COs & POs

2019-20

ODD SEMESTER

SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

SUBJECT	ELECTRIC CIRCUIT ANALYSIS	SUBJECT CODE	18EE32

COURSE OUTCOME

CO1: Understand the basic concepts, basic laws and methods of analysis of DC and AC networks and reduce the complexity of network using source shifting, source transformation and network reduction using transformations

CO2: Solve complex electric circuits using network theorems

CO3: Discuss resonance in series and parallel circuits and also the importance of initial conditions and their evaluation

CO4: Synthesize typical waveforms using Laplace transformation

CO5: Solve unbalanced three phase systems and also evaluate the performance of two port networks.

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.

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Head of the Department
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PRINCIPAL
SIET, TUMAKURU.

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	Mr. G. H. RAVIKUMAR											
BRANCH	EEE			ACADEMIC YEAR			2019-20					
COURSE	B.E	SEMESTER	VIII	SECTION	EEE							
SUBJECT	ELECTRIC CIRCUIT ANALYSIS			SUBJECT CODE	18EE32							

CO & PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	3	2	-	-	-	-	-	-	-	-	2
CO2	2	3	2	-	-	-	-	-	-	-	-	2
CO3	1	3	1	-	-	-	-	-	-	-	-	1
CO4	3	3	3	-	-	-	-	-	-	-	-	2
CO5	2	3	2	-	-	-	-	-	-	-	-	2
AVERAGE	2	3	2	-	-	-	-	-	-	-	-	2
											OVERALL MAPPING OF SUBJECT	2.25

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	61.10	1.22	1.83	1.22	-	-	-	-	-	-	-	-	1.22
CO2	44.47	0.889	1.33	0.899	-	-	-	-	-	-	-	-	0.899
CO3	53.00	0.53	1.59	0.53	-	-	-	-	-	-	-	-	0.53
CO4	53.01	1.59	1.59	1.59	-	-	-	-	-	-	-	-	1.06
CO5	47.53	0.95	1.42	0.95	-	-	-	-	-	-	-	-	0.95
AVERAGE		1.035	1.552	1.037	-	-	-	-	-	-	-	-	0.931
												FINAL ATTAINMENT LEVEL	1.138

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Academic year	2019-20			SEM	III		Total strength			18		Subject		LECTRIC CIRCUIT ANALYSI						18EE824									
SEM:III	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 To
USN	CO1	CO2	TOTAL	CO2	CO3	TOTAL	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	CO1=29	CO2=44	CO3=29	CO4=29	CO5=29	CO1	CO2	CO3	CO4	CO5	60M
1SV17EE006	15	15	30	9	9	18	9	10	19	2	2	2	2	2	5.67	5.67	5.67	5.67	5.67	22.67	26.00	16.67	16.67	17.67	78.16	59.09	57.47	57.47	60.92	34.00
1SV17EE012	10	6	16	2	2	4	7	6	13	2	2	2	2	2	5.33	5.33	5.33	5.33	5.33	17.33	15.33	9.33	14.33	14.33	59.77	34.85	32.18	32.18	49.43	32.00
1SV18EE002	15	6	21	7	12	19	9	9	18	2	2	2	2	2	6.00	6.00	6.00	6.00	6.00	23.00	21.00	20.00	17.00	17.00	79.31	47.73	68.97	68.97	58.62	36.00
1SV18EE003	15	10	25	5	14	19	9	10	19	2	2	2	2	2	7.00	7.00	7.00	7.00	7.00	24.00	24.00	23.00	18.00	18.00	82.76	54.55	79.31	79.31	62.07	42.00
1SV18EE004	10	3	13	8	5	13	5	5	10	2	2	2	2	2	5.50	5.50	5.50	5.50	5.50	17.50	18.50	12.50	12.50	12.50	60.34	42.05	43.10	43.10	43.10	33.00
1SV18EE005	4	2	6	5	14	19	5	5	10	2	2	2	2	2	3.50	3.50	3.50	3.50	3.50	9.50	12.50	19.50	10.50	10.50	32.76	28.41	67.24	67.24	36.21	21.00
1SV18EE006	12	9	21	10	10	20	8	8	16	2	2	2	2	2	6.50	6.50	6.50	6.50	6.50	20.50	27.50	18.50	16.50	16.50	70.69	62.50	63.79	63.79	56.90	39.00
1SV18EE007	4	2	6	7	10	17	3	3	6	2	2	2	2	2	3.83	3.83	3.83	3.83	3.83	9.83	14.83	15.83	8.83	8.83	33.91	33.71	54.60	54.60	30.46	23.00
1SV18EE008	12	10	22	10	14	24	4	4	8	2	2	2	2	2	0.00	0.00	0.00	0.00	0.00	14.00	22.00	16.00	6.00	6.00	48.28	50.00	55.17	55.17	20.69	0.00
1SV18EE009	6	2	8	4	4	8	4	4	8	2	2	2	2	2	5.50	5.50	5.50	5.50	5.50	13.50	13.50	11.50	11.50	11.50	46.55	30.68	39.66	39.66	39.66	33.00
1SV18EE011	12	6	18	12	12	24	7	8	15	2	2	2	2	2	5.33	5.33	5.33	5.33	5.33	19.33	25.33	19.33	14.33	14.33	66.67	57.58	66.67	66.67	49.43	32.00
1SV18EE012	5	2	7	6	6	12	7	6	13	2	2	2	2	2	3.50	3.50	3.50	3.50	3.50	10.50	13.50	11.50	12.50	12.50	36.21	30.68	39.66	39.66	43.10	21.00
1SV19EE400	5	2	10	7	10	17	9	9	18	2	2	2	2	2	6.00	6.00	6.00	6.00	6.00	13.00	17.00	18.00	17.00	17.00	44.83	38.64	62.07	62.07	58.62	36.00
1SV19EE401	5	4	9	2	1	3	6	6	12	2	2	2	2	2	3.83	3.83	3.83	3.83	3.83	10.83	11.83	6.83	11.83	11.83	37.36	26.89	23.56	23.56	40.80	23.00
1SV19EE402	12	5	17	4	4	8	9	8	17	2	2	2	2	2	6.50	6.50	6.50	6.50	6.50	20.50	17.50	12.50	17.50	17.50	70.69	39.77	43.10	43.10	60.34	39.00
1SV19EE403	10	3	13	5	4	9	8	8	16	2	2	2	2	2	0.00	0.00	0.00	0.00	0.00	12.00	10.00	6.00	10.00	10.00	41.38	22.73	20.69	20.69	34.48	0.00
1SV19EE404	15	10	25	5	5	10	5	4	9	2	2	2	2	2	3.50	3.50	3.50	3.50	3.50	20.50	20.50	10.50	10.50	10.50	70.69	46.59	36.21	36.21	36.21	21.00
1SV19EE405	12	9	21	7	8	15	2	0	2	2	2	2	2	2	3.83	3.83	3.83	3.83	3.83	17.83	21.83	13.83	7.83	7.83	61.49	49.62	47.70	47.70	27.01	23.00
																									60.108	44.47	53.009	53.01	47.532	

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

DEPARTMENT OF EEE

3rd 2019-20

SUBJECT	TRANSFORMER &GENERATOR	SUBJECT CODE	18EE33

COURSE OUTCOME

CO1. Explain conduction and breakdown phenomenon in gases, liquid dielectrics and breakdown Phenomenon in solid dielectrics.

CO2. Summarize generation of high voltages and currents

CO3. Outline measurement techniques for high voltages and currents

CO4. Summarize overvoltage phenomenon and insulation coordination in electric power systems.

CO5. Explain non-destructive testing of materials and electric apparatus, high-voltage testing of electric apparatus

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.

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

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PRINCIPAL
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COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	MRS. SHWETHA T M											
BRANCH	EEE			ACADEMIC YEAR			2019-20					
COURSE	B.E	SEMESTER	III	SECTION								
SUBJECT	TRANSFORMER & GENERATOR					SUBJECT CODE	18EE33					
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3	3	2			2				2	1
CO2	2	3	3	2			2				2	1
CO3	1	3	3	1			2				2	1
CO4	2	3	3	2			2				2	1
CO5	2	3	3	2			2				2	1
AVERAGE	2	3	3	1.8			2				2	1
OVERALL MAPPING OF SUBJECT												2.11

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	51.5	1.545	1.545	1.545	1.03			1.03				1.03	0.515
CO2	48.5	0.97	1.455	1.455	0.97			0.97				0.97	0.485
CO3	50.6	0.506	1.518	1.518	0.506			1.012				1.012	0.506
CO4	45.8	0.916	1.374	1.374	0.916			0.916				0.916	0.458
CO5	39.9	0.798	1.197	1.197	0.798			0.798				0.798	0.399
AVERAGE	47.26	0.947	1.4178	1.4178	0.844			0.9452				0.9452	0.4726
FINAL ATTAINMENT LEVEL													1.0

Head of the Department
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Shridevi Institute of Engineering

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SEM: V, EEE	IA TEST 1			IA TEST 2			IA TEST 3			Assignment						SEE T&G 2019-2020						TOTAL						Average		
USN	CO1	CO2	TOTAL	CO3	CO4	TOTAL	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	TOTAL	CO1(34	CO2(34)	CO3(34)	CO4(54)	CO5(34)	CO1(34)	CO2(34)	CO3(34)	CO4(54)	CO5(34)
1SV17EE012	8	4	**12**	15	12	**27**	8	9	**17**	2	2	2	2	2	10	4.2	4.2	4.2	4.2	4.2	21	14.2	10.2	21.2	26.2	15.2	42	30	62	49	45
1SV18EE002	10	5	**15**	7	7	**14**	10	8	**18**	2	2	2	2	2	8	5.2	5.2	5.2	5.2	5.2	26	17.2	12.2	14.2	24.2	15.2	51	36	42	45	45
1SV18EE003	16	13	**29**	10	8	**18**	12	8	**20**	2	2	2	2	2	10	6	6	6	6	6	30	24	21	18	28	16	71	62	53	52	47
1SV18EE004	7	9	**16**	12	8	**20**	8	5	**13**	2	2	2	2	2	10	4.4	4.4	4.4	4.4	4.4	22	13.4	15.4	18.4	22.4	11.4	39	45	54	41	34
1SV18EE005	5	7	**12**	9	17	**26**	12	3	**15**	2	2	2	2	2	10	4.2	4.2	4.2	4.2	4.2	21	11.2	13.2	15.2	35.2	9.2	33	39	45	65	27
1SV18EE006	14	12	**26**	12	14	**26**	6	8	**14**	2	2	2	2	2	10	6.4	6.4	6.4	6.4	6.4	32	22.4	20.4	20.4	28.4	16.4	66	60	60	53	48
1SV18EE007	8	10	**18**	10	6	**16**	10	5	**15**	2	2	2	2	2	10	4.2	4.2	4.2	4.2	4.2	21	14.2	16.2	16.2	22.2	11.2	42	48	48	41	33
1SV18EE008	10	9	**19**	12	13	**25**	4	5	**9**	2	2	2	2	2	10	4.2	4.2	4.2	4.2	4.2	21	16.2	15.2	18.2	23.2	11.2	48	45	54	43	33
1SV18EE009	4	3	**7**	9	12	**21**	7	7	**14**	2	2	2	2	2	10	2.4	2.4	2.4	2.4	2.4	12	8.4	7.4	13.4	23.4	11.4	25	22	39	43	34
1SV18EE011	12	14	**26**	10	4	**14**	9	5	**14**	2	2	2	2	2	10	4.2	4.2	4.2	4.2	4.2	21	18.2	20.2	16.2	19.2	11.2	54	59	48	36	33
1SV18EE012	13	14	**27**	12	5	**17**	8	11	**19**	2	2	2	2	2	10	3	3	3	3	3	15	18	19	17	18	16	53	56	50	33	47
1SV19EE400	13	12	**25**	13	5	**18**	10	11	**21**	2	2	2	2	2	10	4.6	4.6	4.6	4.6	4.6	23	19.6	18.6	19.6	21.6	17.6	58	55	58	40	52
1SV19EE401	14	10	**24**	9	9	**18**	12	5	**17**	2	2	2	2	2	10	5.6	5.6	5.6	5.6	5.6	28	21.6	17.6	16.6	28.6	12.6	64	52	49	53	37
1SV19EE402	10	15	**25**	10	11	**21**	14	9	**23**	2	2	2	2	2	10	6	6	6	6	6	30	18	23	18	33	17	53	68	53	61	50
1SV19EE403	10	14	**24**	14	7	**21**	9	6	**15**	2	2	2	2	2	10	4.4	4.4	4.4	4.4	4.4	22	16.4	20.4	20.4	22.4	12.4	48	60	60	41	36
1SV19EE404	17	8	**25**	8	5	**13**	8	6	**14**	2	2	2	2	2	10	4.2	4.2	4.2	4.2	4.2	21	23.2	14.2	14.2	19.2	12.2	68	42	42	36	36
1SV19EE405	15	10	**25**	9	10	**19**	9	8	**17**	2	2	2	2	2	10	4.2	4.2	4.2	4.2	4.2	21	21.2	16.2	15.2	25.2	14.2	62	48	45	47	42
TOTAL	186	169	355	181	153	334	156	119	275	34	34	34	34	34	168	77.4	77.4	77.4	77.4	77.4	387	297.4	280.4	292.4	420.4	230.4	874.71	824.71	860	778.5185	677.6471
Total students	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
Average	10.9	9.941	20.8824	10.65	9	19.6471	9.18	7	16.176	2	2	2	2	2	9.88	4.55	4.55	4.553	4.55	4.55	22.8	17.49	16.4941	17.2	24.7294	13.553	51	49	51	46	40

18EE33 T&G 2019-2020

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Head of the Department
Electrical & Electronics Engineering
Siddaganga Institute of Engineering & Technology
TUMKUR-572106.

DEPARTMENT OF EEE

SUBJECT	ANALOG ELECTRONICS CIRCUITS	SUBJECT CODE	18EE34

COURSE OUTCOME

CO1	Obtain the output characteristics of clipper and clamper circuits
CO2	Design and compare biasing circuits for transistor amplifiers & explain the transistor switching.
CO3	Explain the concept of feedback, its types and design of feedback circuits
CO4	Design and analyze the power amplifier circuits and oscillators for different frequencies.
CO5	Design and analysis of FET and MOSFET amplifiers

PROGRAM OUTCOME

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.

Head of the Department
Electrical & Electronics Engineering
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TUMKUR-572106.

PRINCIPAL
SIET., TUMAKURU.

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY				
FACULTY NAME	RAJESH KUMAR V				
BRANCH	EEE	ACADEMIC YEAR	2019-2020		
COURSE	B.E	SEMESTER	IV	SECTION	
SUBJECT	ANALOG ELECTRONICS CIRCUITS	SUBJECT CODE	18EE34		

CO & PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	3	3	-	-	-	-	-	-	-	-	-
CO2	2	3	3	-	-	-	-	-	-	-	-	-
CO3	-	2	3	-	-	-	-	-	-	-	-	-
CO4	-	2	3	-	-	-	-	-	-	-	-	-
CO5	-	3	3	-	-	-	-	-	-	-	-	-
AVERAGE	2	2.6	3	-	-	-	-	-	-	-	-	-
OVERALL MAPPING OF SUBJECT												2.05

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	17.6	0.35	0.52	0.52	-	-	-	-	-	-	-	-	-
CO2	17.6	0.35	0.52	0.52	-	-	-	-	-	-	-	-	-
CO3	16.6	-	0.33	0.49	-	-	-	-	-	-	-	-	-
CO4	21.6	-	0.43	0.64	-	-	-	-	-	-	-	-	-
CO5	16.6	-	0.49	0.49	-	-	-	-	-	-	-	-	-
AVERAGE	18	0.35	0.45	0.53	-	-	-	-	-	-	-	-	-
FINAL ATTAINMENT LEVEL													0.43

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DEPARTMENT OF EEE

SUBJECT	DIGITAL SYSTEM DESIGN	SUBJECT CODE	18EE35

COURSE OUTCOME

CO1	Develop simplified switching equation using Karnaugh Maps and Quine McClusky techniques.
CO2	Design Multiplexer, Encoder, Decoder, Adder, Subtractors and Comparator as digital combinational control circuits.
CO3	Design flip flops, counters, shift registers as sequential control circuits.
CO4	Develop Mealy/Moore Models and state diagrams for the given clocked sequential circuits.
CO5	Explain the functioning of Read only and Read/Write Memories, Programmable ROM EPROM and Flash memory

PROGRAM OUTCOME

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.

G.U Rao
Head of the Department
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Shridevi Institute of Engineering & Technology
TUMKUR-572106.

PRINCIPAL
SIET, TUMKUR

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY				
FACULTY NAME	RAGHAVENDRA				
BRANCH	EEE	ACADEMIC YEAR	2019-2020		
COURSE	B.E	SEMESTER	VI	SECTION	
SUBJECT	DIGITAL SYSTEM DESIGN	SUBJECT CODE	18EE35		

CO & PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3	-	-	-	-	-	-	-	-	-	3
CO2	2	3	3	-	-	-	-	-	-	-	-	2
CO3	2	2	3	-	-	-	-	-	-	-	-	2
CO4	2	2	-	-	-	-	-	-	-	-	-	2
CO5	-	-	3	-	-	-	-	-	-	-	-	2
AVERAGE	2.25	2.5	3	-	-	-	-	-	-	-	-	2.2
OVERALL MAPPING OF SUBJECT												

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	54.97	1.64	1.64	-	-	-	-	-	-	-	-	-	1.64
CO2	44.67	0.89	1.34	1.34	-	-	-	-	-	-	-	-	0.89
CO3	55.29	1.10	1.10	1.65	-	-	-	-	-	-	-	-	1.10
CO4	35.43	0.70	0.70	-	-	-	-	-	-	-	-	-	0.70
CO5	43.20	-	-	1.29	-	-	-	-	-	-	-	-	0.86
AVERAGE	46.71	1.08	1.19	1.42	-	-	-	-	-	-	-	-	1.03
FINAL ATTAINMENT LEVEL													1.18

Head of the Department
Electrical & Electronics Engineering
Shridevi Institute of Engineering &
TUMKUR-572106.

PRINCIPAL
SIET., TUMAKURU

SEM: III, EEE	IA TEST 1			IA TEST 2			IA TEST 3			Assignment						SEE						Total					Average				
USN	CO1	CO2	TOTAL	CO3	CO4	TOTAL	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	TOTAL	CO1(34)	CO2(34)	CO3(34	CO4(54)	CO5(34	CO1(34)	CO2(34)	CO3(34)	CO4(54)	CO5(34)
1SV17EE006	12	13	**25**	12	11	**23**	11	13	**24**	2	2	2	2	2	10	5.4	5.4	5.4	5.4	5.4	**27**	19.4	20.4	19.4	18.4	20.4	0.57	0.600	0.57	0.34	0.60
1SV17EE012	11	9	**20**	13	5	**18**	12	10	**22**	2	2	2	2	2	10	5.6	5.6	5.6	5.6	5.6	**28**	18.6	16.6	20.6	19.6	17.6	0.55	0.488	0.61	0.36	0.52
1SV18EE002	12	3	**15**	14	0	**14**	13	0	**13**	2	2	2	2	2	10	5.4	5.4	5.4	5.4	5.4	**27**	19.4	10.4	21.4	20.4	7.4	0.57	0.306	0.63	0.38	0.22
1SV18EE003	13	12	**25**	15	9	**24**	13	8	**21**	2	2	2	2	2	10	4.2	4.2	4.2	4.2	4.2	**21**	19.2	18.2	21.2	19.2	14.2	0.56	0.535	0.62	0.36	0.42
1SV18EE004	14	9	**23**	12	10	**22**	15	9	**24**	2	2	2	2	2	10	4.2	4.2	4.2	4.2	4.2	**21**	20.2	15.2	18.2	21.2	15.2	0.59	0.447	0.54	0.39	0.45
1SV18EE005	12	6	**18**	13	6	**19**	14	3	**17**	2	2	2	2	2	10	4.6	4.6	4.6	4.6	4.6	**23**	18.6	12.6	19.6	20.6	9.6	0.55	0.371	0.58	0.38	0.28
1SV18EE006	13	11	**24**	14	11	**25**	12	11	**23**	2	2	2	2	2	10	4.2	4.2	4.2	4.2	4.2	**21**	19.2	17.2	20.2	18.2	17.2	0.56	0.506	0.59	0.34	0.51
1SV18EE007	14	3	**17**	12	4	**16**	14	4	**18**	2	2	2	2	2	10	4.2	4.2	4.2	4.2	4.2	**21**	20.2	9.2	18.2	20.2	10.2	0.59	0.271	0.54	0.37	0.30
1SV18EE008	12	9	**21**	13	7	**20**	12	10	**22**	2	2	2	2	2	10	4.2	4.2	4.2	4.2	4.2	**21**	18.2	15.2	19.2	18.2	16.2	0.54	0.447	0.56	0.34	0.48
1SV18EE009	12	8	**20**	14	5	**19**	15	3	**18**	2	2	2	2	2	10	4.2	4.2	4.2	4.2	4.2	**21**	18.2	14.2	20.2	21.2	9.2	0.54	0.418	0.59	0.39	0.27
1SV18EE011	13	6	**19**	12	6	**18**	13	7	**20**	2	2	2	2	2	10	4.4	4.4	4.4	4.4	4.4	**22**	19.4	12.4	18.4	19.4	13.4	0.57	0.365	0.54	0.36	0.39
1SV18EE012	10	9	**19**	13	4	**17**	14	6	**20**	2	2	2	2	2	10	4.2	4.2	4.2	4.2	4.2	**21**	16.2	15.2	19.2	20.2	12.2	0.48	0.447	0.56	0.37	0.36
1SV19EE400	14	12	**26**	11	13	**24**	14	14	**28**	2	2	2	2	2	10	4.2	4.2	4.2	4.2	4.2	**21**	20.2	18.2	17.2	20.2	20.2	0.59	0.535	0.51	0.37	0.59
1SV19EE401	12	12	**24**	10	15	**25**	12	14	**26**	2	2	2	2	2	10	4.4	4.4	4.4	4.4	4.4	**22**	18.4	18.4	16.4	18.4	20.4	0.54	0.541	0.48	0.34	0.60
1SV19EE402	14	12	**26**	14	9	**23**	13	16	**29**	2	2	2	2	2	10	4.2	4.2	4.2	4.2	4.2	**21**	20.2	18.2	20.2	19.2	22.2	0.59	0.535	0.59	0.36	0.65
1SV19EE403	12	12	**24**	12	16	**28**	14	6	**20**	2	2	2	2	2	10	4.2	4.2	4.2	4.2	4.2	**21**	18.2	18.2	18.2	20.2	12.2	0.54	0.535	0.54	0.37	0.36
1SV19EE404	13	9	**22**	12	12	**24**	12	8	**20**	2	2	2	2	2	10	4.6	4.6	4.6	4.6	4.6	**23**	19.6	15.6	18.6	18.6	14.6	0.58	0.459	0.55	0.34	0.43
1SV19EE405	15	10	**25**	14	10	**24**	13	14	**27**	2	2	2	2	2	10	4.4	4.4	4.4	4.4	4.4	**22**	21.4	16.4	20.4	19.4	20.4	0.63	0.482	0.60	0.36	0.60
TOTAL	228	165	393	230	153	383	236	156	392	36	36	36	36	36	180	80.8	80.8	80.8	80.8	80.8	404	344.8	281.8	346.8	352.8	272.8	10.14	8.2882	10.2	6.533	8.023529
Total students	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
Avearge	12.67	9.1667	21.83	13	8.5	21.28	13.1	8.67	21.8	2	2	2	2	2	10	4.489	4.489	4.49	4.4889	4.489	22.44	19.156	15.656	19.27	19.6	15.16	56.34	46.05	56.67	36.30	44.58

18EE35DS 2019-20

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PRINCIPAL
SIET, TUMAKURU.

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF EEE

SUBJECT	Electrical & Electronic Measurement	SUBJECT CODE	18EE36

COURSE OUTCOME

CO1	Measure resistance, inductance and capacitance using bridges and determine earth resistance.
CO2	Explain the working of various meters used for measurement of Power, Energy & understand the adjustments, calibration & errors in energy meters.
CO3	Understand methods of extending the range of instruments & instrument transformers.
CO4	Explain the working of different electronic instruments.
CO5	Explain the working of different display and recording devices.

PROGRAM OUTCOME

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.

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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.

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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

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PRINCIPAL
SIET., TUMAKURU

FACULTY NAME	UMABAI		
BRANCH	EEE	ACADEMIC YEAR	2019-2020
COURSE: B.E	SEMESTER: III	SECTION:	
SUBJECT: Electrical & Electronic Measurement		SUBJECT CODE	18EE36

CO & PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	2	2	2	2	2						1
CO2	3	2	2	2	2	2						1
CO3	3	2	3	2	2	2						1
CO4	3	2	2	2	2	2						1
CO5	3	2	2	2	2	2						2
AVERAGE	3	2	2.2	2	2	2						1.2
OVERALL MAPPING OF SUBJECT												2.05

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	48.3	1.44	0.96	0.96	0.96	0.96	0.96						0.48
CO2	45.3	1.45	0.96	0.96	0.96	0.96	0.96						0.48
CO3	49.7	1.52	1.01	1.52	1.01	1.01	1.01						0.50
CO4	49.8	1.40	0.93	0.93	0.93	0.93	0.93						0.46
CO5	51.0	1.43	0.95	0.95	0.95	0.95	0.95						0.47
AVERAGE	48.38	1.44	0.96	1.06	0.96	0.96	0.96						0.47
FINAL ATTAINMENT LEVEL													1.12

Head of the Department
Electrical & Electronics Engineering
Shridevi Institute of Engineering & Technology
TUMKUR-572106.

PRINCIPAL
SIET., TUMAKURU

SEM: V, EEE	IA TEST 1			IA TEST 2			IA TEST 3			Assignment						SEE						TOTAL					Average				
USN	CO1	CO2	TOTAL	CO3	CO4	TOTAL	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	TOTAL	CO1(34)	CO2(34)	CO3(34)	CO4(54)	CO5(34)	CO1(34	CO2(34)	CO3(34)	CO4(54)	CO5(34)
1SV17EE012	5	7	12	6	10	16	11	9	20	2	2	2	2	2	10	4.6	4.6	4.6	4.6	4.6	23	11.6	13.6	12.6	27.6	15.6	0.341	0.400	0.371	0.5111	0.459
1SV18EE002	10	6	16	9	9	18	7	10	17	2	2	2	2	2	10	8.4	8.4	8.4	8.4	8.4	42	20.4	16.4	19.4	26.4	20.4	0.600	0.482	0.571	0.4889	0.600
1SV18EE003	9	7	16	10	8	18	9	8	17	2	2	2	2	2	10	5.8	5.8	5.8	5.8	5.8	29	16.8	14.8	17.8	24.8	15.8	0.494	0.435	0.524	0.4593	0.465
1SV18EE004	8	4	12	6	5	11	8	8	16	2	2	2	2	2	10	4.2	4.2	4.2	4.2	4.2	21	14.2	10.2	12.2	19.2	14.2	0.418	0.300	0.359	0.3556	0.418
1SV18EE005	5	7	12	8	9	17	11	8	19	2	2	2	2	2	10	5.4	5.4	5.4	5.4	5.4	27	12.4	14.4	15.4	27.4	15.4	0.365	0.424	0.453	0.5074	0.453
1SV18EE006	13	10	23	13	12	25	13	14	27	2	2	2	2	2	10	9.4	9.4	9.4	9.4	9.4	47	24.4	21.4	24.4	36.4	25.4	0.718	0.629	0.718	0.6741	0.747
1SV18EE007	7	10	17	10	13	23	14	12	26	2	2	2	2	2	10	6	6	6	6	6	30	15	18	18	35	20	0.441	0.529	0.529	0.6481	0.588
1SV18EE008	4	6	10	8	5	13	9	7	16	2	2	2	2	2	10	5.8	5.8	5.8	5.8	5.8	29	11.8	13.8	15.8	21.8	14.8	0.347	0.406	0.465	0.4037	0.435
1SV18EE009	3	5	8	7	5	12	4	6	10	2	2	2	2	2	10	4.2	4.2	4.2	4.2	4.2	21	9.2	11.2	13.2	15.2	12.2	0.271	0.329	0.388	0.2815	0.359
1SV18EE011	9	7	16	8	10	18	12	5	17	2	2	2	2	2	10	5.2	5.2	5.2	5.2	5.2	26	16.2	14.2	15.2	29.2	12.2	0.476	0.418	0.447	0.5407	0.359
1SV18EE012	3	5	8	6	4	10	6	6	12	2	2	2	2	2	10	5	5	5	5	5	25	10	12	13	17	13	0.294	0.353	0.382	0.3148	0.382
1SV19EE400	9	11	20	14	10	24	11	17	28	2	2	2	2	2	10	6.2	6.2	6.2	6.2	6.2	31	17.2	19.2	22.2	29.2	25.2	0.506	0.565	0.653	0.5407	0.741
1SV19EE401	10	8	18	9	11	20	13	12	25	2	2	2	2	2	10	6.6	6.6	6.6	6.6	6.6	33	18.6	16.6	17.6	32.6	20.6	0.547	0.488	0.518	0.6037	0.606
1SV19EE402	10	14	24	9	11	20	18	10	28	2	2	2	2	2	10	5.8	5.8	5.8	5.8	5.8	29	17.8	21.8	16.8	36.8	17.8	0.524	0.641	0.494	0.6815	0.524
1SV19EE403	12	4	16	8	10	18	9	8	17	2	2	2	2	2	10	4.8	4.8	4.8	4.8	4.8	24	18.8	10.8	14.8	25.8	14.8	0.553	0.318	0.435	0.4778	0.435
1SV19EE404	14	11	25	11	7	18	10	10	20	2	2	2	2	2	10	5	5	5	5	5	25	21	18	18	24	17	0.618	0.529	0.529	0.4444	0.500
1SV19EE405	16	8	24	13	7	20	15	13	28	2	2	2	2	2	10	5.6	5.6	5.6	5.6	5.6	28	23.6	15.6	20.6	29.6	20.6	0.694	0.459	0.606	0.5481	0.606
TOTAL	147	130	277	155	146	301	180	163	343	34	34	34	34	34	170	98	98	98	98	98	490	279	262	287	458	295	8.206	7.70588	8.4412	8.48148	8.67647
Total students	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
Average	8.647	7.647	16.294	9.118	8.59	17.706	10.59	9.59	20.176	2	2	2	2	2	10	5.765	5.76	5.76	5.765	5.765	28.8	16.412	15.41	16.8824	26.941	17.353	48.3	45.3	49.7	49.9	51.0

ELECTRICAL & ELECTR(18EE36
2019-20

Head of the Department
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Shridevi Institute of Engineering & Technology
TUMKUR-572106.

PRINCIPAL
SIET., TUMAKURU.

DEPARTMENT OF EEE

SUBJECT	Management&Economics	SUBJECT CODE	17EE51

COURSE OUTCOME

CO1	Explain the field of management, task of the manager, planning and steps in decision making
CO2	Discuss the structure of organization, importance of staffing, leadership styles, modes of communication, techniques of coordination and importance of managerial control in business
CO3	Explain the concepts of entrepreneurship and a businessman's social responsibilities towards different groups
CO4	Show an understanding of role of SSI's in the development of country and state/central level institutions/agencies supporting business enterprises
CO5	Discuss the concepts of project management, capital budgeting, project feasibility studies, need for project report and new control techniques

PROGRAM OUTCOME

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

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PRINCIPAL
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COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY				
FACULTY NAME	CHARAN				
BRANCH	EEE	ACADEMIC YEAR	2019-20		
COURSE	B.E	SEMESTER	V	SECTION	EEE
SUBJECT	Management&Economics			SUBJECT CODE	17EE51

CO & PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	3	2	3	-	2
CO2	-	-	-	-	-	2	-	2	3	3	-	2
CO3	-	-	-	-	-	3	-	2	3	2	-	2
CO4	-	-	-	-	-	-	-	2	2	2	-	3
CO5	-	-	-	-	-	-	-	2	3	3	2	2
AVERAGE	-	-	-	-	-	2.5	-	2.2	2.6	2.6	2	2.2
OVERALL MAPPING OF SUBJECT												3

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	74.74								2.24	1.49	2.24		1.49
CO2	67.84						1.35		1.35	2.03	2.03		1.35
CO3	68.27						2.04		1.37	2.04	1.37		1.37
CO4	110.51								2.21	2.21	2.21		3.31
CO5	68.70								1.37	2.06	2.06	1.37	1.37
AVERAGE	78.01						1.69		1.70	1.96	1.98	1.37	1.77
FINAL ATTAINMENT LEVEL													2.09

G. H Rao
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TUMKUR-572106.

PRINCIPAL
SIET., TUMAKURU

SEM: V, EEE	IA TEST 1			IA TEST 2			IA TEST 3			Assignment						SEE						TOTAL					Average				
USN	CO1	CO2	TOTAL	CO3	CO4	TOTAL	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5
1sv17EE002	12	12	24	11	11	22	12	11	23	2	2	2	2	2	10	4.2	4.2	4.2	4.2	4.2	21	18.2	18.2	17.2	29.2	17.2	0.63	0.63	0.59	0.12	0.59
1sv17EE004	13	14	27	12	13	25	13	13	26	2	2	2	2	2	10	10.2	10.2	10.2	10.2	10.2	51	25.2	26.2	24.2	38.2	25.2	0.87	0.90	0.83	0.30	0.87
1sv17EE005	15	15	30	14	14	28	15	14	29	2	2	2	2	2	10	9.2	9.2	9.2	9.2	9.2	46	26.2	26.2	25.2	40.2	25.2	0.90	0.90	0.87	0.27	0.87
1sv17EE009	14	5	19	10	10	20	10	9	19	2	2	2	2	2	10	8.2	8.2	8.2	8.2	8.2	41	24.2	15.2	20.2	30.2	19.2	0.83	0.52	0.70	0.24	0.66
1sv17EE010	12	13	25	10	13	23	12	12	24	2	2	2	2	2	10	7.8	7.8	7.8	7.8	7.8	39	21.8	22.8	19.8	34.8	21.8	0.75	0.79	0.68	0.23	0.75
1sv18EE400	10	9	19	10	10	20	10	10	20	2	2	2	2	2	10	6.4	6.4	6.4	6.4	6.4	32	18.4	17.4	18.4	28.4	18.4	0.63	0.60	0.63	0.19	0.63
1sv18EE402	13	3	16	7	7	14	10	5	15	2	2	2	2	2	10	3.8	3.8	3.8	3.8	3.8	19	18.8	8.8	12.8	22.8	10.8	0.65	0.30	0.44	0.11	0.37
1sv18EE403	12	14	26	12	12	24	12	13	25	2	2	2	2	2	10	6.6	6.6	6.6	6.6	6.6	33	20.6	22.6	20.6	32.6	21.6	0.71	0.78	0.71	0.19	0.74
TOTAL	101	85	186	86	90	176	94	87	181	16	16	16	16	16	80	56.4	56.4	56.4	56.4	56.4	282	173	157.4	158.4	256	159.4	5.98	5.43	5.46	1.66	5.50
Total students	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Average	12.625	10.63	23.25	10.75	11.25	22	11.75	10.875	22.6	2	2	2	2	2	10	7.05	7.05	7.05	7.05	7.05	35.25	21.68	19.68	19.80	32.05	19.93	74.74	67.84	68.28	110.52	68.71

2019-20 M&E-17EE51

PRINCIPAL
SIET, TUMAKURU

Head of the Dept.
Electrical & Electronics Engineering
Shridevi Institute of Engineering & Technology
TUMKUR-572106.

SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

5E 19-20

DEPARTMENT OF EEE

SUBJECT	MICROCONTROLLER	SUBJECT CODE	17EE52

COURSE OUTCOME

CO1. Discuss the history of the 8051 and features of other 8051 family members and the internal architecture of the 8051.

CO2. Explains the use of an 8051 assembler, the stack and the flag register, loop, jump, and call instructions.

CO3. Discuss 8051 addressing modes, accessing data and I/O port programming, arithmetic, logic instructions, and programs.

CO4. Develop 8051C programs for time delay, I/O operations, I/O bit manipulation, logic and arithmetic operations, data conversion and data serialization

CO5. Discuss the hardware connection of the 8051 chip, its timers, serial data communication and its interfacing of 8051to the RS232

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.

G. R

Department
Electronics Engineering
Shridevi Institute of Engineering & Technology
TUMKUR-572106.

PRINCIPAL
SIET., TUMAKURU

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY				
FACULTY NAME	MRS. SHWETHA T M				
BRANCH	EEE	ACADEMIC YEAR	2019-20		
COURSE	B.E	SEMESTER	V	SECTION	
SUBJECT	MICROCONTROLLER	SUBJECT CODE	17EE52		

CO & PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	2	3	2	2				1			1
CO2	2	2	2	1	1				1			1
CO3	3	2	3	2	2				1			1
CO4	1	2	1	1	1				1			1
CO5	3	2	3	1	2				1			1
AVERAGE	2.4	2	2.4	1.4	1.6				1			1
OVERALL MAPPING OF SUBJECT												1.68

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	51.40	1.5	1.0	1.5	1.0	1.0				0.5			0.5
CO2	63.90	1.3	1.3	1.3	0.6	0.6				0.6			0.6
CO3	52.13	1.6	1.0	1.6	1.0	1.0				0.5			0.5
CO4	59.44	0.6	1.2	0.6	0.6	0.6				0.6			0.6
CO5	68.68	2.1	1.4	2.1	0.7	1.4				0.7			0.7
AVERAGE	59.11	1.40	1.18	1.40	0.79	0.94	0	0	0	0.59	0	0	0.59
FINAL ATTAINMENT LEVEL													0.987

Head of the Department
Electrical & Electronics Engineering
Shridevi Institute of Engineering & Technology
TUMKUR-572106.

PRINCIPAL
SIET., TUMAKURU.

SEM: V, EEE	IA TEST 1			IA TEST 2			IA TEST 3			Assignment						SEE-MC 2019-2020						TOTAL					Average				
USN	CO1	CO2	TOTAL	CO3	CO4	TOTAL	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5
1sv17EE002	12	11	23	10	14	24	12	13	25	2	2	2	2	2	10	4.2	4.2	4.2	4.2	4.2	21	18.2	17.2	16.2	32.2	19.2	53.5	50.6	47.6	59.6	56.5
1sv17EE004	9	19	28	11	16	27	13	16	29	2	2	2	2	2	10	5.2	5.2	5.2	5.2	5.2	26	16.2	26.2	18.2	36.2	23.2	47.6	77.1	53.5	67.0	68.2
1sv17EE005	11	20	31	13	14	27	11	18	29	2	2	2	2	2	10	8.8	8.8	8.8	8.8	8.8	44	21.8	30.8	23.8	35.8	28.8	64.1	90.6	70.0	66.3	84.7
1sv17EE009	10	13	23	9	16	25	10	14	24	2	2	2	2	2	10	4.6	4.6	4.6	4.6	4.6	23	16.6	19.6	15.6	32.6	20.6	48.8	57.6	45.9	60.4	60.6
1sv17EE010	8	14	22	7	20	27	7	22	29	2	2	2	2	2	10	9	9	9	9	9	45	19	25	18	38	33	55.9	73.5	52.9	70.4	97.1
1sv18EE400	9	14	23	8	13	21	8	17	25	2	2	2	2	2	10	5	5	5	5	5	15	16	21	15	28	24	47.1	61.8	44.1	51.9	70.6
1sv18EE402	11	6	17	11	8	19	10	8	18	2	2	2	2	2	10	5	5	5	5	5	25	18	13	18	25	15	52.9	38.2	52.9	46.3	44.1
1sv18EE403	7	14	21	10	13	23	9	16	25	2	2	2	2	2	10	5	5	5	5	5	25	14	21	17	29	23	41.2	61.8	50.0	53.7	67.6
TOTAL	77	111	188	79	114	193	80	124	204	16	16	16	16	16	80	46.8	46.8	46.8	46.8	46.8	224	139.8	173.8	141.8	256.8	186.8	411.2	511.2	417.1	475.6	549.4
Total students	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Average	9.625	13.875	23.5	9.875	14.25	24.125	10	15.5	25.5	2	2	2	2	2	10	5.85	5.85	5.85	5.85	5.85	28	17.475	21.725	17.725	32.1	23.35	51.40	63.90	52.13	59.44	68.68

17EE52MC2019-2020

PRINCIPAL
SIET, TUMAKURU

Head of the Department
Electrical & Electronics Engineering
Shridevi Institute of Engineering & Technology
TUMKUR-572106.

DEPARTMENT OF EEE

SUBJECT	ESTIMATION AND COSTING	SUBJECT CODE	17EE553

COURSE OUTCOME

CO1	Summarize the basic principal and standard methods for working out quantities in estimating.
CO2	Demonstrate the detailed estimate of buildings and workout rate analysis of various items of work
CO3	Understand the material requirements as per specified norms and standards.
CO4	Analyze systems of electric traction, speed time curves and mechanics of train movement.
CO5	Assess the valuation of building and provide practical knowledge of standard specification of items of building construction

PROGRAM OUTCOME

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.

G. H Rao
Head of the Department
Electrical & Electronics Engineering
Siddaganga Institute of Engineering & Technology
TUMKUR-572106.

PRINCIPAL
SIET., TUMAKURU

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY				
FACULTY NAME	SOWMYA T				
BRANCH	EEE	ACADEMIC YEAR	2019-20		
COURSE	B.E	SEMESTER	VII	SECTION	EEE
SUBJECT	ESTIMATION AND COSTING			SUBJECT CODE	17EE553

CO & PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	3	2	-	-	-	-	-	-	-	-	-
CO2	2	3	3	3	-	-	-	-	-	-	-	3
CO3	2	3	2	-	-	-	-	-	-	-	-	-
CO4	2	3	-	-	-	-	-	-	-	-	-	-
CO5	2	3	-	-	-	-	-	-	-	-	-	3
AVERAGE	2	3	2.3									3
OVERALL MAPPING OF SUBJECT												2.575

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	63.10	1.26	1.89	1.26									
CO2	75.60	1.51	2.26	2.26	2.26								2.26
CO3	64.40	1.28	1.93	1.28									
CO4	95.74	1.91	2.87										
CO5	66.98	1.33	2										2
AVERAGE	73.16	1.45	2.19	1.6	2.26								2.13
FINAL ATTAINMENT LEVEL													1.926

G. U Rao
Head of the Department
Electrical & Electronics Engineering
Shridevi Institute of Engineering & Tech
TUMKUR-572106.

PRINCIPAL
SIET., TUMAKURU

SEM: V, EEE	IA TEST 1			IA TEST 2			IA TEST 3			Assignment						SEE						TOTAL					Average				
USN	CO1	CO2	TOTAL	CO3	CO4	TOTAL	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5
1sv17EE002	10	10	20	10	8	18	10	9	19	2	2	2	2	2	10	4.8	4.8	4.8	4.8	4.8	24	16.8	16.8	16.8	24.8	15.8	0.58	0.58	0.58	0.73	0.54
1sv17EE004	10	18	28	12	14	26	10	17	27	2	2	2	2	2	10	4.6	4.6	4.6	4.6	4.6	23	16.6	24.6	18.6	30.6	23.6	0.57	0.85	0.64	0.90	0.81
1sv17EE005	10	19	29	13	14	27	18	10	28	2	2	2	2	2	10	5.2	5.2	5.2	5.2	5.2	26	17.2	26.2	20.2	39.2	17.2	0.59	0.90	0.70	1.15	0.59
1sv17EE009	10	18	28	16	10	26	10	17	27	2	2	2	2	2	10	5	5	5	5	5	25	17	25	23	27	24	0.59	0.86	0.79	0.79	0.83
1sv17EE010	13	13	26	12	13	25	16	10	26	2	2	2	2	2	10	6	6	6	6	6	30	21	21	20	37	18	0.72	0.72	0.69	1.09	0.62
1sv18EE400	13	13	26	10	14	24	10	15	25	2	2	2	2	2	10	4.2	4.2	4.2	4.2	4.2	21	19.2	19.2	16.2	30.2	21.2	0.66	0.66	0.56	0.89	0.73
1sv18EE402	10	13	23	10	11	21	11	11	22	2	2	2	2	2	10	5.4	5.4	5.4	5.4	5.4	27	17.4	20.4	17.4	29.4	18.4	0.60	0.70	0.60	0.86	0.63
1sv18EE403	14	15	29	10	17	27	18	10	28	2	2	2	2	2	10	5.2	5.2	5.2	5.2	5.2	26	21.2	22.2	17.2	42.2	17.2	0.73	0.77	0.59	1.24	0.59
TOTAL	90	119	209	93	101	194	103	99	202	16	16	16	16	16	80	40.4	40.4	40.4	40.4	40.4	202	146.4	175.4	149.4	260.4	155.4	5.05	6.05	5.15	7.66	5.36
Total students	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8.00	8.00	8.00	8.00	8.00
Average	11.25	14.875	26.13	11.6	12.63	24.25	12.9	12.375	25.25	2	2	2	2	2	10	5.05	5.05	5.05	5.05	5.05	25.25	18.3	21.93	18.68	32.55	19.43	63.10	75.60	64.40	95.74	66.98

2019-20 ESTIMATION &COSTING

17EE553

PRINCIPAL
SIET., TUMAKURU

G. U. Rao
Head of the Department
Electrical & Electronics Engineering
Siddaganga Institute of Engineering & Technology
TUMAKURU-572106.

DEPARTMENT OF EEE

SUBJECT	RENEWABLE ENERGY SOURCES	SUBJECT CODE	17EE563

COURSE OUTCOME

CO1	Discuss causes of energy scarcity and its solution, energy resources and availability of renewable energy.
CO2	Outline energy from sun, energy reaching the Earth's surface and solar thermal energy applications
CO3	Discuss types of solar collectors, their configurations, solar cell system, its characteristics and their applications
CO4	Explain generation of energy from hydrogen, wind, geothermal system, solid waste and agriculture refuse
CO5	Discuss production of energy from biomass, biogas.

PROGRAM OUTCOME

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.

G. U Rao
Head of the Department
Electrical & Electronics Engineering
Institute of Engineering & Technology
TUMAKUR-572106.

PRINCIPAL
SIET., TUMAKURU

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	SHWETHA T M											
BRANCH	EEE			ACADEMIC YEAR			2019-20					
COURSE	B.E	SEMESTER	VI	SECTION	EEE							
SUBJECT	CONTROL SYSTEM					SUBJECT CODE	17EE563					

CO & PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	2	2	2	1	1	2		1	1	1	1
CO2	3	2	2	2	1	1	2		1	1	1	1
CO3	3	2	2	2	1	1	2		1	1	1	1
CO4	3	2	2	2	1	1	2		1	1	1	1
CO5	3	2	2	2	1	1	2		1	1	1	1
AVERAGE	3	2	2	2	1	1	2		1	1	1	1
OVERALL MAPPING OF SUBJECT												1.54

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	60.86	1.82	1.21	1.21	1.21	0.60	1.60	1.21		0.60	0.60	0.60	0.60
CO2	87.59	2.62	1.75	1.75	1.75	0.87	0.87	1.75		0.87	0.87	0.87	0.87
CO3	60.86	1.82	1.21	1.21	1.21	0.60	0.60	1.21		0.60	0.60	0.60	0.60
CO4	69.19	2.07	1.38	1.38	1.38	0.69	0.69	1.38		0.69	0.69	0.69	0.69
CO5	83.71	2.51	1.67	1.67	1.67	0.83	0.83	1.67		0.83	0.83	0.83	0.83
AVERAGE	72.44	2.16	1.44	1.44	1.44	0.71	0.71	1.44		0.71	0.71	0.71	0.71
FINAL ATTAINMENT LEVEL													1.10

Head of the Department
Electrical & Electronics Engineering
Shridevi Institute of Engineering &
Tumakuru-572106.

PRINCIPAL
SIET, TUMAKURU.

SEM: V, EEE	IA TEST 1			IA TEST 2			IA TEST 3			Assignment						SEE						TOTAL					Average				
USN	CO1	CO2	TOTAL	CO3	CO4	TOTAL	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5
1sv17EE002	10	17	27	10	15	25	10	16	26	2	2	2	2	2	10	4.8	4.8	4.8	4.8	4.8	24	16.8	23.8	16.8	21.8	22.8	0.58	0.82	0.58	0.64	0.79
1sv17EE004	10	20	30	10	18	28	10	19	29	2	2	2	2	2	10	6.8	6.8	6.8	6.8	6.8	34	18.8	28.8	18.8	26.8	27.8	0.65	0.99	0.65	0.79	0.96
1sv17EE005	10	20	30	10	19	29	10	18	28	2	2	2	2	2	10	7	7	7	7	7	35	19	29	19	28	27	0.66	1.00	0.66	0.82	0.93
1sv17EE009	10	19	29	10	17	27	10	18	28	2	2	2	2	2	10	6	6	6	6	6	30	18	27	18	25	26	0.62	0.93	0.62	0.74	0.90
1sv17EE010	10	20	30	10	18	28	10	19	29	2	2	2	2	2	10	5.6	5.6	5.6	5.6	5.6	28	17.6	27.6	17.6	25.6	26.6	0.61	0.95	0.61	0.75	0.92
1sv18EE400	10	17	27	10	15	25	10	16	26	2	2	2	2	2	10	5	5	5	5	5	25	17	24	17	22	23	0.59	0.83	0.59	0.65	0.79
1sv18EE402	10	9	19	10	7	17	10	8	18	2	2	2	2	2	10	4.8	4.8	4.8	4.8	4.8	24	16.8	15.8	16.8	13.8	14.8	0.58	0.54	0.58	0.41	0.51
1sv18EE403	10	20	30	10	18	28	10	19	29	2	2	2	2	2	10	5.2	5.2	5.2	5.2	5.2	26	17.2	27.2	17.2	25.2	26.2	0.59	0.94	0.59	0.74	0.90
TOTAL	80	142	222	80	127	207	80	133	213	16	16	16	16	16	80	45.2	45.2	45.2	45.2	45.2	226	141.2	203.2	141.2	188.2	194.2	4.87	7.01	4.87	5.54	6.70
Total students	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8.00	8.00	8.00	8.00	8.00
Average	10	17.75	27.75	10	15.88	25.875	10	16.625	26.6	2	2	2	2	2	10	5.65	5.65	5.65	5.65	5.65	28.25	17.65	25.4	17.65	23.53	24.275	60.86	87.59	60.86	69.19	83.71

2019-20 RES 17EE563

PRINCIPAL
SIET, TUMAKURU

G. H. R
Head of the Department
Electrical & Electronics Engineering
Shridevi Institute of Engineering & Technology
TUMKUR-572106.

EVEN SEMESTER

19-20 E

DEPARTMENT OF EEE

SUBJECT	Basic Electrical Engineering	SUBJECT CODE	18ELE13/23

COURSE OUTCOME

CO1	Understand the dc circuits and electrical laws.
CO2	Apply the basic electrical laws to solve ac and dc circuits
CO3	Discuss the construction and operation of various electrical machines
CO4	Identify suitable electrical machines for practical implementations
CO5	Explain the concept of electrical transmission and distribution ,electricity billing, circuit protective devices and personal safety measures.

PROGRAM OUTCOME

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.

G. H. R...

Head of the Department
Dept. of Electrical & Electronics Engineering
Shridevi Institute of Engineering & Technology
TUMKUR-572106.

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COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	UMABAI											
BRANCH	EEE			ACADEMIC YEAR			2019-2020					
COURSE	B.E	SEMESTER	I	SECTION								
SUBJECT	Basic Electrical Engineering					SUBJECT CODE	18ELE13/23					

CO & PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	2	1	-	-	1	1	1	-	-	-	1
CO2	3	3	2	1	-	1	0	0	-	-	-	1
CO3	3	2	1	1	-	1	1	1	-	-	-	1
CO4	3	2	2	1	-	1	1	1	-	-	-	1
CO5	3	1	2	-	-	2	1	1	-	-	1	1
AVERAGE	3	2	1.6	1	-	1.2	0.8	0.8	-	-	1	1
OVERALL MAPPING OF SUBJECT												1.37

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	52.9	1.587	1.587	0.529			0.529	0.529	0.529				0.529
CO2	52.9	1.587	1.587	1.058	0.529		0.529						0.529
CO3	40.1	1.203	0.802	0401	0.401		0.401	0.401	0.401				0.401
CO4	60.5	1.815	1.21	1.21	0.605		0.605	0.605	0.605				0.605
CO5	53.3	1.59	0.533	1.33			1.33	0.533	0.533			0.533	0.533
AVERAGE	51.94	1.55	1.14	0.905	0.511		0.606	0.517	0.517			0.533	0.519
FINAL ATTAINMENT LEVEL													0.755

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SEM (A &B)	II		Total strength		108		Subject					Basic Electrical Engg						Subject Code	18ELE23												
SEM:II,SEC:A&I	IA TEST 1 (30M)			IA TEST 2 (30M)			IA TEST 3 (60M)					SSIGNEMENT(10) + Grace (10M					SEE MARKS(50M)					Total Cos ATTAINMENT					Avg of individual CO					SEE (50M)		CIE		
USN	CO1	CO2	TOTAL	CO3	CO4	TOTAL	CO1	CO2	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	O1(4	O2(44	CO3(29	CO4(44	CO5(29	CO1	CO2	CO3	CO4	CO5					
1SV19CS001	15	15	30	13	13	26	15	13	15	11	54	3	3	3	3	3	6.6	6.6	6.6	6.6	6.6	40	37.6	22.6	37.6	20.6	90	85.5	77.93	85.5	71	33	6.6	43	28	15
1SV19CS003	15	15	30	15	15	30	11	13	13	11	48	4	4	4	4	4	6.8	6.8	6.8	6.8	6.8	37	38.8	25.8	38.8	21.8	83.64	88.2	88.97	88.2	75.2	34	6.8	50	30	20
1SV19CS004	15	15	30	15	14	29	11	15	15	15	56	2.8	2.8	2.8	2.8	2.8	4.8	4.8	4.8	4.8	4.8	34	37.6	22.6	36.6	22.6	76.36	85.5	77.93	83.2	77.9	24	4.8	43	29	14
1SV19CS005	15	14	29	15	15	30	15	15	15	15	60	4	4	4	4	4	3.6	3.6	3.6	3.6	3.6	38	36.6	22.6	37.6	22.6	85.45	83.2	77.93	85.5	77.9	18	3.6	50	30	20
1SV19CS006	15	15	30	15	15	30	15	15	15	15	60	4	4	4	4	4	6.6	6.6	6.6	6.6	6.6	41	40.6	25.6	40.6	25.6	92.27	92.3	88.28	92.3	88.3	33	6.6	50	30	20
1SV19CS007	15	15	30	14	14	28	15	15	15	15	60	4	4	4	4	4	5.6	5.6	5.6	5.6	5.6	40	39.6	23.6	38.6	24.6	90	90	81.38	87.7	84.8	28	5.6	50	30	20
1SV19CS008	15	15	30	14	12	26	15	15	15	15	60	4	4	4	4	4	6.6	6.6	6.6	6.6	6.6	41	40.6	24.6	37.6	25.6	92.27	92.3	84.83	85.5	88.3	33	6.6	50	30	20
1SV19CS009	14	14	28	0	0	0	15	11	15	15	56	2.8	2.8	2.8	2.8	2.8	3	3	3	3	3	35	30.8	5.8	20.8	20.8	79.09	70	20	47.3	71.7	15	3	35	21	14
1SV19CS011	15	15	30	14	14	28	15	15	15	15	60	4	4	4	4	4	5.2	5.2	5.2	5.2	5.2	39	39.2	23.2	38.2	24.2	89.09	89.1	80	86.8	83.4	26	5.2	50	30	20
1SV19CS013	15	15	30	14	15	29	15	15	15	15	60	4	4	4	4	4	6	6	6	6	6	40	40	24	40	25	90.91	90.9	82.76	90.9	86.2	30	6	50	30	20
1SV19CS014	14	14	28	15	15	30	15	15	15	15	60	4	4	4	4	4	6.2	6.2	6.2	6.2	6.2	39	39.2	25.2	40.2	25.2	89.09	89.1	86.9	91.4	86.9	31	6.2	50	30	20
1SV19CS015	15	15	30	14	14	28	15	14	12	15	56	4	4	4	4	4	7.4	7.4	7.4	7.4	7.4	41	40.4	25.4	37.4	26.4	94.09	91.8	87.59	85	91	37	7.4	50	30	20
1SV19CS016	14	14	28	14	13	27	14	14	12	14	54	4	4	4	4	4	5.8	5.8	5.8	5.8	5.8	38	37.8	23.8	34.8	23.8	85.91	85.9	82.07	79.1	82.1	29	5.8	49	29	20
1SV19CS017	15	15	30	10	15	25	10	11	9	10	40	3	3	3	3	3	4.6	4.6	4.6	4.6	4.6	33	33.6	17.6	31.6	17.6	74.09	76.4	60.69	71.8	60.7	23	4.6	39	24	15
1SV19CS018	15	15	30	13	13	26	15	14	14	15	58	4	4	4	4	4	6.2	6.2	6.2	6.2	6.2	40	39.2	23.2	37.2	25.2	91.36	89.1	80	84.5	86.9	31	6.2	50	30	20
1SV19CS019	15	15	30	12	12	24	10	10	9	7	36	4	4	4	4	4	2.2	2.2	2.2	2.2	2.2	31	31.2	18.2	27.2	13.2	70.91	70.9	62.76	61.8	45.5	11	2.2	45	25	20
1SV19CS020	15	15	30	15	15	30	15	15	15	15	60	4	4	4	4	4	6.6	6.6	6.6	6.6	6.6	41	40.6	25.6	40.6	25.6	92.27	92.3	88.28	92.3	88.3	33	6.6	50	30	20
1SV19CS021	15	14	29	13	13	26	15	15	15	15	60	4	4	4	4	4	8	8	8	8	8	42	41	25	40	27	95.45	93.2	86.21	90.9	93.1	40	8	50	30	20
1SV19CS022	15	15	30	14	14	28	15	15	15	15	60	4	4	4	4	4	5.8	5.8	5.8	5.8	5.8	40	39.8	23.8	38.8	24.8	90.45	90.5	82.07	88.2	85.5	29	5.8	50	30	20
1SV19CS023	15	15	30	14	14	28	15	15	15	15	60	3.6	3.6	3.6	3.6	3.6	5.4	5.4	5.4	5.4	5.4	39	39	23	38	24	88.64	88.6	79.31	86.4	82.8	27	5.4	48	30	18
1SV19CS024	15	15	30	14	14	28	10	10	12	12	44	3.6	3.6	3.6	3.6	3.6	3.8	3.8	3.8	3.8	3.8	32	32.4	21.4	33.4	19.4	73.64	73.6	73.79	75.9	66.9	19	3.8	44	26	18
1SV19CS025	15	15	30	10	15	25	15	15	14	14	58	4	4	4	4	4	6.2	6.2	6.2	6.2	6.2	40	40.2	20.2	39.2	24.2	91.36	91.4	69.66	89.1	83.4	31	6.2	50	30	20
1SV19CS026	15	15	30	10	7	17	0	0	0	0	0	4	4	4	4	4	0.8	0.8	0.8	0.8	0.8	20	19.8	14.8	11.8	4.8	45	45	51.03	26.8	16.6	4	0.8	32	12	20
1SV19CS027	15	15	30	15	14	29	15	15	15	15	60	4	4	4	4	4	6.6	6.6	6.6	6.6	6.6	41	40.6	25.6	39.6	25.6	92.27	92.3	88.28	90	88.3	33	6.6	50	30	20
1SV19CS028	15	15	30	14	14	28	15	15	15	15	60	4	4	4	4	4	6.8	6.8	6.8	6.8	6.8	41	40.8	24.8	39.8	25.8	92.73	92.7	85.52	90.5	89	34	6.8	50	30	20
1SV19CS029	15	15	30	13	13	26	15	15	15	15	60	3.8	3.8	3.8	3.8	3.8	5.8	5.8	5.8	5.8	5.8	40	39.6	22.6	37.6	24.6	90	90	77.93	85.5	84.8	29	5.8	48	29	19
1SV19CS030	15	15	30	14	14	28	15	15	15	15	60	4	4	4	4	4	7.6	7.6	7.6	7.6	7.6	42	41.6	25.6	40.6	26.6	94.55	94.5	88.28	92.3	91.7	38	7.6	50	30	20
1SV19CS031	15	15	30	14	13	27	10	10	12	12	44	3	3	3	3	3	3.6	3.6	3.6	3.6	3.6	32	31.6	20.6	31.6	18.6	71.82	71.8	71.03	71.8	64.1	18	3.6	40	25	15
1SV19CS032	15	15	30	14	14	28	15	15	14	14	58	4	4	4	4	4	5.8	5.8	5.8	5.8	5.8	40	39.8	23.8	37.8	23.8	90.45	90.5	82.07	85.9	82.1	29	5.8	50	30	20
1SV19CS033	15	15	30	14	14	28	14	14	15	13	56	4	4	4	4	4	4.8	4.8	4.8	4.8	4.8	38	37.8	22.8	37.8	21.8	85.91	85.9	78.62	85.9	75.2	24	4.8	50	30	20
1SV19CS034	15	15	30	15	15	30	15	15	15	15	60	4	4	4	4	4	8	8	8	8	8	42	42	27	42	27	95.45	95.5	93.1	95.5	93.1	40	8	50	30	20
1SV19CS035	15	15	30	14	15	29	15	15	15	15	60	3.8	3.8	3.8	3.8	3.8	6	6	6	6	6	40	39.8	23.8	39.8	24.8	90.45	90.5	82.07	90.5	85.5	30	6	49	30	19
1SV19CS036	15	15	30	14	14	28	15	15	15	15	60	3	3	3	3	3	4.2	4.2	4.2	4.2	4.2	37	37.2	21.2	36.2	22.2	84.55	84.5	73.1	82.3	76.6	21	4.2	45	30	15
1SV19CS037	15	15	30	15	15	30	15	15	15	15	60	4	4	4	4	4	4	4	4	4	4	38	38	23	38	23	86.36	86.4	79.31	86.4	79.3	20	4	50	30	20
1SV19CS038	15	15	30	14	14	28	15	15	15	15	60	4	4	4	4	4	4.4	4.4	4.4	4.4	4.4	38	38.4	22.4	37.4	23.4	87.27	87.3	77.24	85	80.7	22	4.4	50	30	20
1SV19CS039	6	6	12	0	0	0	0	0	0	0	0	4	4	4	4	4	3.4	3.4	3.4	3.4	3.4	13	13.4	7.4	7.4	7.4	30.45	30.5	25.52	16.8	25.5	17	3.4	25	5	20
1SV19CS040	14	15	29	14	15	29	15	15	15	15	60	4	4	4	4	4	7.4	7.4	7.4	7.4	7.4	40	41.4	25.4	41.4	26.4	91.82	94.1	87.59	94.1	91	37	7.4	50	30	20
1SV19CS041	15	15	30	14	14	28	15	14	15	14	58	4	4	4	4	4	5.4	5.4	5.4	5.4	5.4	39	38.4	23.4	38.4	23.4	89.55	87.3	80.69	87.3	80.7	27	5.4	50	30	20
1SV19CS042	15	15	30	14	13	27	15	15	15	15	60	3.8	3.8	3.8	3.8	3.8	6	6	6	6	6	40	39.8	23.8	37.8	24.8	90.45	90.5	82.07	85.9	85.5	30	6	49	30	19
1SV19CS043	15	14	29	14	14	28	13	15	15	15	58	4	4	4	4	4	3.6	3.6	3.6	3.6	3.6	36	36.6	21.6	36.6	22.6	80.91	83.2	74.48	83.2	77.9	18	3.6	50	30	20
1SV19CS044	15	15	30	14	14	28	15	15	15	15	60	4	4	4	4	4	5.4	5.4	5.4	5.4	5.4	39	39.4	23.4	38.4	24.4	89.55	89.5	80.69	87.3	84.1	27	5.4	50	30	20

1SV19CS045	15	15	30	14	14	28	15	15	15	15	60	4	4	4	4	4	7.2	7.2	7.2	7.2	7.2	41	41.2	25.2	40.2	26.2	93.64	93.6	86.9	91.4	90.3	36	7.2	50	30	20
1SV19CS046	15	15	30	14	14	28	10	10	14	14	48	4	4	4	4	4	5.6	5.6	5.6	5.6	5.6	35	34.6	23.6	37.6	23.6	78.64	78.6	81.38	85.5	81.4	28	5.6	49	29	20
1SV19CS047	15	15	30	15	14	29	15	15	15	15	60	4	4	4	4	4	6.8	6.8	6.8	6.8	6.8	41	40.8	25.8	39.8	25.8	92.73	92.7	88.97	90.5	89	34	6.8	50	30	20
1SV19CS048	15	15	30	14	14	28	15	14	14	15	58	4	4	4	4	4	6.2	6.2	6.2	6.2	6.2	40	39.2	24.2	38.2	25.2	91.36	89.1	83.45	86.8	86.9	31	6.2	50	30	20
1SV19CS049	15	15	30	14	15	29	15	15	15	15	60	4	4	4	4	4	5.2	5.2	5.2	5.2	5.2	39	39.2	23.2	39.2	24.2	89.09	89.1	80	89.1	83.4	26	5.2	50	30	20
1SV19CS050	15	15	30	14	15	29	15	15	15	15	60	4	4	4	4	4	7.2	7.2	7.2	7.2	7.2	41	41.2	25.2	41.2	26.2	93.64	93.6	86.9	93.6	90.3	36	7.2	50	30	20
1SV19CS051	14	14	28	14	14	28	14	14	15	15	58	4	4	4	4	4	5.8	5.8	5.8	5.8	5.8	38	37.8	23.8	38.8	24.8	85.91	85.9	82.07	88.2	85.5	29	5.8	49	29	20
1SV19CS052	15	15	30	14	14	28	13	13	11	15	52	4	4	4	4	4	6	6	6	6	6	38	38	24	35	25	86.36	86.4	82.76	79.5	86.2	30	6	49	29	20
1SV19CS053	15	15	30	14	15	29	15	15	15	15	60	4	4	4	4	4	7.8	7.8	7.8	7.8	7.8	42	41.8	25.8	41.8	26.8	95	95	88.97	95	92.4	39	7.8	50	30	20
1SV19CS054	15	15	30	14	14	28	15	14	12	15	56	3.6	3.6	3.6	3.6	3.6	4.2	4.2	4.2	4.2	4.2	38	36.8	21.8	33.8	22.8	85.91	83.6	75.17	76.8	78.6	21	4.2	47	29	18
1SV19CS055	15	15	30	13	12	25	15	15	14	14	58	3.2	3.2	3.2	3.2	3.2	2.2	2.2	2.2	2.2	2.2	35	35.4	18.4	31.4	19.4	80.45	80.5	63.45	71.4	66.9	11	2.2	44	28	16
1SV19CS056	15	15	30	15	14	29	15	15	15	15	60	3.6	3.6	3.6	3.6	3.6	5.4	5.4	5.4	5.4	5.4	39	39	24	38	24	88.64	88.6	82.76	86.4	82.8	27	5.4	48	30	18
1SV19CS057	15	14	29	14	15	29	15	15	15	15	60	4	4	4	4	4	7.6	7.6	7.6	7.6	7.6	42	40.6	25.6	41.6	26.6	94.55	92.3	88.28	94.5	91.7	38	7.6	50	30	20
1SV19CS058	15	15	30	14	15	29	15	13	13	15	56	4	4	4	4	4	7.8	7.8	7.8	7.8	7.8	42	39.8	25.8	39.8	26.8	95	90.5	88.97	90.5	92.4	39	7.8	50	30	20
1SV19CS059	13	13	26	11	15	26	15	15	14	14	58	4	4	4	4	4	4.6	4.6	4.6	4.6	4.6	37	36.6	19.6	37.6	22.6	83.18	83.2	67.59	85.5	77.9	23	4.6	49	29	20
1SV19CS060	15	15	30	14	15	29	15	15	15	15	60	3.8	3.8	3.8	3.8	3.8	5.4	5.4	5.4	5.4	5.4	39	39.2	23.2	39.2	24.2	89.09	89.1	80	89.1	83.4	27	5.4	49	30	19
1SV19CS061	15	14	29	13	14	27	15	15	15	15	60	4	4	4	4	4	6	6	6	6	6	40	39	23	39	25	90.91	88.6	79.31	88.6	86.2	30	6	50	30	20
1SV19CS062	14	14	28	14	15	29	11	15	15	15	56	4	4	4	4	4	5.8	5.8	5.8	5.8	5.8	35	38.8	23.8	39.8	24.8	79.09	88.2	82.07	90.5	85.5	29	5.8	48	28	20
1SV19CS063	14	14	28	14	14	28	13	12	12	13	50	2.6	2.6	2.6	2.6	2.6	6	6	6	6	6	36	34.6	22.6	34.6	21.6	80.91	78.6	77.93	78.6	74.5	30	6	40	27	13
1SV19CS064	15	15	30	15	15	30	13	11	11	13	48	3.2	3.2	3.2	3.2	3.2	5.2	5.2	5.2	5.2	5.2	36	34.4	23.4	34.4	21.4	82.73	78.2	80.69	78.2	73.8	26	5.2	43	27	16
1SV19CS065	15	15	30	15	15	30	15	15	15	15	60	4	4	4	4	4	7	7	7	7	7	41	41	26	41	26	93.18	93.2	89.66	93.2	89.7	35	7	50	30	20
1SV19CS066	15	15	30	15	15	30	15	15	15	15	60	4	4	4	4	4	6.6	6.6	6.6	6.6	6.6	41	40.6	25.6	40.6	25.6	92.27	92.3	88.28	92.3	88.3	33	6.6	50	30	20
1SV19CS067	15	15	30	15	15	30	14	15	13	14	56	3.2	3.2	3.2	3.2	3.2	6	6	6	6	6	38	39.2	24.2	37.2	23.2	86.82	89.1	83.45	84.5	80	30	6	45	29	16
1SV19CS068	0	0	0	0	0	0	11	13	13	11	48	3.4	3.4	3.4	3.4	3.4	5	5	5	5	5	19	21.4	8.4	21.4	19.4	44.09	48.6	28.97	48.6	66.9	25	5	29	12	17
1SV19CS069	15	14	29	15	14	29	13	13	13	13	52	4	4	4	4	4	5.4	5.4	5.4	5.4	5.4	37	36.4	24.4	36.4	22.4	85	82.7	84.14	82.7	77.2	27	5.4	49	29	20
1SV19CS070	15	15	30	15	14	29	15	15	15	15	60	4	4	4	4	4	7.2	7.2	7.2	7.2	7.2	41	41.2	26.2	40.2	26.2	93.64	93.6	90.34	91.4	90.3	36	7.2	50	30	20
1SV19CS071	15	14	29	15	14	29	15	15	15	15	60	4	4	4	4	4	7.8	7.8	7.8	7.8	7.8	42	40.8	26.8	40.8	26.8	95	92.7	92.41	92.7	92.4	39	7.8	50	30	20
1SV19CS072	15	15	30	14	14	28	14	15	15	14	58	3.2	3.2	3.2	3.2	3.2	5.6	5.6	5.6	5.6	5.6	38	38.8	22.8	37.8	22.8	85.91	88.2	78.62	85.9	78.6	28	5.6	45	29	16
1SV19CS073	15	15	30	15	14	29	15	15	15	15	60	3.4	3.4	3.4	3.4	3.4	2.8	2.8	2.8	2.8	2.8	36	36.2	21.2	35.2	21.2	82.27	82.3	73.1	80	73.1	14	2.8	47	30	17
1SV19CS074	15	15	14	14	14	28	15	15	15	15	60	4	4	4	4	4	4.8	4.8	4.8	4.8	4.8	39	38.8	22.8	37.8	23.8	88.18	88.2	78.62	85.9	82.1	24	4.8	49	29	20
1SV19CS075	5	4	9	14	14	28	15	14	13	10	52	3.6	3.6	3.6	3.6	3.6	3.4	3.4	3.4	3.4	3.4	27	25	21	34	17	61.36	56.8	72.41	77.3	58.6	17	3.4	40	22	18
1SV19CS076	15	14	29	13	14	27	15	15	14	14	58	3.8	3.8	3.8	3.8	3.8	5.4	5.4	5.4	5.4	5.4	39	38.2	22.2	37.2	23.2	89.09	86.8	76.55	84.5	80	27	5.4	48	29	19
1SV19CS077	15	15	30	10	15	25	14	14	14	14	56	4	4	4	4	4	5.2	5.2	5.2	5.2	5.2	38	38.2	19.2	38.2	23.2	86.82	86.8	66.21	86.8	80	26	5.2	49	29	20
1SV19CS079	15	15	30	13	14	27	13	11	11	13	48	3.6	3.6	3.6	3.6	3.6	4.4	4.4	4.4	4.4	4.4	36	34	21	33	21	81.82	77.3	72.41	75	72.4	22	4.4	44	26	18
1SV19CS080	15	15	30	15	15	30	15	15	15	15	60	4	4	4	4	4	6.4	6.4	6.4	6.4	6.4	40	40.4	25.4	40.4	25.4	91.82	91.8	87.59	91.8	87.6	32	6.4	50	30	20
1SV19CS081	15	15	30	14	14	28	15	15	15	15	60	3.6	3.6	3.6	3.6	3.6	6	6	6	6	6	40	39.6	23.6	38.6	24.6	90	90	81.38	87.7	84.8	30	6	48	30	18
1SV19CS082	15	15	30	13	15	28	15	15	15	15	60	4	4	4	4	4	8.4	8.4	8.4	8.4	8.4	42	42.4	25.4	42.4	27.4	96.36	96.4	87.59	96.4	94.5	42	8.4	50	30	20
1SV19CS083	15	15	30	15	13	28	13	13	14	14	54	4	4	4	4	4	7	7	7	7	7	39	39	26	38	25	88.64	88.6	89.66	86.4	86.2	35	7	50	30	20
1SV19CS084	10	5	15	13	14	27	9	9	10	8	36	4	4	4	4	4	4.8	4.8	4.8	4.8	4.8	28	22.8	21.8	32.8	16.8	63.18	51.8	75.17	74.5	57.9	24	4.8	40	20	20
1SV19CS085	15	14	29	15	15	30	14	14	13	15	56	4	4	4	4	4	5.4	5.4	5.4	5.4	5.4	38	37.4	24.4	37.4	24.4	87.27	85	84.14	85	84.1	27	5.4	50	30	20
1SV19CS086	13	14	27	0	0	0	14	14	13	15	56	2.6	2.6	2.6	2.6	2.6	6.4	6.4	6.4	6.4	6.4	36	37	9	22	24	81.82	84.1	31.03	50	82.8	32	6.4	34	21	13
1SV19IS001	14	14	28	14	14	28	14	14	13	15	56	4	4	4	4	4	6.8	6.8	6.8	6.8	6.8	39	38.8	24.8	37.8	25.8	88.18	88.2	85.52	85.9	89	34	6.8	49	29	20
1SV19IS003	15	15	30	15	10	25	14	15	14	15	58	4	4	4	4	4	5.2	5.2	5.2	5.2	5.2	38	39.2	24.2	33.2	24.2	86.82	89.1	83.45	75.5	83.4	26	5.2	49	29	20

SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

4E 19-20

DEPARTMENT OF EEE

SUBJECT	POWER GENERATION ECONOMICS	SUBJECT CODE	18EE42

COURSE OUTCOME

CO1. Describe the working of hydroelectric, steam, nuclear power plants and state functions of major equipment of the power plants.

CO2. Classify various substations and explain the functions of major equipments in substations.

CO3. Explain the types of grounding and its importance

CO4. Infer the economic aspects of power system operation and its effects

CO5. Explain the importance of power factor improvement.

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.

Head of the Department
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COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	MRS. SHWETHA T M											
BRANCH	EEE			ACADEMIC YEAR			2019-20					
COURSE	B.E	SEMESTER		SECTION								
SUBJECT	POWER GENERATION ECONOMICS					SUBJECT CODE		18EE42				
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3	2			2	2	1	1	1		1
CO2	2	2	2			2	1	1	1	1		1
CO3	3	2	2			2	2	1	1	1		1
CO4	2	2	2			2	2	1	1	1		1
CO5	3	2	2			2	1	1	1	1		1
AVERAGE	2.6	2.2	2			2	1.6	1	1	1		1
OVERALL MAPPING OF SUBJECT												1.6

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	63.1	1.89	1.89	1.26			1.26	1.26	0.63	0.63	0.63		0.63
CO2	56.7	1.13	1.13	1.13			1.13	0.57	0.57	0.57	0.57		0.57
CO3	62.6	1.88	1.25	1.25			1.25	1.25	0.63	0.63	0.63		0.63
CO4	62.0	1.24	1.24	1.24			1.24	1.24	0.62	0.62	0.62		0.62
CO5	66.0	1.98	1.32	1.32			1.32	0.66	0.66	0.66	0.66		0.66
AVERAGE	62.08	1.63	1.37	1.24	0.00	0.00	1.24	1.00	0.62	0.62	0.62	0.00	0.62
FINAL ATTAINMENT LEVEL													1.279

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SEM: V, EEE	IA TEST 1			IA TEST 2			IA TEST 3			Assignment						SEE PGE 2019-2020						TOTAL					Average				
USN	CO1	CO2	TOTAL	CO3	CO4	TOTAL	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	TOTAL	CO1(34)	CO2(34)	CO3(34)	CO4(54)	CO5(34)	CO1	CO2	CO3	CO4	CO5
1SV17EE006	15	15	30	15	15	30	11	19	30	4	4	4	4	4	10	6.2	6.2	6.2	6.2	6.2	31	25.2	25.2	25.2	36.2	29.2	74	74	74	67	88
1SV17EE012	12	13	25	12	15	27	12	17	29	4	4	4	4	4	10	3.6	3.6	3.6	3.6	3.6	18	19.6	20.6	19.6	34.6	24.6	58	61	58	64	72
1SV18EE002	13	3	16	13	6	19	13	6	19	4	4	4	4	4	10	4.6	4.6	4.6	4.6	4.6	23	21.6	11.6	21.6	27.6	14.6	64	34	64	51	43
1SV18EE003	14	16	30	14	16	30	14	16	30	4	4	4	4	4	10	5.2	5.2	5.2	5.2	5.2	26	23.2	25.2	23.2	39.2	25.2	68	74	68	73	74
1SV18EE004	12	4	16	15	3	18	15	2	17	4	4	4	4	4	10	5	5	5	5	5	25	21	13	24	27	11	62	38	71	50	32
1SV18EE005	13	5	18	12	8	20	11	14	25	4	4	4	4	4	10	4.8	4.8	4.8	4.8	4.8	24	21.8	13.8	20.8	27.8	22.8	64	41	61	53	67
1SV18EE006	14	16	30	13	17	30	12	18	30	4	4	4	4	4	10	5.8	5.8	5.8	5.8	5.8	29	23.8	25.8	22.8	38.8	27.8	70	76	67	72	82
1SV18EE007	12	15	27	14	11	25	13	16	29	4	4	4	4	4	10	5.2	5.2	5.2	5.2	5.2	26	21.2	24.2	23.2	33.2	25.2	62	71	68	61	74
1SV18EE008	11	9	20	12	12	24	10	18	28	4	4	4	4	4	10	4.2	4.2	4.2	4.2	4.2	21	19.2	17.2	20.2	30.2	26.2	56	51	59	56	77
1SV18EE009	12	4	16	14	5	19	15	4	19	4	4	4	4	4	10	4.2	4.2	4.2	4.2	4.2	21	20.2	12.2	22.2	28.2	12.2	59	38	65	52	36
1SV18EE011	13	10	23	13	12	25	14	13	27	4	4	4	4	4	10	4.4	4.4	4.4	4.4	4.4	22	21.4	18.4	21.4	34.4	21.4	63	54	63	64	63
1SV18EE012	12	6	18	10	10	20	12	7	19	4	4	4	4	4	10	4.2	4.2	4.2	4.2	4.2	21	20.2	14.2	18.2	30.2	15.2	59	42	54	56	45
1SV19EE400	13	10	23	12	13	25	13	17	30	4	4	4	4	4	10	4.2	4.2	4.2	4.2	4.2	21	21.2	18.2	20.2	34.2	25.2	62	54	59	63	74
1SV19EE401	12	14	26	13	15	28	14	16	30	4	4	4	4	4	10	4.2	4.2	4.2	4.2	4.2	21	20.2	22.2	21.2	37.2	24.2	59	65	62	69	71
1SV19EE402	14	16	30	11	19	30	14	16	30	4	4	4	4	4	10	5.2	5.2	5.2	5.2	5.2	26	23.2	25.2	20.2	42.2	25.2	68	74	59	78	74
1SV19EE403	12	11	23	12	14	26	12	17	29	4	4	4	4	4	10	4.2	4.2	4.2	4.2	4.2	21	20.2	19.2	20.2	34.2	25.2	59	56	59	63	74
1SV19EE404	14	11	25	11	13	24	12	17	29	4	4	4	4	4	10	4	4	4	4	4	20	22	19	19	33	25	65	56	56	61	74
1SV19EE405	13	14	27	12	13	25	13	16	29	4	4	4	4	4	10	4	4	4	4	4	20	21	22	20	34	24	62	65	59	63	71
TOTAL	231	192	423	228	217	445	230	249	479	72	72	72	72	72	180	83.2	83.2	83.2	83.2	83.2	416	386.2	347.2	383.2	602.2	404.2	1135.882	1021.176	1127.059	1115.185	1169.824
Total students	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
Average	12.8333333	10.66667	23.5	12.66667	12.05556	24.72222	12.77778	13.83333	26.61111	4	4	4	4	4	10	4.622222	4.622222	4.622222	4.622222	4.622222	23.11111	21.45556	19.28889	21.28889	33.45556	22.45556	63.1	56.7	62.6	62.0	65.0

18EE42 PGE 2019-2020

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

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGG

SUBJECT	Transmission & Distribution	SUBJECT CODE	18EE43

COURSE OUTCOME

CO1	Explain transmission and distribution scheme, identify the importance of different transmission systems and types of insulators.
CO2	Analyze and compute the parameters of the transmission line for different configurations.
CO3	Assess the performance of overhead lines.
CO4	Interpret corona, explain the use of underground cables.
CO5	Classify different types of distribution systems; examine its quality & reliability

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.

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COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY				
FACULTY NAME	TANUJA K S				
BRANCH	EEE	ACADEMIC YEAR	2020-21		
COURSE	B.E	SEMESTER	IV	SECTION	EEE
SUBJECT	TRANSMISSION & DISTRIBUTION			SUBJECT CODE	18EE43

CO & PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
	1	2	3	4	5	6	7	8	9	10	11	12
CO1	2	2	-	-	-	-	-	-	-	-	-	2
CO2	2	3	-	-	-	-	-	-	-	-	-	-
CO3	2	3	-	-	-	-	-	-	-	-	-	-
CO4	2	3	-	-	-	2	3	-	-	-	-	-
CO5	2	3	-	-	-	-	-	-	-	-	-	-
AVERAGE	2	2.8	-	-	-	2	3	-	-	-	-	2
OVERALL MAPPING OF SUBJECT												2.36

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	74.52	1.49	2.08										1.49
CO2	27.14	0.54	0.75										
CO3	41.95	0.83	0.83										
CO4	65.51	1.31	1.83				1.31	1.96					
CO5	66.85	1.33	1.87										
AVERAGE	55.19	1.1	1.47				1.31	1.96					1.49
FINAL ATTAINMENT LEVEL													1.46

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Staff Name : Tanuja K.S

Academic year	2020-21		SEM	4		Total strength			19		Subject		TRANSMISSION AND DISTRIBUTION					Subject Code	18EE43								
SEM:7 SEC: E&E	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				
USN	CO1	TOTAL	CO2	CO3	TOTAL	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	CO1=12	CO2	CO3	CO4	CO5	CO1=29	CO2=44	CO3=29	CO4=29	CO5=29	CO1	CO2	CO3	CO4	CO5
1SV18EE001	17	17	4	4	8	12	13	25	2	2	2	2	2	3.8	3.8	3.8	3.8	3.8	22.8	9.8	9.8	17.8	16.8	78.62069	22.27273	33.7931	61.37931	64.82759
1SV19EE001	14	14	7	8	15	14	14	28	2	2	2	2	2	4.6	4.6	4.6	4.6	4.6	20.6	13.6	14.6	20.6	20.6	71.03448	30.90909	50.34483	71.03448	71.03448
1SV19EE002	16	16	3	2	5	11	11	22	2	2	2	2	2	3.4	3.4	3.4	3.4	3.4	21.4	8.4	7.4	16.4	16.4	73.7931	19.09091	25.51724	56.55172	56.55172
1SV19EE005	18	18	6	6	12	12	12	24	2	2	2	2	2	5.8	5.8	5.8	5.8	5.8	25.8	13.8	13.8	19.8	19.8	88.96552	31.36364	47.58621	68.27586	68.27586
1SV19EE006	6	6	4	5	9	10	10	20	2	2	2	2	2	3.6	3.6	3.6	3.6	3.6	11.6	9.6	10.6	15.6	15.6	40	21.81818	36.55172	53.7931	53.7931
1SV19EE007	17	17	8	9	17	12	15	27	2	2	2	2	2	5.8	5.8	5.8	5.8	5.8	24.8	15.8	16.8	19.8	22.8	85.51724	35.90909	57.93103	68.27586	78.62069
1SV19EE008	16	16	4	4	8	20	20	40	2	2	2	2	2	3.8	3.8	3.8	3.8	3.8	21.8	9.8	9.8	25.8	25.8	75.17241	22.27273	33.7931	88.96552	88.96552
1SV19EE009	16	16	3	3	6	10	10	20	2	2	2	2	2	3.8	3.8	3.8	3.8	3.8	21.8	8.8	8.8	15.8	15.8	75.17241	20	30.34483	54.48276	54.48276
1SV19EE011	19	19	8	9	17	12	16	28	2	2	2	2	2	5.8	5.8	5.8	5.8	5.8	26.8	15.8	16.8	19.8	23.8	92.41379	35.90909	57.93103	68.27586	82.06897
1SV19EE012	12	12	7	8	15	11	11	22	2	2	2	2	2	3.8	3.8	3.8	3.8	3.8	17.8	12.8	13.8	16.8	16.8	61.37931	29.09091	47.58621	57.93103	57.93103
1SV19EE013	18	18	8	8	16	12	12	24	2	2	2	2	2	3.2	3.2	3.2	3.2	3.2	23.2	13.2	13.2	17.2	17.2	80	30	45.51724	59.31034	59.31034
1SV19EE014	12	12	1	1	2	1	2	3	2	2	2	2	2	2.2	2.2	2.2	2.2	2.2	16.2	5.2	5.2	5.2	6.2	55.86207	11.81818	17.93103	17.93103	21.37931
1SV19EE016	17	17	7	7	14	12	12	24	2	2	2	2	2	3.8	3.8	3.8	3.8	3.8	22.8	12.8	12.8	17.8	17.8	78.62069	29.09091	44.13793	61.37931	61.37931
1SV19EE017	18	18	10	10	20	20	20	40	2	2	2	2	2	6.8	6.8	6.8	6.8	6.8	26.8	18.8	18.8	28.8	28.8	92.41379	42.72727	64.82759	99.31034	99.31034
1SV19EE020	13	13	7	7	14	15	14	29	2	2	2	2	2	4.8	4.8	4.8	4.8	4.8	19.8	13.8	13.8	21.8	20.8	68.27586	31.36364	47.58621	75.17241	71.72414
1SV20EE400	13	13	4	4	8	15	12	27	2	2	2	2	2	4.6	4.6	4.6	4.6	4.6	19.6	10.6	10.6	21.6	18.6	67.58621	24.09091	36.55172	74.48276	64.13793
1SV20EE401	18	18	3	2	5	15	17	32	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	24.2	9.2	8.2	21.2	23.2	83.44828	20.90909	28.27586	73.10345	80
1SV20EE402	15	15	7	8	15	14	14	28	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	21.2	13.2	14.2	23.2	20.2	73.10345	30	48.96552	69.65517	69.65517
																			21.61111	11.94444	12.16667	19	19.38889	74.52107	27.14646	41.95402	65.51724	66.85824

PRINCIPAL

Head of the Department
Electrical & Electronics Engineering
Shridevi Institute of Engineering & Technology
TUMKUR-572106.

DEPARTMENT OF EEE

SUBJECT	ELECTRIC MOTORS	SUBJECT CODE	18EE44

COURSE OUTCOME

CO1	Explain the construction, operation and classification of DC Motor, AC motor and Special purpose motors
CO2	Describe the performance characteristics & applications of Electric motors.
CO3	Demonstrate and explain the methods of testing of DC machines and determine losses and Efficiency
CO4	Control the speed of DC motor and induction motor.
CO5	Explain the starting methods, equivalent circuit and phasor diagrams, torque angle, effect of change in excitation and change in load, hunting and damping of synchronous motors

PROGRAM OUTCOME

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

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PRINCIPAL
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COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	UMABAI											
BRANCH	EEE			ACADEMIC YEAR		2019-2020						
COURSE	B.E	SEMESTER	IV	SECTION								
SUBJECT	ELECTRIC MOTORS					SUBJECT CODE	18EE44					

CO & PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3	2			2	2	1	1	1		1
CO2	2	2	2			2	1	1	1	1		1
CO3	3	2	2			2	2	1	1	1		1
CO4	2	2	2			2	2	1	1	1		1
CO5	3	2	2			2	1	1	1	1		1
AVERAGE	2.6	2.2	2			2	1.6	1	1	1		1
OVERALL MAPPING OF SUBJECT												1.6

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	63.6	1.89	1.89	1.26			1.26	0.63	0.63	0.63	0.63		0.63
CO2	59.5	1.19	1.19	1.19			1.19	0.59	0.59	0.59	0.59		0.59
CO3	63.7	1.91	1.27	1.27			1.27	1.27	0.63	0.63	0.63		0.63
CO4	62.4	1.24	1.24	1.24			1.24	0.62	0.62	0.62	0.62		0.62
CO5	63.7	1.91	1.27	1.27			1.27	0.63	0.63	0.63	0.63		0.63
AVERAGE	62.5	1.62	1.37	1.24			1.24	0.74	0.62	0.62	0.62		0.62
FINAL ATTAINMENT LEVEL													0.965

B. H R
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Shridevi Institute of Engineering & Tec.
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SEM: IV, EEE	IA TEST 1			IA TEST 2			IA TEST 3			Assignment						SEE						TOTAL					Average				
USN	CO1	CO2	TOTAL	CO3	CO4	TOTAL	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	TOTAL	CO1(34)	CO2(34	CO3(34)	CO4(54)	CO5(34)	CO1	CO2	CO3	CO4	CO5
1SV17EE006	16	14	30	13	17	30	14	16	30	4	4	4	4	4	20	6.2	6.2	6.2	6.2	6.2	31	26.2	24.2	23.2	41.2	26.2	77	71	68	76	77
1SV17EE012	10	13	23	10	15	25	12	15	27	4	4	4	4	4	20	3.6	3.6	3.6	3.6	3.6	18	17.6	20.6	17.6	34.6	22.6	52	61	52	64	66
1SV18EE002	9	11	20	6	12	18	8	17	25	4	4	4	4	4	20	4.6	4.6	4.6	4.6	4.6	23	17.6	19.6	14.6	28.6	25.6	52	58	43	53	75
1SV18EE003	22	8	30	20	10	30	15	15	30	4	4	4	4	4	20	5.2	5.2	5.2	5.2	5.2	26	31.2	17.2	29.2	34.2	24.2	92	51	86	63	71
1SV18EE004	9	10	19	9	7	16	11	8	19	4	4	4	4	4	20	5	5	5	5	5	25	18	19	18	27	17	53	56	53	50	50
1SV18EE005	10	9	19	10	11	21	13	10	23	4	4	4	4	4	20	4.8	4.8	4.8	4.8	4.8	24	18.8	17.8	18.8	32.8	18,8	55	52	55	61	55
1SV18EE006	20	10	30	18	12	30	20	10	30	4	4	4	4	4	20	5.8	5.8	5.8	5.8	5.8	29	29.8	19.8	27.8	41.8	19.8	88	58	82	77	58
1SV18EE007	15	10	25	13	14	27	19	10	29	4	4	4	4	4	20	5.2	5.2	5.2	5.2	5.2	26	24.2	19.2	22.2	42.2	19.2	71	56	65	78	56
1SV18EE008	12	15	27	18	7	25	16	13	29	4	4	4	4	4	20	4.2	4.2	4.2	4.2	4.2	21	20.2	23.2	26.2	31.2	21.2	59	68	77	58	62
1SV18EE009	9	9	18	12	8	20	10	12	22	4	4	4	4	4	20	4.2	4.2	4.2	4.2	4.2	21	17.2	17.2	20.2	26.2	20.2	51	51	59	49	59
1SV18EE011	11	9	20	15	13	28	13	14	27	4	4	4	4	4	20	4.4	4.4	4.4	4.4	4.4	22	19.4	17.4	23.4	34.4	22.4	57	51	69	64	66
1SV18EE012	8	10	18	9	11	20	8	14	22	4	4	4	4	4	20	4.2	4.2	4.2	4.2	4.2	21	16.2	18.2	17.2	27.2	22.2	48	54	51	50	65
1SV19EE400	12	15	27	13	12	25	11	18	29	4	4	4	4	4	20	4.2	4.2	4.2	4.2	4.2	21	20.2	23.2	21.2	31.2	26.2	59	68	62	58	77
1SV19EE401	13	15	28	17	9	26	17	13	30	4	4	4	4	4	20	4.2	4.2	4.2	4.2	4.2	21	21.2	23.2	25.2	34.2	21.2	62	68	74	63	62
1SV19EE402	17	11	28	18	12	30	15	11	26	4	4	4	4	4	20	5.2	5.2	5.2	5.2	5.2	26	26.2	20.2	27.2	36.2	20.2	77	59	80	67	59
1SV19EE403	15	8	23	13	12	25	11	16	27	4	4	4	4	4	20	4.2	4.2	4.2	4.2	4.2	21	23.2	16.2	21.2	31.2	24.2	68	48	62	58	71
1SV19EE404	12	17	29	10	14	24	13	12	25	4	4	4	4	4	20	4	4	4	4	4	20	20	25	18	35	20	59	74	53	65	59
1SV19EE405	14	15	29	11	14	25	16	11	27	4	4	4	4	4	20	4	4	4	4	4	20	22	23	19	38	19	65	68	56	70	56
TOTAL	234	209	443	235	210	445	242	235	477	72	72	72	72	72	360	83	83.2	83.2	83.2	83.2	416	389.2	364.2	390.2	607.2	390.2	1145	1071	1148	1124	1148
Total students	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
Average	13	11.61	24.611	13.06	11.7	24.722	13.44	13.1	26.5	4	4	4	4	4	20	4.6	4.62	4.62	4.62	4.62	23.11	21.622	20.23	21.678	33.733	21.678	63.6	59.5	63.76	62.46914	63.75817

ELECTRIC 18EE44
2019-20

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

DEPARTMENT OF EEE

SUBJECT	ELECTROMAGNETIC FIELD THEORY	SUBJECT CODE	18EE45

COURSE OUTCOME

CO1	Use different coordinate systems, Coulomb's Law and Gauss Law for the evaluation of electric fields produced by different charge configurations.
CO2	Calculate the energy and potential due to a system of charges & Explain the behavior of electric field across a boundary conditions
CO3	Explain the Poisson's, Laplace equations and behavior of steady magnetic fields.
CO4	Explain the behavior of magnetic fields and magnetic materials.
CO5	Asses time varying fields and propagation of waves in different media.

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.

Head of the Department
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PRINCIPAL
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COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY				
FACULTY NAME	RAJESH KUMAR V K				
BRANCH	EEE	ACADEMIC YEAR	2019-20		
COURSE	B.E	SEMESTER	IV	SECTION	
SUBJECT		SUBJECT CODE	18EE45		

CO & PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	
CO1	3	2	-	-	-	-	-	-	-	-	-	-	
CO2	3	2	-	-	-	-	-	-	-	-	-	-	
CO3	2	3	-	-	-	-	-	-	-	-	-	-	
CO4	2	3	-	-	-	-	-	-	-	-	-	-	
CO5	2	3	-	-	-	-	-	-	-	-	-	-	
AVERAGE	2.4	2.6	-	-	-	-	-	-	-	-	-	-	-
OVERALL MAPPING OF SUBJECT												2.5	

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	52.19	1.56	1.04										
CO2	64.28	1.92	1.28										
CO3	52.03	1.56	1.04										
CO4	32.76	0.65	0.98										
CO5	67.39	1.34	2.02										
AVERAGE	53.73	1.40	1.272										
FINAL ATTAINMENT LEVEL													1.33

G. U Rao
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Shridevi Institute of Engineering & Technology
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SEM: IV, EEE	IA TEST 1			IA TEST 2			IA TEST 3			Assignment						SEE						Total					Average				
USN	CO1	CO2	TOTAL	CO3	CO4	TOTAL	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	TOTAL	CO1(34	CO2(34	CO3(34	CO4(54)	CO5(34	CO1(34	CO2(34	CO3(34)	CO4(54)	CO5(34)
1SV17EE006	12	17	**29**	11	19	**30**	12	19	**31**	2	2	2	2	2	10	6.2	6.2	6.2	6.2	6.2	**31**	20.2	25.2	20.2	20.2	27.2	0.59	0.74	0.59	0.37	0.80
1SV17EE012	14	14	**28**	14	15	**29**	14	16	**30**	2	2	2	2	2	10	3.6	3.6	3.6	3.6	3.6	**18**	19.6	19.6	19.6	19.6	21.6	0.58	0.58	0.58	0.36	0.64
1SV18EE002	10	13	**23**	13	11	**24**	13	12	**25**	2	2	2	2	2	10	4.2	4.2	4.2	4.2	4.2	**21**	16.2	19.2	19.2	19.2	18.2	0.48	0.56	0.56	0.36	0.54
1SV18EE003	9	20	**29**	10	20	**30**	10	21	**31**	2	2	2	2	2	10	5.2	5.2	5.2	5.2	5.2	**26**	16.2	27.2	17.2	17.2	28.2	0.48	0.80	0.51	0.32	0.83
1SV18EE004	7	13	**20**	9	10	**19**	14	7	**21**	2	2	2	2	2	10	4.4	4.4	4.4	4.4	4.4	**22**	13.4	19.4	20.4	20.4	13.4	0.39	0.57	0.60	0.38	0.39
1SV18EE005	12	9	**21**	7	12	**19**	10	10	**20**	2	2	2	2	2	10	4.8	4.8	4.8	4.8	4.8	**24**	18.8	15.8	16.8	16.8	16.8	0.55	0.46	0.49	0.31	0.49
1SV18EE006	13	16	**29**	8	23	**31**	9	21	**30**	2	2	2	2	2	10	5.8	5.8	5.8	5.8	5.8	**29**	20.8	23.8	16.8	16.8	28.8	0.61	0.70	0.49	0.31	0.85
1SV18EE007	14	14	**28**	10	19	**29**	7	20	**27**	2	2	2	2	2	10	4.2	4.2	4.2	4.2	4.2	**21**	20.2	20.2	13.2	13.2	26.2	0.59	0.59	0.39	0.24	0.77
1SV18EE008	10	14	**24**	13	12	**25**	8	18	**26**	2	2	2	2	2	10	4.2	4.2	4.2	4.2	4.2	**21**	16.2	20.2	14.2	14.2	24.2	0.48	0.59	0.42	0.26	0.71
1SV18EE009	12	10	**22**	10	13	**23**	11	13	**24**	2	2	2	2	2	10	3.8	3.8	3.8	3.8	3.8	**19**	17.8	15.8	16.8	16.8	18.8	0.52	0.46	0.49	0.31	0.55
1SV18EE011	14	16	**30**	11	18	**29**	13	18	**31**	2	2	2	2	2	10	4.4	4.4	4.4	4.4	4.4	**22**	20.4	22.4	19.4	19.4	24.4	0.60	0.66	0.57	0.36	0.72
1SV18EE012	9	13	**22**	12	11	**23**	14	10	**24**	2	2	2	2	2	10	3.8	3.8	3.8	3.8	3.8	**19**	14.8	18.8	19.8	19.8	15.8	0.44	0.55	0.58	0.37	0.46
1SV19EE400	10	17	**27**	14	14	**28**	11	18	**29**	2	2	2	2	2	10	4.2	4.2	4.2	4.2	4.2	**21**	16.2	23.2	17.2	17.2	24.2	0.48	0.68	0.51	0.32	0.71
1SV19EE401	11	19	**30**	10	21	**31**	10	19	**29**	2	2	2	2	2	10	4.2	4.2	4.2	4.2	4.2	**21**	17.2	25.2	16.2	16.2	25.2	0.51	0.74	0.48	0.30	0.74
1SV19EE402	13	16	**29**	13	17	**30**	12	19	**31**	2	2	2	2	2	10	5.2	5.2	5.2	5.2	5.2	**26**	20.2	23.2	19.2	19.2	26.2	0.59	0.68	0.56	0.36	0.77
1SV19EE403	14	17	**31**	12	17	**29**	10	20	**30**	2	2	2	2	2	10	4.2	4.2	4.2	4.2	4.2	**21**	20.2	23.2	16.2	16.2	26.2	0.59	0.68	0.48	0.30	0.77
1SV19EE404	9	19	**28**	12	17	**29**	14	16	**30**	2	2	2	2	2	10	4	4	4	4	4	**20**	15	25	20	20	22	0.44	0.74	0.59	0.37	0.65
1SV19EE405	10	20	**30**	10	18	**28**	10	19	**29**	2	2	2	2	2	10	4	4	4	4	4	**20**	16	26	16	16	25	0.47	0.76	0.47	0.30	0.74
TOTAL	203	277	480	199	287	486	202	296	498	36	36	36	36	36	180	80.4	80.4	80.4	80.4	80.4	402	319.4	393.4	318.4	318.4	412.4	9.394	11.57	9.3647	5.8963	12.12941
Total students	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
Aveargе	11.278	11.278	11.278	11.28	11.278	11.278	11.278	11.28	11.28	11.28	11.28	11.28	11.28	11.3	11.28	11.3	11.3	11.3	11.28	11.3	11.3	11.28	11.28	11.28	11.278	11.28	52.19	64.28	52.03	32.76	67.39

18EE45 2019-20

Head of the Department
Electrical & Electronics Engineering
Shridevi Institute of Engineering & Technology
TUMKUR-572106.

PRINCIPAL
SIET, TUMKUR

DEPARTMENT OF EEE

SUBJECT	OPERATIONAL AMPLIFIERS & LINEAR ICS	SUBJECT CODE	18EE46

COURSE OUTCOME

CO1	Describe the characteristics of ideal and practical operational amplifier.
CO2	Design filters and signal generators using linear ICs.
CO3	Demonstrate the application of Linear ICs as comparators and rectifiers.
CO4	Analyze voltage regulators for given specification using op-amp and IC voltage regulators.
CO5	Summarize the basics of PLL and Timer.

PROGRAM OUTCOME

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.

G. H Rao
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Shridevi Institute of Engineering & Technology
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PRINCIPAL
SIET., TUMAKURU

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	RAJESH KUMAR V											
BRANCH	EEE			ACADEMIC YEAR			2019-2020					
COURSE	B.E	SEMESTER	IV	SECTION								
SUBJECT	OPERATIONAL AMPLIFIERS & LINEAR ICS			SUBJECT CODE			18EE46					

CO & PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	2	-	-	-	-	-	-	-	-	-	-
CO2	2	3	2	-	-	-	-	-	-	-	-	-
CO3	2	3	-	-	-	-	-	-	-	-	-	-
CO4	2	3	-	-	-	-	-	-	-	-	-	-
CO5	3	2	-	-	-	-	-	-	-	-	-	-
AVERAGE	2.4	2.6	2	-	-	-	-	-	-	-	-	-
OVERALL MAPPING OF SUBJECT												2.05

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	52.22	1.04	1.04	-	-	-	-	-	-	-	-	-	-
CO2	62.84	1.25	1.88	1.25	-	-	-	-	-	-	-	-	-
CO3	51.24	1.02	1.53	-	-	-	-	-	-	-	-	-	-
CO4	31.44	0.62	0.94	-	-	-	-	-	-	-	-	-	-
CO5	67.25	2.01	1.34	-	-	-	-	-	-	-	-	-	-
AVERAGE	52.99	1.18	1.41	1.25	-	-	-	-	-	-	-	-	-
FINAL ATTAINMENT LEVEL													1.28

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TUMKUR-572106.

PRINCIPAL
SIET, TUMAKURU

STAFF NAME: RAJESH KUMAR J

Academic year	2019-20			SEM	4		Total strength			18		Subject	OPERATIONAL AMPLIFIER AND LINEAR IC'S			Subject Code	18EE46											
SEM: V, EEE	IA TEST 1			IA TEST 2			IA TEST 3			Assignment						SEE						Total					Average				
USN	CO1	CO2	TOTAL	CO3	CO4	TOTAL	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	TOTAL	CO1(34)	CO2(34)	CO3(34)	CO4(54)	CO5(34)	CO1(34)	CO2(34)	CO3(34)	CO4(54)	CO5(34)
1SV17EE006	12	17	29	10	20	30	11	20	31	2	2	2	2	2	10	6.2	6.2	6.2	6.2	6.2	31	20.2	25.2	18.2	19.2	28.2	0.59	0.74	0.54	0.36	0.83
1SV17EE012	14	13	27	12	17	29	14	14	28	2	2	2	2	2	10	3.6	3.6	3.6	3.6	3.6	18	19.6	18.6	17.6	19.6	19.6	0.58	0.55	0.52	0.36	0.58
1SV18EE002	13	11	24	14	9	23	13	12	25	2	2	2	2	2	10	4.2	4.2	4.2	4.2	4.2	21	19.2	17.2	20.2	19.2	18.2	0.56	0.51	0.59	0.36	0.54
1SV18EE003	11	15	26	10	18	28	12	15	27	2	2	2	2	2	10	5.6	5.6	5.6	5.6	5.6	26	18.6	22.6	17.6	19.6	22.6	0.55	0.66	0.52	0.36	0.66
1SV18EE004	10	10	20	9	13	22	14	7	21	2	2	2	2	2	10	4.4	4.4	4.4	4.4	4.4	22	16.4	16.4	15.4	20.4	13.4	0.48	0.48	0.45	0.38	0.39
1SV18EE005	9	12	21	7	13	20	12	10	22	2	2	2	2	2	10	4.8	4.8	4.8	4.8	4.8	24	15.8	18.8	13.8	18.8	16.8	0.46	0.55	0.41	0.35	0.49
1SV18EE006	7	19	26	8	20	28	10	17	27	2	2	2	2	2	10	5.8	5.8	5.8	5.8	5.8	29	14.8	26.8	15.8	17.8	24.8	0.44	0.79	0.46	0.33	0.73
1SV18EE007	8	19	27	11	17	28	9	20	29	2	2	2	2	2	10	4.2	4.2	4.2	4.2	4.2	21	14.2	25.2	17.2	15.2	26.2	0.42	0.74	0.51	0.28	0.77
1SV18EE008	11	17	28	12	15	27	7	19	26	2	2	2	2	2	10	4.2	4.2	4.2	4.2	4.2	21	17.2	23.2	18.2	13.2	25.2	0.51	0.68	0.54	0.24	0.74
1SV18EE009	12	8	20	13	8	21	8	11	19	2	2	2	2	2	10	3.8	3.8	3.8	3.8	3.8	19	17.8	13.8	18.8	13.8	16.8	0.52	0.41	0.55	0.26	0.49
1SV18EE011	14	15	29	8	22	30	11	21	32	2	2	2	2	2	10	4.2	4.2	4.2	4.2	4.2	21	20.2	21.2	14.2	17.2	27.2	0.59	0.62	0.42	0.32	0.80
1SV18EE012	10	8	18	14	5	19	10	11	21	2	2	2	2	2	10	3.8	3.8	3.8	3.8	3.8	19	15.8	13.8	19.8	15.8	16.8	0.46	0.41	0.58	0.29	0.49
1SV19EE400	13	15	28	10	19	29	12	18	30	2	2	2	2	2	10	4.2	4.2	4.2	4.2	4.2	21	19.2	21.2	16.2	18.2	24.2	0.56	0.62	0.48	0.34	0.71
1SV19EE401	13	16	29	11	19	30	14	17	31	2	2	2	2	2	10	4.2	4.2	4.2	4.2	4.2	21	19.2	22.2	17.2	20.2	23.2	0.56	0.65	0.51	0.37	0.68
1SV19EE402	12	19	31	12	17	29	9	21	30	2	2	2	2	2	10	5.2	5.2	5.2	5.2	5.2	26	19.2	26.2	19.2	16.2	28.2	0.56	0.77	0.56	0.30	0.83
1SV19EE403	10	20	30	14	17	31	12	17	29	2	2	2	2	2	10	4.2	4.2	4.2	4.2	4.2	21	16.2	26.2	20.2	18.2	23.2	0.48	0.77	0.59	0.34	0.68
1SV19EE404	12	18	30	10	18	28	11	18	29	2	2	2	2	2	10	4	4	4	4	4	20	18	24	16	17	24	0.53	0.71	0.47	0.31	0.71
1SV19EE405	12	16	28	12	18	30		27	27	2	2	2	2	2	10	4	4	4	4	4	20	18	22	18	6	33	0.53	0.65	0.53	0.11	0.97
TOTAL	203	268	471	197	285	482	189	295	484	36	36	36	36	36	180	80.6	80.6	80.6	80.6	80.6	401	319.6	384.6	313.6	305.6	411.6	9.4	11.31176	9.223529	5.659259	12.10588
Total students	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
Avearge	11.27778	14.88889	26.16667	10.94444	15.83333	26.77778	10.5	16.38889	26.88889	2	2	2	2	2	10	4.477778	4.477778	4.477778	4.477778	4.477778	22.27778	17.755556	21.366667	17.42222	16.97778	22.86667	52.22	62.84	51.24	31.44	67.25

Head of the Department
Electrical & Electronics Engineering
Shridevi Institute of Engineering & Technology
TUMKUR-572106.

PRINCIPAL
SIET, TUMAKURU

DEPARTMENT OF EEE

SUBJECT	CONTROL SYSTEM	SUBJECT CODE	17EE61

COURSE OUTCOME

CO1	Analyze and model electrical and mechanical system using analogous
CO2	Formulate transfer functions using block diagram and signal flow graphs.
CO3	Analyze the stability of control system, ability to determine transient and steady state time response.
CO4	Illustrate the performance of a given system in time and frequency domains, stability analysis using Root locus and Bode plots
CO5	Discuss stability analysis using Nyquist plots, Design controller and compensator for a given specification

PROGRAM OUTCOME

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

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PRINCIPAL
SIET., TUMAKURU

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	TANUJA.K.S											
BRANCH	EEE			ACADEMIC YEAR			2019-20					
COURSE	B.E	SEMESTER	VI	SECTION			EEE					
SUBJECT	CONTROL SYSTEM					SUBJECT CODE	17EE61					

CO & PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3	-	-	-	-	-	-	-	-	-	-
CO2	3	-	-	-	-	-	-	-	-	-	-	-
CO3	2	3	-	-	-	-	-	-	-	-	-	-
CO4	3	3	2	-	-	-	-	-	-	-	-	-
CO5	2	2	3	-	-	-	-	-	-	-	-	-
AVERAGE	2.6	2.75	2.5	-	-	-	-	-	-	-	-	-
OVERALL MAPPING OF SUBJECT												2.61

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	64.31	1.92	1.92										
CO2	72.07	2.16											
CO3	69.48	1.38	2.08										
CO4	93.09	2.79	2.79	1.86									
CO5	86.72	1.73	1.73	2.6									
AVERAGE	77.13	1.99	2.13	2.23									
FINAL ATTAINMENT LEVEL													2.11

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SEM: VI, EEE	IA TEST 1			IA TEST 2			IA TEST 3			Assignment						SEEmegha						TOTAL					Average				
USN	CO1	CO2	TOTAL	CO3	CO4	TOTAL	CO4	CO5	TOTA	CO1	CO2	CO3	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5
1sv17EE002	10	10	20	10	11	21	10	12	22	2	2	2	2	2	10	4.8	4.8	4.8	4.8	4.8	24	16.8	16.8	16.8	27.8	18.8	0.58	0.58	0.58	0.82	0.65
1sv17EE004	9	10	29	15	15	30	10	21	31	2	2	2	2	2	10	6.8	6.8	6.8	6.8	6.8	34	17.8	18.8	23.8	33.8	29.8	0.61	0.65	0.82	0.99	1.03
1sv17EE005	12	17	29	15	15	30	10	21	31	2	2	2	2	2	10	7	7	7	7	7	35	21	26	24	34	30	0.72	0.90	0.83	1.00	1.03
1sv17EE009	10	19	29	15	15	30	10	21	31	2	2	2	2	2	10	6	6	6	6	6	30	18	27	23	33	29	0.62	0.93	0.79	0.97	1.00
1sv17EE010	10	19	29	15	15	30	10	21	31	2	2	2	2	2	10	5.6	5.6	5.6	5.6	5.6	28	17.6	26.6	22.6	32.6	28.6	0.61	0.92	0.78	0.96	0.99
1sv18EE400	12	10	22	10	13	23	10	14	24	2	2	2	2	2	10	5	5	5	5	5	25	19	17	17	30	21	0.66	0.59	0.59	0.88	0.72
1sv18EE402	10	11	21	10	12	22	10	13	23	2	2	2	2	2	10	4.8	4.8	4.8	4.8	4.8	24	16.8	17.8	16.8	28.8	19.8	0.58	0.61	0.58	0.85	0.68
1sv18EE403	15	10	25	10	16	26	10	17	27	2	2	2	2	2	10	5.2	5.2	5.2	5.2	5.2	26	22.2	17.2	17.2	33.2	24.2	0.77	0.59	0.59	0.98	0.83
TOTAL	88	106	204	100	112	212	80	140	220	16	16	16	16	16	80	45.2	45.2	45.2	45.2	45.2	226	149.2	167.2	161.2	253.2	201.2	5.14	5.77	5.56	7.45	6.94
Total students	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8.00	8.00	8.00	8.00	8.00
Average	11	13.25	25.5	12.5	14	26.5	10	17.5	28	2	2	2	2	2	10	5.65	5.65	5.65	5.65	5.65	28.25	18.65	20.9	20.15	31.65	25.15	64.31	72.07	69.48	93.09	86.72

2019-20 CONTROL SYSTEM 17EE61

PRINCIPAL
SIET., TUMAKURU.

Electrical & Electronics Engineering
Shridevi Institute of Engineering & Technology
TUMKUR-572106.

DEPARTMENT OF EEE

SUBJECT	POWER SYSTEM ANALYSIS 1	SUBJECT CODE	17EE62

COURSE OUTCOME

CO1	Model the power system components & construct per unit impedance diagram of power system.
CO2	Analyze three phase symmetrical faults on power system.
CO3	Compute unbalanced phasor in terms of sequence components and vice versa, also develop sequence networks.
CO4	Analyze various unsymmetrical faults on power system.
CO5	Examine dynamics of synchronous machine and determine the power system stability

PROGRAM OUTCOME

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.

G.H Ram

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PRINCIPAL
SIET., TUMAKURU

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	UMABAI											
BRANCH	EEE			ACADEMIC YEAR			2019-2020					
COURSE	B.E	SEMESTER	VI	SECTION								
SUBJECT	POWER SYSTEM ANALYSIS 1					SUBJECT CODE	17EE62					

CO & PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3	-	-	-	-	1	-	-	-	-	-
CO2	3	3	-	-	-	-	1	-	-	-	-	-
CO3	2	3	-	-	-	1	-	-	-	-	-	-
CO4	2	3	-	3	-	1	-	-	1	-	-	2
CO5	2	3	-	3	-	1	1	-	1	-	-	2
AVERAGE	2.4	3	-	3	-	1	1	-	1	-	-	2
OVERALL MAPPING OF SUBJECT												1.92

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	69.0	2.07	2.07					0.69					
CO2	62.0	1.86	1.86					0.62					
CO3	67.5	1.35	2.02		2.02	0.67							
CO4	37.9	0.75	1.13		1.13	0.37				0.37			0.75
CO5	60.2	1.20	1.80			0.6		0.6		0.6			1.2
AVERAGE	59.32	1.44	1.77		1.57	0.54		0.63		0.48			0.975
FINAL ATTAINMENT LEVEL													1.057

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SHRIDEVI

SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

DEPARTMENT OF EEE

SUBJECT	Solar & Wind Energy	SUBJECT CODE	17EE654

COURSE OUTCOME

CO1. Discuss the importance of the role of renewable energy, the concept of energy storage and the principles of energy storage devices.

CO2. Discuss the concept of solar radiation data and solar PV system fabrication, operation of solar cell, sizing and design of PV system.

CO3. Describe the process of harnessing solar energy and its applications in heating and cooling.

CO4. Explain basic Principles of Wind Energy Conversion, collection of wind data, energy estimation and site selection

CO5. Discuss the performance of Wind-machines, energy storage, applications of Wind Energy and environmental aspects.

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.

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COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	MRS. SHWETHA T M											
BRANCH	EEE			ACADEMIC YEAR			2019-20					
COURSE	B.E	SEMESTER	VI	SECTION								
SUBJECT	Solar & Wind Energy					SUBJECT CODE	18EE654					

CO & PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	3	3			1	1					1
CO2	2	3	3			1	1					1
CO3	2	3	3			1	1					1
CO4	2	3	3			1	1					1
CO5	2	3	3			1	1					1
AVERAGE	2	3	3			1	1					1
OVERALL MAPPING OF SUBJECT												1.83

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	53.97	1.0794	1.6191	1.6191			0.5397	0.5397					0.5397
CO2	77.13	1.5426	2.3139	2.3139			0.7713	0.7713					0.7713
CO3	52.13	1.0426	1.5639	1.5639			0.5213	0.5213					0.5213
CO4	68.47	1.3694	2.0541	2.0541			0.6847	0.6847					0.6847
CO5	75.29	1.5058	2.2587	2.2587			0.7529	0.7529					0.7529
AVERAGE	65.39	1.308	1.962	1.962			0.654	0.654					0.654
FINAL ATTAINMENT LEVEL													1.199

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SEM: VI, EEE	IA TEST 1			IA TEST 2			IA TEST 3			Assignment						SEE SWE 2019-2020						TOTAL						Average				
USN	CO1	CO2	TOTAL	CO3	CO4	TOTAL	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5
1sv17EE002	14	13	27	12	14	26	13	15	28	2	2	2	2	2	10	4.8	4.8	4.8	4.8	4.8	24	20.8	19.8	18.8	33.8	21.8	61.2	58.2	55.3	82.6	64.1
1sv17EE004	11	21	32	10	19	29	13	16	29	2	2	2	2	2	10	6.8	6.8	6.8	6.8	6.8	34	19.8	29.8	18.8	40.8	24.8	58.2	87.6	55.3	79.6	72.9
1sv17EE005	10	19	29	9	20	29	14	18	32	2	2	2	2	2	10	7	7	7	7	7	35	19	28	18	43	27	55.9	82.4	52.9	79.6	79.4
1sv17EE009	13	16	29	7	25	32	12	17	29	2	2	2	2	2	10	6	6	6	6	6	30	21	24	15	45	25	61.8	70.6	44.1	83.1	73.5
1sv17EE010	11	21	32	8	21	29	10	19	29	2	2	2	2	2	10	6.2	6.2	6.2	6.2	6.2	32	19.2	29.2	16.2	39.2	27.2	56.5	85.9	47.6	72.6	80.0
1sv18EE400	10	19	29	11	16	27	9	19	28	2	2	2	2	2	10	5	5	5	5	5	25	17	26	18	32	26	50.0	76.5	52.9	59.3	76.5
1sv18EE402	7	19	26	12	13	25	7	20	27	2	2	2	2	2	10	4.8	4.8	4.8	4.8	4.8	24	13.8	25.8	18.8	26.8	26.8	40.6	75.9	55.3	48.6	78.8
1sv18EE403	9	20	29	11	17	28	11	19	30	2	2	2	2	2	10	5.2	5.2	5.2	5.2	5.2	26	16.2	27.2	18.2	35.2	26.2	47.6	80.0	53.5	41.2	77.1
TOTAL	85	148	233	80	145	225	89	143	232	16	16	16	16	16	80	45.8	45.8	45.8	45.8	45.8	230	146.8	209.8	141.8	295.8	204.8	431.8	617.1	417.1	547.8	602.4
Total students	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Average	10.63	18.50	29.13	10.00	18.13	28.13	11.13	17.88	29.00	2.00	2.00	2.00	2.00	2.00	10.00	5.73	5.73	5.73	5.73	5.73	28.75	18.35	26.23	17.73	36.98	25.60	53.97	77.13	52.13	68.47	75.29

17EE654 SWE 2019-2020

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