/B SEM		TSP: Prof. Aijaz Ahamed Sharief																
						T1		T2		T3		ASSIGNMENT 5/5					SEE	SEE MARKS					Final					
Roll No.	USN	Name	T1(30)	T2(30)	T3(30)	CO1-15	CO2-15	CO2-15	CO3-15	CO4-15	CO5-15	CO1-1	CO2-1	CO3-1	CO4-1	CO5-1	80	CO1-16	CO2-16	CO3-16	CO4-16	CO5-16	CO1-32	CO2-47	CO3-32	CO4-32	CO5-32	TOTAL AVERAGE
1			20	21	23	10	10	13	10	10	11	1	1	1	1	1	49	9.8	9.8	9.8	9.8	9.8	20.8	20.8	23.8	20.8	20.8	21.4
2			20	18	19	10	10	8	10	10	8	1	1	1	1	1	36	7.2	7.2	7.2	7.2	7.2	18.2	18.2	16.2	18.2	18.2	17.8
3			20	14	16	10	10	4	10	10	4	1	1	1	1	1	60	12	12	12	12	12	23	23	17	23	23	21.8
4			5	8	8	5	5	8	8	8	8	1	1	1	1	1	55	10.6	10.6	10.6	10.6	10.6	16.6	16.6	19.6	13.6	13.6	15.2
5			20	22	22	10	10	12	10	10	12	1	1	1	1	1	43	9	9	9	9	9	20	20	22	20	20	20.4
6			20	21	21	10	10	11	10	10	11	1	1	1	1	1	45	9	9	9	9	9	20	20	21	20	20	20.2
7			10	10	11	8	8	7	8	8	7	1	1	1	1	1	38	7.6	7.6	7.6	7.6	7.6	16.6	16.6	13.6	16.6	16.6	16.4
8			18	17	17	9	9	8	9	9	8	1	1	1	1	1	42	8.4	8.4	8.4	8.4	8.4	18.4	18.4	17.4	18.4	18.4	18.2
9			21	5	20	10	11	5	5	10	10	1	1	1	1	1	76	15.2	15.2	15.2	15.2	15.2	26.2	27.2	21.2	30.2	30.2	27
10			10	6	15	10	9	5	5	9	11	1	1	1	1	1	46	9.2	9.2	9.2	9.2	9.2	20.2	20.2	11.2	14.2	14.2	16
11			18	15	11	5	13	10	5	7	6	1	1	1	1	1	51	10.2	10.2	10.2	10.2	10.2	16.2	24.2	21.2	18.2	18.2	19.6
12			18	15	9	5	13	10	5	6	6	1	1	1	1	1	47	9.4	9.4	9.4	9.4	9.4	15.4	23.4	20.4	14.4	14.4	17.6
13			18	15	17	10	9	10	5	6	13	1	1	1	1	1	66	13.2	13.2	13.2	13.2	13.2	24.2	22.2	24.2	18.2	18.2	21.4
14			16	13	22	10	6	0	10	13	9	1	1	1	1	1	45	9	9	9	9	9	20	16	10	23	23	19
15			20	19	17	9	9	9	7	9	6	1	1	1	1	1	57	11.4	11.4	11.4	11.4	11.4	20.4	20.4	20.4	23.4	23.4	20.8
16			22	18	23	10	12	10	8	2	10	1	1	1	1	1	62	12.4	12.4	12.4	12.4	12.4	23.4	25.4	23.4	15.4	15.4	20.6
17			19	5	27	8	11	5	6	13	10	1	1	1	1	1	47	9.4	9.4	9.4	9.4	9.4	18.4	21.4	15.4	23.4	23.4	20.4
18			17	18	19	10	7	10	8	5	14	1	1	1	1	1	58	11.6	11.6	11.6	11.6	11.6	22.6	19.6	22.6	17.6	17.6	20
19			18	21	27	10	9	8	13	14	13	1	1	1	1	1	78	15.6	15.6	15.6	15.6	15.6	29.6	28.6	24.6	30.6	30.6	27.4
20			23	15	23	10	12	10	5	13	12	1	1	1	1	1	57	11.4	11.4	11.4	11.4	11.4	22.4	25.4	22.4	25.4	25.4	24.2
21			5	16	20	6	1	10	6	12	8	1	1	1	1	1	69	13.8	13.8	13.8	13.8	13.8	14.8	15.8	24.8	20.8	20.8	21.8
22			23	15	16	10	11	6	13	6	9	1	1	1	1	1	44	8.8	8.8	8.8	8.8	8.8	19.8	20.8	9.8	17.8	17.8	17.2
23			10	15	20	10	9	6	13	8	12	1	1	1	1	1	37	7.4	7.4	7.4	7.4	7.4	18.4	17.4	8.4	16.4	16.4	15.6
24			25	15	25	10	13	0	13	12	11	1	1	1	1	1	69	13.8	13.8	13.8	13.8	13.8	24.8	27.8	14.8	26.8	26.8	24.2
25			13	25	25	6	13	10	13	11	12	1	1	1	1	1	66	9.2	9.2	9.2	9.2	9.2	10.2	23.2	20.2	21.2	21.2	19.2
26			10	13	24	6	10	10	5	12	12	1	1	1	1	1	61	12.2	12.2	12.2	12.2	12.2	13.2	23.2	23.2	24.2	24.2	22
27			20	14	23	10	10	0	13	12	13	1	1	1	1	1	55	11	11	11	11	11	22	22	12	24	24	20.8
28			20	25	26	15	11	13	10	11	10	1	1	1	1	1	68	13.6	13.6	13.6	13.6	13.6	29.6	25.6	29.6	27.6	27.6	29
29			21	21	26	10	12	10	11	11	11	1	1	1	1	1	49	9.8	9.8	9.8	9.8	9.8	20.8	21.8	20.8	23.8	23.8	22.2
30			21	23	27	10	11	10	13	13	14	1	1	1	1	1	67	13.4	13.4	13.4	13.4	13.4	24.4	25.4	24.4	27.4	27.4	25.8
31			21	22	27	11	10	11	11	14	13	1	1	1	1	1	71	10.2	10.2	10.2	10.2	10.2	22.2	21.2	22.2	25.2	25.2	23.2
32			21	25	23	11	10	13	10	13	10	1	1	1	1	1	80	16	16	16	16	16	28	27	32	30	30	29.4
33			12	11	10	6	6	8	7		10	1	1	1	1	1	60	12	12	12	12	12	18	19	23	13	13	17
34			20	22	13	10	10	12	10	13	0	1	1	1	1	1	66	13.2	13.2	13.2	13.2	13.2	24.2	24.2	29.2	29.2	29.2	26.6
35			7	10	7	7		9	10	0	7	1	1	1	1	1	40	8	8	8	8	8	16	9	18	9	9	13.2
36			24	9	24	14	10	9	9	14	10	1	1	1	1	1	40	8	8	8	8	8	23	19	9	23	23	19.4
37			15	15	20	5	10	5	10	10	10	1	1	1	1	1	40	8	8	8	8	8	14	19	14	19	19	17
38			17	15	7	7	10	13	10	7	8	1	1	1	1	1	40	8	8	8	8	8	10	19	22	16	16	17.8
39			10	16	8	8	10	6	10	8	8	1	1	1	1	1	40	8	8	8	8	8	8	19	13	17	17	13.4
40			6	16	20	8	9	6	10	10	10	1	1	1	1	1	35	7	7	7	7	7	8	8	14	18	18	13.2
41			25	23	7	13	10	15	10	7	8	1	1	1	1	1	68	13.6	13.6	13.6	13.6	13.6	29.6	24.6	27.6	23.6	23.6	23
42			17	25	25	7	10	12	10	13	10	1	1	1	1	1	51	10.2	10.2	10.2	10.2	10.2	18.2	21.2	22.2	24.2	24.2	22
43			10	21	7	5	10	11	10	7	9	1	1	1	1	1	55	11	11	11	11	11	23	24	23	23	23	22.8
44			18	6	22	9	10	0	0	12	10	1	1	1	1	1	45	9	9	9	9	9	19	20	10	22	22	18.6
45			14	19	22	8	10	10	0	12	10	1	1	1	1	1	47	9.4	9.4	9.4	9.4	9.4	14.4	20.4	20.4	22.4	22.4	20
46			9	17	16	9	0	12	8	9	10	1	1	1	1	1	51	12.2	12.2	12.2	12.2	12.2	13.2	13.2	23.2	19.2	19.2	18
47			22	10	9	13	10	9	10	9	9	1	1	1	1	1	62	12.4	12.4	12.4	12.4	12.4	24.4	23.4	17.4	13.4	13.4	17.6
48			18	8	11	8	10	8	0	6	5	1	1	1	1	1	44	8.8	8.8	8.8	8.8	8.8	17.8	19.8	17.8	13.8	13.8	17.4
49			10	16	12	5	5	6	10	6	6	1	1	1	1	1	48	9.6	9.6	9.6	9.6	9.6	15.6	15.6	10.6	16.6	16.6	14.2
50			10	14	21	7	3	9	3	11	10	1	1	1	1	1	58	11.6	11.6	11.6	11.6	11.6	19.6	15.6	21.6	23.6	23.6	20.8
51			15	15	6	5	10	5	10	6	0	1	1	1	1	1	61	12.2	12.2	12.2	12.2	12.2	18.2	23.2	18.2	19.2	19.2	19.6
52			3	21	22	0	3	11	10	12	10	1	1	1	1	1	50	10	10	10	10	10	11	16	22	23	23	19
53			10	10	5	8	10	0	10	5	0	1	1	1	1	1	51	10.2	10.2	10.2	10.2	10.2	19.2	21.2	11.2	16.2	16.2	16.8
54			15	9	24	5	10	9	0	14	10	1	1	1	1	1	40	8	8	8	8	8	16	19	18	23	23	19.4
55			13	10	15	5	10	0	10	5	10	1	1	1	1	1	40	8	8	8	8	8	14	19	9	18	18	14
56			14	7	15	4	10	0	7	5	10	1	1	1	1	1	12	2.4	2.4	2.4	2.4	2.4	7.4	13.4	7.4	8.4	8.4	8.2
57			17	16	15	10	5	10	6	10	5	1	1	1	1	1	58	11.6	11.6	11.6	11.6	11.6	22.6	17.6	22.6	22.6	22.6	21.6
58			16	10	16	8	10	5	5	10	8	1	1	1	1	1	61	12.2	12.2	12.2	12.2	12.2	19.2	23.2	18.2	23.2	23.2	21.4
59			20	23	10	10	10	10	13	10	9	1	1	1	1	1	50	10	10	10	10	10	21	23	21	23	23	23
60			10	8	16	9	10	0	8	11	5	1	1	1	1	1	51	10.2	10.2	10.2	10.2	10.2	11.2	21.2	11.2	22.2	22.2	17.6
61			23	13	23	13	10	0	13	13	10	1	1	1	1	1	40	8	8	8	8	8	22	19	9	22	22	18.8
62			15	25	22	10	5	10	13	10	12	1	1	1	1	1	40	8	8	8	8	8	19	18	15	19	19	18
63			23	9	21	10	13	3	4	10	11	1	1	1	1	1	45	9	9	9	9	9	20	25	15	20	20	19.6
64			18	18	19	10	8	5	13	10	9	1	1	1	2	1	40	8	8	8	8	8	19	17	14	19	19	17.6
65			15	16	20	10	5	10	4	10	10	1	1	1	1	1	35	7	7	7	7	7	18	15	18	18	18	17
66		Padmesh Shekar	19	15	16	9	10	10	5	8	8	1	1	1	1	1	37	7.4	7.4	7.4	7.4	7.4	17.4	18.4	18.4	16.4	16.4	17.4
																							86.0512	84.1171	77.3412	77.5341	77.1145	

PRINCIPAL
SIET., TUMAKURU.

SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY, TUMKUR

DEPARTMENT OF ECE

CO-PO ATTAINMENT

ACADEMIC YEAR

2017-18

EVEN SEM

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: PRINCIPLES OF COMMUNICATION SYSTEM FACULTY NAME: PROF: AFSAN TAJ	**Subject Code: 17EC44**

Course Outcomes

CO1	Determine the performance of analog modulation schemes in time and frequency domains.
CO2	Determine the performance of systems for generation and detection of modulated analog signalS
CO3	Characterize analog signals in time domain as random processes and in frequency domain using Fourier transforms.
CO4	Characterize the influence of channel on analog modulated signals
CO5	Determine the performance of analog communication 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**

COURSE INSTRUCTOR **HOD** **PRINCIPAL**

HOD
Dept of E&C
SIET, Tumkur-6

PRINCIPAL
SIET., TUMAKURU.

SUB CODE: 17EC44 2018-2019 EVEN SEM: IV SEM PROF: AFSAN TAJ SUB: PRINCIPLES OF COMMUNICATION SYSTEM

Roll No.	USN	Name	T1			T2				T3		ASSIGNMENT 10/5					SEE	SEE MARKS					Final					TOTAL AVERAGE
			T1(30)	T2(30)	T3(30)	CO1-15	CO2-15	CO2-15	CO3-15	CO4-15	CO5-15	CO1-2	CO2-2	CO3-2	CO4-2	CO5-2	60	CO1-12	CO2-12	CO3-12	CO4-12	CO5-12	CO1-29	CO2-44	CO3-29	CO4-29	CO5-29	
1	1SV17EC025	NITHIN KUMAR G M	21	24	14	13	9	13	11	10	4	2	2	2	2	2	30	6	6	6	6	6	17	30	19	18	13	19.2
2	1SV17EC040	RUTHIKA V K	29	26	23	15	13	15	11	10	10	2	2	2	2	2	37	7.4	7.4	7.4	7.4	7.4	22.8	37.4	20.8	24.4	19.4	22
3	1SV17EC005	AFRA FATHIMA	17	30	13	11	6	15	15	7	6	2	2	2	2	2	30	6	6	6	6	6	14	26	23	18	14	21.8
4	1SV17EC002	ABHINAV V	11	25	4	8	3	15	8	0	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	16
5	1SV17EC001	DANIEL S	29	30	27	15	15	15	15	15	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	25.1
6	1SV17EC004	GEETHA M P	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	23.4	38.4	21.4	21.4	26.4	26.5
7	1SV17EC005	ISTHESHRA H	23	19	18	10	13	13	8	6	6	2	2	2	2	2	29	5.8	5.8	5.8	5.8	5.8	20.8	33.8	13.8	13.8	16.8	22.8
8	1SV17EC006	MD TAJ HUSSAIN	20	24	22	10	10	13	11	15	9	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	21.7
9	1SV17EC007	NIDA NAWAZ	27	30	26	14	13	15	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	23.8
10	1SV17EC008	NISHA H	21	18	11	11	10	10	8	2	9	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	21.6
11	1SV17EC009	NIRMATH NAWAZ	28	24	30	15	13	15	9	15	15	2	2	2	2	2	38	7.6	7.6	7.6	7.6	7.6	22.6	37.6	18.6	24.6	24.6	21.4
12	1SV17EC011	RAKESH K L	18	18	12	11	7	10	6	6	8	2	2	2	2	2	25	5	5	5	5	5	14	24	13	13	13	20.5
13	1SV17EC013	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	15	17
14	1SV17EC014	SAHANA G P	20	19	11	11	9	9	10	6	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	1SV17EC015	SAYEEDUNNISA	13	21	16	6	8	14	7	9	8	2	2	2	2	2	28	5.6	5.6	5.6	5.6	5.6	15.6	29.6	14.6	10.6	16.6	17.8
16	1SV17EC016	TEJASWINI D	14	16	15	6	8	13	3	5	8	2	2	2	2	2	25	5	5	5	5	5	13	26	10	12	15	16.9
17	1SV18EC401	ISVI ASHREE N	21	22	18	12	9	13	9	8	10	2	2	2	2	2	31	6.2	6.2	6.2	6.2	6.2	17.2	30.8	17.2	16.2	18.2	17.5
18	1SV18EC405	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	1SV18EC402	LOKESHA G H	24	27	21	11	13	12	15	15	8	2	2	2	2	2	36	7	7	7	7	7	22	34	24	24	18	24.3
																							18.36842	31.47368	18.21053	17.84211	17.36842	
																							61.34%	71.53%	62.79%	61.52%	59.89%	

COURSE INSTRUCTOR

HOD

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

Department of Electronics & Communication Engineering
Course Outcomes and CO-PO Articulation Matrix 2017-2018

2015 Scheme

Semester-VI

Subject: DIGITAL COMMUNICATION
NAME OF THE FACULTY: PROF. HARIPRIYA R

Subject Code: 15EC61

CourseOutcomes

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 pas 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 by simulation and emulation that bandpass signals subjected to corrupted and distorted symbols in a bandlimited channel, can be demodulated and estimated at receiver to meet specified performance criteria
CO5	Solve problems using digital computations.

CO-PO Mapping

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

ATTAINMENT TABLE

COs	AVG	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	68.93%	1.37	0.69	0.69	0.69	1.37					0.69		0.69
CO2	71.21%	1.42	0.71	1.42	1.42	1.42					0.71		0.71
CO3	59.81%	1.17	0.59	1.17	1.17	1.17					1.17		0.59
CO4	69.67%	1.37	0.69	0.69	0.69	1.37					0.69		0.69
CO5	63.83%	1.27	0.63	1.27	1.27	1.27					0.63		0.63
AVERAGE		1.32	0.7	1.05	1.05	1.32					0.78		0.662
TOTAL ATTAINMENT													0.983

COURSE INSTRUCTOR

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USECS1 2017-2018 EVEN SEM /VI SEM PROF.HARIPRIYA R SUB:DIGITAL COMMUNICATION

Slno	USN	Name	T1	T2	T3	CO1-20	CO2-20	CO3-20	CO4-20	CO5-20	ASSIGNMENT 10/5 CO1-5	CO2-5	CO3-5	CO4-5	CO5-5	SEE 60	SEE MARKS CO1-12	CO2-12	CO3-12	CO4-12	CO5-12	Final CO1-26	CO2-26	CO3-26	CO4-26	CO5-26	TOTAL AVERAGE
1	1SV16EC[illegible]	[illegible]	25	22	28	19	18	12	19	17	2	2	2	2	2	47	8.2	8.2	8.2	8.2	8.2	24.2	20.2	18.2	25.2	24.2	21.8
2	1SV16EC[illegible]	[illegible]	40	32	38	20	20	20	12	20	18	2	2	2	2	2	35	7	7	7	7	7	33	29	21	29	27	26.4
3	1SV16EC[illegible]	[illegible]	35	27	38	20	18	20	7	20	18	2	2	2	2	2	33	6.6	6.6	6.6	6.6	6.6	23.6	28.6	13.6	28.6	28.6	25.8
4	1SV16EC[illegible]	[illegible]	22	18	38	10	12	10	8	20	18	2	2	2	2	2	38	7	5	5	5	5	21	17	15	27	23	22.6
5	1SV16EC[illegible]	[illegible]	24	24	38	10	14	10	14	20	18	2	2	2	2	2	51	10.2	5.2	5.2	5.2	5.2	20.2	17.2	21.2	27.2	23.2	21.8
6	1SV16EC[illegible]	[illegible]	30	40	40	10	20	20	20	20	20	2	2	2	2	2	43	8.6	8.2	8.2	8.2	8.2	30.6	28.2	28.2	28.2	28.2	25.84
7	1SV16EC[illegible]	[illegible]	30	38	38	10	20	18	20	20	18	2	2	2	2	2	52	10.4	4.2	4.2	4.2	4.2	32.4	26.2	28.2	26.2	24.2	27.68
8	1SV16EC[illegible]	[illegible]	27	40	40	10	17	20	20	20	20	2	2	2	2	2	44	8.8	8.8	8.8	8.8	8.8	27.8	30.8	30.8	30.8	30.8	28.42
9	1SV16EC[illegible]	[illegible]	24	24	38	10	14	10	14	20	18	2	2	2	2	2	38	7.6	7.6	7.6	7.6	7.6	23.6	19.6	23.6	29.6	25.6	27.4
10	1SV16EC[illegible]	[illegible]	24	24	38	10	14	10	14	20	18	2	2	2	2	2	37	7.4	5.8	5.8	5.8	5.8	23.4	17.8	21.8	27.8	23.8	23.76
11	1SV16EC[illegible]	[illegible]	24	24	38	10	14	10	14	20	18	2	2	2	2	2	61	12.2	8.2	8.2	8.2	8.2	28.2	20.2	24.2	30.2	26.2	24.36
12	1SV16EC[illegible]	[illegible]	24	24	38	10	14	10	14	20	18	2	2	2	2	2	53	10.6	8.8	8.8	8.8	8.8	28.6	21.8	25.8	31.8	27.8	26.28
13	1SV16EC[illegible]	[illegible]	24	24	38	10	14	10	14	20	18	2	2	2	2	2	45	9	8.2	8.2	8.2	8.2	25	20.2	24.2	30.2	26.2	25.06
14	1SV16EC[illegible]	[illegible]	24	24	38	10	14	10	14	20	18	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	20.2	16.2	20.2	26.2	22.2	19.08
15	1SV16EC[illegible]	[illegible]	25	38	38	10	15	20	18	20	18	2	2	2	2	2	41	8.2	4.8	4.8	4.8	4.8	25.2	36.8	24.8	26.8	22.8	23.04
16	1SV16EC[illegible]	[illegible]	25	37	23	10	19	19	19	10	13	2	2	2	2	2	44	8.8	5.6	5.6	5.6	5.6	29.8	28.6	25.6	17.6	20.6	24.16
17	1SV16EC[illegible]	[illegible]	25	38	40	10	15	20	19	20	20	2	2	2	2	2	39	7.8	9	9	9	9	24.8	31	29	31	31	26.3
18	1SV16EC[illegible]	[illegible]	20	38	38	10	10	18	20	20	18	2	2	2	2	2	41	8.2	7.2	7.2	7.2	7.2	30.2	27.2	29.2	29.2	27.2	27.36
19	1SV16EC[illegible]	[illegible]	30	38	38	10	20	20	18	18	20	2	2	2	2	2	33	6.6	4.2	4.2	4.2	4.2	28.6	20.2	24.2	26.2	26.2	25.24
20	1SV16EC[illegible]	[illegible]	30	38	40	10	20	20	18	20	20	2	2	2	2	2	33	6.6	6.6	6.6	6.6	6.6	26.6	28.6	24.6	28.6	28.6	26.84
21	1SV16EC[illegible]	[illegible]	25	38	38	10	15	18	18	20	18	2	2	2	2	2	38	7.6	4.2	4.2	4.2	4.2	24.6	24.2	24.2	26.2	24.2	24.24
22	1SV16EC[illegible]	[illegible]	30	30	38	10	20	20	10	20	18	2	2	2	2	2	26	5.6	5.2	5.2	5.2	5.2	27.6	27.2	17.2	27.2	25.2	24.72
23	1SV16EC[illegible]	[illegible]	30	38	40	10	20	19	19	20	20	2	2	2	2	2	46	9	8	8	8	8	31	27	27	28	28	26.54
24	1SV16EC[illegible]	[illegible]	30	28	34	10	20	20	8	18	18	2	2	2	2	2	38	7.6	2.6	2.6	2.6	2.6	29.6	24.6	13.6	20.6	22.6	23.12
25	1SV16EC[illegible]	[illegible]	30	38	20	10	20	20	16	11	9	2	2	2	2	2	49	9.8	4.2	4.2	4.2	4.2	31.8	26.2	22.2	17.2	15.2	22.28
26	1SV16EC[illegible]	[illegible]	30	34	38	10	20	18	18	20	18	2	2	2	2	2	52	10.4	2.6	2.6	2.6	2.6	32.4	22.6	20.6	24.6	19.6	23.24
27	1SV16EC[illegible]	[illegible]	23	38	33	10	13	19	19	20	13	2	2	2	2	2	31	6.2	6.2	6.2	6.2	6.2	21.2	27.2	27.2	28.2	21.2	24.48
28	1SV16EC[illegible]	[illegible]	30	40	38	10	20	20	20	20	18	2	2	2	2	2	36	7.8	5.2	5.2	5.2	5.2	29.8	27.2	27.2	27.2	23.2	25.96
29	1SV16EC[illegible]	[illegible]	30	40	40	10	20	20	20	20	20	2	2	2	2	2	29	5.8	6.2	6.2	6.2	6.2	27.8	28.2	28.2	28.2	28.2	27.52
30	1SV16EC[illegible]	[illegible]	30	38	38	10	20	18	20	20	18	2	2	2	2	2	22	4.4	4.2	4.2	4.2	4.2	26.4	24.2	28.2	26.2	24.2	25.28
31	1SV16EC[illegible]	[illegible]	27	40	40	10	17	20	20	20	20	2	2	2	2	2	39	7	8.8	8.8	8.8	8.8	28	30.8	30.8	30.8	30.8	27.44
32	1SV16EC[illegible]	[illegible]	25	38	40	10	15	19	17	20	20	2	2	2	2	2	56	11.2	7.8	7.8	7.8	7.8	28.2	28.8	26.8	29.8	29.8	29.36
33	1SV16EC[illegible]	[illegible]	30	38	38	10	20	20	18	20	18	2	2	2	2	2	38	7.6	5.8	5.8	5.8	5.8	29.6	27.8	25.8	27.8	25.8	28.02
34	1SV16EC[illegible]	[illegible]	27	38	40	10	17	19	19	20	20	2	2	2	2	2	54	10.8	8.2	8.2	8.2	8.2	29.8	29.2	29.2	30.2	30.2	28.54
35	1SV16EC[illegible]	[illegible]	30	40	40	10	20	20	20	20	20	2	2	2	2	2	35	7	9.8	9.8	9.8	9.8	29	31.8	31.8	31.8	31.8	30.48
36	1SV16EC[illegible]	[illegible]	28	27	38	10	18	20	7	20	18	2	2	2	2	2	14	2.8	8.2	8.2	8.2	8.2	22.8	30.2	17.2	30.2	25.2	24.18
37	1SV16EC[illegible]	[illegible]	30	28	40	10	20	20	8	20	20	2	2	2	2	2	32	6.4	4.2	4.2	4.2	4.2	28.4	26.2	14.2	26.2	26.2	24.68
38	1SV16EC[illegible]	[illegible]	25	38	38	10	15	20	18	20	18	2	2	2	2	2	46	9.8	4.8	4.8	4.8	4.8	26.8	26.8	24.8	26.8	22.8	24.84
39	1SV16EC[illegible]	[illegible]	28	37	23	10	19	19	19	10	13	2	2	2	2	2	28	5.6	5.6	5.6	5.6	5.6	28.6	28.6	25.6	17.6	20.6	24.42
40	1SV16EC[illegible]	[illegible]	25	38	40	10	15	20	18	20	20	2	2	2	2	2	28	5.6	9	9	9	9	22.6	31	29	31	31	26.16
41	1SV16EC[illegible]	[illegible]	30	40	40	10	20	20	20	20	20	2	2	2	2	2	26	5.6	8.8	8.8	8.8	8.8	27.6	31.8	31.8	31.8	31.8	29.94
42	1SV16EC[illegible]	[illegible]	28	22	28	10	18	12	10	17	11	2	2	2	2	2	31	6.2	6.2	6.2	6.2	6.2	24.2	20.2	18.2	25.2	19.2	26.18
43	1SV16EC[illegible]	[illegible]	30	32	38	10	20	20	12	20	18	2	2	2	2	2	18	3.2	7	7	7	7	25.2	29	21	29	27	23.82
44	1SV16EC[illegible]	[illegible]	25	27	38	10	15	20	7	20	18	2	2	2	2	2	31	6.2	6.6	6.6	6.6	6.6	23.2	28.6	15.6	28.6	26.6	25.88
45	1SV16EC[illegible]	[illegible]	30	38	38	10	20	18	20	20	18	2	2	2	2	2	25	5	5	5	5	5	27	25	27	27	23	25.16
46	1SV16EC[illegible]	[illegible]	30	40	38	10	20	20	20	20	18	2	2	2	2	2	28	5.6	5.2	5.2	5.2	5.2	27.6	27.2	27.2	27.2	23.2	26.16
47	1SV16EC[illegible]	[illegible]	30	40	40	10	20	20	20	20	20	2	2	2	2	2	32	6.4	6.2	6.2	6.2	6.2	28.4	28.2	28.2	28.2	28.2	27.36
48	1SV16EC[illegible]	[illegible]	30	38	38	10	20	18	20	20	18	2	2	2	2	2	32	6.4	4.2	4.2	4.2	4.2	28.4	24.2	26.2	26.2	24.2	27.04
49	1SV16EC[illegible]	[illegible]	27	40	40	10	17	20	20	20	20	2	2	2	2	2	44	8.8	8.8	8.8	8.8	8.8	27.8	30.8	30.8	30.8	30.8	28.02
50	1SV16EC[illegible]	[illegible]	25	38	40	10	15	19	17	20	20	2	2	2	2	2	33	6.6	7.8	7.8	7.8	7.8	23.6	28.8	26.8	29.8	29.8	28.08
51	1SV16EC[illegible]	[illegible]	30	38	38	10	20	20	18	20	18	2	2	2	2	2	43	8.6	5.8	5.8	5.8	5.8	30.6	27.8	25.8	27.8	25.8	27.66
52	1SV16EC[illegible]	[illegible]	27	38	40	10	17	19	19	20	20	2	2	2	2	2	41	8.2	8.2	8.2	8.2	8.2	27.2	29.2	29.2	30.2	30.2	28.38
53	1SV16EC[illegible]	[illegible]	30	40	40	10	20	20	20	20	20	2	2	2	2	2	49	9.8	9.8	9.8	9.8	9.8	31.8	31.8	31.8	31.8	31.8	30.5
54	1SV16EC[illegible]	[illegible]	28	27	38	10	18	20	7	20	18	2	2	2	2	2	41	8.2	8.2	8.2	8.2	8.2	28.2	30.2	17.2	30.2	25.2	29
55	1SV16EC[illegible]	[illegible]	30	28	40	10	20	20	8	20	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	26.2	26.2	14.2	26.2	26.2	25
56	1SV15EC[illegible]	[illegible]	25	38	38	10	15	20	18	20	18	2	2	2	2	2	25	4.8	4.8	4.8	4.8	4.8	21.8	28.8	24.8	26.8	22.8	24.1
																						24.81379	22.63448	21.53103	25.06276	22.97931	
																						68.93%	62.87%	59.81%	69.67%	63.83%	

SUBJECT FACULTY

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SIRA ROAD, TUMKUR- 572 106.

Department of Electronics & Communication Engineering

Course Outcomes and CO-PO Articulation Matrix 2017-2018

2015 Scheme

Semester-VI

Subject: ARM MICROCONTROLLER &EMBEDDED SYSTEM NAME OF THE FACULTY: PROF. HARISH B	**Subject Code: 15EC62**

CourseOutcomes	
CO1	Be familiar with the composition, design, and implementation of embedded systems,
CO2	Be familiar with both medium level and high level languages appropriate ate 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, environmental sensing and actuation, etc.,
CO5	Be familiar with the basics of interfacing hardware and software,

CO-PO Mapping

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

ATTAINMENT TABLE

COs	**AVG**	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
CO1	39.92%	0.8	0.4	0.8	0.8	0.8					0.4		0.4
CO2	55.00%	1.2	0.55	1.2	1.2	1.2					0.55		0.55
CO3	39.92%	0.8	0.4	0.8	0.8	0.8					0.4		0.4
CO4	82.93%	1.8	0.9	1.8	1.8	1.8					0.9		0.9
CO5	43.14%	0.86	0.43	0.86	0.86	0.86					0.43		0.43
AVERAGE		**1.09**	**0.53**	**1.09**	**1.09**	**1.09**					**0.53**		**0.53**
TOTAL ATTAINMENT													**0.85**

COURSE INSTRUCTOR **HOD** **PRINCIPAL**

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15EC62 2017-2018 EVEN SEM: VI SEM PROF.HARISH.B SUB:ARM MICROCONTROLLER & EMBEDDED SYSTEM

Roll No.	USN	Name	T1	T2	T3	CO1-20 (T1)	CO2-20 (T1)	CO2-20 (T2)	CO3-20 (T2)	CO4-20 (T3)	CO5-20 (T3)	ASSIGNMENT 10/5 CO1-2	CO2-2	CO3-2	CO4-2	CO5-2	SEE 60	SEE MARKS CO1-12	CO2-12	CO3-12	CO4-12	CO5-12	Final CO1-28	CO2-20	CO3-21	CO4-20	CO5-21	TOTAL AVERAGE
1	[illegible]	[illegible]	13	13	22	10	3	10	3	17	5	2	2	2	2	2	22	4.4	4.4	4.4	4.4	4.4	9.4	16.6	9.6	23.4	11.4	14
2	[illegible]	[illegible]	15	15	25	10	5	10	5	20	5	2	2	2	2	2	30	6	6	6	6	6	13	18	13	28	13	15.5
3	[illegible]	[illegible]	15	15	25	10	5	10	5	20	5	2	2	2	2	2	25	5	5	5	5	5	12	17	12	27	12	16.5
4	[illegible]	[illegible]	9	9	25	5	4	5	4	20	5	2	2	2	2	2	39	7.8	7.8	7.8	7.8	7.8	13.6	14.8	13.6	29.6	14.6	16.6
5	[illegible]	[illegible]	22	22	25	20	2	20	2	20	5	2	2	2	2	2	52	10.4	10.4	10.4	10.4	10.4	14.4	32.4	14.4	32.4	17.4	19.7
6	[illegible]	[illegible]	12	12	25	10	2	10	2	20	5	2	2	2	2	2	50	10	10	10	10	10	14	22	14	32	17	21
7	[illegible]	[illegible]	19	19	25	10	9	10	9	20	5	2	2	2	2	2	41	8.2	8.2	8.2	8.2	8.2	19.2	20.2	19.2	30.2	15.2	20.3
8	[illegible]	[illegible]	10	10	25	5	5	5	5	20	5	2	2	2	2	2	44	8.8	8.8	8.8	8.8	8.8	13.8	15.8	13.8	30.8	15.8	19.8
9	[illegible]	[illegible]	8	8	25	5	3	5	3	20	5	2	2	2	2	2	39	7.8	7.8	7.8	7.8	7.8	12.8	14.8	12.8	29.8	14.8	17.9
10	[illegible]	[illegible]	14	14	25	10	4	10	4	20	5	2	2	2	2	2	50	10	10	10	10	10	16	22	16	32	17	18.8
11	[illegible]	[illegible]	15	15	25	10	5	10	5	20	5	2	2	2	2	2	34	6.8	6.8	6.8	6.8	6.8	13.8	18.8	13.8	28.8	13.8	19.2
12	[illegible]	[illegible]	9	9	25	5	4	5	4	20	5	2	2	2	2	2	32	6.4	6.4	6.4	6.4	6.4	12.4	13.4	12.4	28.4	13.4	16.9
13	[illegible]	[illegible]	9	9	25	5	4	5	4	20	5	2	2	2	2	2	54	10.8	10.8	10.8	10.8	10.8	16.8	17.8	16.8	32.8	17.8	18.2
14	[illegible]	[illegible]	7	7	25	5	2	5	2	20	5	2	2	2	2	2	50	10	10	10	10	10	14	17	14	32	17	19.6
15	[illegible]	[illegible]	9	9	25	4	5	4	5	20	5	2	2	2	2	2	42	8.4	8.4	8.4	8.4	8.4	15.4	15.4	15.4	30.4	15.4	18.5
16	[illegible]	[illegible]	13	13	15	10	3	10	3	10	5	2	2	2	2	2	45	9	9	9	9	9	14	21	14	21	16	17.7
17	[illegible]	[illegible]	11	11	22	10	1	10	1	20	2	2	2	2	2	2	37	7.4	7.4	7.4	7.4	7.4	10.4	19.4	10.4	29.4	11.4	16.7
18	[illegible]	[illegible]	11	11	25	10	1	10	1	20	5	2	2	2	2	2	46	9.2	9.2	9.2	9.2	9.2	12.2	21.2	12.2	31.2	16.2	17.4
19	[illegible]	[illegible]	11	11	23	10	1	10	1	18	5	2	2	2	2	2	49	9.8	9.8	9.8	9.8	9.8	12.8	21.8	12.8	29.8	16.8	18.7
20	[illegible]	[illegible]	6	6	25	5	1	5	1	20	5	2	2	2	2	2	50	10	10	10	10	10	13	17	13	32	17	18.6
21	[illegible]	[illegible]	11	11	25	10	1	10	1	20	5	2	2	2	2	2	60	12	12	12	12	12	15	24	15	34	19	19.9
22	[illegible]	[illegible]	22	22	25	20	2	20	2	20	5	2	2	2	2	2	51	10.2	10.2	10.2	10.2	10.2	14.2	32.2	14.2	32.2	17.2	21.7
23	[illegible]	[illegible]	10	10	25	8	2	8	2	20	5	2	2	2	2	2	41	8.2	8.2	8.2	8.2	8.2	12.2	18.2	12.2	30.2	15.2	19.8
24	[illegible]	[illegible]	11	11	21	8	3	8	3	16	5	2	2	2	2	2	52	10.4	10.4	10.4	10.4	10.4	15.4	20.4	15.4	28.4	17.4	18.5
25	[illegible]	[illegible]	16	16	16	10	6	10	6	11	5	2	2	2	2	2	55	11	11	11	11	11	19	23	19	24	18	20
26	[illegible]	[illegible]	12	12	25	10	2	10	2	20	5	2	2	2	2	2	39	7.8	7.8	7.8	7.8	7.8	11.8	19.8	11.8	29.8	14.8	18.1
27	[illegible]	[illegible]	6	6	25	5	1	5	1	20	5	2	2	2	2	2	41	8.2	8.2	8.2	8.2	8.2	11.2	15.2	11.2	30.2	15.2	17.1
28	[illegible]	[illegible]	16	16	25	10	6	10	6	20	5	2	2	2	2	2	46	9.2	9.2	9.2	9.2	9.2	17.2	21.2	17.2	31.2	16.2	18.6
29	[illegible]	[illegible]	15	15	25	10	5	10	5	20	5	2	2	2	2	2	36	7.2	7.2	7.2	7.2	7.2	14.2	19.2	14.2	29.2	14.2	18.4
30	[illegible]	[illegible]	15	15	25	10	5	10	5	20	5	2	2	2	2	2	52	10.4	10.4	10.4	10.4	10.4	17.4	22.4	17.4	32.4	17.4	19.8
31	[illegible]	[illegible]	12	12	25	7	5	7	5	20	5	2	2	2	2	2	55	11	11	11	11	11	18	20	18	33	18	21.4
32	[illegible]	[illegible]	14	14	25	10	4	10	4	20	5	2	2	2	2	2	32	6.4	6.4	6.4	6.4	6.4	12.4	18.4	12.4	28.4	13.4	19.2
33	[illegible]	[illegible]	11	11	25	10	1	10	1	20	5	2	2	2	2	2	55	11	11	11	11	11	14	23	14	33	18	18.7
34	[illegible]	[illegible]	17	17	25	10	7	10	7	20	5	2	2	2	2	2	42	8.4	8.4	8.4	8.4	8.4	17.4	20.4	17.4	30.4	15.4	20.9
35	[illegible]	[illegible]	14	14	25	9	5	9	5	20	5	2	2	2	2	2	46	9.2	9.2	9.2	9.2	9.2	16.2	20.2	16.2	31.2	16.2	20.1
36	[illegible]	[illegible]	15	15	25	10	5	10	5	20	5	2	2	2	2	2	55	11	11	11	11	11	18	23	18	33	18	21
37	[illegible]	[illegible]	25	25	25	20	5	20	5	20	5	2	2	2	2	2	50	10	10	10	10	10	17	32	17	32	17	22.5
38	[illegible]	[illegible]	11	11	25	5	6	5	6	20	5	2	2	2	2	2	54	10.8	10.8	10.8	10.8	10.8	18.8	17.8	18.8	32.8	17.8	22.1
39	[illegible]	[illegible]	16	16	16	10	6	10	6	16	5	2	2	2	2	2	40	8	8	8	8	8	16	20	16	20	15	19.5
40	[illegible]	[illegible]	8	8	25	5	3	5	3	20	5	2	2	2	2	2	40	8	8	8	8	8	13	15	13	30	15	17.3
41	[illegible]	[illegible]	15	15	25	10	5	10	5	20	5	2	2	2	2	2	45	9	9	9	9	9	16	21	16	31	16	18.6
42	[illegible]	[illegible]	11	11	22	10	1	10	1	17	5	2	2	2	2	2	45	9	9	9	9	9	12	21	12	28	16	18.9
43	[illegible]	[illegible]	7	7	25	6	1	6	1	20	5	2	2	2	2	2	35	7	7	7	7	7	10	15	10	29	14	16.7
44	[illegible]	[illegible]	22	22	25	20	2	20	2	20	5	2	2	2	2	2	30	6	6	6	6	6	10	28	10	28	13	16.7
45	[illegible]	[illegible]	12	12	25	10	2	10	2	20	5	2	2	2	2	2	41	8.2	8.2	8.2	8.2	8.2	12.2	20.2	12.2	30.2	15.2	17.9
46	[illegible]	[illegible]	7	7	25	5	2	5	2	20	5	2	2	2	2	2	47	9.4	9.4	9.4	9.4	9.4	13.4	16.4	13.4	31.4	16.4	18.1
47	[illegible]	[illegible]	8	8	25	8	0	8	0	20	5	2	2	2	2	2	40	8	8	8	8	8	10	19	10	30	15	17.5
48	[illegible]	[illegible]	14	14	25	10	4	10	4	20	5	2	2	2	2	2	52	10.4	10.4	10.4	10.4	10.4	16.4	22.4	16.4	32.4	17.4	18.9
49	[illegible]	[illegible]	14	14	25	10	4	10	4	20	5	2	2	2	2	2	44	8.8	8.8	8.8	8.8	8.8	14.8	20.8	14.8	30.8	15.8	20.2
50	[illegible]	[illegible]	19	19	25	10	9	10	9	20	5	2	2	2	2	2	40	8	8	8	8	8	19	20	19	30	15	20
51	[illegible]	[illegible]	12	12	25	10	2	10	2	20	5	2	2	2	2	2	41	8.2	8.2	8.2	8.2	8.2	12.2	20.2	12.2	30.2	15.2	19.1
52	[illegible]	[illegible]	16	16	25	10	6	10	6	20	5	2	2	2	2	2	42	8.4	8.4	8.4	8.4	8.4	16.4	20.4	16.4	30.4	15.4	18.9
53	[illegible]	[illegible]	20	20	25	10	10	10	10	20	5	2	2	2	2	2	43	8.6	8.6	8.6	8.6	8.6	20.6	20.6	20.6	30.6	15.6	20.7
54	[illegible]	[illegible]	15	15	25	10	5	10	5	20	5	2	2	2	2	2	9	1.8	1.8	1.8	1.8	1.8	8.8	13.8	8.8	23.8	8.8	17.2
55	[illegible]	[illegible]	10	10	25	5	5	5	5	20	5	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	11.2	11.2	11.2	26.2	11.2	13.5
56	[illegible]	[illegible]	10	10	25	5	5	5	5	20	5	2	2	2	2	2	57	11.4	11.4	11.4	11.4	11.4	18.4	18.4	18.4	33.4	18.4	17.8
																							14.37143	19.8	14.37143	29.85357	15.53214	
																							39.92%	55.00%	39.92%	82.93%	43.14%	

SUBJECT FACULTY

HOD
Dept of E&C
SIET, Tumkur-5

PRINCIPAL

PRINCIPAL
SIET, TUMAKURU.

SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

Department of Electronics & Communication Engineering

Course Outcomes and CO-PO Articulation Matrix 2017-18

2015 Scheme

Semester-VI

Subject: VLSI DESIGN NAME OF FACULTY:PROF.MADHU B C	**Subject Code: 15EC63**

Course Outcomes

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 layou
CO4	Appreciate the different VLSI process technologies.
CO5	Explain the importance of Logic Synthesis in IC design and its design flow.

CO-PO Mapping

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

ATTAINMENT TABLE

COs	**AVG**	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
CO1	62.64%	1.23	1.23	1.23	1.23	1.25					0.63		0.63
CO2	71.21%	1.23	1.23	1.23	1.23	1.23					0.71		0.71
CO3	61.69%	1.25	1.25	1.25	1.25	1.25					1.25		0.62
CO4	60.34%	1.23	1.23	1.23	1.23	1.23					0.61		1.23
CO5	59.77%	1.19	1.19	1.19	1.19	1.19					0.59		0.59
AVERAGE		**1.12**	**1.12**	**1.12**	**1.15**	**1.14**					**0.76**		**0.75**
TOTAL ATTAINMENT													**1.02**

COURSE INSTRUCTOR **HOD** **PRINCIPAL**

HOD
Dept of E&C

PRINCIPAL
SIET, TUMAKURU.

15ECS3 2017-2018 EVEN SEM /V SEM PROF.MADHU B C SUB:VLSI DESIGN

Sl No	USN	Name	T1	T2	T3	T1 ASSIGNMENT 10/5 CO1- 20	T1 CO2- 20	T2 CO3- 20	T2 CO4- 20	T3 CO5- 20	T3 CO6- 20	CO1- 2	CO2- 2	CO3- 2	CO4- 2	CO5- 2	SEE 60	SEE MARKS CO1- 12	CO2- 12	CO3- 12	CO4- 12	CO5- 12	Final CO1- 28	CO2- 20	CO3- 21	CO4- 20	CO5- 21	TOTAL AVERAGE 68
1	1SV14EC015	LAHARI N RAJ	13	12	28	10	3	10	2	17	11	2	2	2	2	2	33	6.6	6.2	6.2	6.2	6.2	11.6	16.2	10.2	25.2	19.2	16.88
2	1SV14EC026	RAMYA K	40	32	36	20	20	20	12	20	16	2	2	2	2	2	36	7	7	7	7	7	29	29	21	29	27	21.94
3	1SV14EC029	RASHMIN BEGAM H	35	27	36	20	15	20	7	20	16	2	2	2	2	2	33	6.6	6.6	6.6	6.6	6.6	23.6	28.6	15.6	28.6	26.6	25.9
4	1SV15EC001	ABHISHEK G SHEELVANT	9	25	25	5	4	10	15	20	5	2	2	2	2	2	50	10	5	5	5	5	18	17	22	27	12	21.7
5	1SV15EC002	AISHWARYA S M	40	40	36	20	20	20	20	20	16	2	2	2	2	2	47	9.4	5.2	5.2	5.2	5.2	31.4	27.2	27.2	27.2	25.2	23.02
6	1SV15EC003	AKSHATA BIRADAR	30	40	40	10	20	20	20	20	20	2	2	2	2	2	48	9.6	6.2	6.2	6.2	6.2	31.6	26.2	26.2	26.2	26.2	28.08
7	1SV15EC004	AMEENA ROUSHNEE	30	38	38	10	20	18	20	20	18	2	2	2	2	2	45	9	4.2	4.2	4.2	4.2	31	34.2	26.2	26.2	24.2	27.62
8	1SV15EC005	ARUN C G	37	40	40	20	17	20	20	20	20	2	2	2	2	2	44	8.8	8.8	8.8	8.8	8.8	27.8	30.8	30.8	30.8	30.8	28.28
9	1SV15EC007	BHAVANA N	35	36	40	20	15	19	17	20	20	2	2	2	2	2	39	7.8	7.8	7.8	7.8	7.8	24.8	28.8	26.8	29.8	29.8	29.1
10	1SV15EC009	CL BALAJI	30	38	38	10	20	20	18	20	18	2	2	2	2	2	46	9	5.8	5.8	5.8	5.8	31	27.8	25.8	27.8	25.8	27.82
11	1SV15EC010	CHAITHRA M	37	38	40	10	17	19	19	20	20	2	2	2	2	2	39	7.8	8.2	8.2	8.2	8.2	26.8	29.2	29.2	30.2	30.2	28.99
12	1SV15EC011	D CHANDANA	25	40	40	5	20	20	20	20	20	2	2	2	2	2	42	8.4	9.8	9.8	9.8	9.8	30.4	31.8	31.8	31.8	31.8	30.83
13	1SV15EC012	DEEPIKA H P	23	27	36	5	18	20	7	20	16	2	2	2	2	2	55	11	8.2	8.2	8.2	8.2	31	30.2	17.2	30.2	25.2	29.14
14	1SV15EC013	GAGANA S K	40	28	40	20	20	20	8	20	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	26.2	26.2	14.2	30.2	20.2	25.28
15	1SV15EC014	GEETA RAMESHAPPA HANCHI	19	36	36	4	15	20	18	20	16	2	2	2	2	2	38	7.6	4.6	4.6	4.6	4.6	24.6	26.6	24.6	26.6	22.6	24.4
16	1SV15EC016	HARINI D C	29	37	23	10	19	19	18	10	13	2	2	2	2	2	39	7.8	5.6	5.6	5.6	5.6	28.8	26.6	25.6	17.6	20.6	26.42
17	1SV15EC017	S KAVITHA	25	38	40	10	15	20	18	20	20	2	2	2	2	2	22	4.4	9	9	9	9	21.4	31	29	31	31	26.28
18	1SV15EC020	MAMATHA M S	20	38	38	10	10	18	20	20	18	2	2	2	2	2	55	11	7.2	7.2	7.2	7.2	23	27.2	29.2	29.2	27.2	27.82
19	1SV15EC026	NITHYA SHREE B T	30	38	38	10	20	20	18	18	20	2	2	2	2	2	39	7.8	4.2	4.2	4.2	4.2	29.8	26.2	24.2	24.2	26.2	26.64
20	1SV15EC027	NOOR AYESHA	30	36	40	10	20	20	16	20	20	2	2	2	2	2	49	9.8	6.6	6.6	6.6	6.6	31.8	28.6	26.6	34.6	28.6	27.28
21	1SV15EC028	PADMA M A	25	36	38	10	15	18	18	20	18	2	2	2	2	2	28	5.6	4.2	4.2	4.2	4.2	22.6	24.2	24.2	26.2	24.2	26.36
22	1SV15EC030	POOJA K S	40	30	38	20	20	20	10	20	18	2	2	2	2	2	54	10.8	5.2	5.2	5.2	5.2	32.8	27.2	17.2	27.2	25.2	25.1
23	1SV15EC031	PRABIN KARKI	28	38	40	8	20	19	19	20	20	2	2	2	2	2	57	11.4	6	6	6	6	33.4	27	27	28	28	27.3
24	1SV15EC032	PRASHANT CHOUDRI	28	28	34	8	20	20	8	16	16	2	2	2	2	2	55	11	2.6	2.6	2.6	2.6	33	34.6	13.6	20.6	22.6	25.68
25	1SV15EC033	PREETHI BAI B L	30	36	20	10	20	20	16	11	9	2	2	2	2	2	55	11	4.2	4.2	4.2	4.2	33	26.2	22.2	17.2	15.2	22.72
26	1SV15EC034	PRIYANKA K	30	34	35	10	20	18	16	20	15	2	2	2	2	2	13	2.6	2.6	2.6	2.6	2.6	24.6	22.6	20.6	24.6	19.6	22.58
27	1SV15EC035	RAGHURAJ G K	23	38	33	10	13	19	19	20	13	2	2	2	2	2	44	8.8	6.2	6.2	6.2	6.2	23.8	27.2	27.2	28.2	21.2	23.96
28	1SV15EC036	RAKSHA M V	30	40	36	10	20	20	20	20	16	2	2	2	2	2	44	8.8	5.2	5.2	5.2	5.2	30.8	27.2	27.2	27.2	23.2	26.52
29	1SV15EC038	RAMYA M G	30	40	40	10	20	20	20	20	20	2	2	2	2	2	38	7.6	6.2	6.2	6.2	6.2	29.6	28.2	28.2	28.2	28.2	27.8
30	1SV15EC039	RANJITHA B M	30	38	38	10	20	18	20	20	18	2	2	2	2	2	41	8.2	4.2	4.2	4.2	4.2	30.2	24.2	26.2	26.2	24.2	27.34
31	1SV15EC040	ROHITH P	27	40	40	10	17	20	20	20	20	2	2	2	2	2	44	8.8	8.8	8.8	8.8	8.8	27.8	30.8	30.8	30.8	30.8	28.2
32	1SV15EC041	SAVITA HOSALLI	22	36	40	7	15	19	17	20	20	2	2	2	2	2	44	8.8	7.8	7.8	7.8	7.8	25.8	28.8	26.8	29.8	29.8	29.2
33	1SV15EC042	SHALINI N	30	38	38	10	20	20	18	20	18	2	2	2	2	2	35	7	5.8	5.8	5.8	5.8	29	27.8	25.8	27.8	25.8	27.72
34	1SV15EC043	SONA K R	27	38	40	10	17	19	19	20	20	2	2	2	2	2	41	8.2	8.2	8.2	8.2	8.2	27.2	29.2	29.2	30.2	30.2	28.22
35	1SV15EC044	SOUMYA D H	30	40	40	10	20	20	20	20	20	2	2	2	2	2	49	9.8	9.8	9.8	9.8	9.8	31.8	31.8	31.8	31.8	31.8	30.5
36	1SV15EC046	SUSHMA T N	28	27	35	10	18	20	7	20	15	2	2	2	2	2	41	8.2	8.2	8.2	8.2	8.2	28.2	30.2	17.2	30.2	25.2	29
37	1SV15EC047	THOSHITHA	30	28	40	10	20	20	8	20	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	30.2	26.2	14.2	26.2	25.2	25
38	1SV15EC049	USHA Y M	25	38	36	10	15	20	18	20	16	2	2	2	2	2	23	4.6	4.6	4.6	4.6	4.6	21.6	26.6	24.6	26.6	22.6	24.1
39	1SV15EC051	VINAY S P	29	37	23	10	19	19	18	10	13	2	2	2	2	2	28	5.6	5.6	5.6	5.6	5.6	26.6	26.6	25.6	17.6	20.6	23.9
40	1SV15EC052	VISHWAS S P	25	38	40	10	15	20	18	20	20	2	2	2	2	2	45	9	9	9	9	9	26	31	29	31	31	26.5
41	1SV16EC400	ABDUL NAZEERSAB A KANAVA	30	40	40	10	20	20	20	20	20	2	2	2	2	2	49	9.8	9.8	9.8	9.8	9.8	31.8	31.8	31.8	31.8	31.8	30.7
42	1SV16EC401	AISHWARYA K S	26	22	26	10	16	12	10	17	11	2	2	2	2	2	31	6.2	6.2	6.2	6.2	6.2	24.2	20.2	18.2	25.2	19.2	26.8
43	1SV16EC402	ANUSHA T P	30	32	38	10	20	20	12	20	18	2	2	2	2	2	35	7	7	7	7	7	29	29	21	29	27	24.2
44	1SV16EC403	BINDUSHREE G S	25	27	38	10	15	20	7	20	18	2	2	2	2	2	33	6.6	6.6	6.6	6.6	6.6	23.6	28.6	15.6	28.6	26.6	25.8
45	1SV16EC404	CHIRANJEEVI K M	30	38	38	10	20	18	20	20	16	2	2	2	2	2	25	5	5	5	5	5	27	25	27	27	23	25.2
46	1SV16EC406	KAVYA H	30	40	38	10	20	20	20	20	16	2	2	2	2	2	26	5.2	5.2	5.2	5.2	5.2	27.2	27.2	27.2	27.2	23.2	26.1
47	1SV16EC407	MANJUNATH B YANNI	30	40	40	10	20	20	20	20	20	2	2	2	2	2	31	6.2	6.2	6.2	6.2	6.2	28.2	28.2	28.2	28.2	28.2	27.3
48	1SV16EC408	MOHANKUMAR D	30	38	38	10	20	18	20	20	18	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	26.2	24.2	26.2	26.2	24.2	26.8
49	1SV16EC409	MOHITHA A	27	40	40	10	17	20	20	20	20	2	2	2	2	2	44	8.8	8.8	8.8	8.8	8.8	27.8	30.8	30.8	30.8	30.8	27.8
50	1SV16EC410	NANDINI L	25	36	40	10	15	19	17	20	20	2	2	2	2	2	39	7.8	7.8	7.8	7.8	7.8	24.8	28.8	26.8	29.8	29.8	29.1
51	1SV16EC413	POOJA A	30	38	38	10	20	20	18	20	18	2	2	2	2	2	29	5.8	5.8	5.8	5.8	5.8	27.8	27.8	25.8	27.8	25.8	27.5
52	1SV16EC412	RAMYA N K	27	38	40	10	17	19	19	20	20	2	2	2	2	2	41	8.2	8.2	8.2	8.2	8.2	27.2	29.2	29.2	30.2	30.2	28.1
53	1SV16EC413	RAMYASHREE M	30	40	40	10	20	20	20	20	20	2	2	2	2	2	49	9.8	9.8	9.8	9.8	9.8	31.8	31.8	31.8	31.8	31.8	30.5
54	1SV16EC414	SOWNDARYA A	28	27	35	10	18	20	7	20	15	2	2	2	2	2	41	8.2	8.2	8.2	8.2	8.2	28.2	30.2	17.2	30.2	25.2	29
55	1SV14EC002	ANJU N	30	28	40	10	20	20	8	20	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	26.2	26.2	14.2	26.2	25.2	25
56	1SV15EC409	RAMYA B S	32	38	36	17	15	20	18	20	16	2	2	2	2	2	23	4.6	4.6	4.6	4.6	4.6	21.6	26.6	24.6	26.6	22.6	24.1
																							25.338	24.91	21.875	25.083	23.186	
																							62.64%	71.21%	61.69%	60.34%	59.77%	

SUBJECT FACULTY

HOD
Dept of E&C
SIET, Tumkur-6

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SIET, TUMKUR

SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

Department of Electronics & Communication Engineering

Course Outcomes and CO-PO Articulation Matrix 2017-2018

2015 Scheme

Semester-VI

Subject: COMPUTER COMMUNICATION NETWORKS NAME OF THE FACULTY: PROF.PRASSANNA KUMAR B K	**Subject Code: 15EC64**

CourseOutcomes

CO1	Identify the protocols and services of Data link layer.
CO2	Identify the protocols and functions associated with the transport layer services
CO3	Describe the layering architecture of computer networks and distinguish between the OSI reference model and TCP/IP protocol suite
CO4	Distinguish the basic network configurations and standards associated with each network.
CO5	Construct a network model and determine the routing of packets using different routing algorithms.

CO-PO Mapping

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

ATTAINMENT TABLE

COs	**AVG**	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
CO1	75.00%	1.5	0.75	1.5	1.5	1.5					1.5		1.5
CO2	77.82%	1.55	0.71	1.55	1.55	1.55					1.55		1.55
CO3	69.67%	1.39	0.69	1.39	1.39	1.39					1.39		1.39
CO4	77.34%	1.55	0.71	1.55	1.55	1.55					1.55		1.55
CO5	73.12%	1.5	0.75	1.5	1.5	1.5					1.5		1.5
AVERAGE		**1.49**	**0.72**	**1.49**	**1.49**	**1.49**					**1.49**		**1.49**
TOTAL ATTAINMENT													**1.38**

COURSE INSTRUCTOR

HOD

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SIET, Tumkur-6

PRINCIPAL
SIET., TUMAKURU

15SEC64 2017-2018 EVEN SEM VI SEM PROF.PRASSANNA KUMAR B.K SUB:COMPUTER COMMUNICATION NETWORK

sit No	USN	Name	T1	T2	T3	T1 CO1-20	T1 CO2-20	T2 CO2-20	T2 CO3-20	T3 CO4-20	T3 CO5-20	ASSIGNMENT 10/5 CO1-2	CO2-2	CO3-2	CO4-2	CO5-2	SEE 60	SEE MARKS CO1-12	CO2-12	CO3-12	CO4-12	CO5-12	Final CO1-28	CO2-20	CO3-21	CO4-20	CO5-21	TOTAL AVERAGE
1	15V14EC015	LAHARI N RAJ	35	22	28	19	16	12	10	17	11	2	2	2	2	2	26	5.6	5.6	5.6	5.6	5.6	23.6	19.6	17.6	24.6	18.6	20.8
2	15V14EC026	RAMYA K	40	32	38	20	20	20	12	20	18	2	2	2	2	2	35	7	7	7	7	7	29	29	21	20	27	23.9
3	15V14EC029	RASHMIN BEGAM H	35	27	38	20	15	20	7	20	18	2	2	2	2	2	33	6.6	6.6	6.6	6.6	6.6	23.6	28.6	26.6	26.6	26.6	25.8
4	15V15EC001	ABHISHEK G SHEELVANT	40	38	38	20	20	18	20	20	18	2	2	2	2	2	44	8.8	8.8	8.8	8.8	8.8	30.8	28.8	30.8	30.8	26.8	27.1
5	15V15EC002	AISHWARYA S M	40	40	36	20	20	20	20	20	16	2	2	2	2	2	56	11.2	11.2	11.2	11.2	11.2	33.2	33.2	33.2	33.2	29.2	32
6	15V15EC003	AKSHATA BIRADAR	40	40	40	20	20	20	20	20	20	2	2	2	2	2	49	9.8	9.8	9.8	9.8	9.8	31.8	31.8	31.8	31.8	31.8	33.1
7	15V15EC004	AMEENA ROUSHNIE	40	38	38	20	20	18	20	20	18	2	2	2	2	2	49	9.8	9.8	9.8	9.8	9.8	31.8	29.8	31.8	31.8	29.8	31.4
8	15V15EC005	ARUN C G	37	40	40	20	17	20	20	20	20	2	2	2	2	2	44	8.8	8.8	8.8	8.8	8.8	27.8	30.8	30.8	30.8	30.8	30.6
9	15V15EC007	BHAVANA N	36	36	40	20	15	19	17	20	20	2	2	2	2	2	39	7.8	7.8	7.8	7.8	7.8	26.8	26.8	26.8	29.8	29.8	29.1
10	15V15EC009	CL BALAJI	40	38	38	20	20	20	18	20	18	2	2	2	2	2	54	10.8	10.8	10.8	10.8	10.8	32.8	32.8	30.8	32.8	30.8	30
11	15V15EC010	CHAITHRA M	37	38	40	20	17	19	19	20	20	2	2	2	2	2	58	11.6	11.6	11.6	11.6	11.6	30.6	32.6	32.6	33.6	33.6	32.3
12	15V15EC011	D CHANDANA	40	40	40	20	20	20	20	20	20	2	2	2	2	2	38	7.6	7.6	7.6	7.6	7.6	29.6	29.6	29.6	29.6	29.6	31.1
13	15V15EC012	DEEPIKA H P	38	27	36	20	18	20	7	20	16	2	2	2	2	2	35	7	7	7	7	7	27	29	16	29	24	27.3
14	15V15EC013	GAGANA S K	40	28	40	20	20	20	8	20	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	26.2	26.2	14.2	26.2	26.2	24.4
15	15V15EC014	GEETA RAMESHAPPA HANCHI	32	38	36	17	15	20	18	20	16	2	2	2	2	2	47	9.4	9.4	9.4	9.4	9.4	26.4	32.4	29.4	31.4	27.4	26.5
16	15V15EC016	HARINI D C	39	37	23	20	19	19	18	10	13	2	2	2	2	2	53	10.6	10.6	10.6	10.6	10.6	31.6	31.6	30.6	22.6	23.6	28.8
17	15V15EC017	S KAVITHA	38	38	40	20	18	20	18	20	20	2	2	2	2	2	41	8.2	8.2	8.2	8.2	8.2	25.2	30.2	28.2	30.2	30.2	28.6
18	15V15EC020	MAMATHA M S	30	38	38	20	10	16	20	20	18	2	2	2	2	2	57	11.4	11.4	11.4	11.4	11.4	23.4	31.4	33.4	33.4	31.4	29.7
19	15V15EC026	NITHYA SHREE B T	40	38	38	20	20	20	18	18	20	2	2	2	2	2	54	10.8	10.8	10.8	10.8	10.8	32.8	32.8	30.8	30.8	32.8	31.3
20	15V15EC027	NOOR AYESHA	40	36	40	20	20	20	16	20	20	2	2	2	2	2	33	6.6	6.6	6.6	6.6	6.6	28.6	28.6	24.6	28.6	28.6	29.9
21	15V15EC028	PADMA M A	35	36	38	20	15	18	18	20	18	2	2	2	2	2	60	12	12	12	12	12	29	32	32	34	32	29.8
22	15V15EC030	POOJA K S	40	30	38	20	20	20	10	20	18	2	2	2	2	2	43	8.6	8.6	8.6	8.6	8.6	30.6	30.6	20.6	30.6	28.6	30
23	15V15EC031	PRABIN KARKI	40	38	40	20	20	19	19	20	20	2	2	2	2	2	58	11.6	11.6	11.6	11.6	11.6	33.6	32.6	32.6	33.6	33.6	32.7
24	15V15EC032	PRASHANT CHOUDHRI	38	28	34	18	20	20	8	16	18	2	2	2	2	2	38	7.6	7.6	7.6	7.6	7.6	29.6	29.6	17.6	25.6	27.6	29.6
25	15V15EC033	PREETHI BAI B L	40	36	20	20	20	20	16	11	9	2	2	2	2	2	49	9.8	9.8	9.8	9.8	9.8	31.8	31.8	27.8	22.8	20.8	26.5
26	15V15EC034	PRIYANKA K	40	34	35	20	20	18	16	20	15	2	2	2	2	2	60	12	12	12	12	12	34	32	30	34	29	29.4
27	15V15EC035	RAGHURAJ G K	33	38	33	20	13	19	19	20	13	2	2	2	2	2	31	6.2	6.2	6.2	6.2	6.2	21.2	27.2	27.2	28.2	21.2	26.4
28	15V15EC036	RAKSHA M V	40	40	36	20	20	20	20	20	16	2	2	2	2	2	54	10.8	10.8	10.8	10.8	10.8	32.8	32.8	32.8	32.8	28.8	28.5
29	15V15EC038	RAMYA M G	40	40	40	20	20	20	20	20	20	2	2	2	2	2	45	9	9	9	9	9	31	31	31	31	31	31.5
30	15V15EC039	RANJITHA B M	40	38	38	20	20	18	20	20	18	2	2	2	2	2	47	9.4	9.4	9.4	9.4	9.4	31.4	29.4	31.4	31.4	29.4	30.8
31	15V15EC040	ROHITH P	37	40	40	20	17	20	20	20	20	2	2	2	2	2	53	10.6	10.6	10.6	10.6	10.6	29.6	32.6	32.6	32.6	32.6	31.3
32	15V15EC041	SAVITA HOSALLI	35	36	40	20	15	19	17	20	20	2	2	2	2	2	46	9	9	9	9	9	29	30	28	31	31	30.6
33	15V15EC042	SHALINI N	40	38	38	20	20	20	18	20	18	2	2	2	2	2	36	7.2	7.2	7.2	7.2	7.2	29.2	29.2	27.2	29.2	27.2	28.8
34	15V15EC043	SONA K R	37	38	40	20	17	19	19	20	20	2	2	2	2	2	44	8.8	8.8	8.8	8.8	8.8	27.8	29.8	29.8	30.8	30.8	29.1
35	15V15EC044	SOUMYA D H	40	40	40	20	20	20	20	20	20	2	2	2	2	2	50	10	10	10	10	10	32	32	32	32	32	30.9
36	15V15EC046	SUSHMA T N	38	27	35	20	18	20	7	20	15	2	2	2	2	2	47	9.4	9.4	9.4	9.4	9.4	29.4	31.4	18.4	31.4	26.4	28.7
37	15V15EC047	THOSHITHA	40	28	40	20	20	20	8	20	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	26.2	26.2	14.2	26.2	26.2	25.6
38	15V15EC049	USHA Y M	32	38	36	17	15	20	18	20	16	2	2	2	2	2	53	10.6	10.6	10.6	10.6	10.6	27.6	32.6	30.6	32.6	28.6	27.1
39	15V15EC051	VINAY S P	39	37	23	20	19	19	18	10	13	2	2	2	2	2	28	5.6	5.6	5.6	5.6	5.6	26.6	26.6	25.6	17.6	30.6	26.9
40	15V15EC052	VISHWAS S P	35	38	40	20	15	20	18	20	20	2	2	2	2	2	40	8	8	8	8	8	25	30	28	30	30	28
41	15V16EC400	ABDUL NAZEERSAB A KANAV	40	40	40	20	20	20	20	20	20	2	2	2	2	2	42	8.4	8.4	8.4	8.4	8.4	30.4	30.4	30.4	30.4	30.4	29.5
42	15V16EC401	AISHWARYA K S	35	22	28	19	16	12	10	17	11	2	2	2	2	2	31	6.2	6.2	6.2	6.2	6.2	24.2	20.2	18.2	25.2	19.2	25.9
43	15V16EC402	ANUSHA T P	40	32	38	20	20	20	12	20	18	2	2	2	2	2	48	9.6	9.6	9.6	9.6	9.6	31.6	31.6	23.6	31.6	29.6	25.5
44	15V16EC403	BINDUSHREE G S	35	27	38	20	15	20	7	20	18	2	2	2	2	2	31	6.2	6.2	6.2	6.2	6.2	23.2	28.2	15.2	28.2	26.2	26.9
45	15V16EC404	CHIRANJEEVI K M	40	38	36	20	20	18	20	20	16	2	2	2	2	2	44	8.8	8.8	8.8	8.8	8.8	30.8	28.8	30.8	30.8	26.8	26.9
46	15V16EC406	KAVYA H	40	40	36	20	20	20	20	20	16	2	2	2	2	2	35	7	7	7	7	7	29	29	29	29	25	28.9
47	15V16EC407	MANJUNATH B YANNI	40	40	40	20	20	20	20	20	20	2	2	2	2	2	50	10	10	10	10	10	32	32	32	32	32	30.1
48	15V16EC408	MOHANKUMAR D	40	38	38	20	20	18	20	20	18	2	2	2	2	2	46	9.2	9.2	9.2	9.2	9.2	31.2	29.2	31.2	31.2	29.2	31.2
49	15V16EC409	MOHITHA A	37	40	40	20	17	20	20	20	20	2	2	2	2	2	44	8.8	8.8	8.8	8.8	8.8	27.8	30.8	30.8	30.8	30.8	30.3
50	15V16EC410	NANDINI L	35	36	40	20	15	19	17	20	20	2	2	2	2	2	39	7.8	7.8	7.8	7.8	7.8	24.8	28.8	26.8	29.8	29.8	29.1
51	15V16EC411	POOJA A	40	38	38	20	20	20	18	20	18	2	2	2	2	2	15	3	3	3	3	3	25	25	23	25	23	26.1
52	15V16EC412	RAMYA N K	37	38	40	20	17	19	19	20	20	2	2	2	2	2	41	8.2	8.2	8.2	8.2	8.2	27.2	29.2	29.2	30.2	30.2	26.7
53	15V16EC413	RAMYASHREE M	40	40	40	20	20	20	20	20	20	2	2	2	2	2	49	9.8	9.8	9.8	9.8	9.8	31.8	31.8	31.8	31.8	31.8	30.5
54	15V16EC414	SOWNDARYA A	38	27	35	20	18	20	7	20	15	2	2	2	2	2	41	8.2	8.2	8.2	8.2	8.2	28.2	30.2	17.2	30.2	25.2	29
55	15V14EC002	ANJU N	40	28	40	20	20	20	8	20	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	26.2	26.2	14.2	26.2	26.2	25
56	15V15EC409	RAMYA B S	32	38	36	17	15	20	18	20	16	2	2	2	2	2	23	4.6	4.6	4.6	4.6	4.6	21.6	26.6	24.6	26.6	22.6	24.1
																							27	28.01579	25.083	27.841	26.324	
																							75.00%	77.82%	69.67%	77.34%	73.12%	

SUBJECT FACULTY

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SIRA ROAD, TUMKUR- 572 106.

Department of Electronics & Communication Engineering

Course Outcomes and CO-PO Articulation Matrix 2017-2018

2015 Scheme

Semester-VI

Subject: CELLULAR MOBILE COMMUNICATION NAME OF THE FACULTY: PROF.LATHA K	**Subject Code: 15EC65**

	Course Outcomes
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

CO-PO Mapping

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

ATTAINMENT TABLE

COs	**AVG**	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
CO1	75.84%	1.51	62.01%	69.67%	65.46%	1.37					0.69		0.69
CO2	70.15%	1.42	0.71	1.42	1.42	1.42					0.71		0.71
CO3	62.01%	1.17	0.59	1.17	1.17	1.17					1.17		0.59
CO4	69.67%	1.37	0.69	0.69	0.69	1.37					0.69		0.69
CO5	65.46%	1.27	0.63	1.27	1.27	1.27					0.63		0.63
AVERAGE		**1.32**	**0.7**	**1.05**	**1.05**	**1.32**					**0.78**		**0.662**
TOTAL ATTAINMENT													**0.983**

Latha L
COURSE INSTRUCTOR

HOD

HOD
Dept of E&C

PRINCIPAL

PRINCIPAL
SIET., TUMAKURU

15EC853 2017-2018 EVEN SEM /VI SEM PROF.LATHA K SUB:CELLULAR MOBILE COMMUNICATION

Sl No	USN	Name	T1	T2	T3	T1	T2	T2	T3	T3	ASSIGNMENT 10/5					SEE	SEE MARKS					Final					TOTAL AVERA
						CO1-	CO2-	CO3-	CO4-	CO5-	CO1-2	CO2-2	CO3-2	CO4-2	CO5-2	60	CO1-	CO2-	CO3-	CO4-	CO5-	CO1-	CO2-	CO3-	CO4-	CO5-	
1	1SV13EC015	LAHARI N RAJ	36	22	28	19	16	12	10	17	17	2	2	2	2	2	28	5.6	5.2	5.2	5.2	5.2	23.6	20.2	18.2	25.2	19.2	21.78
2	1SV14EC026	RAMYA K	40	32	38	20	20	20	12	20	18	2	2	2	2	2	35	7	7	7	7	7	29	29	21	29	27	27.16
3	1SV14EC029	RASHMIN BEGAM H	35	27	38	20	15	20	7	20	18	2	2	2	2	2	33	6.6	6.6	6.6	6.6	6.6	27.6	28.6	13.6	28.6	26.6	25.8
4	1SV15EC001	ABHISHEK G SHEELV	40	38	36	20	20	18	20	20	16	2	2	2	2	2	40	8	8	8	8	8	30	28	28	28	28	28.2
5	1SV15EC002	AISHWARYA S M	40	40	36	20	20	20	20	20	16	2	2	2	2	2	48	9.6	9.2	9.2	9.2	9.2	31.6	27.2	27.2	27.2	23.2	26.64
6	1SV15EC003	AKSHATA BIRADAR	40	40	40	20	20	20	20	20	20	2	2	2	2	2	63	12.6	8.2	8.2	8.2	8.2	34.6	28.2	28.2	28.2	28.2	28.36
7	1SV15EC004	AMEENA ROUSHNIE	40	38	38	20	20	18	20	20	18	2	2	2	2	2	40	8	4.2	4.2	4.2	4.2	30	24.2	26.2	26.2	24.2	27.92
8	1SV15EC005	ARUN C G	37	40	40	20	17	20	20	20	20	2	2	2	2	2	44	8.8	8.8	8.8	8.8	8.8	27.6	30.8	30.8	30.8	30.8	28.16
9	1SV15EC007	BHAVANA N	35	36	40	20	15	18	17	20	20	2	2	2	2	2	39	7.8	7.8	7.8	7.8	7.8	34.8	28.8	26.8	29.8	29.8	28.1
10	1SV15EC009	C L BALAJI	40	38	38	20	20	20	15	20	18	2	2	2	2	2	53	10.6	5.8	5.8	5.8	5.8	32.6	27.8	25.8	27.8	25.8	27.08
11	1SV15EC010	CHAITHRA M	37	38	40	20	17	19	19	20	20	2	2	2	2	2	51	10.2	8.2	8.2	8.2	8.2	29.2	29.2	29.2	30.2	30.2	28.76
12	1SV15EC011	D CHANDANA	40	40	40	20	20	20	20	20	20	2	2	2	2	2	47	9.4	9.8	9.8	9.8	9.8	31.4	31.8	31.8	31.8	31.8	31.64
13	1SV15EC012	DEEPIKA H P	38	27	35	20	18	20	7	20	15	2	2	2	2	2	60	12	8.2	8.2	8.2	8.2	32	30.2	27.2	30.2	30.2	28.76
14	1SV15EC013	GAGANA K K	40	28	40	20	20	20	8	20	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	26.2	26.2	24.2	26.2	26.2	25.36
15	1SV15EC014	GEETA RAMESHAPPA	32	38	38	17	10	20	18	20	16	2	2	2	2	2	50	10	4.8	4.8	4.8	4.8	27	28.8	24.8	26.8	22.8	24.84
16	1SV15EC016	HARINI D C	39	37	23	20	19	19	19	19	13	2	2	2	2	4	56	11.2	5.8	5.8	5.8	5.8	32.2	26.6	23.8	27.8	20.6	25
17	1SV15EC017	K KAVITHA	35	38	40	20	15	20	18	20	20	2	2	2	2	2	52	10.4	9	9	9	9	27.4	31	29	31	31	27.23
18	1SV15EC020	MAMATHA M S	30	38	38	20	10	18	20	20	18	2	2	2	2	2	58	11.6	7.2	7.2	7.2	7.2	33.6	27.2	29.2	29.2	27.2	28.6
19	1SV15EC026	NITHYA SHREE B T	40	38	36	20	20	20	18	18	20	2	2	2	2	2	55	11	4.2	4.2	4.2	4.2	33	26.2	24.2	24.2	24.2	27.07
20	1SV15EC027	NOOR AYESHA	40	36	40	20	20	20	16	20	20	2	2	2	2	2	33	6.6	6.6	6.6	6.6	6.6	28.6	28.6	24.6	28.6	28.6	27.26
21	1SV15EC028	PADMA M A	36	36	38	20	15	18	16	20	18	2	2	2	2	2	56	11.2	4.2	4.2	4.2	4.2	28.2	24.2	24.2	26.2	24.2	26.6
22	1SV15EC030	POOJA K S	40	30	38	20	20	20	10	20	18	2	2	2	2	2	53	10.6	5.2	5.2	5.2	5.2	32.6	27.2	27.2	27.2	25.2	25.64
23	1SV15EC031	PRABIN KARKI	40	38	40	20	20	19	19	20	20	2	2	2	2	2	60	12	8	8	8	8	34	27	27	28	28	27.34
24	1SV15EC032	PRASHANT CHOUDRI	38	28	34	18	20	20	8	18	18	2	2	2	2	2	42	8.4	2.6	2.6	2.6	2.6	30.4	24.6	12.6	20.6	22.6	25.48
25	1SV15EC033	PRITHI BAI B L	40	36	20	20	20	20	16	11	9	2	2	2	2	2	58	11.6	4.2	4.2	4.2	4.2	33.8	26.2	22.2	27.2	19.2	27.56
26	1SV15EC034	PRIYANKA K	40	34	38	20	20	18	16	20	15	2	2	2	2	2	56	11.2	2.6	2.6	2.6	2.6	33.2	27.8	30.8	24.8	19.6	28.52
27	1SV15EC035	RAGHURAJ G K	33	38	33	20	13	19	19	20	13	2	2	2	2	2	31	6.2	6.2	6.2	6.2	6.2	21.2	27.2	27.2	28.2	21.2	24.56
28	1SV15EC036	RAKSHA M V	40	40	38	20	20	20	20	20	18	2	2	2	2	2	28	5.2	5.2	5.2	5.2	5.2	27.2	27.2	27.2	27.2	23.2	25.7
29	1SV15EC038	RAMYA M G	40	40	40	20	20	20	20	20	20	2	2	2	2	2	31	6.2	6.2	6.2	6.2	6.2	28.2	28.2	28.2	28.2	28.2	27.3
30	1SV15EC039	RANJITHA B M	40	38	38	20	20	18	20	20	18	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	26.2	24.2	26.2	26.2	24.2	26.8
31	1SV15EC040	ROHITH P	37	40	40	20	17	20	20	20	20	2	2	2	2	2	44	8.8	8.6	8.6	8.6	8.6	27.8	30.8	30.8	30.8	30.8	27.8
32	1SV15EC041	SAVITA HOSALLI	35	36	40	20	15	19	17	20	20	2	2	2	2	2	39	7.8	7.8	7.8	7.8	7.8	34.8	28.8	28.8	28.8	29.8	28.1
33	1SV15EC042	SHALINI N	40	38	38	20	20	20	18	20	18	2	2	2	2	2	29	5.8	5.8	5.8	5.8	5.8	27.8	27.8	25.8	27.8	25.8	27.5
34	1SV15EC043	SONA K R	37	38	40	20	17	19	19	20	20	2	2	2	2	2	41	8.2	8.2	8.2	8.2	8.2	27.2	29.2	29.2	30.2	30.2	28.1
35	1SV15EC044	SOUMYA D H	40	40	40	20	20	20	20	20	20	2	2	2	2	2	49	9.8	9.8	9.8	9.8	9.8	31.8	31.8	31.8	31.8	31.8	30.5
36	1SV15EC046	SUSHMA T N	38	27	35	20	18	20	7	20	15	2	2	2	2	2	41	8.2	8.2	8.2	8.2	8.2	28.2	30.2	17.2	30.2	25.2	26
37	1SV15EC047	THOSHITHA	40	28	40	20	20	20	8	20	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	26.2	26.2	14.2	26.2	26.2	25
38	1SV15EC049	USHA V M	32	38	38	17	15	20	18	20	16	2	2	2	2	2	23	4.6	4.6	4.6	4.6	4.6	21.6	26.6	24.6	26.6	22.6	24.1
39	1SV15EC051	VINAY S P	39	37	23	20	19	19	18	10	13	2	2	2	2	2	28	5.6	5.6	5.6	5.6	5.6	26.6	26.6	25.6	17.6	20.6	23.9
40	1SV15EC052	VISHWAS S P	35	38	40	20	15	20	18	20	20	2	2	2	2	2	46	9	9	9	9	9	25	31	29	31	31	28.5
41	1SV16EC400	ABDUL NAZEERSAB A	40	40	40	20	20	20	20	20	20	2	2	2	2	2	49	9.8	9.8	9.8	9.8	9.8	31.8	31.8	31.8	31.8	31.8	30.7
42	1SV16EC401	AISHWARYA K S	35	22	28	19	16	12	10	17	11	2	2	2	2	2	31	6.2	6.2	6.2	6.2	6.2	34.2	20.2	18.2	25.2	19.2	26.6
43	1SV16EC402	ANUSHA T P	40	32	38	20	20	20	12	20	18	2	2	2	2	2	35	7	7	7	7	7	29	29	21	29	27	27.4
44	1SV16EC403	BINDUSHREE G S	35	27	38	20	15	20	7	20	18	2	2	2	2	2	33	6.6	6.6	6.6	6.6	6.6	31.6	28.6	15.6	28.6	26.6	25.8
45	1SV16EC404	C PURANJEEVI K M	40	38	36	20	20	18	20	20	18	2	2	2	2	2	25	5	5	5	5	5	27	25	27	27	23	25.2
46	1SV16EC406	KAVYA H	40	40	36	20	20	20	20	20	16	2	2	2	2	2	26	5.2	5.2	5.2	5.2	5.2	27.2	27.2	27.2	27.2	23.2	26.1
47	1SV16EC407	MANJUNATH B YANK	40	40	40	20	20	20	20	20	20	2	2	2	2	2	31	6.2	6.2	6.2	6.2	6.2	28.2	28.2	28.2	28.2	28.2	27.3
48	1SV16EC408	MOHANKUMAR D	40	38	38	20	20	18	20	20	18	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	26.2	24.2	26.2	26.2	24.2	26.8
49	1SV16EC409	MOHITHA A	37	40	40	20	17	20	20	20	20	2	2	2	2	2	44	8.8	8.8	8.8	8.8	8.8	27.8	30.8	30.8	30.8	30.8	27.8
50	1SV16EC410	NANDINI L	35	36	40	20	15	19	17	20	20	2	2	2	2	2	39	7.8	7.8	7.8	7.8	7.8	34.8	28.8	26.8	29.8	29.8	28.1
51	1SV16EC411	POOJA A	40	38	38	20	20	20	18	20	18	2	2	2	2	2	29	5.8	5.8	5.8	5.8	5.8	27.8	27.8	25.8	27.8	25.8	27.5
52	1SV16EC412	RAMYA N K	37	38	40	20	17	19	19	20	20	2	2	2	2	2	41	8.2	8.2	8.2	8.2	8.2	27.2	29.2	29.2	30.2	30.2	28.1
53	1SV16EC413	RAMYASHREE M	40	40	40	20	20	20	20	20	20	2	2	2	2	2	49	9.8	9.8	9.8	9.8	9.8	31.8	31.8	31.8	31.8	31.8	30.5
54	1SV16EC414	SOWNDARYA A	38	27	35	20	18	20	7	20	15	2	2	2	2	2	41	8.2	8.2	8.2	8.2	8.2	28.2	30.2	17.2	30.2	25.2	26
55	1SV14EC002	ANJU N	40	28	40	20	20	20	8	20	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	26.2	26.2	14.2	26.2	26.2	25
56	1SV15EC409	RAMYA B S	32	38	36	17	15	20	18	20	16	2	2	2	2	2	23	4.6	4.6	4.6	4.6	4.6	21.6	26.6	24.6	26.6	22.6	24.1
																						27.303	25.255	22.324	25.083	23.566	
																						75.84%	70.15%	62.01%	69.67%	65.46%	

Latha L
SUBJECT FACULTY

HOD
Dept of E&C
SIET, Tumkur-6

PRINCIPAL

PRINCIPAL
SIET, TUMAKURU

SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

Department of Electronics & Communication Engineering

Course Outcomes and CO-PO Articulation Matrix 2017-2018

2015 Scheme

Semester-VI

Subject: Digital System Design using Verilog (DSDV) NAME OF THE FACULTY: PROF.RAGHAVENDRA D	**Subject Code: 15EC663**

	Course Outcomes
CO1	Construct the combinational circuits, using discrete gates and programmable logic devices.
CO2	Describe Verilog model for sequential circuits and test pattern generation.
CO3	Design a semiconductor memory for specific chip design.
CO4	Design embedded systems using small microcontrollers, larger CPUs/DSPs, or hard or soft processor cores.
CO5	Synthesize different types of processor and I/O controllers that are used in embedded system.

CO-PO Mapping

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

ATTAINMENT TABLE

COs	**AVG**	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
CO1	67.09 %	1.51	62.01 %	69.67 %	65.4 6%	1.37					0.69		0.69
CO2	70.15 %	1.42	0.71	1.42	1.42	1.42					0.71		0.71
CO3	62.01 %	1.17	0.59	1.17	1.17	1.17					1.17		0.59
CO4	69.67%	1.37	0.69	0.69	0.69	1.37					0.69		0.69
CO5	65.46%	1.27	0.63	1.27	1.27	1.27					0.63		0.63
AVERAGE		**1.32**	**0.7**	**1.05**	**1.05**	**1.32**					**0.78**		**0.662**
TOTAL ATTAINMENT													**0.983**

COURSE INSTRUCTOR **HOD** **PRINCIPAL**

HOD
Dept of E&C
SIET, Tumkur-6

PRINCIPAL
SIET, TUMKUR

15EC663 2017-2018 EVEN SEM :VI SEM PROF.RAGHAVENDRA D SUB:OSDV

Sl No	USN	Name	T1	T2	T3	T1 CO1	T1 CO2	T2 CO2	T2 CO3	T3 CO4	T3 CO5	ASSIGNMENT 10/5 CO1	CO2	CO3	CO	CO5	SEE 60	SEE MARKS CO	CO2	CO3	CO4	CO5	Final CO1	CO2	CO3	CO4	CO5	TOTAL
1	1SV14EC015	LAHARI N RAJ	35	22	26	19	16	12	10	17	11	2	2	2	2	2	31	6.2	6.2	6.2	6.2	6.2	24.2	20.2	18.2	25.2	19.2	21.2
2	1SV14EC026	RAMYA K	40	32	38	20	20	20	12	20	18	2	2	2	2	2	35	7	7	7	7	7	29	29	27	29	27	24.2
3	1SV14EC029	RASHMIN BEGAM H	35	27	38	20	15	20	7	20	18	2	2	2	2	2	33	6.6	6.6	6.6	6.6	6.6	23.6	28.6	15.6	28.6	26.6	25.8
4	1SV15EC001	ABHISHEK G SHEELVA	40	38	36	20	20	18	20	20	16	2	2	2	2	2	25	5	5	5	5	5	27	25	27	27	23	25.2
5	1SV15EC002	AISHWARYA S M	40	40	36	20	20	20	20	20	16	2	2	2	2	2	26	5.2	5.2	5.2	5.2	5.2	27.2	27.2	27.2	27.2	23.2	26.1
6	1SV15EC003	AKSHATA BIRADAR	40	40	40	20	20	20	20	20	20	2	2	2	2	2	31	6.2	6.2	6.2	6.2	6.2	28.2	28.2	28.2	28.2	28.2	27.3
7	1SV15EC004	AMEENA ROUSHNIE	40	38	38	20	20	18	20	20	16	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	26.2	24.2	28.2	26.2	24.2	26.8
8	1SV15EC005	ARUN C G	37	40	40	20	17	20	20	20	20	2	2	2	2	2	44	8.8	8.8	8.8	8.8	8.8	27.8	30.8	30.8	30.8	30.8	27.8
9	1SV15EC007	BHAVANA N	35	36	40	20	15	19	17	20	20	2	2	2	2	2	39	7.8	7.8	7.8	7.8	7.8	24.8	28.8	26.8	29.8	29.8	29.1
10	1SV15EC009	C. BALAJI	40	38	38	20	20	20	18	20	18	2	2	2	2	2	29	5.8	5.8	5.8	5.8	5.8	27.8	27.8	25.8	27.8	25.8	27.5
11	1SV15EC010	CHAITHRA M	37	38	40	20	17	19	19	20	20	2	2	2	2	2	41	8.2	8.2	8.2	8.2	8.2	27.2	29.2	29.2	30.2	30.2	28.1
12	1SV15EC011	D CHANDANA	40	40	40	20	20	20	20	20	20	2	2	2	2	2	49	9.8	9.8	9.8	9.8	9.8	31.8	31.8	31.8	31.8	31.8	30.5
13	1SV15EC012	DEEPIKA H P	38	27	35	20	18	20	7	20	15	2	2	2	2	2	41	8.2	8.2	8.2	8.2	8.2	28.2	30.2	17.2	30.2	25.2	26
14	1SV15EC013	GAGANA S K	40	28	40	20	20	20	8	20	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	26.2	26.2	14.2	26.2	26.2	25
15	1SV15EC014	GEETA RAMESHAPPA	32	38	36	17	15	20	18	20	16	2	2	2	2	2	23	4.6	4.6	4.6	4.6	4.6	21.6	26.6	24.6	26.6	22.6	24.1
16	1SV15EC016	HARINI D C	38	37	23	20	19	19	18	10	13	2	2	2	2	2	28	5.6	5.6	5.6	5.6	5.6	26.6	26.6	25.6	17.6	20.6	23.8
17	1SV15EC017	S KAVITHA	35	38	40	20	15	20	18	20	20	2	2	2	2	2	45	9	9	9	9	9	26	31	29	31	31	26.5
18	1SV15EC020	MAMATHA M S	30	38	38	20	10	18	20	20	18	2	2	2	2	2	36	7.2	7.2	7.2	7.2	7.2	19.2	27.2	29.2	29.2	27.2	28
19	1SV15EC026	NITHYA SHREE B T	40	38	38	20	20	20	18	18	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	26.2	26.2	24.2	24.2	26.2	25.5
20	1SV15EC027	NOOR AYESHA	40	36	40	20	20	20	16	20	20	2	2	2	2	2	33	6.6	6.6	6.6	6.6	6.6	28.6	28.6	24.6	28.6	28.6	26.8
21	1SV15EC028	PADMA M A	35	36	38	20	15	18	18	20	18	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	21.2	24.2	24.2	26.2	24.2	25.6
22	1SV15EC030	POOJA K S	40	30	38	20	20	20	10	20	18	2	2	2	2	2	28	5.2	5.2	5.2	5.2	5.2	27.2	27.2	17.2	27.2	25.2	24.4
23	1SV15EC031	PRABIN KARKI	40	38	40	20	20	19	19	20	20	2	2	2	2	2	30	6	6	6	6	6	28	27	27	28	28	26.1
24	1SV15EC032	PRASHANT CHOUDRI	38	28	34	18	20	20	8	18	18	2	2	2	2	2	13	2.6	2.6	2.6	2.6	2.6	24.6	24.6	12.6	20.6	22.6	24.3
25	1SV15EC033	PREETHI BAI B L	40	36	20	20	20	20	16	11	9	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	26.2	26.2	22.2	17.2	15.2	21.3
26	1SV15EC034	PRIYANKA K	40	34	35	20	20	18	16	20	15	2	2	2	2	2	13	2.6	2.6	2.6	2.6	2.6	24.6	22.6	20.6	24.6	19.6	21.9
27	1SV15EC035	RAGHURAJ G K	33	38	33	20	13	19	19	20	13	2	2	2	2	2	31	6.2	6.2	6.2	6.2	6.2	21.2	27.2	27.2	28.2	21.2	25.7
28	1SV15EC036	RAKSHA M V	40	40	36	20	20	20	20	20	16	2	2	2	2	2	26	5.2	5.2	5.2	5.2	5.2	27.2	27.2	27.2	27.2	23.2	26.1
29	1SV15EC038	RAMYA M G	40	40	40	20	20	20	20	20	20	2	2	2	2	2	31	6.2	6.2	6.2	6.2	6.2	28.2	28.2	28.2	28.2	28.2	27.3
30	1SV15EC039	RANJITHA B M	40	38	38	20	20	18	20	20	18	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	26.2	24.2	26.2	26.2	24.2	26.8
31	1SV15EC040	ROHITH P	37	40	40	20	17	20	20	20	20	2	2	2	2	2	44	8.8	8.8	8.8	8.8	8.8	27.8	30.8	30.8	30.8	30.8	27.8
32	1SV15EC041	SAVITA HOSALLI	35	36	40	20	15	19	17	20	20	2	2	2	2	2	39	7.8	7.8	7.8	7.8	7.8	24.8	28.8	26.8	29.8	29.8	29.1
33	1SV15EC042	SHALINI N	40	38	38	20	20	20	18	20	18	2	2	2	2	2	29	5.8	5.8	5.8	5.8	5.8	27.8	27.8	25.8	27.8	25.8	27.5
34	1SV15EC043	SONA K R	37	36	40	20	17	19	19	20	20	2	2	2	2	2	41	8.2	8.2	8.2	8.2	8.2	27.2	29.2	29.2	30.2	30.2	28.1
35	1SV15EC044	SOUMYA D H	40	40	40	20	20	20	20	20	20	2	2	2	2	2	49	9.8	9.8	9.8	9.8	9.8	31.8	31.8	31.8	31.8	31.8	30.5
36	1SV15EC046	SUSHMA T N	38	27	35	20	18	20	7	20	15	2	2	2	2	2	41	8.2	8.2	8.2	8.2	8.2	28.2	30.2	17.2	30.2	25.2	26
37	1SV15EC047	THOSHITHA	40	28	40	20	20	20	8	20	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	26.2	26.2	14.2	26.2	26.2	25
38	1SV15EC049	USHA Y M	32	38	36	17	15	20	18	20	16	2	2	2	2	2	23	4.6	4.6	4.6	4.6	4.6	21.6	26.6	24.6	26.6	22.6	24.1
39	1SV15EC051	VINAY S P	39	37	23	20	19	19	18	10	13	2	2	2	2	2	28	5.6	5.6	5.6	5.6	5.6	26.6	26.6	25.6	17.6	20.6	23.9
40	1SV15EC052	VISHWAS S P	35	38	40	20	15	20	18	20	20	2	2	2	2	2	45	9	9	9	9	9	26	31	29	31	31	26.5
41	1SV16EC400	ABDUL NAZEERSAB A	40	40	40	20	20	20	20	20	20	2	2	2	2	2	49	9.8	9.8	9.8	9.8	9.8	31.8	31.8	31.8	31.8	31.8	30.7
42	1SV16EC401	AISHWARYA K S	35	22	28	19	16	12	10	17	11	2	2	2	2	2	31	6.2	6.2	6.2	6.2	6.2	24.2	20.2	18.2	25.2	19.2	26.6
43	1SV16EC402	ANUSHA T P	40	32	38	20	20	20	12	20	18	2	2	2	2	2	35	7	7	7	7	7	29	29	27	29	27	24.2
44	1SV16EC403	BINDUSHREE G S	35	27	38	20	15	20	7	20	18	2	2	2	2	2	33	6.6	6.6	6.6	6.6	6.6	23.6	28.6	15.6	28.6	26.6	25.8
45	1SV16EC404	CHIRANJEEVI K M	40	38	36	20	20	18	20	20	16	2	2	2	2	2	25	5	5	5	5	5	27	25	27	27	23	25.2
46	1SV16EC406	KAVYA H	40	40	36	20	20	20	20	20	16	2	2	2	2	2	26	5.2	5.2	5.2	5.2	5.2	27.2	27.2	27.2	27.2	23.2	26.1
47	1SV16EC407	MANJUNATH B YANNI	40	40	40	20	20	20	20	20	20	2	2	2	2	2	31	6.2	6.2	6.2	6.2	6.2	28.2	28.2	28.2	28.2	28.2	27.3
48	1SV16EC408	MOHANKUMAR D	40	38	38	20	20	18	20	20	16	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	26.2	24.2	26.2	26.2	24.2	26.8
49	1SV16EC409	MOHITHA A	37	40	40	20	17	20	20	20	20	2	2	2	2	2	44	8.8	8.8	8.8	8.8	8.8	27.8	30.8	30.8	30.8	30.8	27.8
50	1SV16EC410	NANDINI L	35	36	40	20	15	19	17	20	20	2	2	2	2	2	39	7.8	7.8	7.8	7.8	7.8	24.8	28.8	26.8	29.8	29.8	29.1
51	1SV16EC411	POOJA A	40	38	38	20	20	20	18	20	18	2	2	2	2	2	29	5.8	5.8	5.8	5.8	5.8	27.8	27.8	25.8	27.8	25.8	27.5
52	1SV16EC412	RAMYA N K	37	38	40	20	17	19	19	20	20	2	2	2	2	2	41	8.2	8.2	8.2	8.2	8.2	27.2	29.2	29.2	30.2	30.2	28.1
53	1SV16EC413	RAMYASHREE M	40	40	40	20	20	20	20	20	20	2	2	2	2	2	49	9.8	9.8	9.8	9.8	9.8	31.8	31.8	31.8	31.8	31.8	30.5
54	1SV16EC414	SOWNDARYA A	38	27	35	20	18	20	7	20	15	2	2	2	2	2	41	8.2	8.2	8.2	8.2	8.2	28.2	30.2	17.2	30.2	25.2	26
55	1SV14EC002	ANJU N	40	28	40	20	20	20	8	20	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	26.2	26.2	14.2	26.2	26.2	25
56	1SV15EC409	RAMYA B S	32	38	36	17	15	20	18	20	16	2	2	2	2	2	23	4.6	4.6	4.6	4.6	4.6	21.6	26.6	24.6	26.6	22.6	24.1
																							24.15	25.26	22.33	25.08	23.57	
																							67.09%	70.15%	62.01%	69.67%	65.46%	

SUBJECT FACULTY

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

DepartmentofElectronics & Communication Engineering

Course Outcomes and CO-PO- Articulation Matrix

2010Scheme
ACADEMIC YEAR 2017-18

Semester-VIII

Subject:Wireless Communication Prof. Prabitha D K	SubjectCode:10EC81

CourseOutcomes

CO1	Analyze the parameters with which the efficiency of cellular systems can be enhanced
CO2	Analyze the various radio wave propagation models and select the appropriate one as per requirements
CO3	Identify the concepts of fading and evaluate the performance
CO4	Evaluate different multiple access techniques
CO5	Demonstrate the basic principles of GSM & CDMA technologies

CO-POMapping

COs	Pos											
	1	2	3	4	5	6	7	8	9	10	11	12
CO1	2	2	2	2								2
CO2	2	3	2	2	2							
CO3	2	3	2	2	2							
CO4	2	2	3	3								2
CO5	2		2									2
Average	2	2.5	2.2	2.25	2							2

ATTAINMENT TABLE

COs	AVG	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	75.6%	1.51	1.51	1.51	1.51								1.51
CO2	56.27%	1.12	1.68	1.12	1.12	1.12							
CO3	56.62%	1.13	1.69	1.13	1.13	1.13							
CO4	61.74%	1.23	1.23	1.85	1.85								1.23
CO5	61.74.63%	1.23		1.23									1.23
AVERAGE		1.244	1.527	1.36	1.40	1.125							
TOTAL ATTAINMENT													1.3312

Course Instructor

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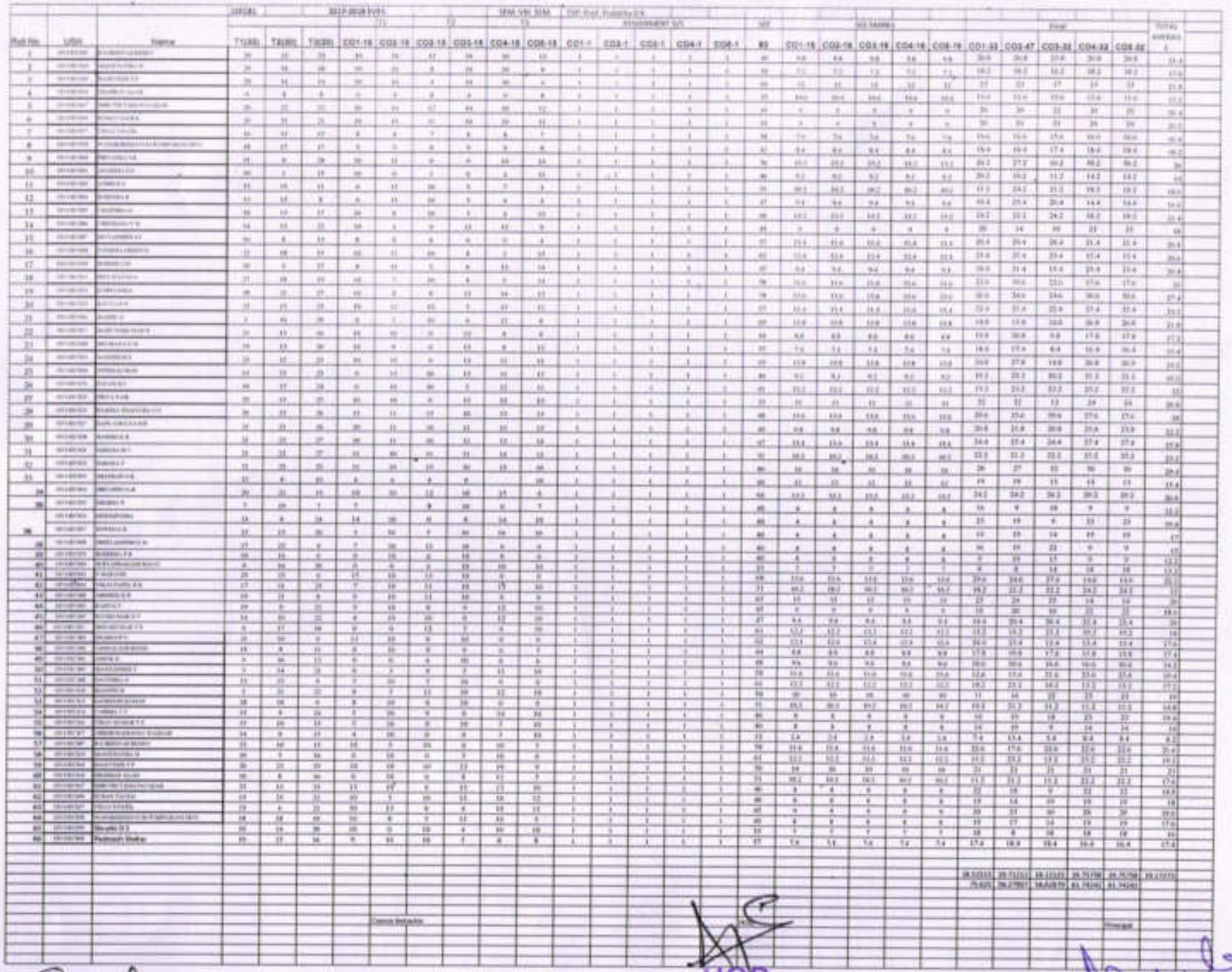
Principal
PRINCIPAL



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

DEPARTMENT OF ELECTRONICS & COMMUNICATION

SEM: VIII ACADEMIC YEAR:2017-2018

SUBJECT	DIGITAL SWITCHING SYSEMS	SUBJECT CODE	18EC82

COURSE OUTCOME

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

CO2. Determine the telecommunication traffic and its measurements.

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

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

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

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY										
FACULTY NAME	Prof.AIJAZ AHAMED SHARIEF										
BRANCH	ECE			ACADEMIC YEAR			2017-2018				
COURSE	B.E	SEMESTER		VIII		SECTION		A			
SUBJECT	DIGITAL SWITCHING SYSTEMS					SUBJECT CODE		18EC82			
CO & PO MAPPING											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	1										
CO2		1		2								
CO3	1				2							
CO4	2											
CO5	2	1										
AVERAGE	2	1.5		2	2							
											OVERALL MAPPING OF SUBJECT	1.87

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	78.66	2.35	0.78										
CO2	78.68		0.78		1.57								
CO3	71.85	0.71				1.43							
CO4	76.54	1.53											
CO5	73.47	1.46	0.73										
AVERAGE	75.84	1.52	0.76		1.57	1.43							
											FINAL ATTAINMENT LEVEL		1.32

COURSE INSTRUCTOR

HOD

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SIET, TUMKUR-5

PRINCIPAL

Roll No	USN	Name	T1(30)	T2(30)	T3(30)	CO1-10	CO2-10	CO3-10	CO4-10	CO5-10	CO1-1	CO2-1	CO3-1	CO4-1	CO5-1	80	CO1-10	CO2-10	CO3-10	CO4-10	CO5-10	CO1-50	CO2-50	CO3-50	CO4-50	CO5-50	TOTAL marks
1	1SV13EC017	B S SRINIVAS REDDY	20	23	23	10	10	9	10	10	1	1	1	1	1	69	9.8	9.8	9.8	9.8	9.8	49.0	49.0	49.0	49.0	49.0	245.0
2	1SV13EC024	MANJUNATHA M	20	19	18	10	10	8	10	10	9	1	1	1	1	1	70	7.7	7.7	7.7	7.7	7.7	38.5	38.5	38.5	38.5	38.5	192.5
3	1SV13EC036	RAGUVEER T P	20	19	19	10	10	9	10	10	9	1	1	1	1	1	69	12	12	12	12	12	60	60	60	60	60	300
4	1SV13EC043	SHAHBAN ALAM	0	8	8	0	0	8	0	0	8	1	1	1	1	1	53	10.6	10.6	10.6	10.6	10.6	53.0	53.0	53.0	53.0	53.0	265.0
5	1SV13EC047	SHRUTHI T KHATAVAKAR	20	22	22	10	10	12	10	10	12	1	1	1	1	1	69	9	9	9	9	9	45	45	45	45	45	225
6	1SV13EC049	SUMAN TAJ B K	20	21	21	10	10	12	10	10	12	1	1	1	1	1	69	9	9	9	9	9	45	45	45	45	45	225
7	1SV13EC057	VINAY S PATIL	10	15	15	8	8	7	8	8	7	1	1	1	1	1	78	7.6	7.6	7.6	7.6	7.6	38.0	38.0	38.0	38.0	38.0	190.0
8	1SV13EC058	WANGKHEIMAYUM PUSHPARANI D	18	17	17	9	9	8	9	9	8	1	1	1	1	1	42	8.4	8.4	8.4	8.4	8.4	42.0	42.0	42.0	42.0	42.0	210.0
9	1SV13EC060	PRIYANKA S K	21	11	28	10	11	0	0	14	14	1	1	1	1	1	76	15.2	15.2	15.2	15.2	15.2	76.0	76.0	76.0	76.0	76.0	380.0
10	1SV14EC001	ADARSHA D S	10	1	19	10	0	1	0	4	11	1	1	1	1	1	40	9.2	9.2	9.2	9.2	9.2	46.0	46.0	46.0	46.0	46.0	230.0
11	1SV14EC003	ATHRI K S	13	19	13	0	13	10	9	7	4	1	1	1	1	1	51	10.2	10.2	10.2	10.2	10.2	51.0	51.0	51.0	51.0	51.0	255.0
12	1SV14EC004	BYRESHA B	13	15	8	0	13	10	8	4	4	1	1	1	1	1	47	9.4	9.4	9.4	9.4	9.4	47.0	47.0	47.0	47.0	47.0	235.0
13	1SV14EC005	CHAITHRA G	18	15	17	10	8	10	9	4	13	1	1	1	1	1	66	13.2	13.2	13.2	13.2	13.2	66.0	66.0	66.0	66.0	66.0	330.0
14	1SV14EC006	CHETHANA T M	14	11	22	10	4	0	13	13	9	1	1	1	1	1	45	9	9	9	9	9	45	45	45	45	45	225
15	1SV14EC007	DIVYASHREE K V	16	8	15	8	9	9	0	9	4	1	1	1	1	1	57	11.4	11.4	11.4	11.4	11.4	57.0	57.0	57.0	57.0	57.0	285.0
16	1SV14EC008	FATHIMA FIRDOUS	22	18	15	10	12	10	8	3	13	1	1	1	1	1	62	12.4	12.4	12.4	12.4	12.4	62.0	62.0	62.0	62.0	62.0	310.0
17	1SV14EC010	HARISH G M	19	9	27	8	11	5	0	13	14	1	1	1	1	1	47	9.4	9.4	9.4	9.4	9.4	47.0	47.0	47.0	47.0	47.0	235.0
18	1SV14EC011	IRFA SULTANA	17	19	19	10	7	10	8	6	14	1	1	1	1	1	56	11.6	11.6	11.6	11.6	11.6	58.0	58.0	58.0	58.0	58.0	290.0
19	1SV14EC012	K PRIYANKA	18	11	27	10	8	9	13	14	13	1	1	1	1	1	76	15.6	15.6	15.6	15.6	15.6	78.0	78.0	78.0	78.0	78.0	390.0
20	1SV14EC013	KAVYA D N	23	15	25	10	13	10	8	13	12	1	1	1	1	1	67	13.4	13.4	13.4	13.4	13.4	67.0	67.0	67.0	67.0	67.0	335.0
21	1SV14EC016	MADHU K	1	10	20	0	1	10	6	12	8	1	1	1	1	1	69	13.8	13.8	13.8	13.8	13.8	69.0	69.0	69.0	69.0	69.0	345.0
22	1SV14EC017	MARUTHIKUMAR H	21	13	20	10	11	9	13	8	8	1	1	1	1	1	44	8.8	8.8	8.8	8.8	8.8	44.0	44.0	44.0	44.0	44.0	220.0
23	1SV14EC018	MEGHANA G M	19	13	20	10	9	9	13	8	12	1	1	1	1	1	37	7.4	7.4	7.4	7.4	7.4	37.0	37.0	37.0	37.0	37.0	185.0
24	1SV14EC019	NANDINI H S	23	13	23	10	13	9	13	12	13	1	1	1	1	1	69	13.8	13.8	13.8	13.8	13.8	69.0	69.0	69.0	69.0	69.0	345.0
25	1SV14EC020	NITISH KUMAR	13	23	23	9	13	10	13	13	13	1	1	1	1	1	46	9.2	9.2	9.2	9.2	9.2	46.0	46.0	46.0	46.0	46.0	230.0
26	1SV14EC021	PAVAN B S	21	13	24	9	10	10	8	13	13	1	1	1	1	1	61	12.2	12.2	12.2	12.2	12.2	61.0	61.0	61.0	61.0	61.0	305.0
27	1SV14EC023	PRIYA NAIK	20	13	25	10	10	9	13	12	13	1	1	1	1	1	55	11	11	11	11	11	55	55	55	55	55	275.0
28	1SV14EC024	RAHIMA THAIYUBA O N	26	25	26	15	11	15	10	15	15	1	1	1	1	1	68	13.6	13.6	13.6	13.6	13.6	68.0	68.0	68.0	68.0	68.0	340.0
29	1SV14EC027	RANI AMULYA H R	21	21	26	10	11	10	11	13	13	1	1	1	1	1	49	9.8	9.8	9.8	9.8	9.8	49.0	49.0	49.0	49.0	49.0	245.0
30	1SV14EC028	RASHMI K B	21	23	27	10	11	10	13	13	14	1	1	1	1	1	67	13.4	13.4	13.4	13.4	13.4	67.0	67.0	67.0	67.0	67.0	335.0
31	1SV14EC031	SAHANA M V	21	22	27	11	10	11	11	14	13	1	1	1	1	1	51	10.2	10.2	10.2	10.2	10.2	51.0	51.0	51.0	51.0	51.0	255.0
32	1SV14EC032	SAHANA T	21	25	23	11	10	15	10	13	10	1	1	1	1	1	80	16	16	16	16	16	80	80	80	80	80	400
33	1SV14EC033	SHANKAR G K	12	8	10	6	6	6	0		10	1	1	1	1	1	60	12	12	12	12	12	60	60	60	60	60	300
34	1SV14EC034	SHIVAPRIYA R	20	22	15	10	10	12	10	15	9	1	1	1	1	1	66	13.2	13.2	13.2	13.2	13.2	66.0	66.0	66.0	66.0	66.0	330.0
35	1SV14EC035	SHOBHA N	7	19	7	7		9	10	6	7	1	1	1	1	1	40	8	8	8	8	8	40	40	40	40	40	200
	1SV14EC036	SIDDIQPASHA	24	6	24	14	10	0	0	14	10	1	1	1	1	1	40	8	8	8	8	8	40	40	40	40	40	200
36	1SV14EC037	SOWMYA R	15	15	20	5	10	5	10	10	10	1	1	1	1	1	40	8	8	8	8	8	40	40	40	40	40	200
37	1SV14EC038	SREELAKSHMI K M	17	23	6	7	10	13	10	8	6	1	1	1	1	1	40	8	8	8	8	8	40	40	40	40	40	200
38	1SV14EC039	SUREKHA P R	10	16	0	0	10	6	10	6	6	1	1	1	1	1	40	8	8	8	8	8	40	40	40	40	40	200
39	1SV14EC040	SURYAPRAKASH RAO G	9	16	20	0	0	6	10	10	10	1	1	1	1	1	35	7	7	7	7	7	35	35	35	35	35	175
40	1SV14EC041	V HARATHI	25	25	0	15	10	13	10	0	0	1	1	1	1	1	68	13.6	13.6	13.6	13.6	13.6	68.0	68.0	68.0	68.0	68.0	340.0
41	1SV14EC042	VIKAS PATEL R K	17	21	23	7	10	12	10	13	10	1	1	1	1	1	51	10.2	10.2	10.2	10.2	10.2	51.0	51.0	51.0	51.0	51.0	255.0
42	1SV14EC044	ABHISHEK K B	19	21	0	9	10	11	10	0	0	1	1	1	1	1	63	13	13	13	13	13	63	63	63	63	63	315
43	1SV14EC046	RAMYA T	19	0	22	9	10	0	0	12	10	1	1	1	1	1	43	9	9	9	9	9	43	43	43	43	43	215
44	1SV14EC047	RAVIKUMAR D T	14	10	22	4	10	10	0	12	10	1	1	1	1	1	47	9.4	9.4	9.4	9.4	9.4	47.0	47.0	47.0	47.0	47.0	235.0
45	1SV14EC407	SHIVAKUMAR T N	0	17	16	0	0	12	5	6	10	1	1	1	1	1	61	12.2	12.2	12.2	12.2	12.2	61.0	61.0	61.0	61.0	61.0	305.0
46	1SV14EC408	SWAROOP U	21	10	0	11	10	0	10	0	0	1	1	1	1	1	62	12.4	12.4	12.4	12.4	12.4	62.0	62.0	62.0	62.0	62.0	310.0
47	1SV15EC400	ARSHAD KHURESHI	18	8	11	8	10	8	0	0	9	1	1	1	1	1	44	8.8	8.8	8.8	8.8	8.8	44.0	44.0	44.0	44.0	44.0	220.0
48	1SV15EC401	ASHOK K	0	16	12	0	0	6	10	0	0	1	1	1	1	1	48	9.6	9.6	9.6	9.6	9.6	48.0	48.0	48.0	48.0	48.0	240.0
49	1SV15EC402	MANJUSHREE T	1	14	21	0	1	9	5	11	10	1	1	1	1	1	58	11.6	11.6	11.6	11.6	11.6	58.0	58.0	58.0	58.0	58.0	290.0
50	1SV15EC403	PAVITHRA N	13	13	0	5	10	5	10	0	0	1	1	1	1	1	61	12.2	12.2	12.2	12.2	12.2	61.0	61.0	61.0	61.0	61.0	305.0
51	1SV15EC404	RANJITH M	9	21	23	0	9	11	10	12	10	1	1	1	1	1	50	10	10	10	10	10	50	50	50	50	50	250.0
52	1SV15EC410	SATHEESH KUMAR	18	10	0	8	10	0	10	0	0	1	1	1	1	1	51	10.2	10.2	10.2	10.2	10.2	51.0	51.0	51.0	51.0	51.0	255.0
53	1SV15EC413	VARSHA T V	13	9	24	5	10	9	0	14	10	1	1	1	1	1	40	8	8	8	8	8	40	40	40	40	40	200
54	1SV15EC414	VINAY KUMAR T S	15	10	15	5	10	0	10	9	10	1	1	1	1	1	40	8	8	8	8	8	40	40	40	40	40	200
55	1SV15EC417	VIRESH RAMANNA WAGGAR	14	0	15	4	10	0	0	8	10	1	1	1	1	1	12	2.4	2.4	2.4	2.4	2.4	12	12	12	12	12	60
56	1SV13EC007	B S SRINIVAS REDDY	13	10	15	10	5	10	0	10	9	1	1	1	1	1	58	11.6	11.6	11.6	11.6	11.6	58.0	58.0	58.0	58.0	58.0	290.0
57	1SV13EC024	MANJUNATHA M	10	5	16	0	10	0	5	10	6	1	1	1	1	1	61	12.2	12.2	12.2	12.2	12.2	61.0	61.0	61.0	61.0	61.0	305.0
58	1SV13EC036	RAGUVEER T P	20	23	19	10	10	10	13	10	9	1	1	1	1	1	50	10	10	10	10	10	50	50	50	50	50	250.0
59	1SV13EC043	SHAHBAN ALAM	10	8	16	0	10	0	8	11	8	1	1	1	1	1	51	10.2	10.2	10.2	10.2	10.2	51.0	51.0	51.0	51.0	51.0	255.0
60	1SV13EC047	SHRUTHI T KHATAVAKAR	23	13	23	13	10	0	13	13	10	1	1	1	1	1	40	8	8	8	8	8	40	40	40	40	40	200
61	1SV13EC049	SUMAN TAJ B K	15	23	22	10	5	10	13	10	12	1	1	1	1	1	40	8	8	8	8	8	40	40	40	40	40	200
62	1SV13EC057	VINAY S PATIL	23	4	21	10	13	0	4	10	11	1	1	1	1	1	65	9	9	9	9	9	45	45	45	45	45	225
63	1SV13EC058	WANGKHEIMAYUM PUSHPARANI D	18	18	19	10	8	5	13	10	9	1	1	1	1	1	40	8	8	8	8	8	40	40	40	40	40	200
64	1SV13EC059	Shruthi D S	10	14	20	10	0	10	4	10	10	1	1	1	1	1	33	7	7	7	7	7	35	35	35	35	35	175
65	1SV13EC060	Padmesh Shekar	19	15	16	9	10	10	9	8	8	1	1	1	1	1	37	7.4	7.4	7.4	7.4	7.4	37.0	37.0	37.0	37.0	37.0	185.0
								HOD														38.5152	19.7121	18.1212	19.7576	19.7576	115.8237
																						78.66	78.68	71.85	76.54	73.47	

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Department of Electronics & Communication Engineering

Course Outcomes and CO-PO- Articulation Matrix

2017 Scheme
ACADEMIC YEAR 2017-18

Semester-I

Subject: Basic Electronics Prof. Latha K	Subject Code: 15ELN15

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	62%	1.24		0.62									0.62
CO2	63%	1.89	1.89	1.26			1.26						0.63
CO3	60%	1.8	1.8	1.2			1.2						0.60
CO4	53 %	1.59	1.59	1.06			1.06						0.53
CO5	50%	1.5											
AVERAGE		1.6	1.05	.82			0.70						0.47
TOTAL ATTAINMENT													0.928

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Academic year:2017-18				SEM	2				43				Subject		Basic Electronics				Subject Code	17ELN18			Faculty:Prof. Latha K								
SEM:II	IA TEST 1(30M)			IA TEST 2(30M)			IA TEST 3(30M)			ASSIGNEMENT (10 M)					SEE MARKS(60M)					Total Cos ATTAINMENT					% of individual CO					SEE	
USN	CO1	CO1	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		
15V15ME050	2	1	3	6	3	9	15	0	15	2	2	2	2	2	1.6	1.6	1.6	1.6	1.6	6.6	9.6	6.6	18.6	3.6	15	33.1	22.8	64.1	12.4	8	1.6
15V17ME001	12	10	22	14	14	28	1	1	2	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	28.2	20.2	20.2	7.2	7.2	64.1	69.7	65.7	24.8	24.8	21	4.2
15V17ME002	10	12	22	10	7	17	1	1	2	2	2	2	2	2	0	0	0	0	0	24	12	9	3	3	54.5	41.4	31	10.3	10.3	0	0
15V17ME003	11	10	21	10	11	21	12	1	13	2	2	2	2	2	4.8	4.8	4.8	4.8	4.8	27.8	16.8	17.8	18.8	7.8	63.2	57.9	61.4	64.8	26.9	24	4.8
15V17ME004	10	15	25	10	9	19	1	12	14	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	31.2	16.2	15.2	7.2	18.2	70.9	55.9	52.4	24.8	62.8	21	4.2
15V17ME005	2	5	7	5	4	9	10	1	11	2	2	2	2	2	0.6	0.6	0.6	0.6	0.6	9.6	7.6	6.6	12.6	3.6	21.8	26.2	22.8	43.4	12.4	3	0.6
15V17ME006	10	11	21	15	15	30	1	10	11	2	2	2	2	2	4.8	4.8	4.8	4.8	4.8	27.8	21.8	21.8	7.8	16.8	63.2	75.2	75.2	26.9	57.9	24	4.8
15V17ME007	14	15	29	15	15	30	15	15	30	2	2	2	2	2	8.4	8.4	8.4	8.4	8.4	39.4	25.4	25.4	25.4	25.4	89.5	87.6	87.6	87.6	87.6	42	8.4
15V17ME008	10	12	22	15	2	17	5	2	7	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	28.2	21.2	8.2	11.2	8.2	64.1	73.1	28.3	38.6	28.3	21	4.2
15V17ME010	13	10	23	5	6	11	0	0	0	2	2	2	2	2	4.8	4.8	4.8	4.8	4.8	29.8	11.8	12.8	6.8	6.8	67.7	40.7	44.1	23.4	23.4	24	4.8
15V17ME011	10	8	18	15	8	23	3	2	5	2	2	2	2	2	5.4	5.4	5.4	5.4	5.4	25.4	22.4	15.4	10.4	9.4	57.7	77.2	53.1	35.9	32.4	27	5.4
15V17ME012	6	6	12	4	5	9	1	2	3	2	2	2	2	2	0.4	0.4	0.4	0.4	0.4	14.4	6.4	7.4	3.4	4.4	32.7	22.1	25.5	11.7	15.2	2	0.4
15V17ME013	15	15	30	15	15	30	15	15	30	2	2	2	2	2	7.6	7.6	7.6	7.6	7.6	39.6	24.6	24.6	24.6	24.6	90	84.8	84.8	84.8	84.8	38	7.6
15V17ME014	11	10	21	10	11	21	5	5	10	2	2	2	2	2	4.8	4.8	4.8	4.8	4.8	27.8	16.8	17.8	11.8	11.8	63.2	57.9	61.4	40.7	40.7	24	4.8
15V17ME015	14	14	28	15	12	27	10	13	23	2	2	2	2	2	6.2	6.2	6.2	6.2	6.2	36.2	23.2	20.2	18.2	21.2	82.3	80	69.7	62.8	73.1	31	6.2
15V17EC001	4	10	14	13	13	26	4	10	14	2	2	2	2	2	6.4	6.4	6.4	6.4	6.4	22.4	21.4	21.4	12.4	18.4	50.9	73.8	73.8	42.8	63.4	32	6.4
15V17EC002	8	6	14	12	12	24	3	10	13	2	2	2	2	2	2	2	2	2	2	18	16	* 16	7	14	40.9	55.2	55.2	24.1	48.3	10	2
15V17EC003	13	13	26	15	15	30	15	14	29	2	2	2	2	2	7.8	7.8	7.8	7.8	7.8	35.8	24.8	24.8	24.8	23.8	81.4	85.5	85.5	85.5	82.1	39	7.8
15V17EC004	13	13	26	15	5	20	14	14	28	2	2	2	2	2	5.6	5.6	5.6	5.6	5.6	33.6	22.6	12.6	21.6	21.6	76.4	77.9	43.4	74.5	74.5	28	5.6
15V17EC005	10	15	25	10	12	21	3	10	13	2	2	2	2	2	5.2	5.2	5.2	5.2	5.2	32.2	17.2	19.2	10.2	17.2	73.2	59.3	66.2	35.2	59.3	26	5.2
15V17EC006	15	15	30	15	15	30	15	15	30	2	2	2	2	2	10.6	10.6	10.6	10.6	10.6	42.6	27.6	27.6	27.6	27.6	96.8	95.2	95.2	95.2	95.2	53	10.6
15V17EC007	15	15	30	15	15	30	14	15	29	2	2	2	2	2	8	8	8	8	8	40	25	25	24	25	90.9	86.2	86.2	82.8	86.2	40	8
15V17EC008	5	10	15	15	2	17	1	10	11	2	2	2	2	2	3.6	3.6	3.6	3.6	3.6	20.6	20.6	7.6	6.6	15.6	46.8	71	26.2	22.8	53.8	18	3.6
15V17EC009	15	15	30	15	15	30	15	15	30	2	2	2	2	2	10.2	10.2	10.2	10.2	10.2	42.2	27.2	27.2	27.2	27.2	95.9	93.8	93.8	93.8	93.8	51	10.2
15V17EC011	6	10	16	2	15	17	1	3	4	2	2	2	2	2	1.8	1.8	1.8	1.8	1.8	19.8	5.8	18.8	4.8	6.8	45	20	64.8	16.6	23.4	9	1.8
15V17EC012	6	3	9	10	4	14	0	8	8	2	2	2	3	2	4.6	4.6	4.6	4.6	4.6	15.6	16.6	10.6	6.6	14.6	35.5	57.2	36.6	22.8	50.3	23	4.6
15V17EC013	13	13	26	14	14	28	15	15	30	2	2	2	2	2	6	6	6	6	6	34	22	22	23	23	77.3	75.9	75.9	79.3	79.3	30	6
15V17EC014	14	14	28	15	15	30	12	13	25	2	2	2	2	2	5.2	5.2	5.2	5.2	5.2	35.2	22.2	22.2	19.2	20.2	80	76.6	76.6	66.2	69.7	26	5.2
15V17EC015	0	0	0	0	0	0	15	12	27	2	2	2	2	2	1.8	1.8	1.8	1.8	1.8	3.8	3.8	3.8	18.8	15.8	8.64	13.1	13.1	64.8	54.5	9	1.8
15V17EC016	5	5	10	13	13	26	1	10	11	2	2	2	2	2	2.4	2.4	2.4	2.4	2.4	14.4	17.4	17.4	5.4	14.4	32.7	60	60	18.6	49.7	12	2.4
15V17EC017	3	0	3	10	6	16	4	4	8	2	2	2	2	2	3.4	3.4	3.4	3.4	3.4	8.4	15.4	11.4	9.4	9.4	19.1	53.1	39.3	32.4	32.4	17	3.4
15V17EE001	13	10	23	15	2	17	5	2	7	2	2	2	2	2	2	2	2	2	2	27	19	6	9	6	61.4	65.5	20.7	31	20.7	10	2
15V17EE002	14	10	24	3	3	6	4	10	14	2	2	2	2	2	7	7	7	7	7	33	12	12	13	19	75	41.4	41.4	44.8	65.5	35	7
15V17EE003	6	6	12	5	3	8	3	10	13	2	2	2	2	2	1.6	1.6	1.6	1.6	1.6	15.6	8.6	6.6	6.6	13.6	35.5	29.7	22.8	22.8	46.9	8	1.6
15V17EE004	14	15	29	15	15	30	15	15	30	2	2	2	2	2	7.8	7.8	7.8	7.8	7.8	38.8	24.8	24.8	24.8	24.8	88.2	85.5	85.5	85.5	85.5	39	7.8
15V17EE005	15	15	30	15	15	30	15	15	30	2	2	2	2	2	10.8	10.8	10.8	10.8	10.8	42.8	27.8	27.8	27.8	27.8	97.3	95.9	95.9	95.9	95.9	54	10.8

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15V17EE006	10	12	22	15	11	26	3	10	13	2	2	2	2	2	4.6	4.6	4.6	4.6	4.6	28.6	21.6	17.6	9.6	16.6	65	74.5	60.7	33.1	57.2	23	4.6
15V17EE007	4	10	14	10	11	21	0	3	3	2	2	2	2	2	2.4	2.4	2.4	2.4	2.4	18.4	14.4	15.4	4.4	7.4	41.8	49.7	53.1	15.2	25.5	12	2.4
15V17EE008	10	2	12	10	6	16	10	1	11	2	2	2	2	2	2.4	2.4	2.4	2.4	2.4	16.4	14.4	10.4	14.4	5.4	37.3	49.7	35.9	49.7	18.6	12	2.4
15V17EE009	15	10	25	15	8	23	10	10	20	2	2	2	2	2	2.4	2.4	2.4	2.4	2.4	29.4	19.4	12.4	14.4	14.4	66.8	66.9	42.8	49.7	49.7	12	2.4
15V17EE010	14	13	27	14	14	28	15	15	30	2	2	2	2	2	8.6	8.6	8.6	8.6	8.6	37.6	24.6	24.6	25.6	25.6	85.5	84.8	84.8	88.3	88.3	43	8.6
15V17EE011	9	10	19	12	12	24	11	11	22	2	2	3	2	2	4.2	4.2	4.2	4.2	4.2	25.2	18.2	18.2	17.2	17.2	57.3	62.8	62.8	59.3	59.3	21	4.2
15V17EE012	14	13	27	10	7	17	0	9	9	2	2	2	2	2	4.6	4.6	4.6	4.6	4.6	33.6	26.6	13.6	6.6	15.6	76.4	57.2	46.9	22.8	53.8	23	4.6
																									23.6	24.1	21.7	18.8	20.3		

62	63	60	53	50

Sir

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DEPARTMENT OF ECE

CO-PO ATTAINMENT

ACADEMIC YEAR

2017-18

EVEN SEM

FIRST YEAR

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Department of Electronics & Communication Engineering

Course Outcomes and CO-PO- Articulation Matrix

2017 Scheme
ACADEMIC YEAR 2017-18

Semester-II

Subject: Basic Electronics Prof. Latha K	Subject Code: 17ELN25

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	75%	1.5		0.75									0.75
CO2	71%	2.13	2.13	1.42			1.42						0.71
CO3	74%	2.22	2.22	1.48			1.48						0.74
CO4	73 %	2.19	2.19	1.46			1.46						0.73
CO5	76%	2.28											
AVERAGE		2.06	2.18	1.27			1.45						0.73
TOTAL ATTAINMENT													1.538

Latha K
Faculty

HOD

HOD
Dept of E&C
SIET, Tumkur-5

Principal

PRINCIPAL
SIET, TUMAKURU

Academic year:2017-18 | SEM: II | 69 | Subject: Basic Electronics | Subject Code: 17ELN25 | FACULTY:Prof. Latha K

SEM:II | IA TEST 1(30M) | IA TEST 2(30M) | IA TEST 3(30M) | ASSIGNEMENT(10 M) | SEE MARKS(60M) | Total Cos ATTAINMENT | % of maximum CO

USN	CO1	CO1	TOTAL	CO2	CO3	TOTAL	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	CO1>=3	CO2	CO3	CO4	CO5	CO1>=4	CO2>=2	CO3>=2	CO4>=2	CO5>=2	CO1	CO2	CO3	CO4
1SV17CS001	10	12	22	8	9	17	10	9	19	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	28.2	14.2	15.2	18.2	19.2	84.091	48.966	52.414	55.862
1SV17CS002	5	10	15	6	7	13	7	8	15	2	2	2	2	2	6.4	6.4	6.4	6.4	6.4	23.4	14.4	15.4	19.4	18.4	53.182	49.655	53.103	53.103
1SV17CS004	14	13	27	15	15	30	13	15	30	2	2	2	2	2	7.8	7.8	7.8	7.8	7.8	37.8	24.8	24.8	24.8	24.8	85.909	85.517	85.517	85.517
1SV17CS005	8	10	18	11	12	23	10	13	23	2	2	2	2	2	8.2	8.2	8.2	8.2	8.2	37.2	23.2	23.2	20.2	23.2	84.545	86.897	86.897	69.655
1SV17CS006	13	14	27	14	14	28	15	12	27	2	2	2	2	2	2.8	2.8	2.8	2.8	2.8	22.8	13.8	16.8	14.8	5.8	51.818	54.483	57.931	51.034
1SV17CS007	4	4	8	1	2	3	10	11	21	2	2	2	2	2	7.6	7.6	7.6	7.6	7.6	38.6	23.6	23.6	24.6	21.6	87.727	81.379	81.379	84.828
1SV17CS008	10	13	23	9	9	18	3	2	5	2	2	2	2	2	3.2	3.2	3.2	3.2	3.2	13.2	8.2	7.2	15.2	18.2	30	31.379	24.828	52.414
1SV17CS009	9	10	19	12	12	24	7	7	14	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	29.2	15.2	15.2	9.2	8.2	66.364	52.414	52.414	31.724
1SV17CS010	14	14	28	15	15	30	15	8	23	2	2	2	2	2	5.2	5.2	5.2	5.2	5.2	26.2	19.2	19.2	14.2	14.2	59.545	66.207	66.207	48.966
1SV17CS011	8	10	18	9	10	19	5	3	8	2	2	2	2	2	7.8	7.8	7.8	7.8	7.8	37.8	24.8	24.8	24.8	17.8	85.909	85.517	85.517	85.517
1SV17CS012	10	12	22	15	14	29	12	15	27	2	2	2	2	2	1.6	1.6	1.6	1.6	1.6	21.6	12.6	13.6	8.6	6.6	49.091	43.448	46.897	29.655
1SV17CS013	12	15	27	14	15	29	10	11	21	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	29.2	21.2	20.2	18.2	21.2	64.091	73.103	69.655	62.759
1SV17CS014	14	10	24	14	13	27	10	1	11	2	2	2	2	2	7.8	7.8	7.8	7.8	7.8	36.8	23.8	24.8	19.8	20.8	83.636	82.069	85.517	68.276
1SV17CS015	3	6	9	7	7	14	5	4	9	2	2	2	2	2	6.6	6.6	6.6	6.6	6.6	32.6	22.6	21.6	18.6	9.6	74.091	77.931	74.483	64.138
1SV17CS016	13	10	23	14	15	29	12	15	27	2	2	2	2	2	1.6	1.6	1.6	1.6	1.6	12.6	10.6	10.6	8.6	7.6	28.636	36.552	36.552	29.655
1SV17CS017	14	14	28	14	14	28	10	3	13	2	2	2	2	2	8	8	8	8	8	35	24	25	22	25	79.545	82.759	86.207	75.862
1SV17CS018	2	0	2	8	7	15	10	1	11	2	2	2	2	2	4.6	4.6	4.6	4.6	4.6	34.6	20.6	20.6	10.6	9.6	78.636	71.034	71.034	57.241
1SV17CS019	10	10	20	13	13	26	7	8	15	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	8.2	14.2	13.2	16.2	7.2	18.636	48.966	45.517	55.862
1SV17CS020	10	13	23	12	13	25	10	8	18	2	2	2	2	2	4.4	4.4	4.4	4.4	4.4	26.4	19.4	19.4	13.4	14.4	60	66.897	66.897	46.207
1SV17CS021	13	13	26	15	14	29	13	13	26	2	2	2	2	2	5.2	5.2	5.2	5.2	5.2	30.2	19.2	20.2	17.2	15.2	68.636	66.207	68.655	59.31
1SV17CS023	15	15	30	15	15	30	14	14	28	2	2	2	2	2	8	8	8	8	8	38	25	24	23	23	81.818	86.207	82.759	79.31
1SV17CS024	7	10	17	4	5	9	10	2	12	2	2	2	2	2	6	6	6	6	6	38	23	25	22	22	86.364	79.31	79.31	75.862
1SV17CS025	15	15	30	15	15	30	15	15	30	2	2	2	2	2	3.4	3.4	3.4	3.4	3.4	22.4	9.4	10.4	15.4	7.4	50.909	32.414	35.862	55.103
1SV17CS026	11	10	21	4	5	9	4	4	8	2	2	2	2	2	11.4	11.4	11.4	11.4	11.4	43.4	28.4	28.4	28.4	28.4	98.636	97.931	97.931	97.931
1SV17CS027	10	4	14	7	7	14	0	0	0	2	2	2	2	2	4.6	4.6	4.6	4.6	4.6	27.6	10.6	11.6	10.6	10.6	62.727	36.552	40	36.552
1SV17CS028	11	10	21	10	10	20	11	11	22	2	2	2	2	2	3	3	3	3	3	19	12	12	5	5	43.182	41.379	41.379	17.241
1SV17CS029	7	7	14	8	8	16	14	4	18	2	2	2	2	2	3	3	3	3	3	26	15	15	16	16	59.091	51.724	51.724	55.172
1SV17CS030	0	0	0	12	12	24	13	12	25	2	2	2	2	2	7.6	7.6	7.6	7.6	7.6	23.6	17.6	17.6	23.6	13.6	53.636	60.69	60.69	81.379
1SV17CS031	15	14	29	14	15	29	10	13	23	2	2	2	2	2	6	6	6	6	6	8	20	20	21	20	18.182	68.966	68.966	72.414
1SV17CS032	14	15	29	12	12	24	7	8	15	2	2	2	2	2	9.2	9.2	9.2	9.2	9.2	40.2	25.2	26.2	21.2	24.2	91.364	86.897	90.345	78.108
1SV17CS033	13	14	27	14	14	28	4	4	8	2	2	2	2	2	6.4	6.4	6.4	6.4	6.4	37.4	20.4	20.4	15.4	16.4	85	70.345	70.345	53.103
1SV17CS034	0	0	0	14	13	27	5	3	8	2	2	2	2	2	5	5	5	5	5	34	21	21	11	11	77.273	72.414	72.414	37.931
1SV17CS035	13	13	26	9	9	18	7	7	14	2	2	2	2	2	1.2	1.2	1.2	1.2	1.2	9.2	17.2	16.2	8.2	6.2	7.2727	58.31	55.862	28.276
1SV17CS036	10	5	15	4	4	8	2	0	2	2	2	2	2	2	4.6	4.6	4.6	4.6	4.6	32.6	15.6	15.6	13.6	13.6	74.091	53.793	53.793	46.897
1SV17CS037	9	9	18	7	8	15	15	2	17	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	21.2	10.2	10.2	8.2	6.2	48.182	35.172	35.172	28.276
1SV17CS038	15	14	29	13	13	26	15	4	19	2	2	2	2	2	4.8	4.8	4.8	4.8	4.8	24.8	13.8	14.8	21.8	8.8	56.364	47.586	51.034	75.172
1SV17CS039	5	6	11	11	10	21	5	4	9	2	2	2	2	2	7.2	7.2	7.2	7.2	7.2	38.2	22.2	22.2	24.2	13.2	86.818	76.552	76.552	83.448
1SV17CS040	14	13	27	12	12	24	15	8	23	2	2	2	2	2	5	5	5	5	5	18	18	17	13	11	40.909	62.069	58.621	41.379
1SV17CS041	8	8	16	9	9	18	15	0	15	2	2	2	2	2	5.2	5.2	5.2	5.2	5.2	34.2	19.2	19.2	22.2	13.2	77.727	66.207	66.207	76.552
1SV17CS042	3	10	13	6	6	12	10	10	20	2	2	2	2	2	5.4	5.4	5.4	5.4	5.4	23.4	16.4	16.4	22.4	7.4	59.182	56.552	56.552	77.241
1SV17CV001	14	14	28	11	11	22	15	3	18	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	19.2	12.2	12.2	16.2	16.2	43.636	42.069	42.069	55.862
1SV17CV002	14	10	24	9	10	19	3	3	6	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	34.2	17.2	17.2	21.2	9.2	77.727	59.31	58.31	73.103
1SV17CV003	15	0	15	6	6	12	0	0	0	2	2	2	2	2	1	1	1	1	1	27	12	13	6	6	61.364	41.379	44.828	20.69
1SV17CV004	9	10	19	12	12	24	3	3	6	2	2	2	2	2	0.4	0.4	0.4	0.4	0.4	17.4	8.4	8.4	2.4	2.4	39.545	28.966	28.966	8.2759
1SV17CV005	4	6	10	12	11	23	10	1	11	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	25.2	18.2	18.2	9.2	9.2	57.273	62.759	62.759	31.724
1SV17CV006	11	10	21	13	13	26	10	10	20	2	2	2	2	2	5.2	5.2	5.2	5.2	5.2	17.2	19.2	18.2	17.2	8.2	39.091	66.207	62.759	59.31
1SV17CV007	10	3	13	10	10	20	1	1	2	2	2	2	2	2	4.6	4.6	4.6	4.6	4.6	27.6	19.6	19.6	16.6	16.6	62.727	67.586	67.586	57.241
1SV17CV008	9	10	19	11	11	22	2	1	3	2	2	2	2	2	2.8	2.8	2.8	2.8	2.8	17.8	14.8	14.8	5.8	5.8	40.455	51.034	51.034	20
1SV17CV009	9	10	19	4	5	9	1	1	2	2	2	2	2	2	4.6	4.6	4.6	4.6	4.6	25.6	17.6	17.6	8.6	7.6	58.182	60.69	60.69	29.655
1SV17CV010	10	15	25	9	8	17	15	1	16	2	2	2	2	2	3	3	3	3	3	24	9	10	6	6	54.545	31.034	34.483	20.69
1SV17CV011	15	11	26	13	13	26	5	15	20	2	2	2	2	2	3	3	3	3	3	30	14	13	20	6	68.182	48.276	44.828	68.966
1SV17CV012	9	10	19	10	11	21	10	1	11	2	2	2	2	2	7.2	7.2	7.2	7.2	7.2	35.2	22.2	22.2	14.2	24.2	80	76.552	76.552	48.966
1SV17CV013	10	9	19	10	10	20	3	3	6	2	2	2	2	2	4.6	4.6	4.6	4.6	4.6	25.6	16.6	17.6	16.6	7.6	58.182	57.241	60.69	57.241
1SV17CV014	15	10	25	14	13	27	15	2	17	2	2	2	2	2	2.8	2.8	2.8	2.8	2.8	23.8	14.8	14.8	7.8	7.8	54.091	51.034	51.034	26.897
1SV17CV015	10	10	20	9	10	19	0	15	15	2	2	2	2	2	6.8	6.8	6.8	6.8	6.8	33.8	22.8	21.8	23.8	10.8	76.818	78.621	75.172	82.069
1SV17CV016	13	10	23	14	14	28	15	15	30	2	2	2	2	2	2.8	2.8	2.8	2.8	2.8	24.8	13.8	14.8	4.8	19.8	56.364	47.586	51.034	16.552
1SV17CV017	10	14	24	12	12	24	7	8	15	2	2	2	3	2	8.4	8.4	8.4	8.4	8.4	33.4	24.4	24.4	25.4	25.4	75.909	84.138	84.138	87.586
1SV17CV018	15	15	30	15	14	29	15	15	30	2	2	2	2	2	4.8	4.8	4.8	4.8	4.8	30.8	18.8	18.8	13.8	14.8	70	64.828	64.828	47.586
1SV17CV019	15	15	30	15	15	30	15	15	30	2	2	2	2	2	9	9	9	9	9	41	26	25	26	26	93.182	89.655	86.207	89.655
1SV17CV020	2	10	12	13	14	27	1	2	3	2	2	2	2	2	1	1	1	1	1	15	16	17	4	5	34.091	55.172	58.621	13.793
					13	25	2	1	3	2	2	2	2	2	2	2	2	2	2	18	17	16	6	5	40.909	58.621	55.172	20.69

19V17CV022	8	10	28	12	12	24	19	19	30	3	2	2	2	2	6.4	6.4	6.4	6.4	6.4	21.4	20.4	20.4	23.4	23.4	46.658	70.345	70.345	80.88
19V17CV023	10	9	19	11	12	15	12	12	24	2	2	2	2	2	5.2	5.2	5.2	5.2	5.2	28.2	18.2	13.2	18.2	18.2	33.945	81.739	56.207	56.207
19V17CV024	15	10	23	15	14	20	15	15	30	2	2	2	2	2	8.2	8.2	8.2	8.1	8.2	33.2	23.2	24.2	25.2	25.2	80	85.897	83.448	86.897
19V17IS001	18	11	28	11	11	22	0	3	2	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	32.2	17.2	17.2	6.2	8.2	75.182	59.31	59.51	21.379
19V17IS002	13	14	29	13	13	30	13	13	30	2	2	2	2	2	8.8	8.8	8.8	8.8	8.8	39.8	25.8	25.8	25.8	25.8	90.455	88.966	88.966	89.966
19V17IS003	7	8	17	8	8	17	3	2	6	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	21.2	14.2	13.2	11.2	7.2	48.182	48.966	52.414	38.621
19V17IS004	12	12	24	8	7	15	0	1	1	2	2	2	2	2	3.8	3.8	3.8	3.8	3.8	29.8	13.8	12.8	5.8	6.8	67.727	47.586	44.138	20
																									58.693	58.448	58.833	55.861
																									75	71	74	71

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PRINCIPAL

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