

COs & POs

2020-21

ODD SEMESTER



SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGG

SUBJECT	BASIC ELECTRICAL ENGINEERING	SUBJECT CODE	21ELE23
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COURSE OUTCOME

CO1	Analysis of Resistive Circuits and Solution of resistive circuits with independent sources
CO2	Two Terminal Element Relationships for inductors and capacitors and analysis of magnetic circuits.
CO3	Discuss the laws of illumination, different types of lamps, lighting schemes and design of lighting systems.
CO4	Analysis of Single Phase AC Circuits, the representation of alternating quantities and determining the power in these circuits.
CO5	Analysis of Single Phase AC Circuits, the representation of alternating quantities and determining the power in these circuits.

PROGRAM OUTCOMES

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

G. H. R.
 Head of the Department
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 TUMKUR-572106.

PRINCIPAL
 SIET., TUMAKURU.

2021-22
 odd

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	TANUJA KS											
BRANCH	EEE			ACADEMIC YEAR				2021-22				
COURSE	B.E	SEMESTER			I	SECTION			EEE			
SUBJECT	BASIC ELECTRICAL ENGINEERING					SUBJECT CODE			21ELE23			
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	3	3										
CO2	3	2										
CO3	3	2										
CO4	3	2										
CO5	3	2										
AVERAGE	3	2.2										
OVERALL MAPPING OF SUBJECT												2.6

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	62.57	1.87	1.37										
CO2	38.35	1.15	0.84										
CO3	41.16	1.23	0.90										
CO4	46.84	1.40	1.03										
CO5	46.52	1.39	1.02										
AVERAGE	47.08	1.40	1.03										
FINAL ATTAINMENT LEVEL													1.21

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Academic year		2021-22									SEM I					Total strength	Subject		BASIC ELECTRICAL ENGINEERING										Subject Code										ZIELE23					% of individual CO				
MEM/ID/ GS		IA TEST 1(30M)			IA TEST 2(30M)			IA TEST 3(30M)			Total	CO1	CO2	CO3	CO4	CO5	CO1+2	CO2	CO3	CO4	CO5	CO1+2+3	CO2+4+5	CO3+2+5	CO4+2+5	CO5+2+5	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5												
15V21C5001	6	7	13	6	6	12	7	8	15	2	2	2	2	2	2	3.8	3.8	3.8	3.8	3.8	19	18.8	11.8	12.8	13.8	65.51724	42.72727	40.68966	44.13793	47.58621																		
15V21C5002	10	10	20	10	10	20	9	10	19	2	2	2	2	2	2	7	7	7	7	7	23	25.8	19	18	19	79.81034	58.63636	65.51724	62.06897	65.51724																		
15V21C5003	8	9	17	5	5	10	5	5	10	2	2	2	2	2	2	7.4	7.4	7.4	7.4	7.4	23	19.8	9.4	9.4	9.4	72.41379	45	32.41379	32.41379	32.41379																		
15V21C5004	1	2	3	3	2	5	6	7	13	2	2	2	2	2	2	1.6	1.6	1.6	1.6	1.6	14	10.8	5.6	5.6	5.6	48.27586	24.54545	19.31034	33.10345	36.55272																		
15V21C5005	5	4	9	6	6	12	2	2	4	2	2	2	2	2	2	4.6	4.6	4.6	4.6	4.6	18	15.8	12.6	8.6	8.6	62.06897	35.90909	43.44828	29.65517	29.65517																		
15V21C5006	6	6	12	10	6	16	10	9	19	2	2	2	2	2	2	4.6	4.6	4.6	4.6	4.6	18	15.8	12.6	8.6	8.6	62.06897	35.90909	43.44828	29.65517	29.65517																		
15V21C5007	4	4	8	3	4	7	8	8	16	2	2	2	2	2	2	4.8	4.8	4.8	4.8	4.8	19	21.8	12.8	16.8	15.8	65.51724	49.54545	44.13793	57.93103	54.48276																		
15V21C5008	5	5	10	4	3	7	7	7	14	2	2	2	2	2	2	4.6	4.6	4.6	4.6	4.6	17	12.8	10.6	14.6	14.6	58.62069	29.09091	36.55172	50.34483	50.34483																		
15V21C5010	7	7	14	4	3	7	10	9	19	2	2	2	2	2	2	4.6	4.6	4.6	4.6	4.6	18	14.8	9.6	13.6	13.6	62.06897	33.63636	33.10345	46.89655	46.89655																		
15V21C5012	4	5	9	5	6	11	5	4	9	2	2	2	2	2	2	4.8	4.8	4.8	4.8	4.8	20	16.8	9.8	16.8	15.8	68.96552	38.18182	33.7931	57.93103	54.48276																		
15V21C5013	8	9	16	7	8	15	8	8	16	2	2	2	2	2	2	4.8	4.8	4.8	4.8	4.8	17	15.8	12.8	11.8	10.8	58.62069	35.90909	44.13793	40.68966	37.24138																		
15V21C5014	10	9	19	10	10	20	10	10	20	2	2	2	2	2	2	5	5	5	5	5	21	20.8	14	14	14	72.41379	47.27273	48.27586	48.27586	48.27586																		
15V21C5015	7	7	14	10	9	19	9	9	18	2	2	2	2	2	2	5.2	5.2	5.2	5.2	5.2	23	24.8	17.2	17.2	17.2	79.81034	56.36364	59.31034	59.31034	59.31034																		
15V21C5016	5	5	10	4	4	8	6	6	12	2	2	2	2	2	2	6.8	6.8	6.8	6.8	6.8	20	22.8	17.8	17.8	17.8	68.96552	51.81818	61.37931	61.37931	61.37931																		
15V21C5017	7	8	15	10	9	19	7	8	15	2	2	2	2	2	2	3.8	3.8	3.8	3.8	3.8	18	14.8	7.8	9.8	9.8	62.06897	33.63636	26.89655	33.7931	33.7931																		
15V21C5018	7	8	15	8	8	16	8	8	16	2	2	2	2	2	2	7.6	7.6	7.6	7.6	7.6	20	23.8	16.6	16.6	16.6	68.96552	54.09091	64.13793	57.24138	60.68966																		
15V21C5020	1	1	2	1	2	3	2	2	4	2	2	2	2	2	2	1.6	1.6	1.6	1.6	1.6	14	7.8	5.6	5.6	5.6	48.27586	24.54545	19.31034	33.10345	36.55272																		
15V21C5021	8	9	17	10	9	19	10	10	20	2	2	2	2	2	2	5.6	5.6	5.6	5.6	5.6	23	24.8	17.2	17.2	17.2	79.81034	56.36364	59.31034	59.31034	59.31034																		
15V21C5022	4	4	8	6	6	12	8	9	17	2	2	2	2	2	2	4.8	4.8	4.8	4.8	4.8	17	15.8	12.8	14.8	15.8	72.41379	56.36364	58.62069	62.06897	62.06897																		
15V21C5023	1	2	3	4	4	8	5	6	11	2	2	2	2	2	2	4	4	4	4	4	14	11.8	10	11	12	48.27586	26.81818	34.8276	37.93103	41.37931																		
15V21C5024	5	5	10	6	7	13	5	7	12	2	2	2	2	2	2	5.2	5.2	5.2	5.2	5.2	18	16.8	14.2	12.2	9.2	62.06897	38.18182	43.44828	36.89655	41.37931																		
15V21C5025	10	9	19	10	10	20	10	10	20	2	2	2	2	2	2	6.4	6.4	6.4	6.4	6.4	23	24.8	18.4	18.4	18.4	79.81034	56.36364	63.44828	63.44828	63.44828																		
15V21C5026	5	4	9	4	4	8	7	7	14	2	2	2	2	2	2	0.2	0.2	0.2	0.2	0.2	18	13.8	6.2	9.2	9.2	62.06897	31.36364	21.37931	31.37931	31.37931																		
15V21C5027	5	5	10	4	4	8	8	8	16	2	2	2	2	2	2	4.6	4.6	4.6	4.6	4.6	18	14.8	10.6	14.6	14.6	62.06897	33.63636	36.55172	50.34483	50.34483																		
15V21C5028	6	7	13	9	9	18	7	7	14	2	2	2	2	2	2	6	6	6	6	6	19	21.8	17	15	15	65.51724	49.54545	58.62069	51.72414	51.72414																		
15V21C5029	7	7	14	8	8	16	10	9	19	2	2	2	2	2	2	7.8	7.8	7.8	7.8	7.8	20	20.8	17.8	19.8	18.8	68.96552	47.27273	61.37931	68.27586	64.82759																		
15V21C5030	4	4	8	0	1	1	8	8	16	2	2	2	2	2	2	2	2	2	2	2	17	9.8	5	12	12	48.27586	24.54545	17.24138	41.37931	41.37931																		
15V21C5031	4	4	8	2	2	4	6	6	12	2	2	2	2	2	2	5.2	5.2	5.2	5.2	5.2	17	11.8	9.2	13.2	13.2	58.62069	22.27273	17.24138	41.37931	41.37931																		
15V21C5032	1	1	2	3	3	6	4	4	8	2	2	2	2	2	2	2.8	2.8	2.8	2.8	2.8	16	11.8	7.4	8.4	8.4	55.17241	26.81818	35.51724	38.96552	38.96552																		
15V21C5033	2	2	4	3	2	5	5	2	7	2	2	2	2	2	2	1.6	1.6	1.6	1.6	1.6	14	10.8	7.6	10.6	7.6	48.27586	24.54545	26.2069	36.55172	26.2069																		
15V21C5034	7	8	15	6	7	13	10	9	19	2	2	2	2	2	2	3.6	3.6	3.6	3.6	3.6	14	10.8	7.6	10.6	7.6	48.27586	24.54545	26.2069	36.55172	26.2069																		
15V21C5035	6	7	13	7	8	15	8	8	16	2	2	2	2	2	2	3.6	3.6	3.6	3.6	3.6	20	19.8	12.6	15.6	14.6	68.96552	45	43.44828	48.96552	48.96552																		
15V21C5036	4	4	8	5	2	7	5	5	10	2	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	19	19.8	14.2	14.2	14.2	65.51724	45	48.96552	57.93103	50.34483																		
15V21C5037	2	2	4	15	10	9	19	9	17	2	2	2	2	2	2	5.8	5.8	5.8	5.8	5.8	17	14.8	9.6	12.6	12.6	58.62069	33.63636	33.10345	43.44828	43.44828																		
15V21C5038	1	2	3	3	2	5	3	3	6	2	2	2	2	2	2	5	5	5	5	5	20	23.8	16	15	16	68.96552	54.09091	55.17241	51.72414	55.17241																		
15V21C5039	0	9	19	3	9	12	10	10	20	2	2	2	2	2	2	7.4	7.4	7.4	7.4	7.4	14	8.8	6.2	7.2	7.2	48.27586	20	21.37931	24.82759	24.82759																		
15V21C5040	5	4	9	7	6	13	7	6	13	2	2	2	2	2	2	5.5	5.5	5.5	5.5	5.5	18	16.8	14.4	14.4	14.4	72.41379	51.81818	63.44828	66.89655	66.89655																		
15V21C5041	7	6	13	7	7	14	8	9	17	2	2	2	2	2	2	6.8	6.8	6.8	6.8	6.8	20	18.8	12.6	11.6	12.6	62.06897	38.18182	43.44828	36.89655	43.44828																		
15V21C5042	1	1	2	3	2	5	5	5	10	2	2	2	2	2	2	6.8	6.8	6.8	6.8	6.8	18	18.8	15.8	16.8	17.8	68.96552	47.27273	54.48276	57.93103	61.37931																		
15V21C5043	5	5	10	5	5	10	6	5	11	2	2	2	2	2	2	4.4	4.4	4.4	4.4	4.4	16	11.8	9.4	11.4	11.4	55.17241	26.81818	32.41379	39.31034	39.31034																		
15V21C5044	8	8	16	10	9	19	9	9	18	2	2	2	2	2	2	2.2	2.2	2.2	2.2	2.2	18	15.8	9.2	10.2	9.2	62.06897	35.90909	31.37931	31.37931	31.37931																		
15V21C5045	5	4	9	0	0	0	7	7	14	2	2	2	2	2	2	5.4	5.4	5.4	5.4	5.4	21	23.8	16.4	16.4	16.4	72.41379	54.09091	56.55172	56.55172	56.55172																		
15V21C5047	8	8	16	8	8	16	10	10	20	2	2	2	2	2	2	3	3	3	3	3	19	9.8	3	10	10	62.06897	22.27273	30.44828																				

DEPARTMENT OF EEE


SUBJECT	Basic Electrical Engineering	SUBJECT CODE	21ELE13/23
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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.


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COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	UMABAI											
BRANCH	EEE			ACADEMIC YEAR				2021-2022				
COURSE	B.E	SEMESTER		I	SECTION			C & D				
SUBJECT	Basic Electrical Engineering						SUBJECT CODE		21ELE13/23			
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	62.89	2.00	1.33	0.66			0.66	0.66	0.66				0.66
CO2	65.97	2.19	2.19	1.46	0.73		0.73						0.73
CO3	53.52	1.87	1.25	0.62	0.62		0.62	0.62	0.62				0.62
CO4	62.01	1.77	1.18	1.18	0.59		0.59	0.59	0.59				0.59
CO5	55.34	1.89	0.63	1.26			1.26	0.63	0.63			0.63	0.63
AVERAGE	64.96	1.944	1.44	1.03	0.64		0.77	0.625	0.625			0.63	0.646
FINAL ATTAINMENT LEVEL													0.927

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Academic year	2021-22			SEM I			Total strength					Subject					Basic electrical engg					Subject Code					21ELE13									
	SEM I			IA TEST 1(30M)			IA TEST 2(30M)			IA TEST 3(30M)			ASSIGNMENT / QUIZ(20 M)					SEE MARKS(60)					Total Cos ATTAINMENT					% of individual CO								
	CO1	CO2	TOTAL	CO2	CO3	TOTAL	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	CO1=1	CO2	CO3	CO4	CO5	TOTAL	CO1=3	CO2=4	CO3=3	CO4=3	CO5=3	CO1	CO2	CO3	CO4	CO5						
15V21CS001	14	11	25	14	12	26	14	13	27	4	4	4	4	4	7.2	7.2	7.2	7.2	7.2	36	25.2	36.2	23.2	25.2	24.2	0.74	0.82	0.68	0.74	0.71						
15V21CS002	16	14	30	16	14	30	16	14	30	4	4	4	4	4	9.8	9.8	9.8	9.8	9.8	49	29.8	43.8	27.8	29.8	27.8	0.88	1.00	0.82	0.88	0.82						
15V21CS003	2	1	3	2	2	4	2	3	5	4	4	4	4	4	4.6	4.6	4.6	4.6	4.6	23	10.6	11.6	10.6	10.6	11.6	0.31	0.26	0.31	0.31	0.34						
15V21CS004	15	8	23	15	7	22	15	9	24	4	4	4	4	4	7.4	7.4	7.4	7.4	7.4	37	26.4	34.4	18.4	26.4	20.4	0.78	0.78	0.54	0.78	0.60						
15V21CS005	3	9	12	3	8	11	3	10	13	4	4	4	4	4	4.8	4.8	4.8	4.8	4.8	24	11.8	20.8	16.8	11.8	18.8	0.35	0.47	0.49	0.35	0.55						
15V21CS006	12	12	24	12	11	23	12	13	25	4	4	4	4	4	8.8	8.8	8.8	8.8	8.8	44	24.8	36.8	23.8	24.8	25.8	0.73	0.84	0.70	0.73	0.76						
15V21CS008	16	11	27	16	10	26	16	12	28	4	4	4	4	4	8.2	8.2	8.2	8.2	8.2	41	28.2	39.2	22.2	28.2	24.2	0.83	0.89	0.65	0.83	0.71						
15V21CS009	13	13	26	13	12	25	13	14	27	4	4	4	4	4	8.6	8.6	8.6	8.6	8.6	43	25.6	38.6	24.6	25.6	26.6	0.75	0.88	0.72	0.75	0.78						
15V21CS010	16	7	23	16	6	22	16	8	24	4	4	4	4	4	7	7	7	7	7	35	27	34	17	27	19	0.79	0.77	0.50	0.79	0.56						
15V21CS011	12	3	15	12	2	14	12	4	16	4	4	4	4	4	7	7	7	7	7	35	23	26	13	23	15	0.68	0.59	0.38	0.68	0.44						
15V21CS012	17	9	26	17	8	25	17	10	27	4	4	4	4	4	8.8	8.8	8.8	8.8	8.8	44	29.8	38.8	20.8	29.8	22.8	0.88	0.88	0.61	0.88	0.67						
15V21CS013	16	7	23	16	6	22	16	8	24	4	4	4	4	4	9	9	9	9	9	45	29	36	19	29	21	0.85	0.82	0.56	0.85	0.62						
15V21CS014	19	5	24	19	4	23	19	6	25	4	4	4	4	4	7.6	7.6	7.6	7.6	7.6	38	30.6	35.6	15.6	30.6	17.6	0.90	0.81	0.46	0.90	0.52						
15V21CS015	12	16	28	12	15	27	12	17	29	4	4	4	4	4	9.6	9.6	9.6	9.6	9.6	48	25.6	41.6	28.6	25.6	30.6	0.75	0.95	0.84	0.75	0.90						
15V21CS016	16	13	29	16	13	29	16	13	29	4	4	4	4	4	9.2	9.2	9.2	9.2	9.2	46	29.2	42.2	26.2	29.2	26.2	0.86	0.96	0.77	0.86	0.77						
15V21CS017	11	11	22	11	12	23	11	10	21	4	4	4	4	4	9.2	9.2	9.2	9.2	9.2	46	24.2	35.2	25.2	24.2	23.2	0.71	0.80	0.74	0.71	0.68						
15V21CS018	15	15	30	15	15	30	15	15	30	4	4	4	4	4	9.4	9.4	9.4	9.4	9.4	47	28.4	43.4	28.4	28.4	28.4	0.84	0.99	0.84	0.84	0.84						
15V21CS019	12	10	22	12	10	22	12	10	22	4	4	4	4	4	6.8	6.8	6.8	6.8	6.8	34	22.8	32.8	20.8	22.8	20.8	0.67	0.75	0.61	0.67	0.61						
15V21CS020	17	9	26	17	8	25	17	10	27	4	4	4	4	4	9	9	9	9	9	45	30	39	21	30	23	0.88	0.89	0.62	0.88	0.68						
15V21CS021	19	0	19	19	0	19	19	0	19	4	4	4	4	4	5	5	5	5	5	25	28	28	9	28	9	0.82	0.64	0.26	0.82	0.26						
15V21CS022	13	15	28	13	15	28	13	15	28	4	4	4	4	4	9.4	9.4	9.4	9.4	9.4	47	26.4	41.4	28.4	26.4	28.4	0.78	0.94	0.84	0.78	0.84						
15V21CS023	11	8	19	11	8	19	11	8	19	4	4	4	4	4	8.2	8.2	8.2	8.2	8.2	41	23.2	31.2	20.2	23.2	20.2	0.68	0.71	0.59	0.68	0.59						
15V21CS024	16	8	24	16	8	24	16	8	24	4	4	4	4	4	9.2	9.2	9.2	9.2	9.2	46	29.2	37.2	21.2	29.2	21.2	0.86	0.85	0.62	0.86	0.62						
15V21CS025	13	10	23	13	10	23	13	10	23	4	4	4	4	4	9.2	9.2	9.2	9.2	9.2	46	26.2	36.2	23.2	26.2	23.2	0.77	0.82	0.68	0.77	0.68						
15V21CS026	11	13	24	11	13	24	11	13	24	4	4	4	4	4	8.8	8.8	8.8	8.8	8.8	44	23.8	36.8	25.8	23.8	25.8	0.70	0.84	0.76	0.70	0.76						
15V21CS027	14	12	26	14	12	26	14	12	26	4	4	4	4	4	7.8	7.8	7.8	7.8	7.8	39	25.8	37.8	23.8	25.8	23.8	0.76	0.86	0.70	0.76	0.70						
15V21CS028	17	2	19	17	2	19	17	2	19	4	4	4	4	4	4.8	4.8	4.8	4.8	4.8	24	25.8	27.8	10.8	25.8	10.8	0.76	0.63	0.32	0.76	0.32						
15V21CS029	11	6	17	11	6	17	11	6	17	4	4	4	4	4	7	7	7	7	7	35	22	28	17	22	17	0.65	0.64	0.50	0.65	0.50						
15V21CS030	15	12	27	15	12	27	15	12	27	4	4	4	4	4	6.4	6	6	6	6	32	25.4	37	22	25	22	0.75	0.84	0.65	0.74	0.65						
15V21CS031	2	1	3	2	3	5	2	2	4	4	4	4	4	4	6.8	6.8	6.8	6.8	6.8	34	12.8	13.8	13.8	12.8	12.8	0.38	0.31	0.41	0.38	0.38						
15V21CS032	11	2	13	11	2	13	11	2	13	4	4	4	4	4	5.2	5.2	5.2	5.2	5.2	26	20.2	22.2	11.2	20.2	11.2	0.59	0.50	0.33	0.59	0.33						
15V21CS033	12	14	26	12	13	25	12	15	27	4	4	4	4	4	7.6	7.6	7.6	7.6	7.6	38	23.6	37.6	24.6	23.6	26.6	0.69	0.85	0.72	0.69	0.78						
15V21CS034	15	3	18	15	2	17	15	4	19	4	4	4	4	4	5.8	5.8	5.8	5.8	5.8	29	24.8	27.8	11.8	24.8	13.8	0.73	0.63	0.35	0.73	0.41						
15V21CS035	13	16	29	13	16	29	13	16	29	4	4	4	4	4	9.6	9.6	9.6	9.6	9.6	48	26.6	42.6	29.6	26.6	29.6	0.78	0.97	0.87	0.78	0.87						
15V21CS036	12	13	25	12	13	25	12	13	25	4	4	4	4	4	9.2	9.2	9.2	9.2	9.2	46	25.2	38.2	26.2	25.2	26.2	0.74	0.87	0.77	0.74	0.77						
15V21CS037	14	7	21	14	7	21	14	7	21	4	4	4	4	4	8.2	8.2	8.2	8.2	8.2	41	26.2	33.2	19.2	26.2	19.2	0.77	0.75	0.56	0.77	0.56						
15V21CS038	16	10	26	16	10	26	16	10	26	4	4	4	4	4	9.8	9.8	9.8	9.8	9.8	49	29.8	39.8	23.8	29.8	23.8	0.88	0.90	0.70	0.88	0.70						
15V21CS039	11	1	12	11	1	12	11	1	12	4	4	4	4	4	5.2	5.2	5.2	5.2	5.2	26	20.2	21.2	10.2	20.2	10.2	0.59	0.48	0.30	0.59	0.30						
15V21CS040	14	10	24	14	10	24	14	10	24	4	4	4	4	4	9.2	9.2	9.2	9.2	9.2	46	27.2	37.2	23.2	27.2	23.2	0.80	0.85	0.68	0.80	0.68						
15V21CS041	18	5	23	18	5	23	18	5	23	4	4	4	4	4	8.8	8.8	8.8	8.8	8.8	44	30.8	35.8	17.8	30.8	17.8	0.91	0.81	0.52	0.91	0.52						
15V21CS042	17	13	30	17	13	30	17	13	30	4	4	4	4	4	9.8	9.8	9.8	9.8	9.8	49	30.8	43.8	26.8	30.8	26.8	0.91	1.00	0.79	0.91	0.79						
15V21CS043	13	6	19	13	6	19	13	6	19	4	4	4	4	4	6.4	6.4	6.4	6.4	6.4	32	23.4	29.4	16.4	23.4	16.4	0.69	0.67	0.48	0.69	0.48						
15V21CS044	11	10	21	11	10	21	11	10	21	4	4	4	4	4	7.8	7.8	7.8	7.8	7.8	39	22.8	32.8	21.8	22.8	21.8	0.67	0.75	0.64	0.67	0.64						
15V21CS045	13	15	28	13	15	28	13	15	28	4	4	4	4	4	9.2	9.2	9.2	9.2	9.2	46	26.2	41.2	28.2	26.2	28.2	0.77	0.94	0.83	0.77	0.83						
15V21CS046	12	2	14	12	2	14	12	2	14	4	4	4	4	4	8.4	8.4	8.4	8.4	8.4	42	24.4	26.4	14.4	24.4	14.4	0.72	0.60	0.42	0.72	0.42						
15V21CS047	4	1	5	4	2	6	4	3	7	4	4	4	4	4	0	0	0	0	0	0	8	9	6	8	7	0.24	0.20	0.18	0.24	0.21						
15V21CS048	14	10	24	14	10	24	14	10	24	4	4	4	4	4	7.2	7.2	7.2	7.2	7.2	36	25.2	35.2	21.2	25.2	21.2	0.74	0.80	0.62	0.74	0.62						
15V21CS049	11	15	26	11	16	27	11	14	25	4	4	4	4	4	9.4	9.4	9.4	9.4	9.4	47	24.4	39.4	29.4	24.4	27.4	0.72	0.90	0.86	0.72	0.81						
15V21CS050	17	9	26	17	9	26	17	9	26	4	4	4	4	4	9	9	9	9	9	45	30	39	22	30	22	0.88	0.89	0.65	0.88	0.65						
15V21CS051	4																																			

1SV21CS059	15	11	26	15	11	26	15	11	26	4	4	4	4	4	9.2	9.2	9.2	9.2	9.2	46	28.2	39.2	24.2	28.2	24.2	0.83	0.89	0.71	0.83	0.71	
1SV21CS060	16	11	27	16	11	27	16	11	27	4	4	4	4	4	9.4	9.4	9.4	9.4	9.4	47	29.4	40.4	24.4	29.4	24.4	0.86	0.92	0.72	0.86	0.72	
1SV21CS061	15	6	21	15	7	22	15	5	20	4	4	4	4	4	7.8	7.8	7.8	7.8	7.8	39	26.8	32.8	18.8	26.8	16.8	0.79	0.75	0.55	0.79	0.49	
1SV21CS062	11	10	21	11	9	20	11	11	22	4	4	4	4	4	6.6	6.6	6.6	6.6	6.6	33	21.6	31.6	19.6	21.6	21.6	0.64	0.72	0.58	0.64	0.64	
1SV21CS063	13	14	27	13	14	27	13	14	27	4	4	4	4	4	8.2	8.2	8.2	8.2	8.2	41	25.2	39.2	26.2	25.2	26.2	0.74	0.89	0.77	0.74	0.77	
1SV21CS064	2	3	5	2	2	4	2	4	6	4	4	4	4	4	3.8	3.8	3.8	3.8	3.8	19	9.8	12.8	9.8	9.8	11.8	0.29	0.29	0.29	0.29	0.35	
1SV21CS065	2	2	4	2	4	6	2	3	5	4	4	4	4	4	1.2	1.2	1.2	1.2	1.2	6	7.2	9.2	9.2	7.2	8.2	0.21	0.21	0.27	0.21	0.24	
1SV21CS066	1	7	8	1	6	7	1	8	9	4	4	4	4	4	6.8	6.8	6.8	6.8	6.8	34	11.8	18.8	16.8	11.8	18.8	0.35	0.43	0.49	0.35	0.55	
1SV21CS067	13	2	15	13	2	15	13	2	15	4	4	4	4	4	6.2	6.2	6.2	6.2	6.2	31	23.2	25.2	12.2	23.2	12.2	0.68	0.57	0.36	0.68	0.36	
1SV21CS068	12	16	28	12	15	27	12	17	29	4	4	4	4	4	6	6	6	6	6	30	22	38	25	22	27	0.65	0.86	0.74	0.65	0.79	
1SV21CS069	4	6	10	4	5	9	4	7	11	4	4	4	4	4	1.4	1.4	1.4	1.4	1.4	7	9.4	15.4	10.4	9.4	12.4	0.28	0.35	0.31	0.28	0.36	
1SV21CS070	13	13	26	13	12	25	13	14	27	4	4	4	4	4	6.4	6.4	6.4	6.4	6.4	32	23.4	36.4	22.4	23.4	24.4	0.69	0.83	0.66	0.69	0.72	
1SV21CS071	13	16	29	13	16	29	13	16	29	4	4	4	4	4	7.8	7.8	7.8	7.8	7.8	39	24.8	40.8	27.8	24.8	27.8	0.73	0.93	0.82	0.73	0.82	
1SV21CS072	11	16	27	11	16	27	11	16	27	4	4	4	4	4	5.4	5.4	5.4	5.4	5.4	27	20.4	36.4	25.4	20.4	25.4	0.60	0.83	0.75	0.60	0.75	
1SV21CS073	13	14	27	13	14	27	13	14	27	4	4	4	4	4	5.6	5.6	5.6	5.6	5.6	28	22.6	36.6	23.6	22.6	23.6	0.66	0.83	0.69	0.66	0.69	
1SV21CS074	1	5	6	1	4	5	1	6	7	4	4	4	4	4	3.8	3.8	3.8	3.8	3.8	19	8.8	13.8	11.8	8.8	13.8	0.26	0.31	0.35	0.26	0.41	
1SV21CS075	9	2	11	9	2	11	9	2	11	4	4	4	4	4	4.6	4.6	4.6	4.6	4.6	23	17.6	19.6	10.6	17.6	10.6	0.52	0.45	0.31	0.52	0.31	
1SV21CS076	13	13	26	13	13	26	13	13	26	4	4	4	4	4	5.6	5.6	5.6	5.6	5.6	28	22.6	35.6	22.6	22.6	22.6	0.66	0.81	0.66	0.66	0.66	
1SV21CS077	12	11	23	12	11	23	12	11	23	4	4	4	4	4	4.6	4.6	4.6	4.6	4.6	23	20.6	31.6	19.6	20.6	19.6	0.61	0.72	0.58	0.61	0.58	
1SV21CS078	11	14	25	11	14	25	11	14	25	4	4	4	4	4	4.8	4.8	4.8	4.8	4.8	24	19.8	33.8	22.8	19.8	22.8	0.58	0.77	0.67	0.58	0.67	
1SV21CS079	10	17	27	10	17	27	10	17	27	4	4	4	4	4	5.6	5.6	5.6	5.6	5.6	28	19.6	36.6	26.6	19.6	26.6	0.58	0.83	0.78	0.58	0.78	
1SV21CS080	16	11	27	16	11	27	16	11	27	4	4	4	4	4	6	6	6	6	6	30	26	37	21	26	21	0.76	0.84	0.62	0.76	0.62	
1SV21CS081	5	1	6	5	0	5	5	2	7	4	4	4	4	4	3.6	3.6	3.6	3.6	3.6	18	12.6	13.6	7.6	12.6	9.6	0.37	0.31	0.22	0.37	0.28	
1SV21CS082	13	15	28	13	15	28	13	15	28	4	4	4	4	4	6.6	6.6	6.6	6.6	6.6	33	23.6	38.6	25.6	23.6	25.6	0.69	0.88	0.75	0.69	0.75	
1SV21CS083	13	5	18	13	5	18	13	5	18	4	4	4	4	4	4.4	4.4	4.4	4.4	4.4	22	21.4	26.4	13.4	21.4	13.4	0.63	0.60	0.39	0.63	0.39	
1SV21CS084	5	4	9	5	4	9	5	4	9	4	4	4	4	4	2	2	2	2	2	10	11	15	10	11	10	0.32	0.34	0.29	0.32	0.29	
1SV21CS085	3	2	5	3	2	5	3	2	5	4	4	4	4	4	1.8	1.8	1.8	1.8	1.8	9	8.8	10.8	7.8	8.8	7.8	0.26	0.25	0.23	0.26	0.23	
1SV21CS086	18	10	28	18	10	28	18	10	28	4	4	4	4	4	6.4	6.4	6.4	6.4	6.4	32	28.4	38.4	20.4	28.4	20.4	0.84	0.87	0.60	0.84	0.60	
1SV21CS087	7	3	10	7	3	10	7	3	10	4	4	4	4	4	2	2	2	2	2	10	13	16	9	13	9	0.38	0.36	0.26	0.38	0.26	
1SV21CV001	8	6	14	8	6	14	8	6	14	4	4	4	4	4	5.6	5.6	5.6	5.6	5.6	28	17.6	21.6	17.6	16.6	23.6	0.52	0.49	0.52	0.49	0.69	
1SV21CV002	3	3	6	2	3	5	3	4	7	4	4	4	4	4	1.8	1.8	1.8	1.8	1.8	9	8.8	10.8	8.8	8.8	9.8	0.26	0.25	0.26	0.26	0.29	
1SV21CV003	12	1	13	11	2	13	2	11	13	4	4	4	4	4	4.8	4.8	4.8	4.8	4.8	24	20.8	20.8	10.8	10.8	19.8	0.61	0.47	0.32	0.32	0.58	
1SV21CV004	7	6	13	4	9	13	5	8	13	4	4	4	4	4	4.8	4.8	4.8	4.8	4.8	24	15.8	18.8	17.8	13.8	16.8	0.46	0.43	0.52	0.41	0.49	
1SV21CV005	2	4	6	4	1	5	4	3	7	4	4	4	4	4	1.2	1.2	1.2	1.2	1.2	6	7.2	13.2	6.2	9.2	8.2	0.21	0.30	0.18	0.27	0.24	
1SV21CV006	2	5	7	2	4	6	4	8	4	4	4	4	4	4	1.4	1.4	1.4	1.4	1.4	7	7.4	12.4	9.4	9.4	9.4	0.22	0.28	0.28	0.28	0.28	
1SV21CV007	3	7	10	4	5	9	2	9	11	4	4	4	4	4	6	6	6	6	6	30	13	21	15	12	19	0.38	0.48	0.44	0.35	0.56	
1SV21CV008	4	5	9	3	6	9	4	5	9	4	4	4	4	4	1.2	1.2	1.2	1.2	1.2	6	9.2	13.2	11.2	9.2	10.2	0.27	0.30	0.33	0.27	0.30	
1SV21CV010	5	6	11	3	8	11	4	7	11	4	4	4	4	4	2.8	2.8	2.8	2.8	2.8	14	11.8	15.8	14.8	10.8	13.8	0.35	0.36	0.44	0.32	0.41	
1SV21CV011	3	2	5	3	1	4	2	2	4	4	4	4	4	4	1.4	1.4	1.4	1.4	1.4	7	8.4	10.4	6.4	7.4	7.4	0.25	0.24	0.19	0.22	0.22	
1SV21CV012	4	3	7	2	5	7	3	4	7	4	4	4	4	4	2.6	2.6	2.6	2.6	2.6	13	10.6	11.6	11.6	9.6	10.6	0.31	0.26	0.34	0.28	0.31	
1SV21CV013	0	0	0	0	0	0	0	0	0	4	4	4	4	4	0	0	0	0	0	0	4	4	4	4	4	0.12	0.09	0.12	0.12	0.12	
1SV21CV014	3	3	6	2	4	6	1	5	6	4	4	4	4	4	1.2	1.2	1.2	1.2	1.2	6	8.2	10.2	9.2	6.2	10.2	0.24	0.23	0.27	0.18	0.30	
1SV21CV015	17	6	23	11	11	22	13	11	24	4	4	4	4	4	5.2	5.2	5.2	5.2	5.2	26	26.2	26.2	20.2	22.2	20.2	0.77	0.60	0.59	0.65	0.59	
1SV21EE001	3	3	6	1	4	5	2	5	7	4	4	4	4	4	1.8	1.8	1.8	1.8	1.8	9	8.8	9.8	9.8	7.8	10.8	0.26	0.22	0.29	0.23	0.32	
1SV21EE002	11	3	14	12	2	14	13	1	14	4	4	4	4	4	4.8	4.8	4.8	4.8	4.8	24	19.8	23.8	10.8	21.8	9.8	0.58	0.54	0.32	0.64	0.29	
1SV21EE003	19	9	28	15	12	27	11	18	29	4	4	4	4	4	5.8	5.8	5.8	5.8	5.8	29	28.8	33.8	21.8	20.8	27.8	0.85	0.77	0.64	0.61	0.82	
1SV21EE005	9	3	12	1	11	12	8	4	12	4	4	4	4	4	5.6	5.6	5.6	5.6	5.6	28	18.6	13.6	20.6	17.6	13.6	0.55	0.31	0.61	0.52	0.40	
1SV21EE006	18	11	29	19	9	28	14	16	30	4	4	4	4	4	7.8	7.8	7.8	7.8	7.8	39	29.8	41.8	20.8	25.8	27.8	0.88	0.95	0.61	0.76	0.82	
TOTAL	1172	831	2003	1144	838	1982	1141	903	2037	420	420	420	420	420	653	653	652.6	652.6	652.6	3265	2245	3048	1911	2214	1975.6	66.0	69.3	56.2	65.1	58.1	
No of Students	105	0	105	105	0	105	105	0	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105
Average	11.16	7.91	19.08	10.90	7.98	18.88	10.87	8.53	19.40	4	4	4	4	4	6.22	6.22	6.22	6.22	6.22	31.10	21.38	29.02	18.20	21.08	18.82	62.89	65.97	53.52	62.01	55.34	

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGG

SUBJECT	BASIC ELECTRICAL ENGINEERING	SUBJECT CODE	18ELE23
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COURSE OUTCOME

CO1	Analysis of Resistive Circuits and Solution of resistive circuits with independent sources
CO2	Two Terminal Element Relationships for inductors and capacitors and analysis of magnetic circuits.
CO3	Discuss the laws of illumination, different types of lamps, lighting schemes and design of lighting systems.
CO4	Analysis of Single Phase AC Circuits, the representation of alternating quantities and determining the power in these circuits.
CO5	Analysis of Single Phase AC Circuits, the representation of alternating quantities and determining the power in these circuits.

PROGRAM OUTCOMES

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

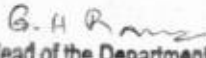
Head of the Department
 Electrical & Electronics Engineering
 Shridevi Institute of Engineering
 TUMKUR-572106

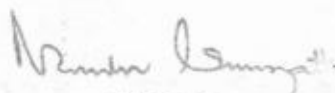
SIRA ROAD, TUMKUR
 PRINCIPAL
 PRINCIPAL

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	TABUJA K S											
BRANCH	EEE	ACADEMIC YEAR				2020-21						
COURSE	B.E	SEMESTER	I	SECTION			EEE					
SUBJECT	BASIC ELECTRICAL ENGINEERING					SUBJECT CODE		18ELE23				
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	3	3										
CO2	3	2										
CO3	3	2										
CO4	3	2										
CO5	3	2										
AVERAGE	3	2.2										
OVERALL MAPPING OF SUBJECT												2.6

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	49.39	1.48	1.48										
CO2	45.85	1.37	0.917										
CO3	79.04	2.37	1.58										
CO4	53.53	1.60	1.07										
CO5	55.16	1.65	1.103										
AVERAGE	56.59	1.69	1.23										
FINAL ATTAINMENT LEVEL													1.46

G. H. R. 
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 TUMKUR-5721


 PRINCIPAL
 SIET., TUMAKURU.

Academic year (SEM/2000-01)	2020-21				SEM I				2021-22				SEM II				2022-23				SEM III				2023-24				SEM IV				2024-25				SEM V				2025-26				SEM VI										
	IA TEST (30%)				IA TEST (30%)				IA TEST (30%)				IA TEST (30%)				IA TEST (30%)				IA TEST (30%)				IA TEST (30%)				IA TEST (30%)				IA TEST (30%)				IA TEST (30%)				IA TEST (30%)				IA TEST (30%)				IA TEST (30%)						
	CO1	CO2	CO3	TOTAL	CO1	CO2	CO3	TOTAL	CO1	CO2	CO3	TOTAL	CO1	CO2	CO3	TOTAL	CO1	CO2	CO3	TOTAL	CO1	CO2	CO3	TOTAL	CO1	CO2	CO3	TOTAL	CO1	CO2	CO3	TOTAL	CO1	CO2	CO3	TOTAL	CO1	CO2	CO3	TOTAL	CO1	CO2	CO3	TOTAL											
EWZ0001	9	9	18	4	4	4	12	11	12	12	35	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6				
EWZ0002	11	12	23	11	12	12	35	12	12	12	36	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6
EWZ0003	9	8	17	12	12	12	36	14	14	14	42	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6
EWZ0004	10	8	18	8	8	8	24	10	10	10	30	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6
EWZ0005	11	12	23	7	7	7	21	14	14	14	42	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6
EWZ0006	10	9	19	10	10	10	30	10	10	10	30	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6
EWZ0007	5	5	10	5	5	5	15	10	10	10	30	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6
EWZ0008	7	7	14	5	5	5	15	10	10	10	30	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6
EWZ0009	6	7	13	5	5	5	15	10	10	10	30	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6
EWZ0010	11	11	22	5	5	5	15	11	11	11	33	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6
EWZ0011	15	15	30	12	12	12	36	14	14	14	42	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6
EWZ0012	9	10	19	8	8	8	24	10	10	10	30	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6
EWZ0013	12	12	24	7	7	7	21	14	14	14	42	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6
EWZ0014	18	14	32	10	10	10	30	21	15	15	51	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6
EWZ0015	13	14	27	15	15	15	45	10	11	12	33	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6
EWZ0016	14	14	28	7	7	7	21	14	14	14	42	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6
EWZ0017	7	6	13	8	8	8	24	11	9	9	29	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6
EWZ0018	14	14	28	14	14	14	42	14	14	14	42	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6				
EWZ0019	9	9	18	5	5	5	15	10	10	10	30	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6				
EWZ0020	15	15	30	15	15	15	45	15	15	15	45	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6	2	2	2	6				

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Principal
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Academic COURSE	SEM			I			II			III			IV			Subject			BASIC ELECTRICAL ENGINEERING			Subject Code			BREL13			Total Cum ATTAINMENT			% of individual CO				
	IA TEST (300M)			IA TEST (300M)			IA TEST (300M)			ASSIGNMENT			QUIZ (10 M)						SEE MARKS(500)																
	CO1	CO2	TOTAL	CO1	CO2	TOTAL	CO1	CO2	TOTAL	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	CO1-25	CO2-25	CO3-25	CO4-25	CO5-25	CO1	CO2	CO3	CO4	CO5						
EEV2095001	7	7	14	6	6	12	5	6	11	2	2	2	2	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	15.2	19.2	12.2	11.2	12.2	45.51724	43.63036	42.06897	38.42069	42.06897		
EEV2095002	6	6	12	3	2	5	7	7	14	2	2	2	2	2	2	2	2	2	0	0	0	0	0	8	11	4	8	9	27.58625	25	11.7931	31.03448	31.03448		
EEV2095003	8	9	17	2	0	2	5	5	10	2	2	2	2	2	2	2	2	2	3.2	8.2	3.2	3.2	3.2	13.2	16.2	5.2	10.2	10.2	27.58625	25	10.84483	41.37851	41.37851		
EEV2095004	3	2	5	2	1	3	10	11	21	2	2	2	2	2	2	2	2	2	7.4	7.4	7.4	7.4	7.4	12.4	13.4	10.4	19.4	10.4	42.75862	30.45455	35.86207	46.85955	70.34483		
																				10.96	14.16	6.96	12.36	12.36	37.7931	32.58182	24	42.62069	44						

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

Manjunath
 PRINCIPAL
 SIET, TUMAKURU.



DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

SUBJECT	ELECTRIC CIRCUIT ANALYSIS	SUBJECT CODE	18EE32
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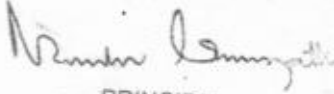
COURSE OUTCOME

- 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.

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


PRINCIPAL
SIET., TUMAKURU

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	Mr. G. H. RAVIKUMAR											
BRANCH	EEE			ACADEMIC YEAR				2020-21				
COURSE	B.E	SEMESTER		III	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	-	-	-	-	-	-	-	-	3
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	57.4	1.148	1.722	1.148	-	-	-	-	-	-	-	-	1.148
CO2	55.58	1.111	1.667	1.111	-	-	-	-	-	-	-	-	1.111
CO3	55.58	0.555	1.667	0.555	-	-	-	-	-	-	-	-	0.555
CO4	57.4	1.722	1.722	1.722	-	-	-	-	-	-	-	-	1.722
CO5	56.55	1.131	1.696	1.131	-	-	-	-	-	-	-	-	1.131
AVERAGE		1.133	1.694	1.133	-	-	-	-	-	-	-	-	1.133
FINAL ATTAINMENT LEVEL													1.273

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

Principal
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 SIET., TUMAKURU

**DEPARTMENT OF EEE**3rd 20-21

SUBJECT	TRANSFORMER & GENERATOR	SUBJECT CODE	18EE33
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COURSE OUTCOME

- CO1.** Understand the construction and operation of 1-phase, 3-Phase transformers and Autotransformer.
- CO2.** Analyze the performance of transformers by polarity test, Sumpner's Test, phase conversion, 3-phase connection, and parallel operation.
- CO3.** Understand the construction and working of AC and DC Generators.
- CO4.** Analyze the performance of the AC Generators on infinite bus and parallel operation.
- CO5.** Determine the regulation of AC Generator by Slip test, EMF, MMF, and ZPF Methods

- 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. Rama
Head of the Department
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TUMKUR-572106

Principals Signature
PRINCIPAL
SIET, TUMAKURU

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	MRS. SWETHA T M											
BRANCH	EEE			ACADEMIC YEAR				2020-21				
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

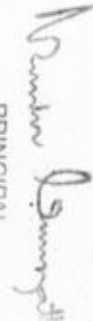
	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	54.5	1.64	1.64	1.64	1.09			1.09				1.09	0.55
CO2	54.7	1.09	1.64	1.64	1.09			1.09				1.09	0.55
CO3	56.2	0.56	1.69	1.69	0.56			1.12				1.12	0.56
CO4	61.4	1.23	1.84	1.84	1.23			1.23				1.23	0.61
CO5	60.7	1.21	1.82	1.82	1.21			1.21				1.21	0.61
AVERAGE	57.5	1.1466	1.725	1.725	1.0376	0	0	1.15	0	0	0	1.15	0.575
FINAL ATTAINMENT LEVEL													1.215

G. H. Rave
 Principal
 PRINCIPAL
 SIET, TUMAKURU

SEM:III, EEE	IA TEST 1			IA TEST 2			IA TEST 3			Assignment						SEE T&G 2020-2021					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
1SV18EE001	12	12	24	12	14	26	11	14	25	2	2	2	2	2	10	4.4	4.4	4.4	4.4	4.4	22	18.4	18.4	18.4	31.4	20.4	54.1	54.1	54.1	58.1	60
1SV19EE001	13	12	25	14	13	27	14	15	29	2	2	2	2	2	10	4.8	4.8	4.8	4.8	4.8	24	19.8	18.8	20.8	33.8	21.8	58.2	55.3	61.2	62.6	64.1
1SV19EE002	12	13	25	13	14	27	14	9	23	2	2	2	2	2	10	2.2	2.2	2.2	2.2	2.2	11	16.2	17.2	17.2	32.2	13.2	47.6	50.6	50.6	59.6	38.8
1SV19EE005	12	17	29	10	18	28	11	19	30	2	2	2	2	2	10	4.2	4.2	4.2	4.2	4.2	21	18.2	23.2	16.2	35.2	25.2	53.5	68.2	47.6	65.2	74.1
1SV19EE006	14	9	23	12	13	25	12	15	27	2	2	2	2	2	10	3	3	3	3	3	15	19	14	17	30	20	55.9	41.2	50.0	55.6	58.8
1SV19EE007	12	14	26	14	14	28	14	16	30	2	2	2	2	2	10	4.8	4.8	4.8	4.8	4.8	24	18.8	20.8	20.8	34.8	22.8	55.3	61.2	61.2	64.4	67.1
1SV19EE008	13	12	25	15	9	24	13	16	29	2	2	2	2	2	10	4.2	4.2	4.2	4.2	4.2	21	19.2	18.2	21.2	28.2	22.2	56.5	53.5	62.4	52.2	65.3
1SV19EE009	10	13	23	14	15	29	15	11	26	2	2	2	2	2	10	3.4	3.4	3.4	3.4	3.4	17	15.4	18.4	19.4	35.4	16.4	45.3	54.1	57.1	65.6	48.2
1SV19EE011	11	19	30	12	18	30	14	16	30	2	2	2	2	2	10	4.6	4.6	4.6	4.6	4.6	23	17.6	25.6	18.6	38.6	22.6	51.8	75.3	54.7	71.5	66.5
1SV19EE012	12	12	24	14	14	28	15	14	29	2	2	2	2	2	10	4.2	4.2	4.2	4.2	4.2	21	18.2	18.2	20.2	35.2	20.2	53.5	53.5	59.4	65.2	59.4
1SV19EE013	14	16	30	13	15	28	12	17	29	2	2	2	2	2	10	4.1	4.1	4.1	4.1	4.1	22	20.1	22.1	19.1	33.1	23.1	59.1	65.0	56.2	63.3	67.9
1SV19EE014	13	11	24	12	14	26	13	12	25	2	2	2	2	2	10	1.6	1.6	1.6	1.6	1.6	8	16.6	14.6	15.6	30.6	15.6	48.8	42.9	45.9	56.7	45.9
1SV19EE016	12	5	17	14	9	23	14	12	26	2	2	2	2	2	10	2.6	2.6	2.6	2.6	2.6	13	16.6	9.6	18.6	27.6	16.6	48.8	28.2	54.7	51.1	48.8
1SV19EE017	14	8	22	15	11	26	14	13	27	2	2	2	2	2	10	7.4	7.4	7.4	7.4	7.4	37	23.4	17.4	24.4	34.4	22.4	68.8	51.2	71.8	63.7	65.9
1SV19EE020	13	17	30	12	18	30	12	18	30	2	2	2	2	2	10	4.2	4.2	4.2	4.2	4.2	21	19.2	23.2	18.2	36.2	24.2	56.5	68.2	53.5	67.0	71.2
1SV20EE400	14	11	25	12	15	27	13	16	29	2	2	2	2	2	10	4.6	4.6	4.6	4.6	4.6	23	20.6	17.6	18.6	34.6	22.6	60.6	51.8	54.7	64.1	66.5
1SV20EE401	11	12	23	14	15	29	11	15	26	2	2	2	2	2	10	4.6	4.6	4.6	4.6	4.6	22	17.6	18.6	20.6	32.6	21.6	51.8	54.7	60.6	60.4	63.5
TOTAL	212	213	425	222	239	461	222	248	470	34	34	34	34	34	170	68.9	68.9	68.9	69	68.9	345	315	315.9	324.9	564	351	926.2	929.1	955.6	1044.3	1032.1
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	12.47	12.53	25	13.059	14.06	27.118	13.06	14.6	27.647	2	2	2	2	2	10	4.05	4.05	4.053	4.1	4.053	20.2941	18.5	18.58	19.112	33.2	20.6	54.5	54.7	56.2	61.4	60.7

18EE33 T&G 2020-2021


 Head of the Department
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 PRINCIPAL
 SIET, TUMKURU

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGG**

SUBJECT	ANALOG ELECTRONIC CIRCUITS	SUBJECT CODE	18EE34
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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 OUTCOMES

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

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

N. S. Srinivas
PRINCIPAL
SIET., TUMAKURU

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	V.RAJESH KUMAR											
BRANCH	EEE			ACADEMIC YEAR				2018-19				
COURSE	B.E	SEMESTER		III	SECTION			EEE				
SUBJECT	ANALOG ELECTRONIC CIRCUITS					SUBJECT CODE			18EE34			
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	1	1	2									
CO2	1	1	3									
CO3	1	1	2									
CO4	1	1	3									
CO5	1	1	3									
AVERAGE	1	1	3									
OVERALL MAPPING OF SUBJECT											1.6	

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	40.29	0.41	0.41	0.81									
CO2	39.25	0.39	0.39	1.17									
CO3	40.28	0.40	0.40	0.81									
CO4	40.28	0.40	0.40	1.21									
CO5	40.69	0.41	0.41	1.22									
AVERAGE	40.11	0.40	0.40	1.04									
FINAL ATTAINMENT LEVEL												0.61	

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

Principal
PRINCIPAL
SIET, TUMAKURU

STAFF NAME: V RAJESH KUMAR

Academic year	2018-19						2019-20						2020-21						2021-22						2022-23					
SEM-3/SEC. K&E	IA TEST 1(30M)			IA TEST 2(30M)			IA TEST 3(30M)			ASSIGNMENT / QUIZ(10 M)			SEE MARKS(60)			Total Cos ATTAINMENT						% of individual CO								
USN	CO1	CO2	TOTAL	CO2	CO3	TOTAL	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	CO1+2	CO2	CO3	CO4	CO5	CO1+29	CO2+44	CO3+29	CO4+29	CO5+29	CO1	CO2	CO3	CO4	CO5	
15V18EE001	6	6	12	6	6	12	6	7	13	2	2	2	2	2	3	3	3	3	3	11	17	11	11	12	37.93103	38.63636	37.93103	37.93103	41.37931	
15V19EE001	6	6	12	6	6	12	6	7	13	2	2	2	2	2	3.2	3.2	3.2	3.2	3.2	11.2	17.2	11.2	11.2	12.2	38.62069	39.09091	38.62069	38.62069	42.06897	
15V19EE002	5	5	10	5	5	10	5	5	10	2	2	2	2	2	1.6	1.6	1.6	1.6	1.6	8.6	13.6	8.6	8.6	8.6	29.65517	30.90909	29.65517	29.65517	29.65517	
15V19EE005	6	6	12	6	6	12	6	6	12	2	2	2	2	2	6.2	6.2	6.2	6.2	6.2	14.2	20.2	14.2	14.2	14.2	48.96552	45.90909	48.96552	48.96552	48.96552	
15V19EE006	5	5	10	6	5	11	5	5	10	2	2	2	2	2	2.8	2.8	2.8	2.8	2.8	9.8	15.8	9.8	9.8	9.8	33.7931	35.90909	33.7931	33.7931	33.7931	
15V19EE007	7	7	14	7	7	14	7	7	14	2	2	2	2	2	5.8	5.8	5.8	5.8	5.8	14.8	21.8	14.8	14.8	14.8	51.03448	49.54545	51.03448	51.03448	51.03448	
15V19EE008	5.5	5.5	11	5.5	5.5	11	5.5	5.5	11	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	11.7	17.2	11.7	11.7	11.7	40.34483	39.09091	40.34483	40.34483	40.34483	
15V19EE009	5.5	5.5	11	5.5	5.5	11	5.5	5.5	11	2	2	2	2	2	4.6	4.6	4.6	4.6	4.6	12.1	17.6	12.1	12.1	12.1	41.72414	40	41.72414	41.72414	41.72414	
15V19EE011	6.5	6.5	13	6.5	6.5	13	6.5	6.5	13	2	2	2	2	2	5.2	5.2	5.2	5.2	5.2	13.7	20.2	13.7	13.7	13.7	47.24138	45.90909	47.24138	47.24138	47.24138	
15V19EE012	6	6	12	6	6	12	6	6	12	2	2	2	2	2	3	3	3	3	3	11	17	11	11	11	37.93103	38.63636	37.93103	37.93103	37.93103	
15V19EE014	4.5	4.5	9	4.5	4.5	9	4.5	4.5	9	2	2	2	2	2	0.4	0.4	0.4	0.4	0.4	6.9	11.4	6.9	6.9	6.9	23.7931	25.90909	23.7931	23.7931	23.7931	
15V19EE016	4	4	8	4	4	8	4	4	8	2	2	2	2	2	4.6	4.6	4.6	4.6	4.6	10.6	14.6	10.6	10.6	10.6	36.55172	33.18182	36.55172	36.55172	36.55172	
15V19EE017	6.5	6.5	13	6.5	6.5	13	6.5	6.5	13	2	2	2	2	2	7	7	7	7	7	15.5	22	15.5	15.5	15.5	53.44828	50	53.44828	53.44828	53.44828	
15V19EE020	5.5	5.5	11	5.5	5.5	11	5.5	5.5	11	2	2	2	2	2	5.8	5.8	5.8	5.8	5.8	13.3	18.8	13.3	13.3	13.3	45.86207	42.72727	45.86207	45.86207	45.86207	
15V20EE400	5	5	10	5	5	10	5	5	10	2	2	2	2	2	6	6	6	6	6	13	18	13	13	13	44.82759	40.90909	44.82759	44.82759	44.82759	
15V20EE461	5	5	10	5	5	10	5	5	10	2	2	2	2	2	5.2	5.2	5.2	5.2	5.2	12.2	17.2	12.2	12.2	12.2	42.06897	39.09091	42.06897	42.06897	42.06897	
15V20EE402	5	5	10	5	5	10	5	5	10	2	2	2	2	2	2	2	2	2	2	9	14	9	9	9	31.03448	31.81818	31.03448	31.03448	31.03448	
																				11.68235	17.77059	11.68235	11.68235	11.8	40.28398	39.25134	40.28398	40.28398	40.68966	


 PRINCIPAL
 SIET., TUMAKURU.


 Head of the Department
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SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

DEPARTMENT OF EEE

SUBJECT	DIGITAL SYSTEM DESIGN	SUBJECT CODE	18EE35
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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 OUTCOMES

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

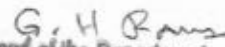
COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY
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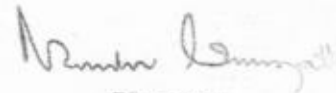
G. H. Gowda
Head of the Department
Electrical & Electronics Engineering
Shridevi Institute of Engineering & Technology
TUMKUR-572106.

Principals Signature
PRINCIPAL
SIET, TUMKURU

FACULTY NAME		RAGHAVENDRA										
BRANCH		EEE			ACADEMIC YEAR			2018-19				
COURSE	B.E.	SEMESTER		III	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												2.48

CO AND PO ATTAINMENT													
	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	36.47	0.82	0.81										0.72
CO2	35.56	0.79	0.88	1.06									0.78
CO3	36.47	0.82	0.81	1.09									0.72
CO4	36.47	0.82	0.81										0.72
CO5	36.85	0.83		1.10									0.73
AVERAGE	36.36	0.81	0.82	1.08									0.73
FINAL ATTAINMENT LEVEL													0.86


 Head of the Department
 Electrical & Electronics Engineering
 Shree Institute of Engineering & Technology
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 PRINCIPAL
 SIET, TUMAKURU

STAFF NAME: RAGAVENDRA

Academic year SEM, SEC. & E&E	2018-19						SEM			3			Total strength					18					Subject					DIGITAL SYSTEM DESIGN					Subject Code					18EE35					% of individual CO				
	IA TEST 1(30M)			IA TEST 2(30)			IA TEST 3(30M)			ASSIGNMENT / QUIZ(10 M)					SEE MARKS(60)					Total Cos ATTAINMENT																											
	CO1	CO2	TOTAL	CO2	CO3	TOTAL	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	CO1=12	CO2	CO3	CO4	CO5	CO1=29	CO2=44	CO3=29	CO4=29	CO5=29	CO1	CO2	CO3	CO4	CO5																		
USN	4.8	4.8	9.6	4.8	4.8	9.6	4.8	4.8	9.6	2	2	2	2	2	3	3	3	3	3	9.8	14.6	9.8	9.8	9.8	33.7931	33.18182	33.7931	33.7931	33.7931																		
1SV18EE001	4.8	4.8	9.6	4.8	4.8	9.6	4.8	4.8	9.6	2	2	2	2	2	1.2	1.2	1.2	1.2	1.2	9.2	15.2	9.2	9.2	9.2	31.72414	34.54545	31.72414	31.72414	31.72414																		
1SV19EE001	6	6	12	6	6	12	6	6	12	2	2	2	2	2	2.2	2.2	2.2	2.2	2.2	9.7	15.2	9.7	9.7	9.7	33.44828	34.54545	33.44828	33.44828	33.44828																		
1SV19EE002	5.5	5.5	11	5.5	5.5	11	5.5	5.5	11	2	2	2	2	2	6	6	6	6	6	13.3	18.6	13.3	13.3	13.3	45.86207	42.27273	45.86207	45.86207	45.86207																		
1SV19EE005	5.3	5.3	10.6	5.3	5.3	10.6	5.3	5.3	10.6	2	2	2	2	2	1.8	1.8	1.8	1.8	1.8	8.4	13	8.4	8.4	8.8	28.96552	29.54545	28.96552	28.96552	30.34483																		
1SV19EE006	4.6	4.6	9.2	4.6	4.6	9.2	4.6	4.6	9.2	2	2	2	2	2	4.8	4.8	4.8	4.8	4.8	12.6	18.4	12.6	12.6	12.6	43.44828	41.81818	43.44828	43.44828	43.44828																		
1SV19EE007	5.8	5.8	11.6	5.8	5.8	11.6	5.8	5.8	11.6	2	2	2	2	2	2.8	2.8	2.8	2.8	2.8	9.1	13.4	9.1	9.1	9.1	31.37931	30.45455	31.37931	31.37931	31.37931																		
1SV19EE008	4.3	4.3	8.6	4.3	4.3	8.6	4.3	4.3	8.6	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	11.2	16.2	11.2	11.2	11.2	38.62069	36.81818	38.62069	38.62069	38.62069																		
1SV19EE009	5	5	10	5	5	10	5	5	10	2	2	2	2	2	5.8	5.8	5.8	5.8	5.8	13.6	19.4	13.6	13.6	13.6	46.89655	44.09091	46.89655	46.89655	46.89655																		
1SV19EE011	5.8	5.8	11.6	5.8	5.8	11.6	5.8	5.8	11.6	2	2	2	2	2	2.8	2.8	2.8	2.8	2.8	9.3	13.8	9.3	9.3	10.8	32.06897	31.36364	32.06897	32.06897	32.06897																		
1SV19EE012	4.5	4.5	9	4.5	4.5	9	4.5	4.5	9	2	2	2	2	2	0	0	0	0	0	6.5	11	6.5	6.5	6.5	22.41379	25	22.41379	22.41379	22.41379																		
1SV19EE014	4.5	4.5	9	4.5	4.5	9	4.5	4.5	9	2	2	2	2	2	2.2	2.2	2.2	2.2	2.2	8.5	12.8	8.5	8.5	8.5	29.31034	29.09091	29.31034	29.31034	29.31034																		
1SV19EE016	4.3	4.3	8.6	4.3	4.3	8.6	4.3	4.3	8.6	2	2	2	2	2	7.6	7.6	7.6	7.6	7.6	15.8	22	15.8	15.8	15.8	54.48276	50	54.48276	54.48276	54.48276																		
1SV19EE017	6.2	6.2	12.4	6.2	6.2	12.4	6.2	6.2	12.4	2	2	2	2	2	5.8	5.8	5.8	5.8	5.8	12.8	17.8	12.8	12.8	12.8	44.13793	40.45455	44.13793	44.13793	44.13793																		
1SV19EE020	5	5	10	5	5	10	5	5	10	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	10.7	15.2	10.7	10.7	10.7	36.89655	34.54545	36.89655	36.89655	36.89655																		
1SV20EE400	4.5	4.5	9	4.5	4.5	9	4.5	4.5	9	2	2	2	2	2	2.2	2.2	2.2	2.2	2.2	8.8	13.4	8.8	8.8	8.8	30.34483	30.45455	30.34483	30.34483	30.34483																		
1SV20EE401	4.6	4.6	9.2	4.6	4.6	9.2	4.6	4.6	9.2	2	2	2	2	2	3	3	3	3	3	10.5	16	10.5	10.5	10.5	36.2069	36.36364	36.2069	36.2069	36.2069																		
1SV20EE402	5.5	5.5	11	5.5	5.5	11	5.5	5.5	11	2	2	2	2	2	3	3	3	3	3	10.57647	15.64706	10.57647	10.57647	10.68824	36.47059	35.5615	36.47059	36.47059	36.85598																		

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PRINCIPAL
SIET, TUMAKURU.

G. A. Ramesh
Head of the Department
Electrical & Electronics Engineering
Sri Jeeva Institute of Engineering & Technology
TUMKUR-572106.

DEPARTMENT OF EEE

SUBJECT	Electrical & Electronic Measurement	SUBJECT CODE	18EE36
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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.
- 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. Rane
Head of the Department
Electrical & Electronics Engineering
Shridevi Institute of Engineering & Technology
TUMKUR-572106.

Principals
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COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	UMABAI											
BRANCH	EEE			ACADEMIC YEAR				2020-2021				
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	18.52	1.44	0.96	0.96	0.96	0.96	0.96						0.48
CO2	18.58	1.45	0.96	0.96	0.96	0.96	0.96						0.48
CO3	19.11	1.52	1.01	1.52	1.01	1.01	1.01						0.50
CO4	33.17	1.40	0.93	0.93	0.93	0.93	0.93						0.46
CO5	20.64	1.43	0.95	0.95	0.95	0.95	0.95						0.47
AVERAGE	21.56	1.44	0.96	1.06	0.96	0.96	0.96						0.47
FINAL ATTAINMENT LEVEL													1.28

G. H. Ram
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 T&G 2020-2021						TOTAL				
	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
1SV18EE001	12	12	24	12	14	26	11	14	25	2	2	2	2	2	10	4.4	4.4	4.4	4.4	4.4	22	18.4	18.4	18.4	31.4	20.4
1SV19EE001	13	12	25	14	13	27	14	15	29	2	2	2	2	2	10	4.8	4.8	4.8	4.8	4.8	24	19.8	18.8	20.8	33.8	21.8
1SV19EE002	12	13	25	13	14	27	14	9	23	2	2	2	2	2	10	2.2	2.2	2.2	2.2	2.2	11	16.2	17.2	17.2	32.2	13.2
1SV19EE005	12	17	29	10	18	28	11	19	30	2	2	2	2	2	10	4.2	4.2	4.2	4.2	4.2	21	18.2	23.2	16.2	35.2	25.2
1SV19EE006	14	9	23	12	13	25	12	15	27	2	2	2	2	2	10	3	3	3	3	3	15	19	14	17	30	20
1SV19EE007	12	14	26	14	14	28	14	16	30	2	2	2	2	2	10	4.8	4.8	4.8	4.8	4.8	24	18.8	20.8	20.8	34.8	22.8
1SV19EE008	13	12	25	15	9	24	13	16	29	2	2	2	2	2	10	4.2	4.2	4.2	4.2	4.2	21	19.2	18.2	21.2	28.2	22.2
1SV19EE009	10	13	23	14	15	29	15	11	26	2	2	2	2	2	10	3.4	3.4	3.4	3.4	3.4	17	15.4	18.4	19.4	35.4	16.4
1SV19EE011	11	19	30	12	18	30	14	16	30	2	2	2	2	2	10	4.6	4.6	4.6	4.6	4.6	23	17.6	25.6	18.6	38.6	22.6
1SV19EE012	12	12	24	14	14	28	15	14	29	2	2	2	2	2	10	4.2	4.2	4.2	4.2	4.2	21	18.2	18.2	20.2	35.2	20.2
1SV19EE013	14	16	30	13	15	28	12	17	29	2	2	2	2	2	10	4.1	4.1	4.1	4.1	4.1	22	20.1	22.1	19.1	33.1	23.1
1SV19EE014	13	11	24	12	14	26	13	12	25	2	2	2	2	2	10	1.6	1.6	1.6	1.6	1.6	8	16.6	14.6	15.6	30.6	15.6
1SV19EE016	12	5	17	14	9	23	14	12	26	2	2	2	2	2	10	2.6	2.6	2.6	2.6	2.6	13	16.6	9.6	18.6	27.6	16.6
1SV19EE017	14	8	22	15	11	26	14	13	27	2	2	2	2	2	10	7.4	7.4	7.4	7.4	7.4	37	23.4	17.4	24.4	34.4	22.4
1SV19EE020	13	17	30	12	18	30	12	18	30	2	2	2	2	2	10	4.2	4.2	4.2	4.2	4.2	21	19.2	23.2	18.2	36.2	24.2
1SV20EE400	14	11	25	12	15	27	13	16	29	2	2	2	2	2	10	4.6	4.6	4.6	4.6	4.6	23	20.6	17.6	18.6	34.6	22.6
1SV20EE401	11	12	23	14	15	29	11	15	26	2	2	2	2	2	10	4.6	4.6	4.6	4.6	4.6	22	17.6	18.6	20.6	32.6	21.6
TOTAL	212	213	425	222	239	461	222	248	470	34	34	34	34	34	170	68.9	68.9	68.9	68.9	68.9	345	314.9	315.9	324.9	563.9	350.9
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
Average	12.471	12.529	25	13.059	14.059	27.118	13.0588	14.5882	27.647	2	2	2	2	2	10	4.05	4.05	4.05	4.05	4.05	20.29	18.52	18.58	19.11	33.17	20.64

**ELECTRICAL & ELECTRONICS MEASUREMENTS
18EE36
2020-21**

N. Kumar
 PRINCIPAL
 SIET, TUMAKURU

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

DEPARTMENT OF EEE

SUBJECT	MICROCONTROLLER	SUBJECT CODE	18EE52
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COURSE OUTCOME

CO1	Outline the 8051 architecture, registers, internal memory organization, addressing modes
CO2	Discuss 8051 addressing modes, instruction set of 8051, accessing data and I/O port programming
CO3	Develop 8051C programs for time delay, I/O operations, I/O bit manipulation, logic and arithmetic operations, data conversion and timer/counter programming.
CO4	Summarize the basics of serial communication and interrupts, also develop 8051 programs serial data communication and interrupt programming
CO5	Program 8051 to work with external devices for ADC, DAC
	Stepper motor control, DC motor control, Elevator control

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.

G. H. Ravi
Head of the Department
Electrical & Electronics Engineering
Shridevi Institute of Engineering & Technology
TUMKUR-572108.

Principals
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SIF TUMKUR

PO8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms

of the engineering practice.

PO9 Individual and team work: Function effectively as an individual, and as a member or leader in

diverse teams, and in multidisciplinary settings.

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

PO11 Project management and finance: An ability to use the modern engineering tools, techniques,

skills and management principles to do work as a member and leader in a team, to manage

projects in multidisciplinary environments.

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


COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY												
FACULTY NAME	V RAJESH KUMAR												
BRANCH	EEE			ACADEMIC YEAR			2020-21						
COURSE	B.E	SEMESTER		V	SECTION			EEE					
SUBJECT	MICROCONTROLLER						SUBJECT CODE			18EE52			
CO & PO MAPPING													
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	
CO1	2	-	-	-	-	-	-	-	-	-	-	2	
CO2	2	2	-	-	2	-	-	-	-	-	-	2	
CO3	3	2	-	-	2	-	-	-	-	-	-	2	
CO4	3	2	-	-	-	-	-	-	-	-	-	2	
CO5	3	3	-	-	-	-	-	-	-	-	-	2	
AVERAGE	2.6	1.8			2							2	

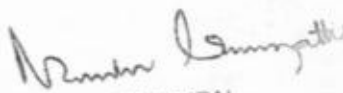
CO AND PO ATTAINMENT

9.11.2020
 Head of the Department
 Electrical & Electronics Engineering
 Shridevi Institute of Engineering & Technology
 TUMKUR-572106.

Principal
 PRINCIPAL
 SIET, TUMKUR

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	42.64	0.85											0.85
CO2	42.10	0.84	0.84			0.84							0.84
CO3	45.60	1.36	0.91			0.91							0.91
CO4	45.60	1.36	0.91										0.91
CO5	45.60	1.36	1.18										0.91
AVERAGE	44.30	1.48	1.48			0.91							0.88
FINAL ATTAINMENT LEVEL													1.18


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


 PRINCIPAL
 SIET., TUMAKURU

Academic year	2020-21						SEM	S	V.RAJESH KUMAR																					
	IA TEST 1(30M)								Total strength			19	Subject					MICROCONTROLLER	Subject Code	18EE52										
	USN	CO1	CO2	TOTAL	CO3	TOTAL			IA TEST 3(30M)				ASSIGNMENT / QUIZ(10 M)							SEE MARKS(60)					Total Cos ATTAINMENT					
									CO4	CO5	TOTAL		CO1	CO2	CO3	CO4	CO5			CO1=12	CO2	CO3	CO4	CO5	CO1=29	CO2=44	CO3=29	CO4=29	CO5=29	% of individual
CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5						
15V18EE001	5.5	5.5	11	5.5	5.5	11	5.5	5.5	11	2	2	2	2	2	7	8.2	8.2	8.2	8.2	8.2	14.5	21.2	15.7	15.7	15.7	50	48.18182	54.13793	54.13793	54.13793
15V19EE001	5.6	5.6	11.2	5.6	5.6	11.2	5.6	5.6	11.2	2	2	2	2	2	4.8	6.6	6.6	6.6	6.6	6.6	12.4	19.8	14.2	14.2	14.2	42.75862	45	48.96552	48.96552	48.96552
15V19EE002	5.3	5.3	10.6	5.3	5.3	10.6	5.3	5.3	10.6	2	2	2	2	2	1.8	8.6	8.6	8.6	8.6	8.6	9.1	21.2	15.9	15.9	15.9	48.18182	54.82759	54.82759	54.82759	54.82759
15V19EE005	5.6	5.3	10.9	5.3	5.3	10.6	5.3	5.3	10.6	2	2	2	2	2	2	6.4	8	8	8	8	14	20.6	15.3	15.3	15.3	48.27586	46.81818	52.75862	52.75862	52.75862
15V19EE006	5.1	5.1	10.2	4.2	4.2	8.4	4.2	4.2	8.4	2	2	2	2	2	4.4	5	5	5	5	5	11.5	16.3	11.2	11.2	11.2	39.65517	37.04545	38.62069	38.62069	38.62069
15V19EE007	5.6	6	11.6	6	6	12	6	6	12	2	2	2	2	2	7.2	6.2	6.2	6.2	6.2	6.2	14.8	20.2	14.2	14.2	14.2	51.03448	45.90909	48.96552	48.96552	48.96552
15V19EE008	5.5	5.5	11	4.5	4.5	9	4.5	4.5	9	2	2	2	2	2	4.4	6.4	6.4	6.4	6.4	6.4	11.9	18.4	12.9	12.9	12.9	41.03448	41.81818	44.48276	44.48276	44.48276
15V19EE009	5.6	4.3	9.9	4.3	4.3	8.6	4.3	4.3	8.6	2	2	2	2	2	3.2	4.8	4.8	4.8	4.8	4.8	10.8	15.4	11.1	11.1	11.1	37.24138	35	38.27586	38.27586	38.27586
15V19EE011	6	6.5	12.5	6.5	6.5	13	6.5	6.5	13	2	2	2	2	2	4.8	9.7	9.7	9.7	9.7	9.7	12.8	24.7	18.2	18.2	18.2	44.13793	56.13636	62.75862	62.75862	62.75862
15V19EE012	5.1	5	10.1	5	5	10	5	5	10	2	2	2	2	2	3.4	7.6	7.6	7.6	7.6	7.6	10.5	19.6	14.6	14.6	14.6	36.2069	44.54545	50.34483	50.34483	50.34483
15V19EE013	5.5	5.5	11	3.8	3.8	7.6	3.8	3.8	7.6	2	2	2	2	2	2.6	0	0	0	0	0	10.1	11.3	5.8	5.8	5.8	34.82759	25.68182	20	20	20
15V19EE014	5	5	10	4.5	4.5	9	4.5	4.5	9	2	2	2	2	2	0.8	0	0	0	0	0	7.8	11.5	6.5	6.5	6.5	26.89655	26.13636	22.41379	22.41379	22.41379
15V19EE016	5.3	3.8	9.1	3.8	3.8	7.6	3.8	3.8	7.6	2	2	2	2	2	4.2	5	5	5	5	5	11.5	14.6	10.8	10.8	10.8	39.65517	33.18182	37.24138	37.24138	37.24138
15V19EE017	6	6	12	6.5	6.5	13	6.5	6.5	13	2	2	2	2	2	7	8.6	8.6	8.6	8.6	8.6	15	23.1	17.1	17.1	17.1	51.72414	52.5	58.96552	58.96552	58.96552
15V19EE020	5.8	5.8	11.6	5.3	5.3	10.6	5.3	5.3	10.6	2	2	2	2	2	9	9	9	9	9	9	16.8	22.1	16.3	16.3	16.3	57.93103	50.22727	56.2069	56.2069	56.2069
15V20EE400	5	5	10	5	5	10	5	5	10	2	2	2	2	2	6	6	6	6	6	6	13	18	13	13	13	44.82759	40.90909	44.82759	44.82759	44.82759
15V20EE401	5.3	5.3	10.6	5.3	5.3	10.6	5.3	5.3	10.6	2	2	2	2	2	7	7	7	7	7	7	14.3	19.6	14.3	14.3	14.3	49.31034	44.54545	49.31034	49.31034	49.31034
15V20EE402	4.6	4.6	9.2	4.6	4.6	9.2	4.6	4.6	9.2	2	2	2	2	2	3	3	3	3	3	3	9.6	14.2	9.6	9.6	9.6	33.10345	32.27273	33.10345	33.10345	33.10345
15V20EE404	5.6	5.6	11.2	5.6	5.6	11.2	5.6	5.6	11.2	2	2	2	2	2	7	7	7	7	7	7	14.6	20.2	14.6	14.6	14.6	50.34483	45.90909	50.34483	50.34483	50.34483
																					12.36862	18.52632	13.22632	13.22632	11.22632	42.64973	42.10526	45.60799	45.60799	45.60799


 N. Srinivas
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DEPARTMENT OF EEE

SUBJECT	POWER ELECTRONICS	SUBJECT CODE	18EE53
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COURSE OUTCOME

CO1	To give an overview of applications power electronics, different types of power semiconductor devices, their switching characteristics
CO2	To explain power diode characteristics, types, their operation and the effects of power diodes on RL circuits
CO3	To explain the techniques for design and analysis of single phase diode rectifier circuits
CO4	To explain different power transistors, their steady state and switching characteristics and imitations.
CO5	To explain different types of Thyristors, their gate characteristics and gate control requirements.
	To explain the design, analysis techniques, performance parameters and characteristics of controlled rectifiers, DC- DC, DC –AC converters and Voltage controllers.

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

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of the engineering practice.

PO9 Individual and team work: Function effectively as an individual, and as a member or leader in

diverse teams, and in multidisciplinary settings.

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

PO11 Project management and finance: An ability to use the modern engineering tools, techniques,

skills and management principles to do work as a member and leader in a team, to manage

projects in multidisciplinary environments.

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

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	G H RAVI KUMAR											
BRANCH	EEE			ACADEMIC YEAR				2020-21				
COURSE	B.E	SEMESTER		V	SECTION			EEE				
SUBJECT	POWER ELECTROINCS					SUBJECT CODE			18EE71			
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	-	-	-	-	-	-	-	-	-	-	2
CO2	2	-	-	-	-	-	-	-	-	-	-	2
CO3	2	2	-	-	-	-	-	-	-	-	-	2
CO4	2	2	-	-	-	-	-	-	-	-	-	-
CO5	2	2	-	-	-	-	-	-	-	-	-	-
AVERAGE	2	2										2
OVERALL MAPPING OF SUBJECT												2

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CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	38.43	0.76											0.76
CO2	25.33	0.83											0.76
CO3	38.43	0.76	0.76										0.76
CO4	38.43	0.76	0.76										
CO5	38.43	0.76	0.76										
AVERAGE	35.81	0.77	0.76										0.76
FINAL ATTAINMENT LEVEL													0.76

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Ramesh Kumar
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Academic year SEM:5,SEC: E&E	2020-21										RAVIKUMAR G H																
	SEM			5			Total strength			19			Subject		POWER ELECTRONICS					Subject Code		18EE53					
	IA TEST 1(30M)			IA TEST 3(30M)			ASSIGNMENT / QUIZ(10 M)					SEE MARKS(60)					Total Cos ATTAINMENT					% of individual CO					
	CO1	CO2	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	
15V18EE001	4.8	4.8	9.6	4.8	4.8	9.6	2	2	2	2	2	5.6	5.6	5.6	5.6	5.6	5.6	12.4	12.4	12.4	12.4	12.4	42.75862	28.18182	42.75862	42.75862	42.75862
15V19EE001	5.8	5.8	11.6	5.8	5.8	11.6	2	2	2	2	2	1.6	1.6	1.6	1.6	1.6	1.6	9.4	9.4	9.4	9.4	9.4	32.41379	21.36364	32.41379	32.41379	32.41379
15V19EE002	4.5	4.5	9	4.5	4.5	9	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	4.2	10.7	10.7	10.7	10.7	10.7	36.89655	24.31818	36.89655	36.89655	36.89655
15V19EE005	5.6	5.6	11.2	5.6	5.6	11.2	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	4.2	10.7	10.7	10.7	10.7	10.7	36.89655	24.31818	36.89655	36.89655	36.89655
15V19EE006	4.1	4.1	8.2	4.1	4.1	8.2	2	2	2	2	2	4.8	4.8	4.8	4.8	4.8	4.8	11.8	11.8	11.8	11.8	11.8	40.68966	26.81818	40.68966	40.68966	40.68966
15V19EE007	5.3	5.3	10.6	5.3	5.3	10.6	2	2	2	2	2	4.4	4.4	4.4	4.4	4.4	4.4	10.9	10.9	10.9	10.9	10.9	37.58621	24.72727	37.58621	37.58621	37.58621
15V19EE008	4.5	4.5	9	4.5	4.5	9	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	4.2	11.7	11.7	11.7	11.7	11.7	40.34483	26.59091	40.34483	40.34483	40.34483
15V19EE009	4.8	4.8	9.6	4.8	4.8	9.6	2	2	2	2	2	1.2	1.2	1.2	1.2	1.2	1.2	8	8	8	8	8	27.58621	18.18182	27.58621	27.58621	27.58621
15V19EE011	6.5	6.5	13	6.5	6.5	13	2	2	2	2	2	6.4	6.4	6.4	6.4	6.4	6.4	14.9	14.9	14.9	14.9	14.9	51.37931	33.86364	51.37931	51.37931	51.37931
15V19EE012	5	5	10	5	5	10	2	2	2	2	2	2.2	2.2	2.2	2.2	2.2	2.2	9.2	9.2	9.2	9.2	9.2	31.72414	20.90909	31.72414	31.72414	31.72414
15V19EE013	4.3	4.3	8.6	4.3	4.3	8.6	2	2	2	2	2	2.2	2.2	2.2	2.2	2.2	2.2	7.8	7.8	7.8	7.8	7.8	26.89655	17.72727	26.89655	26.89655	26.89655
15V19EE014	3.6	3.6	7.2	3.6	3.6	7.2	2	2	2	2	2	3.6	3.6	3.6	3.6	3.6	3.6	9.9	9.9	9.9	9.9	9.9	34.13793	22.5	34.13793	34.13793	34.13793
15V19EE016	5.5	5.5	11	5.5	5.5	11	2	2	2	2	2	3	3	3	3	3	3	10.5	10.5	10.5	10.5	10.5	36.2069	23.86364	36.2069	36.2069	36.2069
15V19EE017	6.5	6.5	13	6.5	6.5	13	2	2	2	2	2	7.2	7.2	7.2	7.2	7.2	7.2	15.7	15.7	15.7	15.7	15.7	54.13793	35.68182	54.13793	54.13793	54.13793
15V19EE020	5.3	5.3	10.6	5.3	5.3	10.6	2	2	2	2	2	4.4	4.4	4.4	4.4	4.4	4.4	11.7	11.7	11.7	11.7	11.7	40.34483	26.59091	40.34483	40.34483	40.34483
15V20EE400	6	6	12	6	6	12	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	4.2	12.2	12.2	12.2	12.2	12.2	42.06897	27.72727	42.06897	42.06897	42.06897
15V20EE401	5	5	10	5	5	10	2	2	2	2	2	5.2	5.2	5.2	5.2	5.2	5.2	12.2	12.2	12.2	12.2	12.2	42.06897	27.72727	42.06897	42.06897	42.06897
15V20EE402	5.6	5.6	11.2	5.6	5.6	11.2	2	2	2	2	2	2.8	2.8	2.8	2.8	2.8	2.8	10.4	10.4	10.4	10.4	10.4	35.86207	23.63636	35.86207	35.86207	35.86207
15V20EE404	4.3	4.3	8.6	4.3	4.3	8.6	2	2	2	2	2	5.4	5.4	5.4	5.4	5.4	5.4	11.7	11.7	11.7	11.7	11.7	40.34483	26.59091	40.34483	40.34483	40.34483
																		11.14737	11.14737	11.14737	11.14737	11.14737	38.4392	25.33493	38.4392	38.4392	38.4392


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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGG

SUBJECT	ELECTRICAL MACHINE DESIGN	SUBJECT CODE	18EE55
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COURSE OUTCOME

CO1	Identify and list, limitations, modern trends in design, manufacturing of electrical machines and properties of materials used in the electrical machines.
CO2	Derive the output equation of DC machine, discuss selection of specific loadings and magnetic circuits of DC machines, design the field windings of DC machine, and design stator and rotor circuits of a DC machine
CO3	Derive the output equations of transformer, discuss selection of specific loadings, estimate the number of cooling tubes, no load current and leakage reactance of core type transformer
CO4	Develop the output equation of induction motor, discuss selection of specific loadings and magnetic circuits of induction motor, design stator and rotor circuits of a induction motor.
CO5	Formulate the output equation of alternator, design the field windings of Synchronous machine, discuss short circuit ratio and its effects on performance of synchronous machines, design salient pole and non-salient pole alternators for given specifications

PROGRAM OUTCOMES

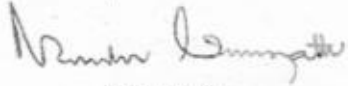
- PO1** Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.
- PO2** Problem analysis: Identify, formulate, research literature, and analyze complex engineering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

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	TANUJA K S											
BRANCH	EEE	ACADEMIC YEAR				2020-21						
COURSE	B.E	SEMESTER	V	SECTION	EEE							
SUBJECT	ELECTRICAL MACHINE DESIGN				SUBJECT CODE	18EE55						
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	3	-	-	-	-	-	-	-	-	-	-
CO2	2	3	3	-	-	-	-	-	-	-	-	-
CO3	2	3	3	-	-	-	-	-	-	-	-	-
CO4	2	3	3	-	-	-	-	-	-	-	-	-
CO5	2	3	3	-	-	-	-	-	-	-	-	-
AVERAGE	2	3	3	-	-	-	-	-	-	-	-	-
OVERALL MAPPING OF SUBJECT												2.66

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	94.17	1.88	2.82										
CO2	35.36	0.70	1.10	1.10									
CO3	51.93	1.03	1.55	1.55									
CO4	61.58	1.23	1.84	1.84									
CO5	61.58	1.23	1.84	1.84									
AVERAGE	60.92	1.21	1.83	1.58									
FINAL ATTAINMENT LEVEL													1.54

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Academic year	2020-21		SEM		5		Total strength			19		Subject		ELECTRICAL MACHINE DESIGN					Subject Code		IEEE55									
SEM, SEC, R&T	IA TEST 1(30M)		IA TEST 2(30M)			IA TEST 3(30M)			ASSIGNMENT / 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		
15V18EE001	18	18	3	2	5	6	7	13	2	2	2	2	2	5.2	5.2	5.2	5.2	5.2	25.2	10.2	9.2	13.2	14.2	86.89655	23.18182	31.72414	45.51724	48.96557		
15V19EE001	0	0	10	10	20	14	14	28	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	6.2	16.2	16.2	20.2	20.2	71.37931	36.81818	55.86207	69.65517	69.65517		
15V19EE002	18	18	6	5	11	4	4	8	2	2	2	2	2	5.8	5.8	5.8	5.8	5.8	25.8	13.8	12.8	11.8	11.8	88.96552	31.36364	44.13793	40.68966	40.68966		
15V19EE005	15	15	3	3	6	7	8	15	2	2	2	2	2	5.8	5.8	5.8	5.8	5.8	25.8	13.8	12.8	11.8	11.8	88.96552	31.36364	44.13793	40.68966	40.68966		
15V19EE006	5	5	5	5	10	7	8	15	2	2	2	2	2	6.6	6.6	6.6	6.6	6.6	22.8	10.8	10.8	14.8	15.8	78.62069	24.54545	37.24138	51.03448	54.48276		
15V19EE007	30	30	8	8	16	13	13	26	2	2	2	2	2	5.8	5.8	5.8	5.8	5.8	22.8	13.6	13.6	15.6	16.6	46.89655	30.90909	46.89655	51.7931	57.24138		
15V19EE008	15	15	4	4	8	7	8	15	2	2	2	2	2	5.2	5.2	5.2	5.2	5.2	17.2	15.2	15.2	20.2	25	128.2759	34.54545	52.41379	69.65517	86.2069		
15V19EE009	18	18	7	8	15	5	4	9	2	2	2	2	2	7.2	7.2	7.2	7.2	7.2	24.2	13.2	13.2	16.2	17.2	81.44828	30	45.51724	55.86207	59.31034		
15V19EE011	24	24	14	14	28	14	15	29	2	2	2	2	2	5.8	5.8	5.8	5.8	5.8	31.8	21.8	21.8	21.8	22.8	109.6552	49.54545	75.17241	78.62069	77.58621		
15V19EE012	21	21	7	8	15	7	8	15	2	2	2	2	2	6.4	6.4	6.4	6.4	6.4	29.4	15.4	16.4	15.4	16.4	101.3793	35	56.55172	75.17241	78.62069		
15V19EE013	19	19	5	5	10	6	6	12	2	2	2	2	2	5	5	5	5	5	26	12	12	13	13	89.65517	27.27273	41.37931	44.82759	44.82759		
15V19EE014	20	20	3	4	7	1	2	3	2	2	2	2	2	0	0	0	0	0	22	5	6	3	4	75.86207	11.36364	20.68966	20.34483	13.7931		
15V19EE015	15	15	6	6	12	7	8	15	2	2	2	2	2	5.4	5.4	5.4	5.4	5.4	22.4	13.4	13.4	14.4	15.4	77.24138	30.45455	46.2069	49.65517	53.10345		
15V19EE016	30	30	13	12	25	11	12	23	2	2	2	2	2	8.4	8.4	8.4	8.4	8.4	40.4	23.4	22.4	21.4	22.4	139.3103	53.18182	77.24138	73.7931	77.24138		
15V19EE017	20	20	6	6	12	7	8	15	2	2	2	2	2	8.2	8.2	8.2	8.2	8.2	30.2	16.2	16.2	17.2	18.2	104.1379	36.81818	55.86207	59.31034	62.75862		
15V20EE400	22	22	7	7	14	8	9	17	2	2	2	2	2	6.4	6.4	6.4	6.4	6.4	30.4	15.4	15.4	16.4	17.4	104.8276	35	51.03448	56.55172	60		
15V20EE401	20	20	7	8	15	1	0	1	2	2	2	2	2	4.8	4.8	4.8	4.8	4.8	26.8	13.8	14.8	7.8	6.8	92.41379	31.36364	51.03448	26.89655	23.44828		
15V20EE402	0	0	10	9	19	13	14	27	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	6.2	16.2	15.2	19.2	20.2	71.37931	36.81818	52.41379	66.2069	69.65517		
15V20EE404	0	0	7	8	15	7	8	15	2	2	2	2	2	6.6	6.6	6.6	6.6	6.6	8.6	15.6	16.6	15.6	16.6	29.65517	35.45455	57.24138	53.7931	57.24138		
																			23.74737	14.32632	14.37895	15.06316	15.89476	81.88748	32.55981	49.58258	51.94192	54.80944		

Manjunath

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**DEPARTMENT OF EEE**

5 20-24

SUBJECT	High Voltage Engineering	SUBJECT CODE	18EE56
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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.
- 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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N. Srinivasan
PRINCIPAL
SIET, TUMAKURU.

COLLEGE		SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME		MRS. SHWETHA T M											
BRANCH		EEE			ACADEMIC YEAR				2020-21				
COURSE	B.E	SEMESTER			V	SECTION							
SUBJECT	High Voltage Engineering					SUBJECT CODE				18EE56			
CO & PO MAPPING													
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	
CO1	2	3	2	2	1						2	1	
CO2	2	2	3	1	2						2	1	
CO3	2	3	3	2	1						2	1	
CO4	2	2	2	2	2						2	1	
CO5	2	3	3	1	1						2	1	
AVERAGE	2	2.6	2.6	1.6	1.4						2	1	
OVERALL MAPPING OF SUBJECT												1.88	

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	58.01	1.2	1.7	1.2	1.2	0.6						1.2	0.6
CO2	42.16	0.8	0.8	1.3	0.4	0.8						0.8	0.4
CO3	58.50	1.2	1.8	1.8	1.2	0.6						1.2	0.6
CO4	55.97	1.1	1.1	1.1	1.1	1.1						1.1	0.6
CO5	54.08	1.1	1.6	1.6	0.5	0.5						1.1	0.5
AVERAGE	53.74	1.075	1.416	1.384	0.882	0.734						1.075	0.537
FINAL ATTAINMENT LEVEL													1.014

G. H. Ram
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Shwetha T M
 PRINCIPAL
 SIET., TUMAKURU.

DEPARTMENT OF EEE

SUBJECT	POWER SYSTEM ANALYSIS -II	SUBJECT CODE	17EE71
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COURSE OUTCOME

CO1	Formulate network matrices and models for solving load flow problems.
CO2	Perform steady state power flow analysis of power systems using numerical iterative techniques.
CO3	Solve issues of economic load dispatch and unit commitment problems.
CO4	Analyze short circuit faults in power system networks using bus impedance matrix.
CO5	Apply Point by Point method and RungeKutta Method to solve Swing Equation

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.

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Ramesh Kumar
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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.

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	K S TANUJA											
BRANCH	EEE			ACADEMIC YEAR				2020-21				
COURSE	B.E	SEMESTER		VII	SECTION			EEE				
SUBJECT	POWER SYSTEM ANALYSIS-II					SUBJECT CODE			17EE71			
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3	-	-	-	-	-	-	-	-	-	-
CO2	3	3	-	-	-	-	-	-	-	-	-	-
CO3	3	3	-	-	-	-	-	-	-	-	-	2
CO4	2	3	-	-	-	-	-	-	-	-	-	-
CO5	3	3	2	-	-	-	-	-	-	-	-	-
AVERAGE	2.8	3	2	-	-	-	-	-	-	-	-	2
OVERALL MAPPING OF SUBJECT												2.45

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N. S. Srinivas
PRINCIPAL

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	58	1.74	1.74										
CO2	87.3	2.61	2.61										
CO3	58	1.74	1.74										1.16
CO4	106.8	2.13	3.20										
CO5	94.2	2.82	2.82	1.88									
AVERAGE	80.86	2.20	2.42	1.88									1.16
FINAL ATTAINMENT LEVEL													1.91

G. H. Ramesh
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 PRINCIPAL
 SIET., TUMAKURU.

DEPARTMENT OF EEE

SUBJECT	POWER SYSTEM PROTECTION	SUBJECT CODE	17EE72
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COURSE OUTCOME

CO1	Discuss performance of protective relays, components of protection scheme and relay terminology over current protection
CO2	Explain the working of distance relays and the effects of arc resistance, power swings, line length and source impedance on performance of distance relays.
CO3	Discuss pilot protection, construction, operating principles and performance of differential relays and discuss protection of generators, motors, transformer and Bus Zone Protection.
CO4	Explain the construction and operation of different types of circuit breakers.
CO5	Outline features of fuse, causes of over voltages and its protection, also modern trends in Power System Protection

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.

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Principals
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PO9 Individual and team work: Function effectively as an individual, and as a member or leader in

diverse teams, and in multidisciplinary settings.

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

PO11 Project management and finance: An ability to use the modern engineering tools, techniques,

skills and management principles to do work as a member and leader in a team, to manage

projects in multidisciplinary environments.

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

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	V RAJESH KUMAR											
BRANCH	EEE			ACADEMIC YEAR				2020-21				
COURSE	B.E	SEMESTER		VII	SECTION			EEE				
SUBJECT	POWER SYSTEM PROTECTION					SUBJECT CODE		17EE72				
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	-	-	-	-	-	-	-	-	-	-	-
CO2	2	2	-	-	-	2	-	-	-	-	-	-
CO3	3	-	-	-	-	2	-	-	-	-	-	-
CO4	3	-	-	-	-	2	-	-	-	-	-	-
CO5	2	2	-	-	-	2	2	-	-	-	-	2
AVERAGE	2.62	2	-	-	-	2	2	-	-	-	-	2
												2.12

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N. S. Srinivas
 PRINCIPAL
 S.I.E.T., TUMAKURU.

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	63.4	1.90											
CO2	85.9	1.71	1.71				1.71						
CO3	63.4	1.9					1.26						
CO4	105.6	3.16					2.11						
CO5	92.8	1.85	1.85				1.85	1.85					1.85
AVERAGE	82.22	2.1	1.78				1.73	1.85					1.85
FINAL ATTAINMENT LEVEL													1.86

G. H. Ramesh
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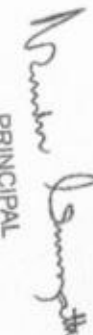
Nandana Kumari
PRINCIPAL
SIET., TUMAKURU.

CEN	IA TEST 1		IA TEST 2			IA TEST 3			Assignment					SEE					TOTAL					Average								
	CO1	CO2	CO3	CO4	TOTAL	CO6	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5		
17EE002	10	15	25	10	16	26	10	17	27	2	2	2	2	2	10	7.6	7.6	7.6	7.6	7.6	38	19.6	24.6	19.6	35.6	26.6	0.676	0.848	0.676	1.047	0.917	
17EE004	10	18	28	10	19	29	10	20	30	2	2	2	2	2	10	7	7	7	7	7	35	19	27	19	38	29	0.655	0.931	0.655	1.118	1.000	
17EE005	10	19	29	10	20	30	10	21	31	2	2	2	2	2	10	8.8	8.8	8.8	8.8	8.8	44	20.8	29.8	20.8	40.8	31.8	0.717	1.028	0.717	1.200	1.097	
17EE009	10	17	27	10	18	28	10	19	29	2	2	2	2	2	10	4.2	4.2	4.2	4.2	4.2	21	16.2	23.2	16.2	34.2	25.2	0.559	0.800	0.559	1.006	0.869	
17EE400	10	15	25	10	16	26	10	17	27	2	2	2	2	2	10	7.4	7.4	7.4	7.4	7.4	37	19.4	26.4	19.4	37.4	28.4	0.669	0.910	0.669	1.100	0.979	
17EE402	10	16	26	10	17	27	10	18	28	2	2	2	2	2	10	5.8	5.8	5.8	5.8	5.8	29	17.8	22.8	17.8	33.8	24.8	0.614	0.786	0.614	0.994	0.855	
17EE403	10	15	25	10	16	26	10	17	27	2	2	2	2	2	10	5.4	5.4	5.4	5.4	5.4	27	17.4	22.4	17.4	34.4	25.4	0.600	0.807	0.600	1.012	0.876	
TOTAL	80	132	212	80	140	220	80	148	228	16	16	16	16	16	80	51.2	51.2	51.2	51.2	51.2	256	147.2	199.2	147.2	287.2	215.2	5.07586	6.868966	5.075862	8.447059	7.42069	
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	16.5	26.5	10	17.5	27.5	10	18.5	28.5	2	2	2	2	2	10	6.4	6.4	6.4	6.4	6.4	32	18.4	24.9	18.4	35.9	26.9	6.14	8.59	6.14	10.6	9.28	

2020-21

PSP 17EE72

V. Rajesh Kumar


PRINCIPAL
S.I.E.T., TUMAKURU.



DEPARTMENT OF EEE

7th 20-21

SUBJECT	High Voltage Engineering	SUBJECT CODE	17EE73
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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.
- 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.
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N. Srinivasulu
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COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	MRS. SHWETHA T M											
BRANCH	EEE			ACADEMIC YEAR				2020-21				
COURSE	B.E	SEMESTER			VII	SECTION						
SUBJECT	High Voltage Engineering						SUBJECT CODE		17EE73			
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	3	2	2	1						2	1
CO2	2	2	3	1	2						2	1
CO3	2	3	3	2	1						2	1
CO4	2	2	2	2	2						2	1
CO5	2	3	3	1	1						2	1
AVERAGE	2	2.6	2.6	1.6	1.4						2	1
OVERALL MAPPING OF SUBJECT												1.88

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	58.6	1.172	1.758	1.172	1.172	0.586						1.172	0.586
CO2	69.6	1.392	1.392	2.088	0.696	1.392						1.392	0.696
CO3	57.5	1.15	1.725	1.725	1.15	0.575						1.15	0.575
CO4	63.5	1.27	1.27	1.27	1.27	1.27						1.27	0.635
CO5	70.0	1.4	2.1	2.1	0.7	0.7						1.4	0.7
AVERAGE	63.84	1.2768	1.649	1.671	0.9976	0.9046						1.2768	0.6384
FINAL ATTAINMENT LEVEL													1.202

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Shwetha T M
 PRINCIPAL
 SIET., TUMAKURU.

SEM - V - EEE	IA TEST 1			IA TEST 2			IA TEST 3			Assignment						SEE HVE 2020-2021					Total					Average						
	CO1	CO2	TOTAL	CO1	CO2	TOTAL	CO1	CO2	TOTAL	CO1	CO2	CO3	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	TOTAL	CO1(34)	CO2(34)	CO3(34)	CO4(34)	CO5(34)	CO1(34)	CO2(34)	CO3(34)	CO4(34)	CO5(34)	
15V17EE006	11	14	25	12	15	27	11	18	29	2	2	2	2	2	10	4.8	4.8	4.8	4.8	4.8	24	17.8	20.8	18.8	32.8	24.8	52	61	55	61	73	
15V17EE012	11	9	20	13	11	24	12	16	28	2	2	2	2	2	10	4.2	4.2	4.2	4.2	4.2	21	17.2	15.2	19.2	29.2	22.2	51	45	56	54	63	
15V18EE002	12	4	16	14	5	19	18	5	19	2	2	2	2	2	10	5.4	5.4	5.4	5.4	5.4	27	19.4	11.4	21.4	26.4	12.4	57	34	63	49	66	
15V18EE003	13	11	24	15	13	28	13	16	29	2	2	2	2	2	10	5.2	5.2	5.2	5.2	5.2	26	20.2	18.2	22.2	33.2	23.2	59	54	65	61	68	
15V18EE004	14	3	17	12	11	23	15	11	26	2	2	2	2	2	10	6.4	6.4	6.4	6.4	6.4	32	22.4	11.4	20.4	34.4	19.4	66	34	60	64	57	
15V18EE005	12	-1	11	13	6	19	14	1	15	2	2	2	2	2	10	5.4	5.4	5.4	5.4	5.4	27	19.4	6.4	20.4	27.4	8.4	57	19	60	51	25	
15V18EE006	13	11	24	14	11	25	12	17	29	2	2	2	2	2	10	9	9	9	9	9	45	24	22	25	34	28	71	65	74	63	62	
15V18EE007	14	5	19	12	4	16	14	5	19	2	2	2	2	2	10	4.4	4.4	4.4	4.4	4.4	22	20.4	11.4	18.4	24.4	11.4	60	34	54	45	38	
15V18EE008	12	6	18	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	12.2	19.2	25.2	16.2	54	36	36	47	48	
15V18EE009	12	4	16	14	5	19	15	4	19	2	2	2	2	2	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15V18EE011	13	11	24	12	16	28	13	7	20	2	2	2	2	2	10	6.4	6.4	6.4	6.4	6.4	32	21.4	19.4	20.4	37.4	15.4	63	57	60	68	45	
15V18EE012	10	2	12	13	4	17	14	5	19	2	2	2	2	2	10	3.2	3.2	3.2	3.2	3.2	16	15.2	7.2	18.2	23.2	10.2	45	21	54	43	30	
15V19EE400	14	9	23	11	13	24	14	11	25	2	2	2	2	2	10	5.2	5.2	5.2	5.2	5.2	26	21.2	16.2	18.2	34.2	18.2	62	48	54	63	54	
15V19EE401	12	11	23	10	15	25	12	18	30	2	2	2	2	2	10	4.8	4.8	4.8	4.8	4.8	24	18.8	17.8	16.8	33.8	24.8	55	52	49	63	71	
15V19EE402	14	3	17	14	9	23	13	13	26	2	2	2	2	2	10	5	5	5	5	5	25	21	10	21	29	20	62	29	67	54	59	
15V19EE403	12	12	24	12	16	28	14	15	29	2	2	2	2	2	10	4.6	4.6	4.6	4.6	4.6	23	18.6	18.6	18.6	36.6	21.6	55	55	55	68	64	
15V19EE404	13	7	20	12	12	24	12	16	28	2	2	2	2	2	10	4.4	4.4	4.4	4.4	4.4	22	19.4	13.4	18.4	30.4	22.4	57	39	54	56	66	
15V19EE405	15	9	24	14	6	20	13	15	28	2	2	2	2	2	10	9.4	9.4	9.4	9.4	9.4	47	26.4	20.4	25.4	30.4	26.4	78	60	75	56	71	
TOTAL	222	130	352	230	179	409	237	203	440	36	36	36	36	36	180	92	92	92	92	92	460	355	258	358	544	331	1044.118	758.8235	1052.341	1007.407	971.6294	
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	18
Average	12.61111	7.222222	19.83333	12.77778	9.944444	22.72222	13.16667	11.27778	24.44444	18	2	2	2	2	10	5.111111	5.111111	5.111111	5.111111	5.111111	25.55556	19.722222	14.333333	19.88889	30.22222	18.38889	58.01	42.16	58.50	55.97	54.03	

18EE56 HVE 2020-2021

Manjunath Sunmangtho
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 TUMKUR-572106.

DEPARTMENT OF EEE

SUBJECT	UTILIZATION OF ELECTRICAL POWER	SUBJECT CODE	17EE742
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COURSE OUTCOME

CO1	Discuss different methods of electric heating & welding.
CO2	Discuss the laws of electrolysis, extraction, refining of metals and electro deposition process.
CO3	Discuss the laws of illumination, different types of lamps, lighting schemes and design of lighting systems.
CO4	Analyze systems of electric traction, speed time curves and mechanics of train movement.
CO5	Explain the motors used for electric traction, their control & braking and power supply system used for electric traction

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.

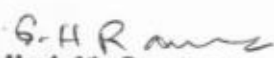
PO6 The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.

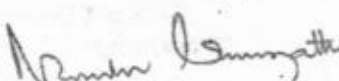
PO7 Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

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.


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

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

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	MUKTHA E T											
BRANCH	EEE			ACADEMIC YEAR				2021-22				
COURSE	B.E	SEMESTER		VII	SECTION			EEE				
SUBJECT	UTILIZATION OF ELECTRICAL POWER						SUBJECT CODE		17EE742			
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

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CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	60.26	1.20	1.80	1.20									
CO2	80.95	1.61	2.42	2.42	2.42								2.42
CO3	60.26	1.20	1.80	1.20									
CO4	101.40	2.02	3.04										
CO5	87.84	1.75	2.63										2.63
AVERAGE	78.14	1.55	2.33	1.60	2.42								2.52
FINAL ATTAINMENT LEVEL													8.404

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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	14	24	10	15	25	10	16	26	2	2	2	2	2	10	4.4	4.4	4.4	4.4	4.4	22	16.4	20.4	16.4	31.4	22.4	0.57	0.70	0.57	0.92	0.77
1sv17EE004	10	18	28	10	19	29	10	20	30	2	2	2	2	2	10	6.2	6.2	6.2	6.2	6.2	31	18.2	26.2	18.2	37.2	28.2	0.63	0.90	0.63	1.09	0.97
1sv17EE005	10	18	28	10	19	29	10	20	30	2	2	2	2	2	10	7.2	7.2	7.2	7.2	7.2	36	19.2	27.2	19.2	38.2	29.2	0.66	0.94	0.66	1.12	1.01
1sv17EE009	10	18	28	10	19	29	10	20	30	2	2	2	2	2	10	4.2	4.2	4.2	4.2	4.2	21	16.2	24.2	16.2	35.2	26.2	0.56	0.83	0.56	1.04	0.90
1sv17EE010	10	18	28	10	19	29	10	20	30	2	2	2	2	2	10	6	6	6	6	6	30	18	26	18	37	28	0.62	0.90	0.62	1.09	0.97
1sv18EE400	10	15	25	10	16	26	10	17	27	2	2	2	2	2	10	6	6	6	6	6	30	18	23	18	34	25	0.62	0.79	0.62	1.00	0.86
1sv18EE402	10	14	24	10	15	25	10	16	26	2	2	2	2	2	10	4.4	4.4	4.4	4.4	4.4	22	16.4	20.4	16.4	31.4	22.4	0.57	0.70	0.57	0.92	0.77
1sv18EE403	10	13	23	10	14	24	10	15	25	2	2	2	2	2	10	5.4	5.4	5.4	5.4	5.4	27	17.4	20.4	17.4	31.4	22.4	0.60	0.70	0.60	0.92	0.77
TOTAL	80	128	208	80	136	216	80	144	224	16	16	16	16	16	80	5.4	5.4	5.4	5.4	5.4	27	17.4	20.4	17.4	31.4	22.4	0.60	0.70	0.60	0.92	0.77
Total students	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	43.8	43.8	43.8	43.8	43.8	219	139.8	187.8	139.8	275.8	203.8	4.82	6.48	4.82	8.11	7.03
Average	10	16	26	10	17	27	10	18	28	2	2	2	2	2	10	5.475	5.475	5.475	5.475	5.475	27.375	17.48	23.48	17.48	34.48	25.48	60.26	80.95	60.26	#####	87.84

2020-21

UEP 17EE742

Nandini Sanyal
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G. H. Ramu
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Shri Devi Institute of Engineering & Technology
TUMKUR-572106.

DEPARTMENT OF EEE

SUBJECT	TESTING & COMMISSIONING OF POWER SYSTEM EQUIPMENTS	SUBJECT CODE	17EE752
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COURSE OUTCOME

CO1	Describe the process to plan, to control and implement commissioning of electrical equipments
CO2	Differentiate the performance specifications of transformer and induction motors
CO3	Demonstrate the routine tests for synchronous machines, transformer and induction motors and switchgears
CO4	Describe the corrective and preventive maintenance of electrical equipments
CO5	Explain the operation of an electrical equipments such as isolators, circuit breakers, induction 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 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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Namin Sanyal
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COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	UMABAI											
BRANCH	EEE			ACADEMIC YEAR				2020-2021				
COURSE	B.E	SEMESTER		VII		SECTION						
SUBJECT	TESTING & COMMISSIONING OF POWER SYSTEM EQUIPMENTS						SUBJECT CODE		18EE752			
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	2	1			2	2	2	1	1		1
CO2	3	2	1			2	2	2	1	1		1
CO3	3	2	1			2	2	2	1	1		1
CO4	3	2	1			2	2	2	1	1		1
CO5	3	2	1			2	2	2	1	1		1
AVERAGE	3	2	1			2	2	2	1	1		1
OVERALL MAPPING OF SUBJECT												1.66

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	69.9	2.09	1.39	0.69			1.39	1.39	1.39	0.69	0.69		0.69
CO2	28.96	0.86	0.579	0.28			0.579	0.579	0.579	0.28	0.28		0.28
CO3	66.89	2.00	1.33	0.66			1.33	1.33	1.33	0.66	0.66		0.66
CO4	46.36	1.39	0.92	0.46			0.92	0.92	0.92	0.46	0.46		0.46
CO5	82.41	2.47	1.64	0.82			1.64	1.64	1.64	0.82	0.82		0.82
AVERAGE	58.9	2.93	1.17	0.58			1.17	1.17	1.17	0.58	0.58		0.58
FINAL ATTAINMENT LEVEL													1.10

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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	15	27	11	17	28	14	12	26	2	2	2	2	2	10	7.6	7.6	7.6	7.6	7.6	38	21.6	9.6	20.6	23.6	21.6	0.745	0.331	0.710	0.536	0.745	
1sv17EE004	14	16	30	14	15	29	12	18	30	2	2	2	2	2	10	7.4	7.4	7.4	7.4	7.4	37	23.4	9.4	23.4	21.4	27.4	0.807	0.324	0.807	0.486	0.945	
1sv17EE005	11	19	30	13	16	29	11	19	30	2	2	2	2	2	10	6.4	6.4	6.4	6.4	6.4	32	19.4	8.4	21.4	19.4	27.4	0.669	0.290	0.738	0.441	0.945	
1sv17EE009	10	20	30	12	17	29	13	17	30	2	2	2	2	2	10	5.8	5.8	5.8	5.8	5.8	29	17.8	7.8	19.8	20.8	24.8	0.614	0.269	0.683	0.473	0.855	
1sv17EE010	12	13	25	11	12	23	14	11	25	2	2	2	2	2	10	7	7	7	7	7	35	21	9	20	23	20	0.724	0.310	0.690	0.523	0.690	
1sv18EE400	13	11	24	9	14	23	11	14	25	2	2	2	2	2	10	6.6	6.6	6.6	6.6	6.6	33	21.6	8.6	17.6	19.6	22.6	0.745	0.297	0.607	0.445	0.779	
1sv18EE402	14	10	24	7	19	26	10	16	26	2	2	2	2	2	10	5	5	5	5	5	25	21	7	14	17	23	0.724	0.241	0.483	0.386	0.793	
1sv18EE403	9	19	28	11	15	26	11	17	28	2	2	2	2	2	10	5.4	5.4	5.4	5.4	5.4	27	16.4	7.4	18.4	18.4	24.4	0.566	0.255	0.634	0.418	0.841	
TOTAL	95	123	218	88	125	213	96	124	220	16	16	16	16	16	80	51.2	51.2	51	51	51.2	256	162.2	67.2	155.2	163.2	191.2	5.593103	2.317241	5.351724	3.709091	6.593103	
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	11.9	15.4	27.3	11	15.6	26.6	12	16	27.5	2	2	2	2	2	10	6.4	6.4	6.4	6.4	6.4	32	20.275	8.4	19.4	20.4	23.9	69.914	28.966	66.897	46.364	82.414	

2020-21

T & C 17EE752

Manjunath Sumpathi
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EVEN SEMESTER



SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

20-21 Even
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGG

SUBJECT	BASIC ELECTRICAL ENGINEERING	SUBJECT CODE	18ELE23
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COURSE OUTCOME

CO1	Analysis of Resistive Circuits and Solution of resistive circuits with independent sources
CO2	Two Terminal Element Relationships for inductors and capacitors and analysis of magnetic circuits.
CO3	Discuss the laws of illumination, different types of lamps, lighting schemes and design of lighting systems.
CO4	Analysis of Single Phase AC Circuits, the representation of alternating quantities and determining the power in these circuits.
CO5	Analysis of Single Phase AC Circuits, the representation of alternating quantities and determining the power in these circuits.

PROGRAM OUTCOMES

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

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(Signature)


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COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	TANUJA KS											
BRANCH	EEE			ACADEMIC YEAR				2020-21				
COURSE	B.E	SEMESTER		II		SECTION			EEE			
SUBJECT	BASIC ELECTRICAL ENGINEERING					SUBJECT CODE			21ELE23			
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	3	3										
CO2	3	2										
CO3	3	2										
CO4	3	2										
CO5	3	2										
AVERAGE	3	2.2										
OVERALL MAPPING OF SUBJECT												2.6

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	53.655	1.61	1.61										
CO2	35.3636	1.06	0.71										
CO3	51.93	1.56	1.04										
CO4	61.5862	1.85	1.23										
CO5	61.586	1.85	1.23										
AVERAGE	52.82	1.696	1.164										
FINAL ATTAINMENT LEVEL													1.43

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Academic year	2020-21		SEM		2		Total strength		20		Subject		BASIC ELECTRICAL ENGINEERING		Subject Code		IRULE2																						
	SEM CODE	IA TEST (30%)	IA TEST (30%)	IA TEST (30%)	IA TEST (30%)	IA TEST (30%)	IA TEST (30%)	IA TEST (30%)	IA TEST (30%)	IA TEST (30%)	ASSIGNMENT (10%)	QUIZ (10%)	SEE MARKS	SEE MARKS	SEE MARKS	SEE MARKS	SEE MARKS	SEE MARKS	SEE MARKS	SEE MARKS	SEE MARKS	SEE MARKS	SEE MARKS	SEE MARKS	SEE MARKS	SEE MARKS	SEE MARKS	SEE MARKS	SEE MARKS	SEE MARKS	SEE MARKS	SEE MARKS	SEE MARKS	SEE MARKS	SEE MARKS				
15V20E0003	21	21	10	10	20	11	12	23	2	2	2	2	2	5	5	5	5	5	28	27	27	24	19	58.62089	58.63636	58.62089	62.08897	65.51724											
15V20E0003	22	22	15	15	30	15	15	30	2	2	2	2	2	7	7	7	7	7	31	24	24	24	24	82.75862	54.54545	82.75862	82.75862	82.75862											
15V20E0001	23	23	10	8	18	10	9	19	2	2	2	2	2	4.8	4.8	4.8	4.8	4.8	29.8	26.8	26.8	26.8	14.8	15.8	57.93103	58.18182	51.03448	57.93103	54.48276										
15V20E0002	21	21	9	8	17	6	12	18	2	2	2	2	2	5.8	5.8	5.8	5.8	5.8	28.8	26.8	26.8	26.8	11.8	11.8	57.93103	58.18182	40.68966	47.58621	68.27586										
15V20E0001	19	19	8	8	16	13	12	25	2	2	2	2	2	5.6	5.6	5.6	5.6	5.6	28.6	25.6	25.6	20.6	19.6	53.7931	55.45455	53.7931	71.03448	67.58621											
15V20E0003	25	25	5	6	11	10	9	19	2	2	2	2	2	4.6	4.6	4.6	4.6	4.6	21.6	21.6	21.6	12.6	12.6	40	26.36364	43.44828	57.24138	53.7931											
15V20E0004	14	14	5	4	9	12	13	25	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	20.2	17.2	17.2	10.2	10.2	18.2	19.2	38.62089	25.45455	35.17241	62.75862	66.2089									
15V20E0005	21	21	7	8	15	5	4	9	2	2	2	2	2	4.6	4.6	4.6	4.6	4.6	27.6	23.6	23.6	14.6	11.6	10.6	46.89655	30.90909	50.84883	40	36.55172										
15V20E0006	16	16	4	5	9	10	10	20	2	2	2	2	2	3.8	3.8	3.8	3.8	3.8	21.8	19.8	19.8	10.8	11.8	15.8	33.7931	22.27273	37.24138	54.48276	54.48276										
15V20E0007	21	21	5	5	10	10	7	17	2	2	2	2	2	5	5	5	5	5	28	12	12	17	14	41.37931	27.27273	41.37931	58.62089	48.27586											
15V20E0008	21	21	7	8	15	12	11	23	2	2	2	2	2	5.8	5.8	5.8	5.8	5.8	28.8	24.8	24.8	15.8	16.8	18.8	51.03448	33.63636	54.48276	68.27586	64.82759										
15V20E0009	19	19	5	6	11	10	8	18	2	2	2	2	2	4.4	4.4	4.4	4.4	4.4	25.4	21.4	21.4	12.4	12.4	14.4	38.33334	25.90909	42.75862	56.55172	49.65517										
15V20E0010	22	22	8	6	14	10	10	20	2	2	2	2	2	4.8	4.8	4.8	4.8	4.8	28.8	25.8	25.8	12.8	12.8	16.8	34.48276	35.90909	44.17931	57.93103	57.93103										
15V20E0011	19	19	12	6	18	8	4	8	2	2	2	2	2	5.8	5.8	5.8	5.8	5.8	24.8	21.8	21.8	11.8	9.8	9.8	61.37931	40.45455	40.68966	33.7931	33.7931										
15V20E0012	13	13	4	5	9	11	11	22	2	2	2	2	2	4.4	4.4	4.4	4.4	4.4	19.4	16.4	16.4	11.4	11.4	17.4	35.86207	23.63636	39.1034	40	40										
15V20E0013	25	25	15	15	30	15	15	30	2	2	2	2	2	6.2	6.2	6.2	6.2	6.2	33.2	28.2	28.2	17.2	17.2	25.2	80	52.72727	80	80	80										
15V20E0014	22	22	7	7	14	14	14	28	2	2	2	2	2	6.6	6.6	6.6	6.6	6.6	30.6	25.6	25.6	12.6	12.6	22.6	53.7931	35.45455	53.7931	77.93103	77.93103										
15V20E0015	22	22	7	7	14	14	14	28	2	2	2	2	2	6.6	6.6	6.6	6.6	6.6	29.6	20.6	20.6	20.6	19.6	21.6	71.72414	47.27273	71.72414	62.08897	62.08897										
15V20E0016	23	23	12	12	24	15	15	30	2	2	2	2	2	8.8	8.8	8.8	8.8	8.8	33.8	29.8	29.8	20.8	20.8	24.8	75.86207	50	75.86207	71.88207	76.1034										
15V20E0017	24	24	11	11	22	13	14	27	2	2	2	2	2	7	7	7	7	7	33	22	22	11	11	14	37.95103	25	41.37931	44.82759	48.27586										
15V20E0018	23	23	5	6	11	7	8	15	2	2	2	2	2	8	8	8	8	8	4	29	11	11	14	14	17.88	33.45517	35.36364	51.93103	61.58621	61.58621									

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Principal
 PRINCIPAL
 SIET, TUMAKURU



DEPARTMENT OF EEE

SUBJECT	POWER GENERATION ECONOMICS	SUBJECT CODE	18EE42
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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.

G. H. Ramesh
Head of the Department
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N. S. Srinivas
PRINCIPAL
SIET., TUMAKURU.

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	MRS. SWETHA T M											
BRANCH	EEE			ACADEMIC YEAR				2020-21				
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	49.4	1.48	1.48	0.99			0.99	0.99	0.49	0.49	0.49		0.49
CO2	48.7	0.97	0.97	0.97			0.97	0.49	0.49	0.49	0.49		0.49
CO3	56.6	1.70	1.13	1.13			1.13	1.13	0.57	0.57	0.57		0.57
CO4	56.1	1.12	1.12	1.12			1.12	1.12	0.56	0.56	0.56		0.56
CO5	54.1	1.62	1.08	1.08			1.08	0.54	0.54	0.54	0.54		0.54
AVERAGE	52.98	1.380	1.158	1.060			1.060	0.854	0.530	0.530	0.530		0.530
FINAL ATTAINMENT LEVEL													0.847

G. U. R. Anand
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Principals Signature
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 SIET, TUMAKURU

SEM: IV, EEE	IA TEST 1			IA TEST 2			IA TEST 3			Assignment						SEE PGE 2020-2021					TOTAL					Average						
	USN	CO1	CO2	TOTAL	CO3	CO4	TOTAL	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5						
15V18EE001	10	7	17	15	8	23	14	12	26	2	2	2	2	2	10	3.8	3.8	3.8	3.8	3.8	19	15.8	12.8	20.8	27.8	17.8	46	38	61	51	52	
15V19EE001	12	14	26	12	16	28	13	17	30	2	2	2	2	2	10	4.6	4.6	4.6	4.6	4.6	23	18.6	20.6	18.6	35.6	23.6	55	61	55	66	69	
15V19EE002	13	7	20	14	9	23	13	13	26	2	2	2	2	2	10	3.4	3.4	3.4	3.4	3.4	17	18.4	12.4	19.4	27.4	18.4	54	36	57	51	54	
15V19EE005	8	12	20	13	11	24	9	19	28	2	2	2	2	2	10	5.8	5.8	5.8	5.8	5.8	29	15.8	19.8	20.8	27.8	26.8	46	58	61	51	79	
15V19EE006	11	7	18	10	10	20	12	13	25	2	2	2	2	2	10	3.6	3.6	3.6	3.6	3.6	18	16.6	12.6	15.6	27.6	18.6	49	37	46	51	55	
15V19EE007	15	15	30	13	11	24	16	14	30	2	2	2	2	2	10	5.8	5.8	5.8	5.8	5.8	29	22.8	22.8	20.8	34.8	21.8	67	67	61	64	64	
15V19EE008	9	9	18	9	11	20	14	8	22	2	2	2	2	2	10	3.8	3.8	3.8	3.8	3.8	19	14.8	14.8	14.8	30.8	13.8	44	44	44	57	41	
15V19EE009	10	10	20	12	13	25	16	11	27	2	2	2	2	2	10	3.8	3.8	3.8	3.8	3.8	19	15.8	15.8	17.8	34.8	16.8	46	46	52	64	49	
15V19EE011	12	17	29	14	14	28	17	13	30	2	2	2	2	2	10	5.8	5.8	5.8	5.8	5.8	29	19.8	24.8	21.8	38.8	20.8	58	73	64	72	61	
15V19EE012	7	8	15	16	4	20	14	5	19	2	2	2	2	2	10	5.8	5.8	5.8	5.8	5.8	19	14.8	15.8	23.8	25.8	12.8	44	46	70	48	38	
15V19EE013	13	9	22	13	10	23	13	14	27	2	2	2	2	2	10	3.2	3.2	3.2	3.2	3.2	16	18.2	14.2	18.2	28.2	19.2	54	42	54	52	56	
15V19EE014	9	4	13	15	2	17	10	5	15	2	2	2	2	2	10	2.2	2.2	2.2	2.2	2.2	11	13.2	8.2	19.2	16.2	9.2	39	24	56	30	27	
15V19EE016	12	8	20	9	14	23	16	10	26	2	2	2	2	2	10	3.8	3.8	3.8	3.8	3.8	19	17.8	13.8	14.8	35.8	15.8	52	41	44	66	46	
15V19EE017	9	12	21	12	10	22	13	13	26	2	2	2	2	2	10	6.8	6.8	6.8	6.8	6.8	34	17.8	20.8	20.8	31.8	21.8	52	61	61	59	64	
15V19EE020	12	7	19	12	10	22	13	12	25	2	2	2	2	2	10	4.8	4.8	4.8	4.8	4.8	24	18.8	13.8	18.8	29.8	18.8	55	41	55	55	55	
15V20EE400	10	7	17	13	11	24	9	16	25	2	2	2	2	2	10	4.8	4.8	4.8	4.8	4.8	23	16.8	13.8	19.8	26.8	22.8	49	41	58	50	67	
15V20EE401	6	13	19	16	8	24	16	10	26	2	2	2	2	2	10	4.2	4.2	4.2	4.2	4.2	21	12.2	19.2	22.2	30.2	16.2	36	56	65	56	48	
15V20EE402	8	16	24	12	14	26	15	10	25	2	2	2	2	2	10	4.2	4.2	4.2	4.2	4.2	21	14.2	22.2	18.2	35.2	16.2	42	65	54	65	48	
Total	186	182	368	230	186	416	243	215	458	36	36	36	36	36	180	80.2	80.2	80.2	80.2	80.2	390	302.2	298.2	346.2	545.2	331.2	889	877	1018	1010	974	
total student	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	18
Average	10.33	10.11	20.44	12.8	10.3	23.1	13.5	11.9	25.4	2	2	2	2	2	10	4.456	4.4556	4.4556	4.46	4.456	21.6667	16.7889	16.57	19.233	30.289	18.4	49.4	48.7	56.6	56.1	54.1	



SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS

SUBJECT	TRANSMISSION & DISTRIBUTION	SUBJECT CODE	18EE43
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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.

G. H. Ramana
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Principals Signature
PRINCIPAL
SIET., TUMAKURU

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
18EE54.1	3		2		3	2	2			2		
18EE54.2	1	2	2		2		2					
18EE54.3	1	3	3	3		2				2	2	
18EE54.4	1	3	3		2							
18EE54.5	2	3	3	3						2	2	
Avg Map	1.6	2.75	2.6	3	2.33	2	2			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	74.52	2.24		1.49		2.24	1.49	1.49			1.49		
CO2	27.15	0.27	0.543	0.543		0.543		0.543					
CO3	41.95	0.42	1.26	1.26	1.26		0.84				0.84	0.84	
CO4	65.52	0.66	1.97	1.97		1.31							
CO5	66.86	1.34	2	2	2						1.34	1.34	
AVERAGE	65.496	1	1.44	1.45	1.63	1.37	1.17	1.02			1.22	1.09	
FINAL ATTAINMENT LEVEL													1.27

G. H Ravi
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Nandini Srinivas
PRINCIPAL
SIET, TUMKUR

Academic yr SEM/SEC. R.G.	2020-21		SEM		4		Total strength		19		Subject		TRANSMISSION AND DISTRIBUTION					Subject Code		IREE43					% of Individual CO				
	IA TEST 1(30M)		IA TEST 2(30M)		IA TEST 3(30M)		ASSIGNMENT / QUIZ(10 M)		ASSIGNMENT / QUIZ(10 M)		SEE MARKS(60)					Total Coe ATTAINMENT													
	CO1	TOTAL	CO2	CO3	TOTAL	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	CO1+2	CO3	CO4	CO5	CO1-29	CO2-44	CO3-29	CO4-29	CO5-29	CO1	CO2	CO3	CO4	CO5		
	CO1	TOTAL	CO2	CO3	TOTAL	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	CO1+2	CO3	CO4	CO5	CO1-29	CO2-44	CO3-29	CO4-29	CO5-29	CO1	CO2	CO3	CO4	CO5		
15V1REE001	17	17	4	4	8	12	13	25	2	2	2	2	2	3.8	3.8	3.8	3.8	22.8	9.8	9.8	17.8	18.8	78.62069	22.27273	33.7931	61.37931	64.82759		
15V1RE001	14	14	7	8	15	14	14	28	2	2	2	2	2	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		
15V1RE002	16	16	3	2	5	11	11	22	2	2	2	2	2	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		
15V1RE005	18	18	6	5	12	12	12	24	2	2	2	2	2	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		
15V1RE006	5	5	4	5	9	10	10	20	2	2	2	2	2	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		
15V1RE007	17	17	8	9	17	12	15	27	2	2	2	2	2	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		
15V1RE008	16	16	4	4	8	20	20	40	2	2	2	2	2	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		
15V1RE009	16	16	3	3	6	10	10	20	2	2	2	2	2	3.8	3.8	3.8	3.8	21.8	8.8	8.8	15.8	15.8	75.17241	20	30.34483	54.82759	54.82759		
15V1RE011	19	19	8	9	17	12	16	28	2	2	2	2	2	5.8	5.8	5.8	5.8	26.8	15.8	16.8	19.8	23.8	92.41179	35.90909	57.93103	68.27586	82.06897		
15V1RE012	12	12	7	8	15	11	11	22	2	2	2	2	2	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		
15V1RE013	18	18	8	8	16	12	12	24	2	2	2	2	2	3.2	3.2	3.2	3.2	23.2	13.2	13.2	17.2	17.2	80	30	45.51724	58.31034	58.31034		
15V1RE014	12	12	1	1	2	1	2	3	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		
15V1RE016	17	17	7	7	14	12	12	24	2	2	2	2	2	3.8	3.8	3.8	3.8	22.8	12.8	12.8	17.8	17.8	78.62069	20.09091	44.13793	61.37931	61.37931		
15V1RE017	18	18	10	10	20	20	20	40	2	2	2	2	2	6.8	6.8	6.8	6.8	26.8	18.8	18.8	28.8	28.8	92.41179	42.27273	64.82759	99.31034	99.31034		
15V1RE020	13	13	7	7	14	15	14	29	2	2	2	2	2	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		
15V2OE400	13	13	4	4	8	15	12	27	2	2	2	2	2	4.6	4.6	4.6	4.6	19.6	10.6	10.6	21.6	18.6	67.58621	24.09091	36.55172	74.82759	64.13793		
15V2OE401	18	18	3	2	5	15	17	32	2	2	2	2	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		
15V2OE402	15	15	7	8	15	14	14	28	2	2	2	2	2	4.2	4.2	4.2	4.2	21.2	13.2	14.2	20.2	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		

Tangkas

Head of the Department
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 Sridewi Institute of Engineering & Technology
 TUMKUR-572108

PRINCIPAL
 Sridewi Institute of Engineering & Technology

DEPARTMENT OF EEE

SUBJECT	ELECTRIC MOTORS	SUBJECT CODE	18EE44
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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

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

G. H. Rao
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Nimish Kumar
PRINCIPAL
SIFT

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	UMABAI											
BRANCH	EEE			ACADEMIC YEAR				2020-2021				
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	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	43.7	1.31	0.874	0.874	0.874	0.874	0.874						0.437
CO2	42.9	1.28	0.858	0.858	0.858	0.858	0.858						0.429
CO3	49.0	1.47	0.294	1.47	0.294	0.294	0.294						0.49
CO4	50.8	1.52	1.016	1.016	1.016	1.016	1.016						0.508
CO5	46.2	1.38	0.924	0.924	0.924	0.924	0.924						0.462
AVERAGE	46.52	1.39	0.79	1.02	0.79	0.79	0.79						0.465
FINAL ATTAINMENT LEVEL													0.862

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Nandini Ramyath
 PRINCIPAL
 SIET, TUMAKURU.

USN	IA TEST 1			IA TEST 2			IA TEST 3			Assignment					SEE					TOTAL					AVERAGE						
	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
1SV18EE001	9	6	15	10	9	19	11	6	17	2	2	2	2	2	10	3.8	3.8	3.8	3.8	3.8	19	14.8	11.8	15.8	25.8	11.8	44	35	46	48	35
1SV19EE001	10	14	24	13	13	26	18	7	25	2	2	2	2	2	10	4.6	4.6	4.6	4.6	4.6	23	16.6	20.6	19.6	37.6	13.6	49	61	58	70	40
1SV19EE002	4	4	8	5	5	10	10	5	15	2	2	2	2	2	10	3.4	3.4	3.4	3.4	3.4	17	9.4	9.4	10.4	20.4	10.4	28	28	31	38	31
1SV19EE005	9	3	12	7	10	17	9	10	19	2	2	2	2	2	10	5.8	5.8	5.8	5.8	5.8	29	16.8	10.8	14.8	26.8	17.8	49	32	44	50	52
1SV19EE006	6	4	10	8	9	17	8	7	15	2	2	2	2	2	10	3.6	3.6	3.6	3.6	3.6	18	11.6	9.6	13.6	22.6	12.6	34	28	40	42	37
1SV19EE007	12	18	30	16	14	30	14	16	30	2	2	2	2	2	10	5.8	5.8	5.8	5.8	5.8	29	19.8	25.8	23.8	35.8	23.8	58	76	70	66	70
1SV19EE008	5	4	9	8	4	12	10	5	15	2	2	2	2	2	10	3.8	3.8	3.8	3.8	3.8	19	10.8	9.8	13.8	19.8	10.8	32	29	41	37	32
1SV19EE009	10	6	16	9	9	18	7	10	17	2	2	2	2	2	10	3.8	3.8	3.8	3.8	3.8	19	15.8	11.8	14.8	21.8	15.8	46	35	44	40	46
1SV19EE011	12	18	30	14	16	30	16	14	30	2	2	2	2	2	10	5.8	5.8	5.8	5.8	5.8	29	19.8	25.8	21.8	39.8	21.8	58	76	64	74	64
1SV19EE012	5	6	11	10	8	18	9	10	19	2	2	2	2	2	10	3.8	3.8	3.8	3.8	3.8	19	10.8	11.8	15.8	22.8	15.8	32	35	46	42	46
1SV19EE013	14	10	24	12	14	26	12	13	25	2	2	2	2	2	10	3.2	3.2	3.2	3.2	3.2	16	19.2	15.2	17.2	31.2	18.2	56	45	51	58	54
1SV19EE014	6	5	11	6	13	19	9	6	15	2	2	2	2	2	10	2.2	2.2	2.2	2.2	2.2	11	10.2	9.2	10.2	26.2	10.2	30	27	30	49	30
1SV19EE016	7	3	10	8	11	19	6	10	16	2	2	2	2	2	10	3.8	3.8	3.8	3.8	3.8	19	12.8	8.8	13.8	22.8	15.8	38	26	41	42	46
1SV19EE017	15	15	30	18	12	30	17	13	30	2	2	2	2	2	10	6.8	6.8	6.8	6.8	6.8	34	23.8	23.8	26.8	37.8	21.8	70	70	79	70	64
1SV19EE020	5	7	12	7	10	17	9	10	19	2	2	2	2	2	10	4.8	4.8	4.8	4.8	4.8	24	11.8	13.8	13.8	25.8	16.8	35	41	41	48	49
1SV20EE400	10	8	18	11	9	20	10	9	19	2	2	2	2	2	10	4.6	4.6	4.6	4.6	4.6	23	16.6	14.6	17.6	25.6	15.6	49	43	52	47	46
1SV20EE401	6	7	13	11	6	17	9	6	15	2	2	2	2	2	10	4.2	4.2	4.2	4.2	4.2	21	12.2	13.2	17.2	21.2	12.2	36	39	51	39	36
1SV20EE402	9	11	20	13	12	25	12	12	24	2	2	2	2	2	10	4.2	4.2	4.2	4.2	4.2	21	15.2	17.2	19.2	30.2	18.2	45	51	56	56	54
TOTAL	154	149	303	186	184	370	196	169	365	36	36	36	36	36	180	78	78	78	78	78	390	268	263	300	494	283	788	774	882	915	832
Total students	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	3.6	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
Average	8.56	8.28	16.83	10.3	10.22	20.56	10.9	9.39	20.28	2	2	2	2	2	10	4.33	4.33	4.33	4.33	4.33	21.67	14.89	14.61	16.67	27.44	15.72	43.8	43.0	49.0	50.8	46.2

18EE44 ELECTRIC MOTORS
2020-21

N. Ramani
PRINCIPAL
SIES, TUMKURU.

G. H. Ramani
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Maddur Institute of Engineering & Technology
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SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGG

SUBJECT	ELECTROMAGNETIC FIELD THEORY	SUBJECT CODE	18EE45
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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.

G. U. Ram
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Principal
PRINCIPAL
SIET., TUMAKURU.

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	V.RAJESH KUMAR											
BRANCH	EEE			ACADEMIC YEAR				2020-21				
COURSE	B.E	SEMESTER		IV	SECTION			EEE				
SUBJECT	ELECTROMAGNETIC FIELD THEORY						SUBJECT CODE		18EE45			
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	3	1	1								2
CO2	2	3	1	1								2
CO3	1	2	1	1								1
CO4	3	3	1	1								3
CO5	2	3	1	1								2
AVERAGE	2	2.8	1	1								2
OVERALL MAPPING OF SUBJECT												1.63

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	40.67	0.81	1.13	0.40	0.41								0.81
CO2	39.41	0.78	1.10	0.39	0.39								0.78
CO3	40.93	0.81	1.14	0.40	0.40								0.81
CO4	40.93	0.81	1.14	0.40	0.40								0.81
CO5	40.93	0.81	1.14	0.40	0.40								0.81
AVERAGE	40.57	0.80	1.13	0.4	0.4								0.80
FINAL ATTAINMENT LEVEL													0.70

G. H. Ramesh
 Head of the Department
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Principals Signature
 PRINCIPAL
 SIET., TUMAKURU.

STAFF NAME: V RAJESH KUMAR

Academic year	2020-21			SEM			4			18	Subject					ELECTROMAGNETIC FIELD THEORY					Subject Code					18EE45														
	IA TEST 1(40M)			IA TEST 2(40)			IA TEST 3(40M)				ASSIGNMENT / QUIZ(10 M)					SEE MARKS(60)					Total Cos ATTAINMENT					% of individual CO														
	CO1	CO2	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										
USN	5.8	5.8	11.6	5.8	5.8	11.6	5.8	5.8	11.6	2	2	2	2	2	3.8	3.8	3.8	3.8	3.8	11.6	17.4	11.6	11.6	11.6	40	39.54545	40	40	40											
15V19EE001	5.8	5.8	11.6	5.8	5.8	11.6	5.8	5.8	11.6	2	2	2	2	2	4.6	4.6	4.6	4.6	4.6	12.4	18.2	12.4	12.4	12.4	42.75862	41.36364	42.75862	42.75862	42.75862											
15V19EE002	5	5	10	5	5	10	5	5	10	2	2	2	2	2	3.4	3.4	3.4	3.4	3.4	10.4	15.4	10.4	10.4	10.4	35.86207	35	35.86207	35.86207	35.86207											
15V19EE005	5.8	5.8	11.6	5.8	5.8	11.6	5.8	5.8	11.6	2	2	2	2	2	5.8	5.8	5.8	5.8	5.8	13.6	19.4	13.6	13.6	13.6	46.89655	44.09091	46.89655	46.89655	46.89655											
15V19EE006	4.6	4.6	9.2	4.6	4.6	9.2	4.6	5	9.6	2	2	2	2	2	3.6	3.6	3.6	3.6	3.6	10.2	14.8	10.2	10.2	10.6	35.17241	33.63636	35.17241	35.17241	36.55172											
15V19EE007	5.6	5.6	11.2	5.6	5.6	11.2	5.6	5.6	11.2	2	2	2	2	2	5.8	5.8	5.8	5.8	5.8	13.4	19	13.4	13.4	13.4	46.2069	43.18182	46.2069	46.2069	46.2069											
15V19EE008	5.3	5.3	10.6	5.3	5.3	10.6	5.3	5.3	10.6	2	2	2	2	2	3.8	3.8	3.8	3.8	3.8	11.1	16.4	11.1	11.1	11.1	38.27586	37.27273	38.27586	38.27586	38.27586											
15V19EE009	5.6	5.6	11.2	5.6	5.6	11.2	5.6	5.6	11.2	2	2	2	2	2	3.8	3.8	3.8	3.8	3.8	11.4	17	11.4	11.4	11.4	39.31034	38.63636	39.31034	39.31034	39.31034											
15V19EE011	6.5	6.5	13	6.5	6.5	13	6.5	6.5	13	2	2	2	2	2	5.8	5.8	5.8	5.8	5.8	14.3	20.8	14.3	14.3	14.3	49.31034	47.27273	49.31034	49.31034	49.31034											
15V19EE012	5.5	5.5	11	5.5	5.5	11	5.5	5.5	11	2	2	2	2	2	3.8	3.8	3.8	3.8	3.8	11.3	16.8	11.3	11.3	11.3	38.96552	38.18182	38.96552	38.96552	38.96552											
15V19EE013	5.3	5.3	10.6	5.3	5.3	10.6	5.3	5.3	10.6	2	2	2	2	2	3.2	3.2	3.2	3.2	3.2	10.5					36.2069															
15V19EE014	4	4	8	4	4	8	4	4	8	2	2	2	2	2	2.2	2.2	2.2	2.2	2.2	8.2	12.2	8.2	8.2	8.2	28.27586	27.72727	28.27586	28.27586	28.27586											
15V19EE016	4.6	4.6	9.2	4.6	4.6	9.2	4.6	4.6	9.2	2	2	2	2	2	3.8	3.8	3.8	3.8	3.8	10.4	15	10.4	10.4	10.4	35.86207	34.09091	35.86207	35.86207	35.86207											
15V19EE017	6.5	6.5	13	6.5	6.5	13	6.5	6.5	13	2	2	2	2	2	6.8	6.8	6.8	6.8	6.8	15.3	21.8	15.3	15.3	15.3	52.75862	49.54545	52.75862	52.75862	52.75862											
15V19EE020	5.8	5.8	11.6	5.8	5.8	11.6	5.8	5.8	11.6	2	2	2	2	2	4.8	4.8	4.8	4.8	4.8	12.6	18.4	12.6	12.6	12.6	43.44828	41.81818	43.44828	43.44828	43.44828											
15W20EE400	5.5	5.5	11	5.5	5.5	11	5.5	5.5	11	2	2	2	2	2	4.6	4.6	4.6	4.6	4.6	12.3	17.6	12.3	12.3	12.3	41.72414	40	41.72414	41.72414	41.72414											
15W20EE401	5.6	5.6	11.2	5.6	5.6	11.2	5.6	5.6	11.2	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	11.8	17.4	11.8	11.8	11.8	40.68966	39.54545	40.68966	40.68966	40.68966											
15W20EE402	5.5	5.5	11	5.5	5.5	11	5.5	5.5	11	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	11.7	17.2	11.7	11.7	11.7	40.34483	39.09091	40.34483	40.34483	40.34483											
																				11.79444	17.34118	11.87059	11.87059	11.89412	40.6705	39.41176	40.93306	40.93306	41.0142											

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SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGG

SUBJECT	OPERATIONAL AMPLIFIERS AND LINEAR IC'S	SUBJECT CODE	18EE46
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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 OUTCOMES

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

G. H. Ramu

Head of the Department
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TUMKUR-572106.

Principal
PRINCIPAL
SIET, TUMAKURU.

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	V.RAJESH KUMAR											
BRANCH	EEE			ACADEMIC YEAR				2020-21				
COURSE	B.E	SEMESTER		IV		SECTION			EEE			
SUBJECT	OPERATIONAL AMPLIFIERS AND LINEAR IC'S						SUBJECT CODE		18EE46			
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	3				2	2						2
CO2	3				2	2						2
CO3	3				2	2						2
CO4	3				2	2						2
CO5	3				2	2						2
AVERAGE	3				2	2						2
OVERALL MAPPING OF SUBJECT												2.02

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	40.57	1.21				0.8	0.8						0.8
CO2	39.14	1.18				0.78	0.78						0.78
CO3	40.73	1.2				0.81	0.81						0.81
CO4	40.73	1.2				0.81	0.81						0.81
CO5	40.73	1.2				0.81	0.81						0.81
AVERAGE	40.38	1.19				0.80	0.80						0.80
FINAL ATTAINMENT LEVEL													0.89

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

(Signature)
 PRINCIPAL
 SIET, TUMAKURU

STAFF NAME: V RAJESH KUMAR

Academic year	2020-21						SEM	4	Total strength			18	Subject					Subject Code	18EE46					%									
	IA TEST 1(40M)			IA TEST 2(40)					IA TEST 3(40M)				ASSIGNMENT / QUIZ(10 M)						SEE MARKS(60)					Total Cos ATTAINMENT					% of individual CO				
	USN	CO1	CO2	TOTAL	CO1	CO2			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
15V19EE001	5.6	5.6	11.2	5.6	5.6	11.2	5.6	5.6	11.2	2	2	2	2	2	3.8	3.8	3.8	3.8	3.8	11.4	17	11.4	11.4	11.4	39.31034	38.63636	39.31034	39.31034	39.31034				
15V19EE001	5.8	5.8	11.6	5.8	5.8	11.6	5.8	5.8	11.6	2	2	2	2	2	4.6	4.6	4.6	4.6	4.6	12.4	18.2	12.4	12.4	12.4	42.75862	41.36364	42.75862	42.75862	42.75862				
15V19EE002	5.3	5.3	10.6	5.3	5.3	10.6	5.3	5.3	10.6	2	2	2	2	2	3.4	3.4	3.4	3.4	3.4	10.7	16	10.7	10.7	10.7	36.89655	36.36364	36.89655	36.89655	36.89655				
15V19EE005	5.8	5.8	11.6	5.8	5.8	11.6	5.8	5.8	11.6	2	2	2	2	2	5.8	5.8	5.8	5.8	5.8	13.6	19.4	13.6	13.6	13.6	46.89655	44.09091	46.89655	46.89655	46.89655				
15V19EE006	4.5	4.5	9	4.5	4.5	9	4.5	4.5	9	2	2	2	2	2	3.6	3.6	3.6	3.6	3.6	10.1	14.6	10.1	10.1	10.1	34.82759	33.18182	34.82759	34.82759	34.82759				
15V19EE007	5.6	5.6	11.2	5.6	5.6	11.2	5.6	5.6	11.2	2	2	2	2	2	5.8	5.8	5.8	5.8	5.8	13.4	19	13.4	13.4	13.4	46.2069	43.18182	46.2069	46.2069	46.2069				
15V19EE008	4.6	4.6	9.2	4.6	4.6	9.2	4.6	4.6	9.2	2	2	2	2	2	3.8	3.8	3.8	3.8	3.8	10.4	15	10.4	10.4	10.4	35.86207	34.09091	35.86207	35.86207	35.86207				
15V19EE009	5.3	5.3	10.6	5.3	5.3	10.6	5.3	5.3	10.6	2	2	2	2	2	3.8	3.8	3.8	3.8	3.8	11.1	16.4	11.1	11.1	11.1	38.27586	37.27273	38.27586	38.27586	38.27586				
15V19EE011	6.6	6.6	13.2	6.6	6.6	13.2	6.6	6.6	13.2	2	2	2	2	2	5.8	5.8	5.8	5.8	5.8	14.4	21	14.4	14.4	14.4	49.65517	47.72727	49.65517	49.65517	49.65517				
15V19EE012	5.5	5.5	11	5.5	5.5	11	5.5	5.5	11	2	2	2	2	2	3.8	3.8	3.8	3.8	3.8	11.3	16.8	11.3	11.3	11.3	38.96552	38.18182	38.96552	38.96552	38.96552				
15V19EE013	5.8	5.8	11.6	5.8	5.8	11.6	5.8	5.8	11.6	2	2	2	2	2	3.2	3.2	3.2	3.2	3.2	11					37.93103								
15V19EE014	3.6	3.6	7.2	3.6	3.6	7.2	3.6	3.6	7.2	2	2	2	2	2	2.2	2.2	2.2	2.2	2.2	7.8	11.4	7.8	7.8	7.8	26.89655	25.90909	26.89655	26.89655	26.89655				
15V19EE016	5	5	10	5	5	10	5	5	10	2	2	2	2	2	3.8	3.8	3.8	3.8	3.8	10.8	15.8	10.8	10.8	10.8	37.24138	35.90909	37.24138	37.24138	37.24138				
15V19EE017	6.6	6.6	13.2	6.6	6.6	13.2	6.6	6.6	13.2	2	2	2	2	2	6.8	6.8	6.8	6.8	6.8	15.4	22	15.4	15.4	15.4	53.10345	50	53.10345	53.10345	52.75862				
15V19EE020	5.8	5.6	11.2	5.6	5.6	11.2	5.6	5.8	11.4	2	2	2	2	2	4.8	4.8	4.8	4.8	4.8	12.4	18	12.4	12.4	12.6	42.75862	40.90909	42.75862	42.75862	41.44828				
15V20EE400	5.5	5.5	11	5.5	5.5	11	5.5	5.5	11	2	2	2	2	2	4.6	4.6	4.6	4.6	4.6	12.1	17.6	12.1	12.1	12.1	41.72414	40	41.72414	41.72414	41.72414				
15V20EE401	5.6	5.6	11.2	5.6	5.6	11.2	5.6	5.6	11.2	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	11.8	17.4	11.8	11.8	11.8	40.68966	39.54545	40.68966	40.68966	40.68966				
15V20EE402	5.5	5.5	11	5.5	5.5	11	5.5	5.5	11	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	11.7	17.2	11.7	11.7	11.7	40.34483	39.09091	40.34483	40.34483	40.34483				
															11.76667	17.22353	11.81176	11.81176	11.81176	11.81765	40.57471	39.14439	40.73022	40.73022	40.75051								

V. Rajesh Kumar
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6th 2024

DEPARTMENT OF EEE

SUBJECT	CONTROL SYSTEM	SUBJECT CODE	18EE61
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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

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

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Manjunath Srinivas
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COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	TANUJA K S											
BRANCH	EEE			ACADEMIC YEAR				2020-2021				
COURSE	B.E	SEMESTER			VI	SECTION						
SUBJECT	CONTROL SYSTEMS						SUBJECT CODE		18EE61			
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												2.65

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	50.98	1.52	1.52										
CO2	49.35	1.48											
CO3	50.98	1.01	1.52										
CO4	31.89	0.95	0.95	0.63									
CO5	49.67	0.99	0.99	1.49									
AVERAGE	46.574	1.18	1.25	0.56									
FINAL ATTAINMENT LEVEL													1.33

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SEM: VI, 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)	GO4(54)	CO5(34)	CO1(34)	CO2(34)	CO3(34)	CO4(54)	CO5(34)	
15V17EE006	12	11	23	12	12	24	12	13	25	2	2	2	2	2	10	5.4	5.4	5.4	5.4	5.4	27	19.4	18.4	19.4	19.4	20.4	0.57	0.54	0.57	0.36	0.60	
15V17EE012	10	6	16	10	8	18	10	7	17	2	2	2	2	2	10	5	5	5	5	5	25	17	13	17	15	14	0.50	0.38	0.50	0.28	0.41	
15V18EE002	9	3	12	11	0	11	14	-1	13	2	2	2	2	2	10	5.2	5.2	5.2	5.2	5.2	26	16.2	10.2	18.2	7.2	6.2	0.48	0.30	0.54	0.13	0.18	
15V18EE003	7	19	26	9	19	28	13	14	27	2	2	2	2	2	10	5.2	5.2	5.2	5.2	5.2	26	14.2	26.2	16.2	26.2	21.2	0.42	0.77	0.48	0.49	0.62	
15V18EE004	8	16	24	7	18	25	10	16	26	2	2	2	2	2	10	5.4	5.4	5.4	5.4	5.4	27	15.4	23.4	14.4	25.4	23.4	0.45	0.69	0.42	0.47	0.69	
15V18EE005	11	14	25	8	16	24	11	15	26	2	2	2	2	2	10	4.6	4.6	4.6	4.6	4.6	23	17.6	20.6	14.6	22.6	21.6	0.52	0.61	0.43	0.42	0.64	
15V18EE006	14	9	23	12	10	22	10	11	21	2	2	2	2	2	10	6.4	6.4	6.4	6.4	6.4	32	22.4	17.4	20.4	18.4	19.4	0.66	0.51	0.60	0.34	0.57	
15V18EE007	12	0	12	13	-2	11	9	4	13	2	2	2	2	2	10	3.8	3.8	3.8	3.8	3.8	19	17.8	5.8	18.8	3.8	9.8	0.52	0.17	0.55	0.07	0.29	
15V18EE008	11	15	26	14	11	25	7	20	27	2	2	2	2	2	10	4.8	4.8	4.8	4.8	4.8	24	17.8	21.8	20.8	17.8	26.8	0.52	0.64	0.61	0.33	0.79	
15V18EE009	10	3	13	12	3	15	8	4	12	2	2	2	2	2	10	3.2	3.2	3.2	3.2	3.2	16	15.2	8.2	17.2	8.2	9.2	0.45	0.24	0.51	0.15	0.27	
15V18EE011	9	7	16	10	8	18	11	6	17	2	2	2	2	2	10	4.2	4.2	4.2	4.2	4.2	21	15.2	13.2	16.2	14.2	12.2	0.45	0.39	0.48	0.26	0.36	
15V18EE012	8	5	13	11	0	11	13	-1	12	2	2	2	2	2	10	4.2	4.2	4.2	4.2	4.2	21	14.2	11.2	17.2	6.2	5.2	0.42	0.33	0.51	0.11	0.15	
15V19EE400	8	12	20	9	13	22	14	7	21	2	2	2	2	2	10	4.6	4.6	4.6	4.6	4.6	23	14.6	18.6	15.6	19.6	13.6	0.43	0.55	0.46	0.36	0.40	
15V19EE401	10	6	16	7	11	18	13	6	19	2	2	2	2	2	10	5	5	5	5	5	25	17	13	14	18	13	0.50	0.38	0.41	0.33	0.38	
15V19EE402	14	11	25	6	20	26	12	15	27	2	2	2	2	2	10	4.4	4.4	4.4	4.4	4.4	22	20.4	17.4	12.4	26.4	21.4	0.60	0.51	0.36	0.49	0.63	
15V19EE403	12	14	26	12	13	25	10	17	27	2	2	2	2	2	10	5.6	5.6	5.6	5.6	5.6	28	19.6	21.6	19.6	20.6	24.6	0.58	0.64	0.58	0.38	0.72	
15V19EE404	14	13	27	14	12	26	11	14	25	2	2	2	2	2	10	4.2	4.2	4.2	4.2	4.2	21	20.2	19.2	20.2	18.2	20.2	0.59	0.56	0.59	0.34	0.59	
15V19EE405	10	15	25	12	15	27	12	14	26	2	2	2	2	2	10	5.8	5.8	5.8	5.8	5.8	29	17.8	22.8	19.8	22.8	21.8	0.52	0.67	0.58	0.42	0.64	
TOTAL	189	179	368	189	187	376	200	181	381	36	36	36	36	36	180	87	87	87	87	87	435	312	302	312	310	304	9.18	8.88	9.18	5.74	8.94	
total student	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	18
Average	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	50.98	49.35	50.98	31.89	49.67	

18EE61 CS 2020-21

Nimish Sumpathi
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DEPARTMENT OF EEE


SUBJECT	POWER SYSTEM ANALYSIS I	SUBJECT CODE	18EE62
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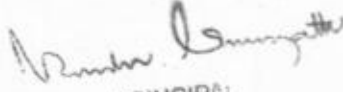
COURSE OUTCOME

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.

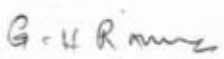

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COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	UMABAI											
BRANCH	EEE			ACADEMIC YEAR				2020-2021				
COURSE	B.E	SEMESTER		VI	SECTION							
SUBJECT	POWER SYSTEM ANALYSIS 1					SUBJECT CODE		18EE62				
CO & PO 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	61.7	1.851	1.851										
CO2	52.4	1.572	1.572					0.524					
CO3	62.0	1.24	1.86		1.86		0.62						
CO4	57.5	1.15	1.725		1.725		0.575			0.575			1.15
CO5	60.9	1.21	1.82		1.82		0.609	0.609		0.609			1.21
AVERAGE	58.9	1.40	1.76		1.8		0.601	0.566		0.592			1.18
FINAL ATTAINMENT LEVEL													1.047


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SEM: VI, 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	
1SV17EE006	11	15	26	11	14	25	11	16	27	4	4	4	4	4	20	5.4	5.4	5.4	5.4	5.4	27	20.4	24.4	20.4	34.4	25.40	0.60	0.72	0.60	0.64	0.75		
1SV17EE012	12	4	16	12	6	18	12	5	17	4	4	4	4	4	20	5	5	5	5	5	25	21	13	21	27	14.00	0.62	0.38	0.62	0.50	0.41		
1SV18EE002	13	5	18	13	7	20	13	6	19	4	4	4	4	4	20	5.2	5.2	5.2	5.2	5.2	26	22.2	14.2	22.2	29.2	15.20	0.65	0.42	0.65	0.54	0.45		
1SV18EE003	12	15	27	14	10	24	14	13	27	4	4	4	4	4	20	5.2	5.2	5.2	5.2	5.2	26	21.2	24.2	23.2	33.2	22.20	0.62	0.71	0.68	0.61	0.65		
1SV18EE004	14	4	18	15	5	20	12	13	25	4	4	4	4	4	20	5.4	5.4	5.4	5.4	5.4	27	23.4	13.4	24.4	26.4	22.40	0.69	0.39	0.72	0.49	0.66		
1SV18EE005	12	12	24	12	18	30	13	17	30	4	4	4	4	4	20	4.6	4.6	4.6	4.6	4.6	23	20.6	20.6	20.6	39.6	25.60	0.61	0.61	0.61	0.73	0.75		
1SV18EE006	13	11	24	13	14	27	14	13	27	4	4	4	4	4	20	6.4	6.4	6.4	6.4	6.4	32	23.4	21.4	23.4	38.4	23.40	0.69	0.63	0.69	0.71	0.69		
1SV18EE007	14	-5	9	14	-2	12	12	3	15	4	4	4	4	4	20	3.8	3.8	3.8	3.8	3.8	19	21.8	2.8	21.8	17.8	10.80	0.64	0.08	0.64	0.33	0.32		
1SV18EE008	12	13	25	12	12	24	10	19	29	4	4	4	4	4	20	4.8	4.8	4.8	4.8	4.8	24	20.8	21.8	20.8	30.8	27.80	0.61	0.64	0.61	0.57	0.82		
1SV18EE009	12	0	12	10	7	17	10	9	19	4	4	4	4	4	20	3.2	3.2	3.2	3.2	3.2	16	19.2	7.2	17.2	24.2	16.20	0.56	0.21	0.51	0.45	0.48		
1SV18EE011	13	11	24	12	8	20	12	13	25	4	4	4	4	4	20	4.8	4.8	4.8	4.8	4.8	24	21.8	19.8	20.8	28.8	21.80	0.64	0.58	0.61	0.53	0.64		
1SV18EE012	12	-4	8	13	-1	12	13	-3	10	4	4	4	4	4	20	2.8	2.8	2.8	2.8	2.8	14	18.8	2.8	19.8	18.8	3.80	0.55	0.08	0.58	0.35	0.11		
1SV19EE400	10	20	30	14	16	30	10	20	30	4	4	4	4	4	20	4.6	4.6	4.6	4.6	4.6	23	18.6	28.6	22.6	34.6	28.60	0.55	0.84	0.66	0.64	0.84		
1SV19EE401	10	8	18	12	8	20	12	13	25	4	4	4	4	4	20	5	5	5	5	5	25	19	17	21	29	22.00	0.56	0.50	0.62	0.54	0.65		
1SV19EE402	11	19	30	10	14	24	13	17	30	4	4	4	4	4	20	5.8	5.8	5.8	5.8	5.8	29	20.8	28.8	19.8	36.8	26.80	0.61	0.85	0.58	0.68	0.79		
1SV19EE403	12	12	24	10	15	25	12	17	29	4	4	4	4	4	20	5.6	5.6	5.6	5.6	5.6	28	21.6	21.6	19.6	36.6	26.60	0.64	0.64	0.58	0.68	0.78		
1SV19EE404	12	8	20	12	13	25	13	11	24	4	4	4	4	4	20	4.2	4.2	4.2	4.2	4.2	21	20.2	16.2	20.2	34.2	19.20	0.59	0.48	0.59	0.63	0.56		
1SV19EE405	13	13	26	11	16	27	14	11	25	4	4	4	4	4	20	5.8	5.8	5.8	5.8	5.8	29	22.8	22.8	20.8	39.8	20.80	0.67	0.67	0.61	0.74	0.61		
TOTAL		218	161	379	220	180	400	220	213	433	72	72	72	72	72	360	87.6	88	87.6	87.6	87.6	438	378	321	379.6	559.6	372.6	11.11	9.429	11.16	10.363	10.958824	
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	18
Average		12.1	8.94	21.056	12.22	10	22.222	12.2	11.8	24.056	4	4	4	4	4	20	4.87	4.9	4.87	4.87	4.87	24.33	21	17.8	21.09	31.09	20.7	61.7	52.39	62.03	57.572	60.882353	

POWER SYSTEM 18EE62
2020-21

G-14 Room
Head of the Department
Electrical & Electronics Engineering
Shri Devi Institute of Engineering & Technology
TUMKUR-572108.

M. Srinivas Kumar
Principal
S.I.T.U.



SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

SUBJECT	DIGITAL SIGNAL PROCESSING	SUBJECT CODE	18EE63
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COURSE OUTCOME

- C01:** Apply DFT and IDFT to perform linear filtering techniques on given sequences to determine the output.
- C02:** Apply fast and efficient algorithms for computing DFT and inverse DFT of a given sequence
- C03:** Design and realize infinite impulse response Butterworth and Chebyshev digital filters using impulse invariant and bilinear transformation techniques
- C04:** Develop a digital IIR filter by direct, cascade, parallel, ladder and FIR filter by direct, cascade and linear phase methods of realization
- C05:** Design and realize FIR filters by use of window function and frequency sampling method

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.

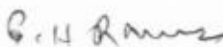
S. H. Ram
Head of the Department
Electrical & Electronics Engineering
Shridevi Institute of Engineering & Technology
TUMKUR-572106.


Principals
PRINCIPAL
SIET., TUMAKURU.

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	Mr. G. H. RAVIKUMAR											
BRANCH	EEE			ACADEMIC YEAR				2020-21				
COURSE	B.E	SEMESTER			VI	SECTION			EEE			
SUBJECT	DIGITAL SIGNAL PROCESSING					SUBJECT CODE			18EE63			
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	3	-	-	-	-	-	-	-	-	-	-
CO2	3	2	2	-	-	-	-	-	-	-	-	-
CO3	3	2	2	-	2	-	-	-	-	-	-	-
CO4	3	2	2	-	2	-	-	-	-	-	-	-
CO5	2	3	-	-	2	-	-	-	-	-	-	-
AVERAGE	2.6	2.4	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	64.41	1.288	1.932	-	-	-	-	-	-	-	-	-	-
CO2	53.82	1.614	1.076	1.076	-	-	-	-	-	-	-	-	-
CO3	64.4	1.932	1.288	1.288	-	1.288	-	-	-	-	-	-	-
CO4	64.41	1.932	1.288	1.288	-	1.288	-	-	-	-	-	-	-
CO5	56.17	1.123	1.685	-	-	1.123	-	-	-	-	-	-	-
AVERAGE		1.577	1.453	1.217	-	1.233	-	-	-	-	-	-	-
FINAL ATTAINMENT LEVEL													1.37


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


 PRINCIPAL
 SIET., TUMAKUR.

DEPARTMENT OF EEE

SUBJECT	NON COVENTIONAL ENERGY RESOURCES	SUBJECT CODE	18ME651
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COURSE OUTCOME

CO1	Describe the environmental aspects of non-conventional energy resources. In Comparison with various conventional energy systems, their prospects and limitations.
CO2	Know the need of renewable energy resources, historical and latest developments
CO3	Describe the use of solar energy and the various components used in the energy production with respect to applications like-heating, cooling, desalination, power generation, drying, cooking etc.
CO4	Appreciate the need of Wind Energy and the various components used in energy generation and know the classifications.
CO5	Understand the concept of Biomass energy resources and their classification, types of biogas Plants-applications

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.

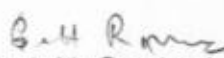
G. H. Ramesh
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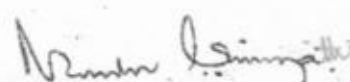
N. Srinivasan
PRINCIPAL
SIET., TUMAKURU.

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	THIPPESWAMY J C											
BRANCH	EEE			ACADEMIC YEAR				2020-2021				
COURSE	B.E	SEMESTER		IV	SECTION			EEE				
SUBJECT	NON CONVENTIONAL ENERGY RESOURCE						SUBJECT CODE		18ME651			
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	1	3	-	-	-	-	2
CO2	-	3	-	-	-	1	2	-	-	-	-	2
CO3	-	-	-	-	3	1	3	-	-	-	-	2
CO4	-	-	-	-	3	1	3	-	-	-	-	2
CO5	-	-	-	-	-	1	3	-	-	-	-	2
AVERAGE	-	3	-	-	3	1	2.57	-	-	-	-	2
OVERALL MAPPING OF SUBJECT												

CO AND PO ATTAINMENT


	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	51	-	-	-	-	-	0.51	1.53	-	-	-	-	0.20
CO2	54	-	1.62	-	-	-	0.54	1.08	-	-	-	-	1.08
CO3	55	-	-	-	-	1.65	0.55	1.65	-	-	-	-	1.1
CO4	33	-	-	-	-	0.99	0.33	0.99	-	-	-	-	0.66
CO5	53	-	-	-	-	-	0.53	1.59	-	-	-	-	1.06
AVERAGE	49.2	-	1.62	-	-	1.32	0.49	1.36	-	-	-	-	0.82
FINAL ATTAINMENT LEVEL													1.12


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


 PRINCIPAL
 SIET., TUMAKURU.

SEM,V,EEEE USN	IA TEST 1			IA TEST 2			IA TEST 3			Assignment						SEE					Total					AVERAGE						
	CO1	CO2	TOTAL	CO3	CO4	TOTAL	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	TOTAL	CO1(34)	CO2	CO3	CO4	CO5	CO1(34)	CO2(34)	CO3(34)	CO4(54)	CO5(34)	
1SV17EE006	14	12	26	13	12	25	12	15	27	2	2	2	2	2	10	3.4	3.4	3.4	3.4	3.4	27	19.4	17.4	18.4	17.4	20.4	0.57	0.51	0.54	0.32	0.60	
1SV17EE012	12	7	19	4	11	15	11	6	17	2	2	2	2	2	10	5	5	5	5	5	25	19	14	11	18	13	0.56	0.41	0.32	0.33	0.38	
1SV18EE002	9	11	20	8	10	18	10	9	19	2	2	2	2	2	10	5.2	5.2	5.2	5.2	5.2	26	16.2	18.2	15.2	17.2	16.2	0.48	0.54	0.45	0.32	0.48	
1SV18EE003	8	18	26	16	11	27	14	11	25	2	2	2	2	2	10	5.2	5.2	5.2	5.2	5.2	26	15.2	25.2	23.2	21.2	18.2	0.45	0.74	0.68	0.39	0.54	
1SV18EE004	10	10	20	8	14	22	13	8	21	2	2	2	2	2	10	5.4	5.4	5.4	5.4	5.4	27	17.4	17.4	15.4	20.4	15.4	0.51	0.51	0.45	0.38	0.45	
1SV18EE005	11	18	29	17	10	27	9	19	28	2	2	2	2	2	10	4.6	4.6	4.6	4.6	4.6	23	17.6	24.6	23.6	15.6	25.6	0.52	0.72	0.69	0.29	0.75	
1SV18EE006	12	15	27	19	9	28	8	18	26	2	2	2	2	2	10	6.4	6.4	6.4	6.4	6.4	32	20.4	23.4	27.4	16.4	26.4	0.60	0.69	0.81	0.30	0.78	
1SV18EE007	14	-4	10	3	8	11	9	3	12	2	2	2	2	2	10	3.8	3.8	3.8	3.8	3.8	19	19.8	1.8	8.8	14.8	8.8	0.58	0.05	0.26	0.27	0.26	
1SV18EE008	12	15	27	19	7	26	11	14	25	2	2	2	2	2	10	4.8	4.8	4.8	4.8	4.8	24	18.8	21.8	25.8	17.8	20.8	0.55	0.64	0.76	0.33	0.61	
1SV18EE009	11	5	16	13	5	18	12	2	14	2	2	2	2	2	10	3.2	3.2	3.2	3.2	3.2	16	16.2	10.2	18.2	17.2	7.2	0.48	0.30	0.54	0.32	0.21	
1SV18EE011	12	9	21	15	10	25	14	9	23	2	2	2	2	2	10	4.2	4.2	4.2	4.2	4.2	21	18.2	15.2	21.2	20.2	15.2	0.54	0.45	0.62	0.37	0.45	
1SV18EE012	10	1	11	-2	12	10	10	-1	9	2	2	2	2	2	10	4.2	4.2	4.2	4.2	4.2	21	16.2	7.2	4.2	16.2	5.2	0.48	0.21	0.12	0.30	0.15	
1SV19EE400	9	20	29	16	14	30	12	16	28	2	2	2	2	2	10	4.6	4.6	4.6	4.6	4.6	23	15.6	26.6	22.6	18.6	22.6	0.46	0.78	0.66	0.34	0.66	
1SV19EE401	8	12	20	7	12	19	11	10	21	2	2	2	2	2	10	5	5	5	5	5	25	15	19	14	18	17	0.44	0.56	0.41	0.33	0.50	
1SV19EE402	7	22	29	16	11	27	10	18	28	2	2	2	2	2	10	4.8	4.8	4.8	4.8	4.8	24	13.8	28.8	22.8	16.8	24.8	0.41	0.85	0.67	0.31	0.73	
1SV19EE403	10	14	24	16	10	26	12	16	28	2	2	2	2	2	10	5.6	5.6	5.6	5.6	5.6	28	17.6	21.6	23.6	19.6	23.6	0.52	0.64	0.69	0.36	0.69	
1SV19EE404	12	9	21	13	11	24	10	13	23	2	2	2	2	2	10	4.2	4.2	4.2	4.2	4.2	21	18.2	15.2	19.2	16.2	19.2	0.54	0.45	0.56	0.30	0.56	
1SV19EE405	12	15	27	16	12	28	12	14	26	2	2	2	2	2	10	5.8	5.8	5.8	5.8	5.8	29	19.8	22.8	23.8	19.8	21.8	0.58	0.67	0.70	0.37	0.64	
TOTAL	193	209	402	217	189	406	200	200	400	36	36	36	36	36	180	85.4	85.4	85.4	85.4	85.4	437	314.4	330.4	338.4	321.4	321.4	9.2471	9.718	9.952941	5.951852	9.452941	
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	18
Average	11	12	22	12	11	23	11	11	22	2	2	2	2	2	10	5	5	5	5	5	24	17	18	19	18	18	51	54	55	33	53	

18ME651 NCES 2020-21


 N. S. Ramesh
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PRINCIPAL
 SIET., TUMAKURU.



SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGG

SUBJECT	POWER SYSTEM OPERATION & CONTROL	SUBJECT CODE	17EE81
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COURSE OUTCOME

CO1	Describe various levels of controls in power systems, architecture and configuration of SCADA.
CO2	Develop and analyze mathematical models of Automatic Load Frequency Control.
CO3	Develop mathematical model of Automatic Generation Control in Interconnected Power system
CO4	Discuss the Control of Voltage , Reactive Power and Voltage collapse.
CO5	Explain security, contingency analysis, state estimation of power systems.

PROGRAM OUTCOMES

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

G. H. Rao
Head of the Department
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N. S. Srinivas
PRINCIPAL
SIET., TUMAKURU.

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	RAJESH KUMAR V											
BRANCH	EEE			ACADEMIC YEAR				2020-21				
COURSE	B.E	SEMESTER		V	SECTION			EEE				
SUBJECT	POWER SYSTEM OPERATION & CONTROL						SUBJECT CODE		17EE81			
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	3	-	-	-	-	-	-	-	-	-	1
CO2	2	3	2	-	-	-	-	-	-	-	-	1
CO3	2	3	-	-	-	-	-	-	-	-	-	1
CO4	2	3	-	-	-	-	-	-	-	-	-	1
CO5	2	3	-	-	-	-	-	-	-	-	-	1
AVERAGE	2	3	-	-	-	-	-	-	-	-	-	1
OVERALL MAPPING OF SUBJECT												2

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	64.83	1.29	1.94										0.64
CO2	82.07	1.64	2.46										0.82
CO3	65.69	1.31	1.97										0.65
CO4	42.73	0.85	1.28										0.42
CO5	85.95	1.71	2.57										0.85
AVERAGE	68.25	1.36	2.04										0.67
FINAL ATTAINMENT LEVEL													1.35

G. H. Rama
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(Signature)
 Head of the Department
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 TUMKUR-572106.

SEM. VII. EEE	IA TEST 1			IA TEST 2			IA TEST 3			Assignment					Seminars					TOTAL					Average							
	CO1	CO2	TOTAL	CO1	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	
Slv17EE002	12	13	25	10	14	24	10	18	28	2	2	2	2	2	10	6.4	6.4	6.4	6.4	6.4	32	20.4	21.4	18.4	18.4	24.4	0.703	0.718	0.634	0.418	0.841	
Slv17EE004	11	15	26	12	18	30	11	17	28	2	2	2	2	2	10	5.2	5.2	5.2	5.2	5.2	26	18.2	22.2	19.2	18.2	24.2	0.628	0.714	0.662	0.414	0.834	
Slv17EE005	9	19	28	14	15	29	12	17	29	2	2	2	2	2	10	7.2	7.2	7.2	7.2	7.2	36	18.2	20.2	23.2	23.2	26.2	0.628	0.917	0.800	0.480	0.903	
Slv17EE009	7	19	26	9	19	28	13	14	27	2	2	2	2	2	10	8	8	8	8	8	40	17	19	19	23	24	0.586	1.036	0.655	0.521	0.828	
Slv17EE010	11	13	24	7	15	22	10	16	26	2	2	2	2	2	10	5.6	5.6	5.6	5.6	5.6	28	18.8	20.6	14.6	17.6	23.6	0.641	0.710	0.503	0.400	0.814	
Slv18EE400	12	15	27	13	12	25	9	16	25	2	2	2	2	2	10	6.4	6.4	6.4	6.4	6.4	32	20.4	23.4	19.4	17.4	24.4	0.703	0.807	0.689	0.395	0.841	
Slv18EE402	12	14	26	12	12	24	9	19	28	2	2	2	2	2	10	4.2	4.2	4.2	4.2	4.2	21	18.2	20.2	18.2	15.2	25.2	0.628	0.687	0.628	0.445	0.889	
Slv18EE403	10	18	28	11	13	24	10	18	28	2	2	2	2	2	10	7.4	7.4	7.4	7.4	7.4	37	19.4	21.4	20.4	19.4	27.4	0.649	0.876	0.703	0.441	0.943	
TOTAL	84	124	208	86	118	204	84	133	217	26	26	26	26	26	130	50.4	50.4	50.4	50.4	50.4	252	150.4	190.4	152.4	150.4	199.4	5.108207	6.965517	5.255172	3.418182	6.875662	
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	10.5	15.5	26	10.75	14.75	25.5	10.5	16.63	27.1	2	2	2	2	2	10	6.3	6.3	6.3	6.3	6.3	31.5	18.8	21.8	19.05	18.8	24.925	6.481	82.07	65.89	42.71	85.95	

2020-21 PSOC 17EE81

G.H. Ramu
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Nantha Lingappa
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**SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY**

SIRA ROAD, TUMKUR- 572 106.

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

SUBJECT	INDUSTRIAL DRIVES & APPLICATIONS	SUBJECT CODE	17EE82
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COURSE OUTCOME

- C01:** Explain the advantages, choice and control of electric drive
- C02:** Explain the dynamics, generating and motoring modes of operation of electric drives
- C03:** Explain the selection of motor power rating to suit industry requirements
- C04:** Analyze the performance & control of DC motor drives using controlled rectifiers
- C05:** Analyze the performance & control of converter fed Induction motor, synchronous motor & stepper motor drives

PROGRAM OUTCOMES

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

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Nandini Ramyappa
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COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	Mr. G. H. RAVIKUMAR											
BRANCH	EEE			ACADEMIC YEAR				2020-21				
COURSE	B.E	SEMESTER			VIII	SECTION			EEE			
SUBJECT	INDUSTRIAL DRIVES & APPLICATIONS						SUBJECT CODE			17EE82		
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	-	-	-	-	-	-	-	-	-	2
CO4	2	3	-	-	-	-	-	-	-	-	-	2
CO5	2	2	-	-	-	-	-	-	-	-	-	2
AVERAGE	2	2.75	-	-	-	-	-	-	-	-	-	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	73.71	1.474	-	-	-	-	-	-	-	-	-	-	1.474
CO2	72.4	1.448	2.172	-	-	-	-	-	-	-	-	-	1.488
CO3	77.6	1.552	2.328	-	-	-	-	-	-	-	-	-	1.552
CO4	73.3	1.466	2.199	-	-	-	-	-	-	-	-	-	1.466
CO5	73.59	1.471	1.471	-	-	-	-	-	-	-	-	-	1.471
AVERAGE		1.482	2.042	-	-	-	-	-	-	-	-	-	1.49
FINAL ATTAINMENT LEVEL													1.671

G. H. R. *Ravi*
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W. S. S. S.
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DEPARTMENT OF EEE

SUBJECT	OPERATING SYSTEM	SUBJECT CODE	17EE832
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COURSE OUTCOME

CO1	Describe the basics of operating system mechanisms of OS to handle processes ,threads, and their communication
CO2	Analyze the memory management and its allocation policies.
CO3	Illustrate different conditions for deadlock and their possible solutions.
CO4	Discuss the storage management policies with respect to different storage management technologies
CO5	Evaluate the concept of the operating system with respect to UNIX, Linux ,Time and mobile OS

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.

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PO9 Individual and team work: Function effectively as an individual, and as a member or leader in

diverse teams, and in multidisciplinary settings.

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

PO11 Project management and finance: An ability to use the modern engineering tools, techniques,

skills and management principles to do work as a member and leader in a team, to manage

projects in multidisciplinary environments.

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

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	UMABAI											
BRANCH	EEE			ACADEMIC YEAR				2020-21				
COURSE	B.E	SEMESTER	VII	SECTION			EEE					
SUBJECT	OPERATING SYSTEM						SUBJECT CODE		17EE832			
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	2		3	3	-	3	-	-	-	-	3
CO2	2	2		3	3	-	3	-	-	-	-	3
CO3	2	2		3	3	-	3	-	-	-	-	3
CO4	2	2	-	3	3	-	3	-	-	-	-	3
CO5	2	2	-	3	3	-	3	-	-	-	-	
AVERAGE	2	2		3	3		3					3
OVERALL MAPPING OF SUBJECT												

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Manjunath
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CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	72.80	1.45	1.45		2.18	2.18		2.18					2.18
CO2	81.85	1.63	1.63		2.45	2.45		2.45					2.45
CO3	69.35	1.38	1.38		2.08	2.08		2.08					2.08
CO4	46.85	0.93	0.93		1.40	1.40		1.40					1.40
CO5	87.84	1.75	1.75		2.63	2.63		2.63					2.63
AVERAGE	71.73	1.42	1.42		2.14	2.14		2.14					2.14
FINAL ATTAINMENT LEVEL													2.28

G. H. Ramesh
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N. Srinivasan
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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	11	14	25	14	9	23	11	16	27	2	2	2	2	2	10	7.6	7.6	7.6	7.6	7.6	38	20.6	23.6	23.6	20.6	25.6	0.71	0.81	0.81	0.47	0.88
1sv17EE004	14	14	28	12	15	27	14	15	29	2	2	2	2	2	10	6.6	6.6	6.6	6.6	6.6	33	22.6	22.6	20.6	22.6	23.6	0.78	0.78	0.71	0.51	0.81
1sv17EE005	9	20	29	10	18	28	13	16	29	2	2	2	2	2	10	10.6	10.6	10.6	10.6	10.6	53	21.6	32.6	22.6	25.6	28.6	0.74	1.12	0.78	0.58	0.99
1sv17EE009	12	14	26	11	14	25	15	12	27	2	2	2	2	2	10	7.4	7.4	7.4	7.4	7.4	37	21.4	23.4	20.4	24.4	21.4	0.74	0.81	0.70	0.55	0.74
1sv17EE010	14	12	26	14	11	25	10	17	27	2	2	2	2	2	10	4.6	4.6	4.6	4.6	4.6	23	20.6	18.6	20.6	16.6	23.6	0.71	0.64	0.71	0.38	0.81
1sv18EE400	12	13	25	7	17	24	9	17	26	2	2	2	2	2	10	6.4	6.4	6.4	6.4	6.4	32	20.4	21.4	15.4	17.4	25.4	0.70	0.74	0.53	0.40	0.88
1sv18EE402	11	16	27	9	16	25	7	22	29	2	2	2	2	2	10	6.5	6.5	6.5	6.5	6.5	32	19.5	24.5	17.5	15.5	30.5	0.67	0.84	0.60	0.35	1.05
1sv18EE403	13	14	27	11	15	26	13	15	28	2	2	2	2	2	10	7.2	7.2	7.2	7.2	7.2	36	22.2	23.2	20.2	22.2	24.2	0.77	0.80	0.70	0.50	0.83
TOTAL	96	117	213	88	115	203	92	130	222	16	16	16	16	16	80	56.9	56.9	56.9	56.9	56.9	284	168.9	189.9	160.9	164.9	202.9	5.82	6.55	5.55	3.75	7.00
total student	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	12	14.63	26.6	11	14.4	25.375	11.5	16.3	27.8	2	2	2	2	2	10	7.1125	7.11	7.113	7.113	7.113	35.5	21.113	23.738	20.113	20.6125	25.3625	72.80	81.85	69.35	46.85	87.46

2020-21

operating system 17ee832

Nandini Durgappa
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