COs & POs

2017-18

ODD SEMESTER

DEPARTMENT OF EEE

SUBJECT	Management & Entrepreship	SUBJECT CODE	15EE51

COURSE OUTCOME

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

PROGRAM OUTCOME

PO1 Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering 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	SUCHITRA											
BRANCH	EEE			ACADEMIC YEAR			2017-18					
COURSE	B.E	SEMESTER	V	SECTION	EEE							
SUBJECT	Management & Economics						SUBJECT CODE	15EE51				
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	-	3	2	3	-	2
CO2	-	-	-	-	-	2	-	2	3	3	-	2
CO3	-	-	-	-	-	3	-	2	3	2	-	2
CO4	-	-	-	-	-	-	-	2	2	2	-	3
CO5	-	-	-	-	-	-	-	2	3	3	2	2
AVERAGE	-	-	-	-	-	2.5	-	2.2	2.6	2.6	2	2.2
OVERALL MAPPING OF SUBJECT												3

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CO AND PO ATTAINMENT

	CO %	PO1	PO2	PO3	PO4	PO 5	PO6	PO7	PO8	PO9	PO1 0	PO1 1	PO12
CO1	69.32								2.07	1.38	2.07		1.38
CO2	69.32						1.38		1.38	2.07	2.07		1.38
CO3	69.32						2.07		1.38	2.07	1.38		1.38
CO4	69.32								1.38	1.38	1.38		2.07
CO5	69.32								1.38	2.07	2.07	1.38	1.38
AVERAG E	69.32						1.72		1.51	1.79	1.9	1.38	1.51
FINAL ATTAINMENT LEVEL													1.96

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STAFF NAME: SUCHITRA																																
Academic year	2017-18			SEM	5		Total strength			20		Subject	GEMENT AND ENTREPRENEU					Subject Cod				15EE51										
SEM: V, EEE	IA TEST 1			IA TEST 2			IA TEST 3			Assignment												Total					Average				
USN	CO1(7.5)	CO2(7.5)	TOTAL	CO3	CO4	TOTAL	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	TOTAL	CO1(16)	CO2	CO3	CO4	CO5	TOTAL	CO1(24.5)	CO2(24.5)	CO3(24.5)	CO4(32)	CO5(24.5)	CO1	CO2	CO3	CO4	CO5
1SV14EE006	5.5	5.5	11	5.5	5.5	11	5.5	5.5	11	1	1	1	1	1	5	3.75	3.75	3.75	3.75	3.75	60	10.25	10.25	10.25	15.75	10.25	41.84	41.84	41.84	49.22	41.84
1SV15EE003	7	7	14	7	7	14	7	7	14	1	1	1	1	1	5	3.63	3.63	3.63	3.63	3.63	58	11.63	11.63	11.63	18.63	11.63	47.45	47.45	47.45	58.20	47.45
1SV15EE007	7	7	14	7	7	14	7	7	14	1	1	1	1	1	5	2.81	2.81	2.81	2.81	2.81	45	10.81	10.81	10.81	17.81	10.81	44.13	44.13	44.13	55.66	44.13
1SV15EE008	6.5	6.5	13	6.5	6.5	13	6.5	6.5	13	1	1	1	1	1	5	9.20	9.20	9.20	9.20	9.20	46	16.70	16.70	16.70	23.20	16.70	68.16	68.16	68.16	72.50	68.16
1SV15EE012	3.5	3.5	7	3.5	3.5	7	3.5	3.5	7	1	1	1	1	1	5	2.50	2.50	2.50	2.50	2.50	40	7.00	7.00	7.00	10.50	7.00	28.57	28.57	28.57	32.81	28.57
1SV15EE013	5.5	5.5	11	5.5	5.5	11	5.5	5.5	11	1	1	1	1	1	5	2.56	2.56	2.56	2.56	2.56	41	9.06	9.06	9.06	14.56	9.06	36.99	36.99	36.99	45.51	36.99
1SV15EE015	6	6	12	6	6	12	6	6	12	1	1	1	1	1	5	3.50	3.50	3.50	3.50	3.50	56	10.50	10.50	10.50	16.50	10.50	42.86	42.86	42.86	51.56	42.86
1SV15EE017	7.5	7.5	15	7.5	7.5	15	7.5	7.5	15	1	1	1	1	1	5	3.94	3.94	3.94	3.94	3.94	63	12.44	12.44	12.44	19.94	12.44	50.77	50.77	50.77	62.30	50.77
1SV15EE019	7	7	14	7	7	14	7	7	14	1	1	1	1	1	5	2.38	2.38	2.38	2.38	2.38	38	10.38	10.38	10.38	17.38	10.38	42.35	42.35	42.35	54.30	42.35
1SV15EE020	7.5	7.5	15	7.5	7.5	15	7.5	7.5	15	1	1	1	1	1	5	3.06	3.06	3.06	3.06	3.06	49	11.56	11.56	11.56	19.06	11.56	47.19	47.19	47.19	59.57	47.19
1SV15EE024	5.5	5.5	11	5.5	5.5	11	5.5	5.5	11	1	1	1	1	1	5	3.06	3.06	3.06	3.06	3.06	49	9.56	9.56	9.56	15.06	9.56	39.02	39.02	39.02	47.06	39.02
1SV15EE025	4	4	8	4	4	8	4	4	8	1	1	1	1	1	5	1.44	1.44	1.44	1.44	1.44	23	6.44	6.44	6.44	10.44	6.44	26.28	26.28	26.28	32.62	26.28
1SV15EE032	5.5	5.5	11	5.5	5.5	11	5.5	5.5	11	1	1	1	1	1	5	4.44	4.44	4.44	4.44	4.44	71	10.94	10.94	10.94	16.44	10.94	44.64	44.64	44.64	51.37	44.64
1SV15EE033	5	5	10	5	5	10	5	5	10	1	1	1	1	1	5	2.69	2.69	2.69	2.69	2.69	43	8.69	8.69	8.69	13.69	8.69	35.46	35.46	35.46	42.77	35.46
1SV15EE035	6	6	12	6	6	12	6	6	12	1	1	1	1	1	5	2.75	2.75	2.75	2.75	2.75	44	9.75	9.75	9.75	15.75	9.75	39.80	39.80	39.80	49.22	39.80
1SV15EE036	5.5	5.5	11	5.5	5.5	11	5.5	5.5	11	1	1	1	1	1	5	2.19	2.19	2.19	2.19	2.19	35	8.69	8.69	8.69	14.19	8.69	35.46	35.46	35.46	44.34	35.46
1SV15EE037	6	6	12	6	6	12	6	6	12	1	1	1	1	1	5	2.63	2.63	2.63	2.63	2.63	42	9.63	9.63	9.63	15.63	9.63	39.29	39.29	39.29	48.83	39.29
1SV16EE403	4	4	8	4	4	8	4	4	8	1	1	1	1	1	5	3.44	3.44	3.44	3.44	3.44	55	8.44	8.44	8.44	12.44	8.44	34.44	34.44	34.44	38.87	34.44
1SV16EE404	3.5	3.5	7	3.5	3.5	7	3.5	3.5	7	1	1	1	1	1	5	2.94	2.94	2.94	2.94	2.94	47	7.44	7.44	7.44	10.94	7.44	30.36	30.36	30.36	34.18	30.36
1SV16EE405	5.5	5.5	11	5.5	5.5	11	5.5	5.5	11	1	1	1	1	1	5	3.31	3.31	3.31	3.31	3.31	53	9.81	9.81	9.81	15.31	9.81	40.05	40.05	40.05	47.85	40.05
1SV16EE409	6.5	6.5	13	6.5	6.5	13	6.5	6.5	13	1	1	1	1	1	5	3.13	3.13	3.13	3.13	3.13	50	10.63	10.63	10.63	17.13	10.63	43.37	43.37	43.37	53.52	43.37
TOTAL	120	120	240	120	120	240	120	120	240	21	21	21	21	21	105	69.32	#####	#####	#####	69.32	1008	210.32	210.32	210.32	330.32	210.32	#####	#####	#####	######	858.46
Total students	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20.00	#####	#####	#####	20.00	20	20.00	20.00	20.00	20.00	20.00	20	20	20	20	20
Avearge	6	6	12	6	6	12	6	6	12	1.1	1.1	1.05	1.05	1.1	5.25	3.47	3.47	3.47	3.47	3.47	50.4	10.52	10.52	10.52	16.52	10.52	43	43	43	52	43

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DEPARTMENT OF EEE

SUBJECT	MICROCONTROLLER	SUBJECT CODE	15EE52

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 for 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.

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	SIDDAPAJI											
BRANCH	EEE				ACADEMIC YEAR			2017-18				
COURSE	B.E		SEMESTER	V	SECTION			EEE				
SUBJECT	Electromagnetic Field Theory						SUBJECT CODE	15EE52				
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

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CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	39.31	0.78	0.78										0.78
CO2	39.31	0.78	0.78			0.78							0.78
CO3	39.31	1.18	0.78			0.78							0.78
CO4	39.31	1.18	0.78										0.78
CO5	39.31	1.18	1.18										0.78
AVERAGE	39.31	1.48	1.51			0.78							0.78
												FINAL ATTAINMENT LEVEL	1.13

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RU.

STAFF NAME: SIDDAPAJI

Academic year	2017-18			SEM	5		Total strength			20		Subject	MICROCONTROLLER				Subject Code	15EES2											
SEM: V, ECE	IA TEST 1			IA TEST 2			IA TEST 3					Assignment											Total					Average				
USN	CO1(7.5)	CO2(7.5)	TOTAL	CO3	CO4	TOTAL	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	TOTAL	CO1(16)	CO2	CO3	CO4	CO5	TOTAL	CO1(24.5)	CO2(34)	CO3(34)	CO4(32)	CO5(34)	CO1	CO2	CO3	CO4	CO5
1SV14EE006	5.5	5.5	11	5.5	5.5	11	5.5	5.5	11	1	1	1	1	1	5	1.125	1.125	1.125	1.125	1.125	18	7.625	7.625	7.625	7.625	7.625	31	31	31	24	31
1SV15EE003	7.5	7.5	15	7.5	7.5	15	7.5	7.5	15	1	1	1	1	1	5	1.38	1.38	1.38	1.38	1.38	22	9.875	9.875	9.875	9.875	9.875	40	40	40	31	40
1SV15EE007	7.5	7.5	15	7.5	7.5	15	7.5	7.5	15	1	1	1	1	1	5	2.00	2.00	2.00	2.00	2.00	32	10.5	10.5	10.5	10.5	10.5	43	43	43	33	43
1SV15EE008	7.5	7.5	15	7.5	7.5	15	7.5	7.5	15	1	1	1	1	1	5	2.31	2.31	2.31	2.31	2.31	37	10.8125	10.8125	10.8125	10.8125	10.8125	44	44	44	34	44
1SV15EE012	5	5	10	5	5	10	5	5	10	1	1	1	1	1	5	1.75	1.75	1.75	1.75	1.75	28	7.75	7.75	7.75	7.75	7.75	32	32	32	24	32
1SV15EE013	4.5	4.5	9	4.5	4.5	9	4.5	4.5	9	1	1	1	1	1	5	1.75	1.75	1.75	1.75	1.75	28	7.25	7.25	7.25	7.25	7.25	30	30	30	23	30
1SV15EE015	4	4	8	4	4	8	4	4	8	1	1	1	1	1	5	2.00	2.00	2.00	2.00	2.00	32	7	7	7	7	7	29	29	29	22	29
1SV15EE017	7.5	7.5	15	7.5	7.5	15	7.5	7.5	15	1	1	1	1	1	5	3.06	3.06	3.06	3.06	3.06	49	11.5625	11.5625	11.5625	11.5625	11.5625	47	47	47	36	47
1SV15EE019	5.5	5.5	11	5.5	5.5	11	5.5	5.5	11	1	1	1	1	1	5	1.94	1.94	1.94	1.94	1.94	31	8.4375	8.4375	8.4375	8.4375	8.4375	34	34	34	26	34
1SV15EE020	7.5	7.5	15	7.5	7.5	15	7.5	7.5	15	1	1	1	1	1	5	2.06	2.06	2.06	2.06	2.06	33	10.5625	10.5625	10.5625	10.5625	10.5625	43	43	43	33	43
1SV15EE024	5	5	10	5	5	10	5	5	10	1	1	1	1	1	5	1.19	1.19	1.19	1.19	1.19	19	7.1875	7.1875	7.1875	7.1875	7.1875	29	29	29	22	29
1SV15EE025	7.5	7.5	15	7.5	7.5	15	7.5	7.5	15	1	1	1	1	1	5	1.13	1.13	1.13	1.13	1.13	18	9.625	9.625	9.625	9.625	9.625	39	39	39	30	39
1SV15EE032	6.5	6.5	13	6.5	6.5	13	6.5	6.5	13	1	1	1	1	1	5	2.19	2.19	2.19	2.19	2.19	35	9.6875	9.6875	9.6875	9.6875	9.6875	40	40	40	30	40
1SV15EE033	5	5	10	5	5	10	5	5	10	1	1	1	1	1	5	2.31	2.31	2.31	2.31	2.31	37	8.3125	8.3125	8.3125	8.3125	8.3125	34	34	34	26	34
1SV15EE035	5.5	5.5	11	5.5	5.5	11	5.5	5.5	11	1	1	1	1	1	5	1.75	1.75	1.75	1.75	1.75	28	8.25	8.25	8.25	8.25	8.25	34	34	34	26	34
1SV15EE036	5	5	10	5	5	10	5	5	10	1	1	1	1	1	5	1.94	1.94	1.94	1.94	1.94	31	7.9375	7.9375	7.9375	7.9375	7.9375	32	32	32	25	32
1SV15EE037	7	7	14	7	7	14	7	7	14	1	1	1	1	1	5	1.94	1.94	1.94	1.94	1.94	31	9.9375	9.9375	9.9375	9.9375	9.9375	41	41	41	31	41
1SV16EE403	4.5	4.5	9	4.5	4.5	9	4.5	4.5	9	1	1	1	1	1	5	1.75	1.75	1.75	1.75	1.75	28	7.25	7.25	7.25	7.25	7.25	30	30	30	23	30
1SV16EE404	5.5	5.5	11	5.5	5.5	11	5.5	5.5	11	1	1	1	1	1	5	1.38	1.38	1.38	1.38	1.38	22	7.875	7.875	7.875	7.875	7.875	32	32	32	25	32
1SV16EE405	4.5	4.5	9	4.5	4.5	9	4.5	4.5	9	1	1	1	1	1	5	2.13	2.13	2.13	2.13	2.13	34	7.625	7.625	7.625	7.625	7.625	31	31	31	24	31
1SV16EE409	7	7	14	7	7	14	7	7	14	1	1	1	1	1	5	2.25	2.25	2.25	2.25	2.25	36	10.25	10.25	10.25	10.25	10.25	42	42	42	32	42
TOTAL	125	125	250	125	125	250	125	125	250	21	21	21	21	21	105	39.3125	39.3125	39.3125	39.3125	39.3125	629	185.3125	185.3125	185.3125	185.3125	185.3125	756.3776	756.3776	756.3776	579.1016	756.3776
Total students	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
Aveargе	5.952381	5.952381	11.90476	5.952381	5.952381	11.90476	5.952381	5.952381	11.90476	1	1	1	1	1	5	1.872024	1.872024	1.872024	1.872024	1.872024	29.95238	8.824405	8.824405	8.824405	8.824405	8.824405	36	36	36	28	36

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Head of the Department
Electrical & Electronics Engineering
Siddaganga Institute of Engineering &

DEPARTMENT OF EEE

SUBJECT	POWER ELECTRONICS	SUBJECT CODE	15EE53

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

G.H.R

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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	R TEJASHWINI											
BRANCH	EEE			ACADEMIC YEAR			2017-18					
COURSE	B.E	SEMESTER	V	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	2	-	-	-	-	-	-	-	-	-	-	2
CO2	2	-	-	-	-	-	-	-	-	-	-	2
CO3	2	2	-	-	-	-	-	-	-	-	-	2
CO4	2	2	-	-	-	-	-	-	-	-	-	-
CO5	2	2	-	-	-	-	-	-	-	-	-	-
AVERAGE	2	2										2

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OVERALL MAPPING OF SUBJECT	2

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	41.87	0.83	0.83										
CO2	41.87	0.83	0.83										
CO3	41.87	0.83	0.83										0.83
CO4	41.87	0.83	0.83										
CO5	41.87	0.83	0.83	0.83									
AVERAGE	41.87	0.83	0.83	0.83									0.83
FINAL ATTAINMENT LEVEL													0.83

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STAFF NAME: R TEJASHWINI

Academic year	2017-18			SEM	5		Total strength			2017-18		Subject		POWER ELECTROINCS					Subject Code	15EE53			Total						Average				
SEM: V, EEE	IA TEST 1			IA TEST 2			IA TEST 3			Assignment																						
USN	CO1(7.5)	CO2(7.5)	TOTAL	CO3	CO4	TOTAL	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	TOTAL	CO1(16)	CO2	CO3	CO4	CO5	TOTAL	CO1(24.5)	CO2(24.5)	CO3(24.5)	CO4(32)	CO5(24.5)	CO1	CO2	CO3	CO4	CO5
1SV14EE006	7	8	15	7	8	15	7	8	15	1	1	1	1	1	5	1.75	1.75	1.75	1.75	1.75	28	9.75	10.75	9.75	17.75	10.75	39.80	43.88	39.80	55.47	43.88
1SV15EE003	9	8	17	9	8	17	9	8	17	1	1	1	1	1	5	1.75	1.75	1.75	1.75	1.75	28	11.75	10.75	11.75	19.75	10.75	47.96	43.88	47.96	61.72	43.88
1SV15EE007	7	12	19	7	12	19	7	12	19	1	1	1	1	1	5	2.25	2.25	2.25	2.25	2.25	36	10.25	15.25	10.25	22.25	15.25	41.84	62.24	41.84	69.53	62.24
1SV15EE008	5	10	15	5	10	15	5	10	15	1	1	1	1	1	5	2.38	2.38	2.38	2.38	2.38	38	8.375	13.375	8.375	18.375	13.375	34.18	54.59	34.18	57.42	54.59
1SV15EE012	6	8	14	6	8	14	6	8	14	1	1	1	1	1	5	1.31	1.31	1.31	1.31	1.31	21	8.3125	10.3125	8.3125	16.3125	10.3125	33.93	42.09	33.93	50.98	42.09
1SV15EE013	4	10	14	4	10	14	4	10	14	1	1	1	1	1	5	2.56	2.56	2.56	2.56	2.56	41	7.5625	13.5625	7.5625	17.5625	13.5625	30.87	55.36	30.87	54.88	55.36
1SV15EE015	5	9	14	5	9	14	5	9	14	1	1	1	1	1	5	1.75	1.75	1.75	1.75	1.75	28	7.75	11.75	7.75	16.75	11.75	31.63	47.96	31.63	52.34	47.96
1SV15EE017	4	15	19	4	15	19	4	15	19	1	1	1	1	1	5	2.75	2.75	2.75	2.75	2.75	44	7.75	18.75	7.75	22.75	18.75	31.63	76.53	31.63	71.09	76.53
1SV15EE019	6	10	16	6	10	16	6	10	16	1	1	1	1	1	5	2.19	2.19	2.19	2.19	2.19	35	9.1875	13.1875	9.1875	19.1875	13.1875	37.50	53.83	37.50	59.96	53.83
1SV15EE020	7	13	20	7	13	20	7	13	20	1	1	1	1	1	5	2.63	2.63	2.63	2.63	2.63	42	10.625	16.625	10.625	23.625	16.625	43.37	67.86	43.37	73.83	67.86
1SV15EE024	4	11	15	4	11	15	4	11	15	1	1	1	1	1	5	2.13	2.13	2.13	2.13	2.13	34	7.125	14.125	7.125	18.125	14.125	29.08	57.65	29.08	56.64	57.65
1SV15EE025	3	12	15	3	12	15	3	12	15	1	1	1	1	1	5	1.25	1.25	1.25	1.25	1.25	20	5.25	14.25	5.25	17.25	14.25	21.43	58.16	21.43	53.91	58.16
1SV15EE032	1	13	14	1	13	14	1	13	14	1	1	1	1	1	5	1.75	1.75	1.75	1.75	1.75	28	3.75	15.75	3.75	16.75	15.75	15.31	64.29	15.31	52.34	64.29
1SV15EE033	2	13	15	2	13	15	2	13	15	1	1	1	1	1	5	2.06	2.06	2.06	2.06	2.06	33	5.0625	16.0625	5.0625	18.0625	16.0625	20.66	65.56	20.66	56.45	65.56
1SV15EE035	7	9	16	7	9	16	7	9	16	1	1	1	1	1	5	1.75	1.75	1.75	1.75	1.75	28	9.75	11.75	9.75	18.75	11.75	39.80	47.96	39.80	58.59	47.96
1SV15EE036	6	10	16	6	10	16	6	10	16	1	1	1	1	1	5	2.56	2.56	2.56	2.56	2.56	41	9.5625	13.5625	9.5625	19.5625	13.5625	39.03	55.36	39.03	61.13	55.36
1SV15EE037	4	14	18	4	14	18	4	14	18	1	1	1	1	1	5	1.88	1.88	1.88	1.88	1.88	30	6.875	16.875	6.875	20.875	16.875	28.06	68.88	28.06	65.23	68.88
1SV16EE403	5	10	15	5	10	15	5	10	15	1	1	1	1	1	5	1.13	1.13	1.13	1.13	1.13	18	7.125	12.125	7.125	17.125	12.125	29.08	49.49	29.08	53.52	49.49
1SV16EE404	6	9	15	6	9	15	6	9	15	1	1	1	1	1	5	2.31	2.31	2.31	2.31	2.31	37	9.3125	12.3125	9.3125	18.3125	12.3125	38.01	50.26	38.01	57.23	50.26
1SV16EE405	6	9	15	6	9	15	6	9	15	1	1	1	1	1	5	1.75	1.75	1.75	1.75	1.75	28	8.75	11.75	8.75	17.75	11.75	35.71	47.96	35.71	55.47	47.96
1SV16EE409	5	12	17	5	12	17	5	12	17	1	1	1	1	1	5	2.00	2.00	2.00	2.00	2.00	32	8	15	8	20	15	32.65	61.22	32.65	62.50	61.22
TOTAL	109	225	334	109	225	334	109	225	334	21	21	21	21	21	105	41.875	41.875	41.875	41.875	41.875	670	171.875	287.875	171.875	396.875	287.875	701.5306	1175	701.5306	1240.234	1175
Total students	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
Avearge	5.45	11.25	16.7	5.45	11.25	16.7	5.45	11.25	16.7	1.05	1.05	1.05	1.05	1.05	5.25	2.09375	2.09375	2.09375	2.09375	2.09375	33.5	8.59375	14.39375	8.59375	19.84375	14.39375	35	59	35	62	59

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

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGG

SUBJECT	SIGNALS & SYSTEMS	SUBJECT CODE	15EE54

COURSE OUTCOME

CO1	Explain the generation of signals, behavior of system and the basic operations that can be performed on signals and properties of systems.
CO2	Apply convolution in both continuous and discrete domain for the analysis of systems given impulse response of a system.
CO3	Solve the continuous time and discrete time systems by various methods and their representation by block diagram
CO4	Perform Fourier analysis for continuous and discrete time, linear time invariant systems.
CO5	Apply Z-transform and properties of Z transform for the analysis of discrete time systems

PROGRAM OUTCOMES

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

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

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

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

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

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

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

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

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

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

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

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

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COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	G H RAVIKUMAR											
BRANCH	EEE			ACADEMIC YEAR			2017-18					
COURSE	B.E	SEMESTER	VI	SECTION	EEE							
SUBJECT	SIGNALS & SYSTEMS					SUBJECT CODE	15EE54					
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	-	-	-	-	-	-	-	-	-	2
CO2	2	3	-	-	-	-	-	-	-	-	-	-
CO3	3	3	-	-	2	-	-	-	-	-	-	2
CO4	2	3	-	-	2	-	-	-	-	-	-	-
CO5	2	3	-	-	2	-	-	-	-	-	-	-
AVERAGE	2.2	3	-	-	2	-	-	-	-	-	-	2
OVERALL MAPPING OF SUBJECT												2.75

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	33	0.72	0.99										0.66
CO2	63	1.38	1.89										
CO3	33	0.72	0.99			0.66							0.66
CO4	48	1.05	1.44			0.96							
CO5	63	1.38	1.89			1.26							
AVERAGE	48	1.05	1.44			0.96							0.66
FINAL ATTAINMENT LEVEL													0.77

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STAFF NAME : G H RAVI KUMAR

Academic year	2017-18			SEM	5		Total strength			20		Subject		SIGNALS AND SYSTEM				Subject Code	15EE54									
SEM: V, EEE	IA TEST 1			IA TEST 2			IA TEST 3					Assignment										Total					Average				
USN	CO1(7.5)	CO2(7.5)	TOTAL	CO3	CO4	TOTAL	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	TOTAL	CO1(16)	CO2	CO3	CO4	CO5	TOTAL	CO1(24.5)	CO2(24.5)	CO3(24.5)	CO4(32)	CO5(24.5)	CO1	CO2	CO3	CO4	CO5
1SV14EE006	7	6	13	7	6	13	7	6	13	1	1	1	1	1	5	1.5	1.5	1.5	1.5	1.5	24	9.5	8.5	9.5	8.5	8.5	38.78	34.69	38.78	26.56	34.69
1SV15EE003	6	14	20	6	14	20	6	14	20	1	1	1	1	1	5	1.75	1.75	1.75	1.75	1.75	28	8.75	16.75	8.75	16.75	16.75	35.71	68.37	35.71	52.34	68.37
1SV15EE007	5	15	20	5	15	20	5	15	20	1	1	1	1	1	5	2.75	2.75	2.75	2.75	2.75	44	8.75	18.75	8.75	18.75	18.75	35.71	76.53	35.71	58.59	76.53
1SV15EE008	4	15	19	4	15	19	4	15	19	1	1	1	1	1	5	2.4375	2.4375	2.4375	2.4375	2.4375	39	7.4375	18.4375	7.4375	18.4375	18.4375	30.36	75.26	30.36	57.62	75.26
1SV15EE012	6	9	15	6	9	15	6	9	15	1	1	1	1	1	5	1	1	1	1	1	16	8	11	8	11	11	32.65	44.90	32.65	34.38	44.90
1SV15EE013	7	11	18	7	11	18	7	11	18	1	1	1	1	1	5	1.75	1.75	1.75	1.75	1.75	28	9.75	13.75	9.75	13.75	13.75	39.80	56.12	39.80	42.97	56.12
1SV15EE015	5	13	18	5	13	18	5	13	18	1	1	1	1	1	5	2.1875	2.1875	2.1875	2.1875	2.1875	35	8.1875	16.1875	8.1875	16.1875	16.1875	33.42	66.07	33.42	50.59	66.07
1SV15EE017	4	16	20	4	16	20	4	16	20	1	1	1	1	1	5	2.125	2.125	2.125	2.125	2.125	34	7.125	19.125	7.125	19.125	19.125	29.08	78.06	29.08	59.77	78.06
1SV15EE019	5	13	18	5	13	18	5	13	18	1	1	1	1	1	5	0.6875	0.6875	0.6875	0.6875	0.6875	11	6.6875	14.6875	6.6875	14.6875	14.6875	27.30	59.95	27.30	45.90	59.95
1SV15EE020	1	19	20	1	19	20	1	19	20	1	1	1	1	1	5	2.9375	2.9375	2.9375	2.9375	2.9375	47	4.9375	22.9375	4.9375	22.9375	22.9375	20.15	93.62	20.15	71.68	93.62
1SV15EE024	3	16	19	3	16	19	3	16	19	1	1	1	1	1	5	1.75	1.75	1.75	1.75	1.75	28	5.75	18.75	5.75	18.75	18.75	23.47	76.53	23.47	58.59	76.53
1SV15EE025	5	10	15	5	10	15	5	10	15	1	1	1	1	1	5	1.25	1.25	1.25	1.25	1.25	20	7.25	12.25	7.25	12.25	12.25	29.59	50.00	29.59	38.28	50.00
1SV15EE032	6	9	15	6	9	15	6	9	15	1	1	1	1	1	5	1.25	1.25	1.25	1.25	1.25	20	8.25	11.25	8.25	11.25	11.25	33.67	45.92	33.67	35.16	45.92
1SV15EE033	4	13	17	4	13	17	4	13	17	1	1	1	1	1	5	1.75	1.75	1.75	1.75	1.75	28	6.75	15.75	6.75	15.75	15.75	27.55	64.29	27.55	49.22	64.29
1SV15EE035	6	8	14	6	8	14	6	8	14	1	1	1	1	1	5	1.25	1.25	1.25	1.25	1.25	20	8.25	10.25	8.25	10.25	10.25	33.67	41.84	33.67	32.03	41.84
1SV15EE036	5	10	15	5	10	15	5	10	15	1	1	1	1	1	5	1.25	1.25	1.25	1.25	1.25	20	7.25	12.25	7.25	12.25	12.25	29.59	50.00	29.59	38.28	50.00
1SV15EE037	4	16	20	4	16	20	4	16	20	1	1	1	1	1	5	1.875	1.875	1.875	1.875	1.875	30	6.875	18.875	6.875	18.875	18.875	28.06	77.04	28.06	58.98	77.04
1SV16EE403	6	8	14	6	8	14	6	8	14	1	1	1	1	1	5	1.0625	1.0625	1.0625	1.0625	1.0625	17	8.0625	10.0625	8.0625	10.0625	10.0625	32.91	41.07	32.91	31.45	41.07
1SV16EE404	5	9	14	5	9	14	5	9	14	1	1	1	1	1	5	1.25	1.25	1.25	1.25	1.25	20	7.25	11.25	7.25	11.25	11.25	29.59	45.92	29.59	35.16	45.92
1SV16EE405	6	8	14	6	8	14	6	8	14	1	1	1	1	1	5	0.6875	0.6875	0.6875	0.6875	0.6875	11	7.6875	9.6875	7.6875	9.6875	9.6875	31.38	39.54	31.38	30.27	39.54
1SV16EE409	4	15	19	4	15	19	4	15	19	1	1	1	1	1	5	2	2	2	2	2	32	7	18	7	18	18	28.57	73.47	28.57	56.25	73.47
TOTAL	104	253	357	104	253	357	104	253	357	21	21	21	21	21	105	34.5	34.5	34.5	34.5	34.5	552	159.5	308.5	159.5	308.5	308.5	651.0204	1259.184	651.0204	964.0625	1259.184
Total students	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
Avearge	5.2	12.65	17.85	5.2	12.65	17.85	5.2	12.65	17.85	1.05	1.05	1.05	1.05	1.05	5.25	1.725	1.725	1.725	1.725	1.725	27.6	7.975	15.425	7.975	15.425	15.425	33	63	33	48	63

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Shridevi Institute of Engineering

SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGG

SUBJECT	POWER SYSTEM ANALYSIS 2	SUBJECT CODE	10EE71

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 Runge Kutta Method to solve Swing Equation

PROGRAM OUTCOMES

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

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

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

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

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

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

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

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

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

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

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

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

Head of the Department
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TUMKUR-572106.

PRINCIPAL
SIET., TUMAKURU

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	TANUJA KS											
BRANCH	EEE			ACADEMIC YEAR			2017-18					
COURSE	B.E	SEMESTER	VII	SECTION	EEE							
SUBJECT	POWER SYTEM ANALYSIS 2					SUBJECT CODE	10EE71					

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	3	-	-	-	-	-	-	-	-	-	-
CO3	3	3	-	-	-	-	-	-	-	-	-	2
CO4	2	3	-	-	-	-	-	-	-	-	-	-
CO5	3	3	2	-	-	-	-	-	-	-	-	-
AVERAGE	2.8	3	2	-	-	-	-	-	-	-	-	2
OVERALL MAPPING OF SUBJECT												2.45

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	60.92	1.70	1.82										
CO2	59.98	1.67	1.79										
CO3	59.98	1.67	1.79										1.19
CO4	59.98	1.67	1.79										
CO5	63.88	1.78	1.91	1.27									
AVERAGE	60.98	1.69	1.82	1.27									1.19
FINAL ATTAINMENT LEVEL													1.49

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PRINCIPAL
SIET., TUMAKURU

Academic year	2017-18		SEM	VII		Strength	29		Subject	CTPS				Subject Code	10EE71												
SEM:VII	IA TEST 1(25M)			IA TEST 2(25M)			IA TEST 3(25M)			SEE MARKS(100)					Total COs ATTAINMENT					% of Individual CO					SEE Tot		Tot IA	
USN	CO1	CO2	TOTAL	CO3	CO4	TOTAL	CO5	CO5	TOTAL	CO1=12	CO2	CO3	CO4	CO5	CO1=32.5	CO2=32.5	CO3=32.5	CO4=32.5	CO5=45	CO1	CO2	CO3	CO4	CO5	100 M		25 M	
1SV13EE011	7.5	7.5	15	7.5	7.5	15	7.5	7.5	15	15	15	15	15	15	22.5	22.5	22.5	22.5	30	70.31	69.23	69.23	69.23	66.67	54.00	15	15	7.5
1SV13EE012	7.5	7.5	15	7.5	7.5	15	7.5	7.5	15	11.8	11.8	11.8	11.8	11.8	19.3	19.3	19.3	19.3	26.8	60.31	59.38	59.38	59.38	59.56	59.00	11.8	15	7.5
1SV13EE015	7.5	7.5	15	7.5	7.5	15	7.5	7.5	15	12.4	12.4	12.4	12.4	12.4	19.9	19.9	19.9	19.9	27.4	62.19	61.23	61.23	61.23	60.89	62.00	12.4	15	7.5
1SV13EE028	7.5	7.5	15	7.5	7.5	15	7.5	7.5	15	7	7	7	7	7	14.5	14.5	14.5	14.5	22	45.31	44.62	44.62	44.62	48.89	35.00	7	15	7.5
1SV13EE030	7.5	7.5	15	7.5	7.5	15	7.5	7.5	15	9.2	9.2	9.2	9.2	9.2	16.7	16.7	16.7	16.7	24.2	52.19	51.38	51.38	51.38	53.78	46.00	9.2	15	7.5
1SV13EE039	7.5	7.5	15	7.5	7.5	15	7.5	7.5	15	11.6	11.6	11.6	11.6	11.6	19.1	19.1	19.1	19.1	26.6	59.69	58.77	58.77	58.77	59.11	58.00	11.6	15	7.5
1SV14EE005	11	11	22	11	11	22	11	11	22	9.2	9.2	9.2	9.2	9.2	20.2	20.2	20.2	20.2	31.2	63.13	62.15	62.15	62.15	69.33	46.00	9.2	22	11
1SV14EE008	11	11	22	11	11	22	11	11	22	9.8	9.8	9.8	9.8	9.8	20.8	20.8	20.8	20.8	31.8	65.00	64.00	64.00	64.00	70.67	49.00	9.8	22	11
1SV14EE009	11.5	11.5	23	11.5	11.5	23	11.5	11.5	23	9.2	9.2	9.2	9.2	9.2	20.7	20.7	20.7	20.7	32.2	64.69	63.69	63.69	63.69	71.56	46.00	9.2	23	11.5
1SV14EE011	12	12	24	12	12	24	12	12	24	11	11	11	11	11	23	23	23	23	35	71.88	70.77	70.77	70.77	77.78	55.00	11	24	12
1SV14EE017	10.5	10.5	21	10.5	10.5	21	10.5	10.5	21	9.4	9.4	9.4	9.4	9.4	19.9	19.9	19.9	19.9	30.4	62.19	61.23	61.23	61.23	67.56	47.00	9.4	21	10.5
1SV14EE018	7.5	7.5	15	7.5	7.5	15	7.5	7.5	15	9.6	9.6	9.6	9.6	9.6	17.1	17.1	17.1	17.1	24.6	53.44	52.62	52.62	52.62	54.67	48.00	9.6	15	7.5
1SV14EE019	11.5	11.5	23	11.5	11.5	23	11.5	11.5	23	12.4	12.4	12.4	12.4	12.4	23.9	23.9	23.9	23.9	35.4	74.69	73.54	73.54	73.54	78.67	62.00	12.4	23	11.5
1SV14EE021	7.5	7.5	15	7.5	7.5	15	7.5	7.5	15	8.2	8.2	8.2	8.2	8.2	15.7	15.7	15.7	15.7	23.2	49.06	48.31	48.31	48.31	51.56	41.00	8.2	15	7.5
1SV14EE022	8.5	8.5	17	8.5	8.5	17	8.5	8.5	17	7	7	7	7	7	15.5	15.5	15.5	15.5	24	48.44	47.69	47.69	47.69	53.33	35.00	7	17	8.5
1SV14EE024	11	11	22	11	11	22	11	11	22	11.6	11.6	11.6	11.6	11.6	22.6	22.6	22.6	22.6	33.6	70.63	69.54	69.54	69.54	74.67	58.00	11.6	22	11
1SV14EE025	11	11	22	11	11	22	11	11	22	13	13	13	13	13	24	24	24	24	35	75.00	73.85	73.85	73.85	77.78	65.00	13	22	11
1SV14EE026	8.5	8.5	17	8.5	8.5	17	8.5	8.5	17	7	7	7	7	7	15.5	15.5	15.5	15.5	24	48.44	47.69	47.69	47.69	53.33	35.00	7	17	8.5
1SV14EE031	7.5	7.5	15	7.5	7.5	15	7.5	7.5	15	7.6	7.6	7.6	7.6	7.6	15.1	15.1	15.1	15.1	22.6	47.19	46.46	46.46	46.46	50.22	38.00	7.6	15	7.5
1SV14EE035	8.5	8.5	17	8.5	8.5	17	8.5	8.5	17	7.2	7.2	7.2	7.2	7.2	15.7	15.7	15.7	15.7	24.2	49.06	48.31	48.31	48.31	53.78	36.00	7.2	17	8.5
1SV15EE400	9.5	9.5	19	9.5	9.5	19	9.5	9.5	19	7.2	7.2	7.2	7.2	7.2	16.7	16.7	16.7	16.7	26.2	52.19	51.38	51.38	51.38	58.22	36.00	7.2	19	9.5
1SV15EE401	8	8	16	8	8	16	8	8	16	10.4	10.4	10.4	10.4	10.4	18.4	18.4	18.4	18.4	26.4	57.50	56.62	56.62	56.62	58.67	52.00	10.4	16	8
1SV15EE405	7.5	7.5	15	7.5	7.5	15	7.5	7.5	15	10.4	10.4	10.4	10.4	10.4	17.9	17.9	17.9	17.9	25.4	55.94	55.08	55.08	55.08	56.44	52.00	10.4	15	7.5
1SV15EE407	8.5	8.5	17	8.5	8.5	17	8.5	8.5	17	7	7	7	7	7	15.5	15.5	15.5	15.5	24	48.44	47.69	47.69	47.69	53.33	35.00	7	17	8.5
1SV15EE408	11	11	22	11	11	22	11	11	22	9.6	9.6	9.6	9.6	9.6	20.6	20.6	20.6	20.6	31.6	64.38	63.38	63.38	63.38	70.22	48.00	9.6	22	11
1SV15EE410	8	8	16	8	8	16	8	8	16	11	11	11	11	11	19	19	19	19	27	59.38	58.46	58.46	58.46	60.00	55.00	11	16	8
1SV15EE412	7.5	7.5	15	7.5	7.5	15	7.5	7.5	15	0	0	0	0	0	7.5	7.5	7.5	7.5	15	23.44	23.08	23.08	23.08	33.33	0.00	0	15	7.5
1SV15EE414	8.5	8.5	17	8.5	8.5	17	8.5	8.5	17	11.6	11.6	11.6	11.6	11.6	20.1	20.1	20.1	20.1	28.6	62.81	61.85	61.85	61.85	63.56	58.00	11.6	17	8.5
1SV15EE415	11.5	11.5	23	11.5	11.5	23	11.5	11.5	23	16	16	16	16	16	27.5	27.5	27.5	27.5	39	85.94	84.62	84.62	84.62	86.67	80.00	16	23	11.5
																				60.92	59.98	59.98	59.98	63.88	47.97			

Head of the Department
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Tumakuru-572106

PRINCIPAL
SIET, TUMAKURU

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

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGG

SUBJECT	UTILIZATION OF ELECTRICAL POWER	SUBJECT CODE	10EE72

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 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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PRINCIPAL
SIET., TUMAKURU.

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	SOWMYA T C											
BRANCH	EEE			ACADEMIC YEAR			2017-18					
COURSE	B.E	SEMESTER	VII	SECTION	EEE							
SUBJECT	UTILIZATION OF ELECTRICAL POWER			SUBJECT CODE	10EE72							

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	2	-	-	-	-	-	-	-	-	-
CO2	2	3	3	3	-	-	-	-	-	-	-	3
CO3	2	3	2	-	-	-	-	-	-	-	-	-
CO4	2	3	-	-	-	-	-	-	-	-	-	-
CO5	2	3	-	-	-	-	-	-	-	-	-	3
AVERAGE	2	3	2.33	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	64.48	1.28	1.93	1.50									
CO2	63.49	1.26	1.90	1.47	1.90								1.90
CO3	63.49	1.26	1.90	1.47									
CO4	63.49	1.26	1.90										
CO5	68.94	1.37	2.06										1.37
AVERAGE	64.77	1.28	1.93	1.48	1.90								1.63
FINAL ATTAINMENT LEVEL													1.64

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PRINCIPAL
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Academic year	2017-18		SEM	VII		Strength	29		Subject	EPU				Subject Code	10EE72											
SEM:VII	IA TEST 1(25M)			IA TEST 2(25M)			IA TEST 3(25M)			SEE MARKS(100)					Total COs ATTAINMENT					% of Individual CO					SEE Tot		Tot IA	
USN	CO1	CO2	TOTAL	CO3	CO4	TOTAL	CO5	CO5	TOTAL	CO1=12	CO2	CO3	CO4	CO5	CO1=32.5	CO2=32.5	CO3=32.5	CO4=32.5	CO5=45	CO1	CO2	CO3	CO4	CO5	100 M		25 M	
1SV13EE011	7.5	7.5	15	7.5	7.5	15	7.5	7.5	15	15	15	15	15	15	22.5	22.5	22.5	22.5	30	70.31	69.23	69.23	69.23	66.67	25.00	15	15	7.5
1SV13EE012	9.5	9.5	19	9.5	9.5	19	9.5	9.5	19	11.8	11.8	11.8	11.8	11.8	21.3	21.3	21.3	21.3	30.8	66.56	65.54	65.54	65.54	68.44	46.00	9.2	19	9.5
1SV13EE015	7.5	7.5	15	7.5	7.5	15	7.5	7.5	15	12.4	12.4	12.4	12.4	12.4	19.9	19.9	19.9	19.9	27.4	62.19	61.23	61.23	61.23	60.89	40.00	8	15	7.5
1SV13EE028	9	9	18	9	9	18	9	9	18	7	7	7	7	7	16	16	16	16	25	50.00	49.23	49.23	49.23	55.56	42.00	8.4	18	9
1SV13EE030	9	9	18	9	9	18	9	9	18	9.2	9.2	9.2	9.2	9.2	18.2	18.2	18.2	18.2	27.2	56.88	56.00	56.00	56.00	60.44	39.00	7.8	18	9
1SV13EE039	7.5	7.5	15	7.5	7.5	15	7.5	7.5	15	11.6	11.6	11.6	11.6	11.6	19.1	19.1	19.1	19.1	26.6	59.69	58.77	58.77	58.77	59.11	25.00	5	15	7.5
1SV14EE005	12	12	24	12	12	24	12	12	24	9.2	9.2	9.2	9.2	9.2	21.2	21.2	21.2	21.2	33.2	66.25	65.23	65.23	65.23	73.78	45.00	9	24	12
1SV14EE008	12.5	12.5	25	12.5	12.5	25	12.5	12.5	25	9.8	9.8	9.8	9.8	9.8	22.3	22.3	22.3	22.3	34.8	69.69	68.62	68.62	68.62	77.33	58.00	11.6	25	12.5
1SV14EE009	12	12	24	12	12	24	12	12	24	9.2	9.2	9.2	9.2	9.2	21.2	21.2	21.2	21.2	33.2	66.25	65.23	65.23	65.23	73.78	39.00	7.8	24	12
1SV14EE011	12	12	24	12	12	24	12	12	24	11	11	11	11	11	23	23	23	23	35	71.88	70.77	70.77	70.77	77.78	45.00	9	24	12
1SV14EE017	12	12	24	12	12	24	12	12	24	9.4	9.4	9.4	9.4	9.4	21.4	21.4	21.4	21.4	33.4	66.88	65.85	65.85	65.85	74.22	67.00	13.4	24	12
1SV14EE018	10	10	20	10	10	20	10	10	20	9.6	9.6	9.6	9.6	9.6	19.6	19.6	19.6	19.6	29.6	61.25	60.31	60.31	60.31	65.78	35.00	7	20	10
1SV14EE019	12	12	24	12	12	24	12	12	24	12.4	12.4	12.4	12.4	12.4	24.4	24.4	24.4	24.4	36.4	76.25	75.08	75.08	75.08	80.89	80.00	16	24	12
1SV14EE021	11	11	22	11	11	22	11	11	22	8.2	8.2	8.2	8.2	8.2	19.2	19.2	19.2	19.2	30.2	60.00	59.08	59.08	59.08	67.11	57.00	11.4	22	11
1SV14EE022	10	10	20	10	10	20	10	10	20	7	7	7	7	7	17	17	17	17	27	53.13	52.31	52.31	52.31	60.00	50.00	10	20	10
1SV14EE024	11.5	11.5	23	11.5	11.5	23	11.5	11.5	23	11.6	11.6	11.6	11.6	11.6	23.1	23.1	23.1	23.1	34.6	72.19	71.08	71.08	71.08	76.89	44.00	8.8	23	11.5
1SV14EE025	10.5	10.5	21	10.5	10.5	21	10.5	10.5	21	13	13	13	13	13	23.5	23.5	23.5	23.5	34	73.44	72.31	72.31	72.31	75.56	52.00	10.4	21	10.5
1SV14EE026	11.5	11.5	23	11.5	11.5	23	11.5	11.5	23	7	7	7	7	7	18.5	18.5	18.5	18.5	30	57.81	56.92	56.92	56.92	66.67	25.00	5	23	11.5
1SV14EE031	12	12	24	12	12	24	12	12	24	7.6	7.6	7.6	7.6	7.6	19.6	19.6	19.6	19.6	31.6	61.25	60.31	60.31	60.31	70.22	35.00	7	24	12
1SV14EE035	10.5	10.5	21	10.5	10.5	21	10.5	10.5	21	7.2	7.2	7.2	7.2	7.2	17.7	17.7	17.7	17.7	28.2	55.31	54.46	54.46	54.46	62.67	27.00	5.4	21	10.5
1SV15EE400	11.5	11.5	23	11.5	11.5	23	11.5	11.5	23	7.2	7.2	7.2	7.2	7.2	18.7	18.7	18.7	18.7	30.2	58.44	57.54	57.54	57.54	67.11	39.00	7.8	23	11.5
1SV15EE401	8	8	16	8	8	16	8	8	16	10.4	10.4	10.4	10.4	10.4	18.4	18.4	18.4	18.4	26.4	57.50	56.62	56.62	56.62	58.67	39.00	7.8	16	8
1SV15EE405	9.5	9.5	19	9.5	9.5	19	9.5	9.5	19	10.4	10.4	10.4	10.4	10.4	19.9	19.9	19.9	19.9	29.4	62.19	61.23	61.23	61.23	65.33	21.00	4.2	19	9.5
1SV15EE407	10.5	10.5	21	10.5	10.5	21	10.5	10.5	21	7	7	7	7	7	17.5	17.5	17.5	17.5	28	54.69	53.85	53.85	53.85	62.22	53.00	10.6	21	10.5
1SV15EE408	12	12	24	12	12	24	12	12	24	9.6	9.6	9.6	9.6	9.6	21.6	21.6	21.6	21.6	33.6	67.50	66.46	66.46	66.46	74.67	48.00	9.6	24	12
1SV15EE410	11.5	11.5	23	11.5	11.5	23	11.5	11.5	23	11	11	11	11	11	22.5	22.5	22.5	22.5	34	70.31	69.23	69.23	69.23	75.56	52.00	10.4	23	11.5
1SV15EE412	8	8	16	8	8	16	8	8	16	0	0	0	0	0	8	8	8	8	16	25.00	24.62	24.62	24.62	35.56	35.00	7	16	8
1SV15EE414	10	10	20	10	10	20	10	10	20	11.6	11.6	11.6	11.6	11.6	21.6	21.6	21.6	21.6	31.6	67.50	66.46	66.46	66.46	70.22	36.00	7.2	20	10
1SV15EE415	12	12	24	12	12	24	12	12	24	16	16	16	16	16	28	28	28	28	40	87.50	86.15	86.15	86.15	88.89	59.00	11.8	24	12
																				64.48	63.49	63.49	63.49	68.94	43.38			

PRINCIPAL
SIET, TUMAKURU

Head of the Department
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TUMKUR-572106.

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

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGG

SUBJECT	HIGH VOLTAGE ENGINEERING	SUBJECT CODE	10EE73

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.

G. L. R

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PRINCIPAL
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COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	SHWETHA T M											
BRANCH	EEE			ACADEMIC YEAR			2017-18					
COURSE	B.E	SEMESTER	VII	SECTION	EEE							
SUBJECT	HIGH VOLTAGE ENGINEERING					SUBJECT CODE	10EE73					

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	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	66.89	**1.33**	**1.73**	**1.73**	**1.07**	**0.93**						**1.33**	**0.66**
CO2	65.86	**1.31**	**1.71**	**1.71**	**1.05**	**0.92**						**1.31**	**0.65**
CO3	65.86	**1.31**	**1.71**	**1.71**	1.05	0.92						**1.31**	0.65
CO4	65.86	**1.31**	**1.71**	**1.71**	1.05	0.92						**1.31**	0.65
CO5	70.84	**1.41**	**1.84**	**1.84**	1.13	1.13						**1.41**	0.70
AVERAGE	**67.06**	**1.33**	**1.74**	**1.74**	**1.07**	**0.96**						**1.33**	**0.66**
												FINAL ATTAINMENT LEVEL	**1.26**

PRINCIPAL

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TUMKUR-572106.

Academic year	2017-18		SEM	VII	Strength		29	Subject		HVE				Subject Code	10EE73											
SEM:VII	IA TEST 1(25M)			IA TEST 2(25M)			IA TEST 3(25M)			SEE MARKS(100)					Total COs ATTAINMENT					% of Individual CO					SEE Tot		Tot IA	
USN	CO1	CO2	TOTAL	CO3	CO4	TOTAL	CO5	CO5	TOTAL	CO1=12	CO2	CO3	CO4	CO5	CO1=32.5	CO2=32.5	CO3=32.5	CO4=32.5	CO5=45	CO1	CO2	CO3	CO4	CO5	100 M		25 M	
1SV13EE011	8	8	16	8	8	16	8	8	16	15	15	15	15	15	23	23	23	23	31	71.88	70.77	70.77	70.77	68.89	60.00	15	16	8
1SV13EE012	11	11	22	11	11	22	11	11	22	11.4	11.4	11.4	11.4	11.4	22.4	22.4	22.4	22.4	33.4	70.00	68.92	68.92	68.92	74.22	57.00	11.4	22	11
1SV13EE015	8	8	16	8	8	16	8	8	16	10.4	10.4	10.4	10.4	10.4	18.4	18.4	18.4	18.4	26.4	57.50	56.62	56.62	56.62	58.67	52.00	10.4	16	8
1SV13EE028	8.5	8.5	17	8.5	8.5	17	8.5	8.5	17	8.6	8.6	8.6	8.6	8.6	17.1	17.1	17.1	17.1	25.6	53.44	52.62	52.62	52.62	56.89	43.00	8.6	17	8.5
1SV13EE030	8.5	8.5	17	8.5	8.5	17	8.5	8.5	17	7.4	7.4	7.4	7.4	7.4	15.9	15.9	15.9	15.9	24.4	49.69	48.92	48.92	48.92	54.22	37.00	7.4	17	8.5
1SV13EE039	8	8	16	8	8	16	8	8	16	8	8	8	8	8	16	16	16	16	24	50.00	49.23	49.23	49.23	53.33	40.00	8	16	8
1SV14EE005	11.5	11.5	23	11.5	11.5	23	11.5	11.5	23	9.6	9.6	9.6	9.6	9.6	21.1	21.1	21.1	21.1	32.6	65.94	64.92	64.92	64.92	72.44	48.00	9.6	23	11.5
1SV14EE008	12.5	12.5	25	12.5	12.5	25	12.5	12.5	25	12.4	12.4	12.4	12.4	12.4	24.9	24.9	24.9	24.9	37.4	77.81	76.62	76.62	76.62	83.11	62.00	12.4	25	12.5
1SV14EE009	12	12	24	12	12	24	12	12	24	13.6	13.6	13.6	13.6	13.6	25.6	25.6	25.6	25.6	37.6	80.00	78.77	78.77	78.77	83.56	68.00	13.6	24	12
1SV14EE011	12	12	24	12	12	24	12	12	24	10.2	10.2	10.2	10.2	10.2	22.2	22.2	22.2	22.2	34.2	69.38	68.31	68.31	68.31	76.00	51.00	10.2	24	12
1SV14EE017	11.5	11.5	23	11.5	11.5	23	11.5	11.5	23	14.2	14.2	14.2	14.2	14.2	25.7	25.7	25.7	25.7	37.2	80.31	79.08	79.08	79.08	82.67	71.00	14.2	23	11.5
1SV14EE018	8	8	16	8	8	16	8	8	16	8.8	8.8	8.8	8.8	8.8	16.8	16.8	16.8	16.8	24.8	52.50	51.69	51.69	51.69	55.11	44.00	8.8	16	8
1SV14EE019	12.5	12.5	25	12.5	12.5	25	12.5	12.5	25	13.2	13.2	13.2	13.2	13.2	25.7	25.7	25.7	25.7	38.2	80.31	79.08	79.08	79.08	84.89	66.00	13.2	25	12.5
1SV14EE021	11	11	22	11	11	22	11	11	22	8	8	8	8	8	19	19	19	19	30	59.38	58.46	58.46	58.46	66.67	40.00	8	22	11
1SV14EE022	10	10	20	10	10	20	10	10	20	9.2	9.2	9.2	9.2	9.2	19.2	19.2	19.2	19.2	29.2	60.00	59.08	59.08	59.08	64.89	46.00	9.2	20	10
1SV14EE024	12	12	24	12	12	24	12	12	24	12.4	12.4	12.4	12.4	12.4	24.4	24.4	24.4	24.4	36.4	76.25	75.08	75.08	75.08	80.89	62.00	12.4	24	12
1SV14EE025	11.5	11.5	23	11.5	11.5	23	11.5	11.5	23	12.8	12.8	12.8	12.8	12.8	24.3	24.3	24.3	24.3	35.8	75.94	74.77	74.77	74.77	79.56	64.00	12.8	23	11.5
1SV14EE026	12	12	24	12	12	24	12	12	24	11.6	11.6	11.6	11.6	11.6	23.6	23.6	23.6	23.6	35.6	73.75	72.62	72.62	72.62	79.11	58.00	11.6	24	12
1SV14EE031	11	11	22	11	11	22	11	11	22	11.4	11.4	11.4	11.4	11.4	22.4	22.4	22.4	22.4	33.4	70.00	68.92	68.92	68.92	74.22	57.00	11.4	22	11
1SV14EE035	10	10	20	10	10	20	10	10	20	10	10	10	10	10	20	20	20	20	30	62.50	61.54	61.54	61.54	66.67	50.00	10	20	10
1SV15EE400	12	12	24	12	12	24	12	12	24	11	11	11	11	11	23	23	23	23	35	71.88	70.77	70.77	70.77	77.78	55.00	11	24	12
1SV15EE401	9	9	18	9	9	18	9	9	18	7	7	7	7	7	16	16	16	16	25	50.00	49.23	49.23	49.23	55.56	35.00	7	18	9
1SV15EE405	10	10	20	10	10	20	10	10	20	10.2	10.2	10.2	10.2	10.2	20.2	20.2	20.2	20.2	30.2	63.13	62.15	62.15	62.15	67.11	51.00	10.2	20	10
1SV15EE407	9	9	18	9	9	18	9	9	18	8	8	8	8	8	17	17	17	17	26	53.13	52.31	52.31	52.31	57.78	40.00	8	18	9
1SV15EE408	12	12	24	12	12	24	12	12	24	12.4	12.4	12.4	12.4	12.4	24.4	24.4	24.4	24.4	36.4	76.25	75.08	75.08	75.08	80.89	62.00	12.4	24	12
1SV15EE410	9	9	18	9	9	18	9	9	18	10.4	10.4	10.4	10.4	10.4	19.4	19.4	19.4	19.4	28.4	60.63	59.69	59.69	59.69	63.11	52.00	10.4	18	9
1SV15EE412	7.5	7.5	15	7.5	7.5	15	7.5	7.5	15	5.2	5.2	5.2	5.2	5.2	12.7	12.7	12.7	12.7	20.2	39.69	39.08	39.08	39.08	44.89	26.00	5.2	15	7.5
1SV15EE414	8	8	16	8	8	16	8	8	16	10	10	10	10	10	18	18	18	18	26	56.25	55.38	55.38	55.38	57.78	50.00	10	16	8
1SV15EE415	12	12	24	12	12	24	12	12	24	12.2	12.2	12.2	12.2	12.2	24.2	24.2	24.2	24.2	36.2	75.63	74.46	74.46	74.46	80.44	61.00	12.2	24	12
																				66.89	65.86	65.86	65.86	70.84	52.00			

Head of the Department
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PRINCIPAL
SIET., TUMAKURU.

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

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGG

SUBJECT	INDUSTRIAL DRIVES & APPLICATIONS	SUBJECT CODE	10EE74

COURSE OUTCOME

CO1	Explain the advantages, choice and control of electric drive
CO2	Explain the dynamics, generating and motoring modes of operation of electric drives
CO3	Explain the selection of motor power rating to suit industry requirements
CO4	Analyze the performance & control of DC motor drives using controlled rectifiers
CO5	Analyze the performance & control of converter fed Induction motor, synchronous motor & stepper motor drives

PROGRAM OUTCOMES

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

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

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

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

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

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

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

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

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

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

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

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

Head of the Department
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TUMKUR-572106.

PRINCIPAL
SIET., TUMAKURU.

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY				
FACULTY NAME	G H RAVIKUMAR				
BRANCH	EEE	ACADEMIC YEAR	2017-18		
COURSE	B.E	SEMESTER	VII	SECTION	EEE
SUBJECT	INDUSTRIAL DRIVES & APPLICATIONS	SUBJECT CODE	10EE74		

CO & PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
	1	2	3	4	5	6	7	8	9	10	11	12
CO1	2	-	-	-	-	-	-	-	-	-	-	2
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	71.68	1.43											1.43
CO2	70.58	0.14	1.94										0.14
CO3	70.58	1.41	1.94										1.41
CO4	70.58	1.41	1.94										1.41
CO5	75.23	1.50	2.06										1.50
AVERAGE	71.73	1.43	1.97										1.43
												FINAL ATTAINMENT LEVEL	

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PRINCIPAL
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Academic year	2017-18		SEM	VII		Strength	29		Subject	IDA				Subject Code	10EE74												
SEM:VII	IA TEST 1(25M)			IA TEST 2(25M)			IA TEST 3(25M)			SEE MARKS(100)					Total COs ATTAINMENT					% of Individual CO					SEE Tot		Tot IA	
USN	CO1	CO2	TOTAL	CO3	CO4	TOTAL	CO5	CO5	TOTAL	CO1=12	CO2	CO3	CO4	CO5	CO1=32.5	CO2=32.5	CO3=32.5	CO4=32.5	CO5=45	CO1	CO2	CO3	CO4	CO5	100 M		25 M	
1SV13EE011	8.5	8.5	17	8.5	8.5	17	8.5	8.5	17	15	15	15	15	15	23.5	23.5	23.5	23.5	32	73.44	72.31	72.31	72.31	71.11	53.00	15	17	8.5
1SV13EE012	11	11	22	11	11	22	11	11	22	11.2	11.2	11.2	11.2	11.2	22.2	22.2	22.2	22.2	33.2	69.38	68.31	68.31	68.31	73.78	56.00	11.2	22	11
1SV13EE015	8	8	16	8	8	16	8	8	16	11.6	11.6	11.6	11.6	11.6	19.6	19.6	19.6	19.6	27.6	61.25	60.31	60.31	60.31	61.33	58.00	11.6	16	8
1SV13EE028	10	10	20	10	10	20	10	10	20	11.4	11.4	11.4	11.4	11.4	21.4	21.4	21.4	21.4	31.4	66.88	65.85	65.85	65.85	69.78	57.00	11.4	20	10
1SV13EE030	8	8	16	8	8	16	8	8	16	5.4	5.4	5.4	5.4	5.4	13.4	13.4	13.4	13.4	21.4	41.88	41.23	41.23	41.23	47.56	27.00	5.4	16	8
1SV13EE039	9	9	18	9	9	18	9	9	18	12.4	12.4	12.4	12.4	12.4	21.4	21.4	21.4	21.4	30.4	66.88	65.85	65.85	65.85	67.56	62.00	12.4	18	9
1SV14EE005	12.5	12.5	25	12.5	12.5	25	12.5	12.5	25	11.8	11.8	11.8	11.8	11.8	24.3	24.3	24.3	24.3	36.8	75.94	74.77	74.77	74.77	81.78	59.00	11.8	25	12.5
1SV14EE008	12.5	12.5	25	12.5	12.5	25	12.5	12.5	25	12.4	12.4	12.4	12.4	12.4	24.9	24.9	24.9	24.9	37.4	77.81	76.62	76.62	76.62	83.11	62.00	12.4	25	12.5
1SV14EE009	12.5	12.5	25	12.5	12.5	25	12.5	12.5	25	13	13	13	13	13	25.5	25.5	25.5	25.5	38	79.69	78.46	78.46	78.46	84.44	65.00	13	25	12.5
1SV14EE011	12.5	12.5	25	12.5	12.5	25	12.5	12.5	25	14	14	14	14	14	26.5	26.5	26.5	26.5	39	82.81	81.54	81.54	81.54	86.67	70.00	14	25	12.5
1SV14EE017	12.5	12.5	25	12.5	12.5	25	12.5	12.5	25	10.4	10.4	10.4	10.4	10.4	22.9	22.9	22.9	22.9	35.4	71.56	70.46	70.46	70.46	78.67	52.00	10.4	25	12.5
1SV14EE018	12	12	24	12	12	24	12	12	24	10.4	10.4	10.4	10.4	10.4	22.4	22.4	22.4	22.4	34.4	70.00	68.92	68.92	68.92	76.44	52.00	10.4	24	12
1SV14EE019	12.5	12.5	25	12.5	12.5	25	12.5	12.5	25	13	13	13	13	13	25.5	25.5	25.5	25.5	38	79.69	78.46	78.46	78.46	84.44	65.00	13	25	12.5
1SV14EE021	11	11	22	11	11	22	11	11	22	11.2	11.2	11.2	11.2	11.2	22.2	22.2	22.2	22.2	33.2	69.38	68.31	68.31	68.31	73.78	56.00	11.2	22	11
1SV14EE022	11	11	22	11	11	22	11	11	22	13	13	13	13	13	24	24	24	24	35	75.00	73.85	73.85	73.85	77.78	65.00	13	22	11
1SV14EE024	11	11	22	11	11	22	11	11	22	14.6	14.6	14.6	14.6	14.6	25.6	25.6	25.6	25.6	36.6	80.00	78.77	78.77	78.77	81.33	73.00	14.6	22	11
1SV14EE025	10.5	10.5	21	10.5	10.5	21	10.5	10.5	21	13.8	13.8	13.8	13.8	13.8	24.3	24.3	24.3	24.3	34.8	75.94	74.77	74.77	74.77	77.33	69.00	13.8	21	10.5
1SV14EE026	11.5	11.5	23	11.5	11.5	23	11.5	11.5	23	11.8	11.8	11.8	11.8	11.8	23.3	23.3	23.3	23.3	34.8	72.81	71.69	71.69	71.69	77.33	59.00	11.8	23	11.5
1SV14EE031	12.5	12.5	25	12.5	12.5	25	12.5	12.5	25	12	12	12	12	12	24.5	24.5	24.5	24.5	37	76.56	75.38	75.38	75.38	82.22	60.00	12	25	12.5
1SV14EE035	11.5	11.5	23	11.5	11.5	23	11.5	11.5	23	7	7	7	7	7	18.5	18.5	18.5	18.5	30	57.81	56.92	56.92	56.92	66.67	35.00	7	23	11.5
1SV15EE400	10.5	10.5	21	10.5	10.5	21	10.5	10.5	21	10.6	10.6	10.6	10.6	10.6	21.1	21.1	21.1	21.1	31.6	65.94	64.92	64.92	64.92	70.22	53.00	10.6	21	10.5
1SV15EE401	7.5	7.5	15	7.5	7.5	15	7.5	7.5	15	10.8	10.8	10.8	10.8	10.8	18.3	18.3	18.3	18.3	25.8	57.19	56.31	56.31	56.31	57.33	54.00	10.8	15	7.5
1SV15EE405	9	9	18	9	9	18	9	9	18	10.4	10.4	10.4	10.4	10.4	19.4	19.4	19.4	19.4	28.4	60.63	59.69	59.69	59.69	63.11	52.00	10.4	18	9
1SV15EE407	8.5	8.5	17	8.5	8.5	17	8.5	8.5	17	12.2	12.2	12.2	12.2	12.2	20.7	20.7	20.7	20.7	29.2	64.69	63.69	63.69	63.69	64.89	61.00	12.2	17	8.5
1SV15EE408	12.5	12.5	25	12.5	12.5	25	12.5	12.5	25	10	10	10	10	10	22.5	22.5	22.5	22.5	35	70.31	69.23	69.23	69.23	77.78	50.00	10	25	12.5
1SV15EE410	11.5	11.5	23	11.5	11.5	23	11.5	11.5	23	11.4	11.4	11.4	11.4	11.4	22.9	22.9	22.9	22.9	34.4	71.56	70.46	70.46	70.46	76.44	57.00	11.4	23	11.5
1SV15EE412	8.5	8.5	17	8.5	8.5	17	8.5	8.5	17	9	9	9	9	9	17.5	17.5	17.5	17.5	26	54.69	53.85	53.85	53.85	57.78	45.00	9	17	8.5
1SV15EE414	11	11	22	11	11	22	11	11	22	14	14	14	14	14	25	25	25	25	36	78.13	76.92	76.92	76.92	80.00	70.00	14	22	11
1SV15EE415	12.5	12.5	25	12.5	12.5	25	12.5	12.5	25	6	6	6	6	6	18.5	18.5	18.5	18.5	31	57.81	56.92	56.92	56.92	68.89	30.00	6	25	12.5
																				71.68	70.58	70.58	70.58	75.23	56.10			

PRINCIPAL
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EVEN SEMESTER

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

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGG

SUBJECT	POWER SYSTEM ANALYSIS 1	SUBJECT CODE	15EE62

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 OUTCOMES

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

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

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

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

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

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

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

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

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

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

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

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

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COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	UMA BAI											
BRANCH	EEE			ACADEMIC YEAR		2017-18						
COURSE	B.E	SEMESTER	VI	SECTION	EEE							
SUBJECT	POWER SYSTEM ANALYSIS 1			SUBJECT CODE	15EE62							

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	3	-	-	-	-	-	-	-	-	-	-
CO3	2	3	-	-	-	-	-	-	-	-	-	-
CO4	2	3	-	3	-	-	-	-	-	-	-	2
CO5	2.5	3	-	3	-	-	-	-	-	-	-	2
AVERAGE	3	3	-	3	-	-	-	-	-	-	-	2
											OVERALL MAPPING OF SUBJECT	2.75

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	38	1.14	1.14										
CO2	64	1.92	1.92										
CO3	38	1.14	1.14										
CO4	49	1.47	1.47		1.47								0.98
CO5	64	1.92	1.92		1.92								1.28
AVERAGE	50.6	1.51	1.51		1.69								1.13
												FINAL ATTAINMENT LEVEL	1.46

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Academic year	2017-18			SEM	6		Total strength			20		Subject					STAFF NAME: UMABAI													
SEM: V, EEE	IA TEST 1			IA TEST 2			IA TEST 3			Assignment						POWER SYSTEM ANALAYSIS-1						Subject Code	15EE62							
USN	CO1(7.5)	CO2(7.5)	TOTAL	CO3	CO4	TOTAL	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	TOTAL	CO1(16)	CO2	CO3	CO4	CO5	TOTAL	Total					Average				
																						CO1(24.5)	CO2(24.5)	CO3(24.5)	CO4(32)	CO5(24.5)	CO1	CO2	CO3	CO4	CO5
1SV14EE006	7	9	16	7	9	16	7	9	16	1	1	1	1	1	5	2.1875	2.1875	2.1875	2.1875	2.1875	35	10.1875	12.1875	10.1875	12.1875	12.1875	41.58	49.74	41.58	38.09	49.74
1SV15EE003	6	13	19	6	13	19	6	13	19	1	1	1	1	1	5	2.9375	2.9375	2.9375	2.9375	2.9375	47	9.9375	16.9375	9.9375	16.9375	16.9375	40.56	69.13	40.56	52.93	69.13
1SV15EE007	5	13	18	5	13	18	5	13	18	1	1	1	1	1	5	3.4375	3.4375	3.4375	3.4375	3.4375	55	9.4375	17.4375	9.4375	17.4375	17.4375	38.52	71.17	38.52	54.49	71.17
1SV15EE008	4	14	18	4	14	18	4	14	18	1	1	1	1	1	5	2.5	2.5	2.5	2.5	2.5	40	7.5	17.5	7.5	17.5	17.5	30.61	71.43	30.61	54.69	71.43
1SV15EE012	6	8	14	6	8	14	6	8	14	1	1	1	1	1	5	2.375	2.375	2.375	2.375	2.375	38	9.375	11.375	9.375	11.375	11.375	38.27	46.43	38.27	35.55	46.43
1SV15EE013	7	11	18	7	11	18	7	11	18	1	1	1	1	1	5	2.375	2.375	2.375	2.375	2.375	38	10.375	14.375	10.375	14.375	14.375	42.35	58.67	42.35	44.92	58.67
1SV15EE015	5	9	14	5	9	14	5	9	14	1	1	1	1	1	5	1.4375	1.4375	1.4375	1.4375	1.4375	23	7.4375	11.4375	7.4375	11.4375	11.4375	30.36	46.68	30.36	35.74	46.68
1SV15EE017	4	16	20	4	16	20	4	16	20	1	1	1	1	1	5	3.6875	3.6875	3.6875	3.6875	3.6875	59	8.6875	20.6875	8.6875	20.6875	20.6875	35.46	84.44	35.46	64.65	84.44
1SV15EE019	5	14	19	5	14	19	5	14	19	1	1	1	1	1	5	2.875	2.875	2.875	2.875	2.875	46	8.875	17.875	8.875	17.875	17.875	36.22	72.96	36.22	55.86	72.96
1SV15EE020	10	10	20	10	10	20	10	10	20	1	1	1	1	1	5	2.8125	2.8125	2.8125	2.8125	2.8125	45	13.8125	13.8125	13.8125	13.8125	13.8125	56.38	56.38	56.38	43.16	56.38
1SV15EE024	3	13	16	3	13	16	3	13	16	1	1	1	1	1	5	2.6875	2.6875	2.6875	2.6875	2.6875	43	6.6875	16.6875	6.6875	16.6875	16.6875	27.30	68.11	27.30	52.15	68.11
1SV15EE025	5	11	16	5	11	16	5	11	16	1	1	1	1	1	5	1.75	1.75	1.75	1.75	1.75	28	7.75	13.75	7.75	13.75	13.75	31.63	56.12	31.63	42.97	56.12
1SV15EE032	6	11	17	6	11	17	6	11	17	1	1	1	1	1	5	1.3125	1.3125	1.3125	1.3125	1.3125	21	8.3125	13.3125	8.3125	13.3125	13.3125	33.93	54.34	33.93	41.60	54.34
1SV15EE033	4	13	17	4	13	17	4	13	17	1	1	1	1	1	5	2.6875	2.6875	2.6875	2.6875	2.6875	43	7.6875	16.6875	7.6875	16.6875	16.6875	31.38	68.11	31.38	52.15	68.11
1SV15EE035	6	10	16	6	10	16	6	10	16	1	1	1	1	1	5	3.1875	3.1875	3.1875	3.1875	3.1875	51	10.1875	14.1875	10.1875	14.1875	14.1875	41.58	57.91	41.58	44.34	57.91
1SV15EE036	5	10	15	5	10	15	5	10	15	1	1	1	1	1	5	2.125	2.125	2.125	2.125	2.125	34	8.125	13.125	8.125	13.125	13.125	33.16	53.57	33.16	41.02	53.57
1SV15EE037	4	16	20	4	16	20	4	16	20	1	1	1	1	1	5	2.375	2.375	2.375	2.375	2.375	38	7.375	19.375	7.375	19.375	19.375	30.10	79.08	30.10	60.55	79.08
1SV16EE403	6	6	12	6	6	12	6	6	12	1	1	1	1	1	5	1.3125	1.3125	1.3125	1.3125	1.3125	21	8.3125	8.3125	8.3125	8.3125	8.3125	33.93	33.93	33.93	25.98	33.93
1SV16EE404	5	8	13	5	8	13	5	8	13	1	1	1	1	1	5	2.25	2.25	2.25	2.25	2.25	36	8.25	11.25	8.25	11.25	11.25	33.67	45.92	33.67	35.16	45.92
1SV16EE405	6	10	16	6	10	16	6	10	16	1	1	1	1	1	5	1.9375	1.9375	1.9375	1.9375	1.9375	31	8.9375	12.9375	8.9375	12.9375	12.9375	36.48	52.81	36.48	40.43	52.81
1SV16EE409	4	14	18	4	14	18	4	14	18	1	1	1	1	1	5	3.375	3.375	3.375	3.375	3.375	54	8.375	18.375	8.375	18.375	18.375	34.18	75.00	34.18	57.42	75.00
TOTAL	113	239	352	113	239	352	113	239	352	21	21	21	21	21	105	51.625	51.625	51.625	51.625	51.625	826	185.625	311.625	185.625	311.625	311.625	757.6531	1271.939	757.6531	973.8281	1271.939
Total students	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	38	64	38	49	64
Aveargе	5.65	11.95	17.6	5.65	11.95	17.6	5.65	11.95	17.6	1.05	1.05	1.05	1.05	1.05	5.25	2.58125	2.58125	2.58125	2.58125	2.58125	41.3	9.28125	15.58125	9.28125	15.58125	15.58125					

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SIRA ROAD, TUMKUR- 572 106.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGG

SUBJECT	DIGITAL SIGNAL PROCESSING	SUBJECT CODE	15EE63

COURSE OUTCOME

CO1	Apply DFT and IDFT to perform linear filtering techniques on given sequences to determine the output
CO2	Apply fast and efficient algorithms for computing DFT and inverse DFT of a given sequence
CO3	Design and realize infinite impulse response Butterworth and Chebyshev digital filters using impulse invariant and bilinear transformation techniques
CO4	Develop a digital IIR filter by direct, cascade, parallel, ladder and FIR filter by direct, cascade and linear phase methods of realization.
CO5	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.

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PRINCIPAL
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COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	G H RAVIKUMAR											
BRANCH	EEE			ACADEMIC YEAR			2017-18					
COURSE	B.E	SEMESTER	VI	SECTION	EEE							
SUBJECT	DIGITAL SIGNAL PROCESSING				SUBJECT CODE	15EE63						

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	3	2	2	-	-	-	-	-	-	-	-	-
CO3	3	2	2	-	-	-	-	-	-	-	-	-
CO4	3	2	2	-	-	-	-	-	-	-	-	-
CO5	2	3	-	-	-	-	-	-	-	-	-	-
AVERAGE	2.6	2.4	2	-	-	-	-	-	-	-	-	-
OVERALL MAPPING OF SUBJECT												2.3

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	35	0.91	0.84										
CO2	57	1.48	1.36	1.14									
CO3	35	0.91	0.84	0.7									
CO4	43	1.11	1.03	0.86									
CO5	57	1.48	1.36										
AVERAGE	45.4	1.17	1.08	0.9									
FINAL ATTAINMENT LEVEL													1.05

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Academic year	2017-18			SEM	6		Total strength			20		Subject																					
SEM: VI, EEE	IA TEST 1			IA TEST 2			IA TEST 3			Assignment																							
USN	CO1(7.5)	CO2(7.5)	TOTAL	CO3	CO4	TOTAL	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	TOTAL	CO1(16)	CO2	CO3	CO4	CO5	TOTAL	CO1(24.5)	CO2(24.5)	CO3(24.5)	CO4(32)	CO5(24.5)	CO1	CO2	CO3	CO4	CO5
1SV14EE006	7	6	13	7	6	13	7	6	13	1	1	1	1	1	5	1.3125	1.3125	1.3125	1.3125	1.3125	21	9.3125	8.3125	9.3125	8.3125	8.3125	38.01	33.93	38.01	25.98	33.93
1SV15EE003	6	14	20	6	14	20	6	14	20	1	1	1	1	1	5	2.125	2.125	2.125	2.125	2.125	34	9.125	17.125	9.125	17.125	17.125	37.24	69.90	37.24	53.52	69.90
1SV15EE007	5	14	19	5	14	19	5	14	19	1	1	1	1	1	5	2.5	2.5	2.5	2.5	2.5	40	8.5	17.5	8.5	17.5	17.5	34.69	71.43	34.69	54.69	71.43
1SV15EE008	4	12	16	4	12	16	4	12	16	1	1	1	1	1	5	1.25	1.25	1.25	1.25	1.25	20	6.25	14.25	6.25	14.25	14.25	25.51	58.16	25.51	44.53	58.16
1SV15EE012	6	6	12	6	6	12	6	6	12	1	1	1	1	1	5	0.625	0.625	0.625	0.625	0.625	10	7.625	7.625	7.625	7.625	7.625	31.12	31.12	31.12	23.83	31.12
1SV15EE013	7	7	14	7	7	14	7	7	14	1	1	1	1	1	5	2.875	2.875	2.875	2.875	2.875	46	10.875	10.875	10.875	10.875	10.875	44.39	44.39	44.39	33.98	44.39
1SV15EE015	5	8	13	5	8	13	5	8	13	1	1	1	1	1	5	1.3125	1.3125	1.3125	1.3125	1.3125	21	7.3125	10.3125	7.3125	10.3125	10.3125	29.85	42.09	29.85	32.23	42.09
1SV15EE017	4	14	18	4	14	18	4	14	18	1	1	1	1	1	5	1.875	1.875	1.875	1.875	1.875	30	6.875	16.875	6.875	16.875	16.875	28.06	68.88	28.06	52.73	68.88
1SV15EE019	5	11	16	5	11	16	5	11	16	1	1	1	1	1	5	2.0625	2.0625	2.0625	2.0625	2.0625	33	8.0625	14.0625	8.0625	14.0625	14.0625	32.91	57.40	32.91	43.95	57.40
1SV15EE020	10	10	20	10	10	20	10	10	20	1	1	1	1	1	5	2.125	2.125	2.125	2.125	2.125	34	13.125	13.125	13.125	13.125	13.125	53.57	53.57	53.57	41.02	53.57
1SV15EE024	3	13	16	3	13	16	3	13	16	1	1	1	1	1	5	0.9375	0.9375	0.9375	0.9375	0.9375	15	4.9375	14.9375	4.9375	14.9375	14.9375	20.15	60.97	20.15	46.68	60.97
1SV15EE025	5	9	14	5	9	14	5	9	14	1	1	1	1	1	5	1.75	1.75	1.75	1.75	1.75	28	7.75	11.75	7.75	11.75	11.75	31.63	47.96	31.63	36.72	47.96
1SV15EE032	6	9	15	6	9	15	6	9	15	1	1	1	1	1	5	1.1875	1.1875	1.1875	1.1875	1.1875	19	8.1875	11.1875	8.1875	11.1875	11.1875	33.42	45.66	33.42	34.96	45.66
1SV15EE033	4	14	18	4	14	18	4	14	18	1	1	1	1	1	5	2.25	2.25	2.25	2.25	2.25	36	7.25	17.25	7.25	17.25	17.25	29.59	70.41	29.59	53.91	70.41
1SV15EE035	6	11	17	6	11	17	6	11	17	1	1	1	1	1	5	1.75	1.75	1.75	1.75	1.75	28	8.75	13.75	8.75	13.75	13.75	35.71	56.12	35.71	42.97	56.12
1SV15EE036	5	11	16	5	11	16	5	11	16	1	1	1	1	1	5	2.3125	2.3125	2.3125	2.3125	2.3125	37	8.3125	14.3125	8.3125	14.3125	14.3125	33.93	58.42	33.93	44.73	58.42
1SV15EE037	4	12	16	4	12	16	4	12	16	1	1	1	1	1	5	2.5625	2.5625	2.5625	2.5625	2.5625	41	7.5625	15.5625	7.5625	15.5625	15.5625	30.87	63.52	30.87	48.63	63.52
1SV16EE403	6	6	12	6	6	12	6	6	12	1	1	1	1	1	5	1.3125	1.3125	1.3125	1.3125	1.3125	21	8.3125	8.3125	8.3125	8.3125	8.3125	33.93	33.93	33.93	25.98	33.93
1SV16EE404	5	9	14	5	9	14	5	9	14	1	1	1	1	1	5	1.875	1.875	1.875	1.875	1.875	30	7.875	11.875	7.875	11.875	11.875	32.14	48.47	32.14	37.11	48.47
1SV16EE405	6	8	14	6	8	14	6	8	14	1	1	1	1	1	5	1.1875	1.1875	1.1875	1.1875	1.1875	19	8.1875	10.1875	8.1875	10.1875	10.1875	33.42	41.58	33.42	31.84	41.58
1SV16EE409	4	15	19	4	15	19	4	15	19	1	1	1	1	1	5	1.75	1.75	1.75	1.75	1.75	28	6.75	17.75	6.75	17.75	17.75	27.55	72.45	27.55	55.47	72.45
TOTAL	113	219	332	113	219	332	113	219	332	21	21	21	21	21	105	36.9375	36.9375	36.9375	36.9375	36.9375	591	170.9375	276.9375	170.9375	276.9375	276.9375	697.7041	1130.357	697.7041	865.4297	1130.357
Total students	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
Aveargе	5.65	10.95	16.6	5.65	10.95	16.6	5.65	10.95	16.6	1.05	1.05	1.05	1.05	1.05	5.25	1.846875	1.846875	1.846875	1.846875	1.846875	29.55	8.546875	13.84688	8.546875	13.84688	13.84688	35	57	35	43	57

STAFF NAME: G H RAVI KUMAR

Subject Code: 15EE63

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

PRINCIPAL
SIET., TUMAKURU.

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

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGG

SUBJECT	ELECTRICAL MACHINE DESIGN	SUBJECT CODE	15EE64

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.

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

PRINCIPAL

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	SIDDAPAJI M R											
BRANCH	EEE			ACADEMIC YEAR			2017-18					
COURSE	B.E	SEMESTER	VI	SECTION			EEE					
SUBJECT	ELECTRICAL MACHINE DESIGN					SUBJECT CODE	15EE654					

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	39	0.78	1.17										
CO2	65	1.3	1.95	1.95									
CO3	39	0.78	1.17	1.17									
CO4	50	1.0	1.5	1.5									
CO5	65	1.3	1.95	1.95									
AVERAGE	51.6	1.03	1.54	1.63									
FINAL ATTAINMENT LEVEL													1.4

Head of the Department
Electrical & Electronics Engineering
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PRINCIPAL
SIET., TUMAKURU

Academic year	2017-18			SEM	6		Total strength			20		Subject	ELECTRONIC MACHINE DESIGN					Subject Code	15EE64												
SEM: VI, EEE	IA TEST 1			IA TEST 2			IA TEST 3			Assignment														Total					Average		
USN	CO1(7.5)	CO2(7.5)	TOTAL	CO3	CO4	TOTAL	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	TOTAL	CO1(16)	CO2	CO3	CO4	CO5	TOTAL	CO1(24.5)	CO2(24.5)	CO3(24.5)	CO4(32)	CO5(24.5)	CO1	CO2	CO3	CO4	CO5
1SV14EE006	7	11	18	7	11	18	7	11	18	1	1	1	1	1	5	2.625	2.625	2.625	2.625	2.625	42	10.625	14.625	10.625	14.625	14.625	43.37	59.69	43.37	45.70	59.69
1SV15EE003	6	12	18	6	12	18	6	12	18	1	1	1	1	1	5	2.6875	2.6875	2.6875	2.6875	2.6875	43	9.6875	15.6875	9.6875	15.6875	15.6875	39.54	64.03	39.54	49.02	64.03
1SV15EE007	5	15	20	5	15	20	5	15	20	1	1	1	1	1	5	3.5	3.5	3.5	3.5	3.5	56	9.5	19.5	9.5	19.5	19.5	38.78	79.59	38.78	60.94	79.59
1SV15EE008	4	14	18	4	14	18	4	14	18	1	1	1	1	1	5	3.0625	3.0625	3.0625	3.0625	3.0625	49	8.0625	18.0625	8.0625	18.0625	18.0625	32.91	73.72	32.91	56.45	73.72
1SV15EE012	6	9	15	6	9	15	6	9	15	1	1	1	1	1	5	2.375	2.375	2.375	2.375	2.375	38	9.375	12.375	9.375	12.375	12.375	38.27	50.51	38.27	38.67	50.51
1SV15EE013	7	7	14	7	7	14	7	7	14	1	1	1	1	1	5	2.9375	2.9375	2.9375	2.9375	2.9375	47	10.9375	10.9375	10.9375	10.9375	10.9375	44.64	44.64	44.64	34.18	44.64
1SV15EE015	5	9	14	5	9	14	5	9	14	1	1	1	1	1	5	2.4375	2.4375	2.4375	2.4375	2.4375	39	8.4375	12.4375	8.4375	12.4375	12.4375	34.44	50.77	34.44	38.87	50.77
1SV15EE017	4	16	20	4	16	20	4	16	20	1	1	1	1	1	5	3.5	3.5	3.5	3.5	3.5	56	8.5	20.5	8.5	20.5	20.5	34.69	83.67	34.69	64.06	83.67
1SV15EE019	5	12	17	5	12	17	5	12	17	1	1	1	1	1	5	2.875	2.875	2.875	2.875	2.875	46	8.875	15.875	8.875	15.875	15.875	36.22	64.80	36.22	49.61	64.80
1SV15EE020	10	10	20	10	10	20	10	10	20	1	1	1	1	1	5	3.0625	3.0625	3.0625	3.0625	3.0625	49	14.0625	14.0625	14.0625	14.0625	14.0625	57.40	57.40	57.40	43.95	57.40
1SV15EE024	3	13	16	3	13	16	3	13	16	1	1	1	1	1	5	3.0625	3.0625	3.0625	3.0625	3.0625	49	7.0625	17.0625	7.0625	17.0625	17.0625	28.83	69.64	28.83	53.32	69.64
1SV15EE025	5	9	14	5	9	14	5	9	14	1	1	1	1	1	5	3.4375	3.4375	3.4375	3.4375	3.4375	55	9.4375	13.4375	9.4375	13.4375	13.4375	38.52	54.85	38.52	41.99	54.85
1SV15EE032	6	11	17	6	11	17	6	11	17	1	1	1	1	1	5	2.625	2.625	2.625	2.625	2.625	42	9.625	14.625	9.625	14.625	14.625	39.29	59.69	39.29	45.70	59.69
1SV15EE033	4	13	17	4	13	17	4	13	17	1	1	1	1	1	5	3	3	3	3	3	48	8	17	8	17	17	32.65	69.39	32.65	53.13	69.39
1SV15EE035	6	10	16	6	10	16	6	10	16	1	1	1	1	1	5	1.9375	1.9375	1.9375	1.9375	1.9375	31	8.9375	12.9375	8.9375	12.9375	12.9375	36.48	52.82	36.48	40.43	52.81
1SV15EE036	5	12	17	5	12	17	5	12	17	1	1	1	1	1	5	3.0625	3.0625	3.0625	3.0625	3.0625	49	9.0625	16.0625	9.0625	16.0625	16.0625	36.99	65.56	36.99	50.20	65.56
1SV15EE037	4	16	20	4	16	20	4	16	20	1	1	1	1	1	5	1.9375	1.9375	1.9375	1.9375	1.9375	31	6.9375	18.9375	6.9375	18.9375	18.9375	28.32	77.30	28.32	59.18	77.30
1SV16EE403	6	8	14	6	8	14	6	8	14	1	1	1	1	1	5	1.3125	1.3125	1.3125	1.3125	1.3125	21	8.3125	10.3125	8.3125	10.3125	10.3125	33.93	42.09	33.93	32.23	42.09
1SV16EE404	5	10	15	5	10	15	5	10	15	1	1	1	1	1	5	2.6875	2.6875	2.6875	2.6875	2.6875	43	8.6875	13.6875	8.6875	13.6875	13.6875	35.46	55.87	35.46	42.77	55.87
1SV16EE405	6	11	17	6	11	17	6	11	17	1	1	1	1	1	5	2.1875	2.1875	2.1875	2.1875	2.1875	35	9.1875	14.1875	9.1875	14.1875	14.1875	37.50	57.91	37.50	44.34	57.91
1SV16EE409	4	14	18	4	14	18	4	14	18	1	1	1	1	1	5	2.125	2.125	2.125	2.125	2.125	34	7.125	17.125	7.125	17.125	17.125	29.08	69.90	29.08	53.52	69.90
TOTAL	113	242	355	113	242	355	113	242	355	21	21	21	21	21	105	56.4375	56.4375	56.4375	56.4375	56.4375	903	190.4375	319.4375	190.4375	319.4375	319.4375	777.2959	1303.827	777.2959	998.2422	1303.827
Total students	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
Avearge	5.65	12.1	17.75	5.65	12.1	17.75	5.65	12.1	17.75	1.05	1.05	1.05	1.05	1.05	5.25	2.821875	2.821875	2.821875	2.821875	2.821875	45.15	9.521875	15.97188	9.521875	15.97188	15.97188	39	65	39	50	65

Head of the Dept.
Electrical & Electronics Engg.
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PRINCIPAL
SIET., TUMAKURU

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

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGG

SUBJECT	SOLAR & WIND ENERGY	SUBJECT CODE	15EE654

COURSE OUTCOME

CO1	Discuss the importance of the role of renewable energy, the concept of energy storage and the principles of energy storage devices.
CO2	Discuss the concept of solar radiation data and solar PV system fabrication, operation of solar cell, sizing and design of PV system.
CO3	Describe the process of harnessing solar energy and its applications in heating and cooling.
CO4	Explain basic Principles of Wind Energy Conversion, collection of wind data, energy estimation and site selection.
CO5	Discuss the performance of Wind-machines, energy storage, applications of Wind Energy and environmental aspects.

PROGRAM OUTCOMES

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

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

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

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

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

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

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

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

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

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

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

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

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

PRINCIPAL
SIET., TUMAKURU

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY					
FACULTY NAME	TEJASHWINI R					
BRANCH	EEE		ACADEMIC YEAR		2017-18	
COURSE	B.E	SEMESTER	VI	SECTION	EEE	
SUBJECT	SOLAR & WIND ENERGY			SUBJECT CODE	15EE654	

CO & PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
	1	2	3	4	5	6	7	8	9	10	11	12
CO1	2	-	-	-	-	2	3	-	-	-	-	-
CO2	3	-	-	-	-	2	2	-	-	-	-	-
CO3	3	-	-	-	-	3	3	-	-	-	-	-
CO4	3	-	-	-	-	3	3	-	-	-	-	2
CO5	3	-	-	-	-	3	3	-	-	-	-	-
AVERAGE	3	-	-	-	-	2	3	-	-	-	-	2
											OVERALL MAPPING OF SUBJECT	2.5

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	42	1.26					0.84	1.26					
CO2	66	1.98					1.32	1.98					
CO3	42	1.26					0.84	1.26					
CO4	51	1.53					1.02	1.53					1.02
CO5	66	1.98					1.32	1.98					
AVERAGE	53.4	1.60					1.06	1.60					1.02
												FINAL ATTAINMENT LEVEL	1.32

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

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Academic year	2017-18			SEM	6		Total strength			20		Subject																				
SEM: VI, EEE	IA TEST 1			IA TEST 2			IA TEST 3			Assignment						SOLAR AND WIND ENERGY						Subject Code	G15EE6P5									
USN	CO1(7.5)	CO2(7.5)	TOTAL	CO3	CO4	TOTAL	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	TOTAL	CO1(16)	CO2	CO3	CO4	CO5	TOTAL	CO1(24.5)	CO2(24.5)	CO3(24.5)	CO4(32)	CO5(24.5)	CO1	CO2	CO3	CO4	CO5
1SV14EE006	7	9	16	7	9	16	7	9	16	1	1	1	1	1	5	3.75	3.75	3.75	3.75	3.75	60	11.75	13.75	11.75	13.75	13.75	47.96	56.12	47.96	42.97	56.12
1SV15EE003	6	10	16	6	10	16	6	10	16	1	1	1	1	1	5	3.8125	3.8125	3.8125	3.8125	3.8125	61	10.8125	14.8125	10.8125	14.8125	14.8125	44.13	60.46	44.13	46.29	60.46
1SV15EE007	5	13	18	5	13	18	5	13	18	1	1	1	1	1	5	3.875	3.875	3.875	3.875	3.875	62	9.875	17.875	9.875	17.875	17.875	40.31	72.96	40.31	55.86	72.96
1SV15EE008	4	13	17	4	13	17	4	13	17	1	1	1	1	1	5	3.5625	3.5625	3.5625	3.5625	3.5625	57	8.5625	17.5625	8.5625	17.5625	17.5625	34.95	71.68	34.95	54.88	71.68
1SV15EE012	6	8	14	6	8	14	6	8	14	1	1	1	1	1	5	3.25	3.25	3.25	3.25	3.25	52	10.25	12.25	10.25	12.25	12.25	41.84	50.00	41.84	38.28	50.00
1SV15EE013	7	8	15	7	8	15	7	8	15	1	1	1	1	1	5	2.875	2.875	2.875	2.875	2.875	46	10.875	11.875	10.875	11.875	11.875	44.39	48.47	44.39	37.11	48.47
1SV15EE015	5	13	18	5	13	18	5	13	18	1	2	1	1	1	5	3	3	3	3	3	48	9	17	9	17	17	36.73	69.39	36.73	53.13	69.39
1SV15EE017	4	15	19	4	15	19	4	15	19	1	1	1	1	1	5	4.5	4.5	4.5	4.5	4.5	72	9.5	20.5	9.5	20.5	20.5	38.78	83.67	38.78	64.06	83.67
1SV15EE019	5	14	19	5	14	19	5	14	19	1	1	1	1	1	5	3.3125	3.3125	3.3125	3.3125	3.3125	53	9.3125	18.3125	9.3125	18.3125	18.3125	38.01	74.74	38.01	57.23	74.74
1SV15EE020	10	10	19	10	10	19	10	10	19	1	1	1	1	1	5	4	4	4	4	4	64	15	15	15	15	15	61.22	61.22	61.22	46.88	61.22
1SV15EE024	3	15	18	3	15	18	3	15	18	1	1	1	1	1	5	3.25	3.25	3.25	3.25	3.25	52	7.25	19.25	7.25	19.25	19.25	29.59	78.57	29.59	60.16	78.57
1SV15EE025	5	10	15	5	10	15	5	10	15	1	1	1	1	1	5	1.875	1.875	1.875	1.875	1.875	30	7.875	12.875	7.875	12.875	12.875	32.14	52.55	32.14	40.23	52.55
1SV15EE032	6	9	15	6	9	15	6	9	15	1	1	1	1	1	5	3.0625	3.0625	3.0625	3.0625	3.0625	49	10.0625	13.0625	10.0625	13.0625	13.0625	41.07	53.32	41.07	40.82	53.32
1SV15EE033	4	12	16	4	12	16	4	12	16	1	1	1	1	1	5	3.9375	3.9375	3.9375	3.9375	3.9375	63	8.9375	16.9375	8.9375	16.9375	16.9375	36.48	69.13	36.48	52.93	69.13
1SV15EE035	6	9	15	6	9	15	6	9	15	1	1	1	1	1	5	3.625	3.625	3.625	3.625	3.625	58	10.625	13.625	10.625	13.625	13.625	43.37	55.61	43.37	42.58	55.61
1SV15EE036	5	14	19	5	14	19	5	14	19	1	1	1	1	1	5	2.9375	2.9375	2.9375	2.9375	2.9375	47	8.9375	17.9375	8.9375	17.9375	17.9375	36.48	73.21	36.48	56.05	73.21
1SV15EE037	4	11	15	4	11	15	4	11	15	1	1	1	1	1	5	3.25	3.25	3.25	3.25	3.25	52	8.25	15.25	8.25	15.25	15.25	33.67	62.24	33.67	47.66	62.24
1SV16EE403	6	6	12	6	6	12	6	6	12	1	1	1	1	1	5	1.3125	1.3125	1.3125	1.3125	1.3125	21	8.3125	8.3125	8.3125	8.3125	8.3125	33.93	33.93	33.93	25.98	33.93
1SV16EE404	5	9	14	5	9	14	5	9	14	1	1	1	1	1	5	3.3125	3.3125	3.3125	3.3125	3.3125	53	9.3125	13.3125	9.3125	13.3125	13.3125	38.01	54.34	38.01	41.60	54.34
1SV16EE405	6	10	16	6	10	16	6	10	16	1	1	1	1	1	5	3.5	3.5	3.5	3.5	3.5	56	10.5	14.5	10.5	14.5	14.5	42.86	59.18	42.86	45.31	59.18
1SV16EE409	4	15	19	4	15	19	4	15	19	1	1	1	1	1	5	3.9375	3.9375	3.9375	3.9375	3.9375	63	8.9375	19.9375	8.9375	19.9375	19.9375	36.48	81.38	36.48	62.30	81.38
TOTAL	113	233	345	113	233	345	113	233	345	21	21	21	21	21	105	69.9375	69.9375	69.9375	69.9375	69.9375	1119	203.9375	323.9375	203.9375	323.9375	323.9375	832.198	1322.194	832.398	1012.305	1322.194
Total students	20	20	20	20	20	20	20	20	20	20	20	20	20	20	5.25	3.496875	3.496875	3.496875	3.496875	3.496875	55.95	10.19688	16.19688	10.19688	16.19688	16.19688	42	66	42	51	66
Average	5.65	11.65	17.25	5.65	11.65	17.25	5.65	11.65	17.25	1.05	1.05	1.05	1.05	1.05		20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20

STAFF NAME: R TEJASHWINI

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

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGG

SUBJECT	SENSORS AND TRANSDUCERS	SUBJECT CODE	15EE662

COURSE OUTCOME

CO1	Use gauges and transducers to measure pressure, direction and distance.
CO2	Discuss the use of light transducers and other devices used for the measurement of electromagnetic Radiations
CO3	Explain the working of different temperature sensing devices.
CO4	Discuss the principles and applications of audio electrical sensors and transducers used for the measurement of sound
CO5	Discuss the use of sensors for the measurement of mass, volume and environmental quantities

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 Rao
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COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY					
FACULTY NAME	SHWETHA T M					
BRANCH	EEE		ACADEMIC YEAR		2018-19	
COURSE	B.E	SEMESTER	VI	SECTION	EEE	
SUBJECT	SENSORS AND TRANSDUCERS			SUBJECT CODE	15EE662	

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	2	1	2	2	2	1	3	2	2	1
CO2	2	1	3	3	2	1	2	2	1	2	2	1
CO3	2	1	2	2	3	2	2	1	2	2	2	1
CO4	2	2	3	2	1	1	2	2	3	2	1	2
CO5	2	3	2	1	2	2	3	2	2	3	2	2
AVERAGE	2.2	2	2.4	1.8	2	1.6	2.2	1.6	2.2	2.2	1.8	1.8
											OVERALL MAPPING OF SUBJECT	1.98

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	43.26	0.95	0.86	1.03	0.77	0.86	0.69	0.95	0.69	0.95	0.95	0.77	0.77
CO2	38.98	0.85	0.77	0.93	0.70	0.77	0.62	0.85	0.62	0.85	0.85	0.70	0.70
CO3	43.26	0.95	0.86	1.03	0.77	0.86	0.69	0.95	0.69	0.95	0.95	0.77	0.77
CO4	43.26	0.95	0.86	1.03	0.77	0.86	0.69	0.95	0.69	0.95	0.95	0.77	0.77
CO5	43.26	0.95	0.86	1.03	0.77	0.86	0.69	0.95	0.69	0.95	0.95	0.77	0.77
AVERAGE	42.40	0.93	0.84	1.01	0.75	0.84	0.67	0.93	0.67	0.93	0.93	0.75	0.75
												FINAL ATTAINMENT LEVEL	0.83

Head of the Department
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PRINCIPAL
SIET, TUMAKURU

STAFF NAME: SHWETHA Y M

Academic year	2018-19			SEM	6		Total strength			13		Subject			SENSORS AND TRANSDUCER				Subject Code	15EE662								
	IA TEST 1(15M)			IA TEST 2(15)			IA TEST 3(15M)			ASSIGNEMENT / QUIZ(5 M)					SEE MARKS(80)					Total Cos ATTAINMENT					% of individual CO				
USN	CO1	CO2	TOTAL	CO2	CO3	TOTAL	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	CO1=12	CO2	CO3	CO4	CO5	CO1=26.6	CO2=33.7	CO3=26.6	CO4=26.6	CO5=26.6	CO1	CO2	CO3	CO4	CO5
1SV14EE001	1.5	1.5	3	1.5	1.5	**3**	1.5	1.5	**3**	1	1	1	1	1	7.4	7.4	7.4	7.4	7.4	9.9	11.4	9.9	9.9	9.9	37.21805	33.82789	37.21805	37.21805	37.21805
1SV14EE004	1.8	1.8	3.6	1.8	1.8	**3.6**	1.8	1.8	**3.6**	1	1	1	1	1	7.4	7.4	7.4	7.4	7.4	10.2	12	10.2	10.2	10.2	38.34586	35.60831	38.34586	38.34586	38.34586
1SV14EE010	1.3	1.3	2.6	1.3	1.3	**2.6**	1.3	1.3	**2.6**	1	1	1	1	1	6.2	6.2	6.2	6.2	6.2	8.5	9.8	8.5	8.5	8.5	31.95489	29.08012	31.95489	31.95489	31.95489
1SV15EE001	1.6	1.6	3.2	1.6	1.6	**3.2**	1.6	1.6	**3.2**	1	1	1	1	1	9.4	9.4	9.4	9.4	9.4	12	13.6	12	12	12	45.11278	40.35608	45.11278	45.11278	45.11278
1SV15EE004	1.6	1.6	3.2	1.6	1.6	**3.2**	1.6	1.6	**3.2**	1	1	1	1	1	7.2	7.2	7.2	7.2	7.2	9.8	11.4	9.8	9.8	9.8	36.84211	33.82789	36.84211	36.84211	36.84211
1SV15EE010	1.8	1.8	3.6	1.8	1.8	**3.6**	1.8	1.8	**3.6**	1	1	1	1	1	11.6	11.6	11.6	11.6	11.6	14.4	16.2	14.4	14.4	14.4	54.13534	48.07122	54.13534	54.13534	54.13534
1SV15EE011	1.5	1.5	3	1.5	1.5	**3**	1.5	1.5	**3**	1	1	1	1	1	8	8	8	8	8	10.5	12	10.5	10.5	10.5	39.47368	35.60831	39.47368	39.47368	39.47368
1SV15EE014	1.6	1.6	3.2	1.6	1.6	**3.2**	1.6	1.6	**3.2**	1	1	1	1	1	10.4	10.4	10.4	10.4	10.4	13	14.6	13	13	13	48.87218	43.32344	48.87218	48.87218	48.87218
1SV15EE016	1.6	1.6	3.2	1.6	1.6	**3.2**	1.6	1.6	**3.2**	1	1	1	1	1	8.2	8.2	8.2	8.2	8.2	10.8	12.4	10.8	10.8	10.8	40.6015	36.79525	40.6015	40.6015	40.6015
1SV15EE022	2.1	2.1	4.2	2.1	2.1	**4.2**	2.1	2.1	**4.2**	1	1	1	1	1	12.4	12.4	12.4	12.4	12.4	15.5	17.6	15.5	15.5	15.5	58.27068	52.22552	58.27068	58.27068	58.27068
1SV15EE023	1.5	1.5	3	1.5	1.5	**3**	1.5	1.5	**3**	1	1	1	1	1	8	8	8	8	8	10.5	12	10.5	10.5	10.5	39.47368	35.60831	39.47368	39.47368	39.47368
1SV15EE030	1.5	1.5	3	1.5	1.5	**3**	1.5	1.5	**3**	1	1	1	1	1	8.8	8.8	8.8	8.8	8.8	11.3	12.8	11.3	11.3	11.3	42.4812	37.9822	42.4812	42.4812	42.4812
1SV15EE039	1.8	1.8	3.6	1.8	1.8	**3.6**	1.8	1.8	**3.6**	1	1	1	1	1	10.4	10.4	10.4	10.4	10.4	13.2	15	13.2	13.2	13.2	49.62406	44.51039	49.62406	49.62406	49.62406
																				11.50769	13.13846	11.50769	11.50769	11.50769	43.262	38.98653	43.262	43.262	43.262

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

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGG

SUBJECT	POWER SYSTEM OPERATION & CONTROL	SUBJECT CODE	10EE82

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

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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PRINCIPAL
SIET., TUMAKURU.

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY				
FACULTY NAME	G H RAVIKUMAR				
BRANCH	EEE	ACADEMIC YEAR	2017-18		
COURSE	B.E	SEMESTER	VII	SECTION	EEE
SUBJECT	POWER SYSTEM OPERATION & CONTROL	SUBJECT CODE	10EE82		

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	2.33

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	58.64	1.17	1.75										0.58
CO2	57.74	1.15	1.73										0.57
CO3	57.74	1.15	1.73										0.57
CO4	57.74	1.15	1.73										0.57
CO5	62.78	1.25	1.88										0.62
AVERAGE	58.92	1.17	1.76										0.58
												FINAL ATTAINMENT LEVEL	1.17

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PRINCIPAL
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Academic year	2017-18		SEM	VIII		Strength	29		Subject						Subject Code	10EE82														
SEM:VII	IA TEST 1(25M)			IA TEST 2(25M)			IA TEST 3(25M)			SEE MARKS(100)					Total COs ATTAINMENT					% of Individual CO					SEE Tot		Tot IA	
USN	CO1	CO2	TOTAL	CO3	CO4	TOTAL	CO5	CO5	TOTAL	CO1=12	CO2	CO3	CO4	CO5	CO1=32.5	CO2=32.5	CO3=32.5	CO4=32.5	CO5=45	CO1	CO2	CO3	CO4	CO5	100 M		25 M	
1SV11EE003	7.5	7.5	15	7.5	7.5	15	7.5	7.5	15	15	15	15	15	15	22.5	22.5	22.5	22.5	30	70.31	69.23	69.23	69.23	66.67	35.00	15	15	7.5	
1SV13EE011	7.5	7.5	15	7.5	7.5	15	7.5	7.5	15	7.2	7.2	7.2	7.2	7.2	14.7	14.7	14.7	14.7	22.2	45.94	45.23	45.23	45.23	49.33	36.00	7.2	15	7.5	
1SV13EE012	9.5	9.5	15	9.5	9.5	15	9.5	9.5	15	10.4	10.4	10.4	10.4	10.4	19.9	19.9	19.9	19.9	29.4	62.19	61.23	61.23	61.23	65.33	52.00	10.4	19	9.5	
1SV13EE028	8	8	15	8	8	15	8	8	15	9	9	9	9	9	17	17	17	17	25	53.13	52.31	52.31	52.31	55.56	45.00	9	16	8	
1SV13EE030	8	8	15	8	8	15	8	8	15	7.4	7.4	7.4	7.4	7.4	15.4	15.4	15.4	15.4	23.4	48.13	47.38	47.38	47.38	52.00	37.00	7.4	16	8	
1SV13EE031	7.5	7.5	22	7.5	7.5	22	7.5	7.5	22	2.8	2.8	2.8	2.8	2.8	10.3	10.3	10.3	10.3	17.8	32.19	31.69	31.69	31.69	39.56	14.00	2.8	15	7.5	
1SV13EE032	7.5	7.5	22	7.5	7.5	22	7.5	7.5	22	2.8	2.8	2.8	2.8	2.8	10.3	10.3	10.3	10.3	17.8	32.19	31.69	31.69	31.69	39.56	14.00	2.8	15	7.5	
1SV13EE038	7.5	7.5	23	7.5	7.5	23	7.5	7.5	23	2.6	2.6	2.6	2.6	2.6	10.1	10.1	10.1	10.1	17.6	31.56	31.08	31.08	31.08	39.11	13.00	2.6	15	7.5	
1SV13EE039	9	9	24	9	9	24	9	9	24	10.4	10.4	10.4	10.4	10.4	19.4	19.4	19.4	19.4	28.4	60.63	59.69	59.69	59.69	63.11	52.00	10.4	18	9	
1SV14EE005	12.5	12.5	21	12.5	12.5	21	12.5	12.5	21	9.4	9.4	9.4	9.4	9.4	21.9	21.9	21.9	21.9	34.4	68.44	67.38	67.38	67.38	76.44	47.00	9.4	25	12.5	
1SV14EE008	12	12	15	12	12	15	12	12	15	13.8	13.8	13.8	13.8	13.8	25.8	25.8	25.8	25.8	37.8	80.63	79.38	79.38	79.38	84.00	69.00	13.8	24	12	
1SV14EE009	12	12	23	12	12	23	12	12	23	14	14	14	14	14	26	26	26	26	38	81.25	80.00	80.00	80.00	84.44	70.00	14	24	12	
1SV14EE011	11.5	11.5	15	11.5	11.5	15	11.5	11.5	15	12.6	12.6	12.6	12.6	12.6	24.1	24.1	24.1	24.1	35.6	75.31	74.15	74.15	74.15	79.11	63.00	12.6	23	11.5	
1SV14EE017	12	12	17	12	12	17	12	12	17	11	11	11	11	11	23	23	23	23	35	71.88	70.77	70.77	70.77	77.78	55.00	11	24	12	
1SV14EE018	9.5	9.5	22	9.5	9.5	22	9.5	9.5	22	9.4	9.4	9.4	9.4	9.4	18.9	18.9	18.9	18.9	28.4	59.06	58.15	58.15	58.15	63.11	47.00	9.4	19	9.5	
1SV14EE019	12.5	12.5	22	12.5	12.5	22	12.5	12.5	22	8.8	8.8	8.8	8.8	8.8	21.3	21.3	21.3	21.3	33.8	66.56	65.54	65.54	65.54	75.11	44.00	8.8	25	12.5	
1SV14EE021	9.5	9.5	17	9.5	9.5	17	9.5	9.5	17	11.4	11.4	11.4	11.4	11.4	20.9	20.9	20.9	20.9	30.4	65.31	64.31	64.31	64.31	67.56	57.00	11.4	19	9.5	
1SV14EE022	12	12	15	12	12	15	12	12	15	10.2	10.2	10.2	10.2	10.2	22.2	22.2	22.2	22.2	34.2	69.38	68.31	68.31	68.31	76.00	51.00	10.2	24	12	
1SV14EE024	12	12	17	12	12	17	12	12	17	10.6	10.6	10.6	10.6	10.6	22.6	22.6	22.6	22.6	34.6	70.63	69.54	69.54	69.54	76.89	53.00	10.6	24	12	
1SV14EE025	11	11	19	11	11	19	11	11	19	11.8	11.8	11.8	11.8	11.8	22.8	22.8	22.8	22.8	33.8	71.25	70.15	70.15	70.15	75.11	59.00	11.8	22	11	
1SV14EE026	9	9	16	9	9	16	9	9	16	9.8	9.8	9.8	9.8	9.8	18.8	18.8	18.8	18.8	27.8	58.75	57.85	57.85	57.85	61.78	49.00	9.8	18	9	
1SV14EE029	7.5	7.5	15	7.5	7.5	15	7.5	7.5	15	5	5	5	5	5	12.5	12.5	12.5	12.5	20	39.06	38.46	38.46	38.46	44.44	25.00	5	15	7.5	
1SV14EE031	10.5	10.5	17	10.5	10.5	17	10.5	10.5	17	7	7	7	7	7	17.5	17.5	17.5	17.5	28	54.69	53.85	53.85	53.85	62.22	35.00	7	21	10.5	
1SV14EE035	11	11	22	11	11	22	11	11	22	9	9	9	9	9	20	20	20	20	31	62.50	61.54	61.54	61.54	68.89	45.00	9	22	11	
1SV15EE400	11	11	16	11	11	16	11	11	16	9.6	9.6	9.6	9.6	9.6	20.6	20.6	20.6	20.6	31.6	64.38	63.38	63.38	63.38	70.22	48.00	9.6	22	11	
1SV15EE401	7.5	7.5	15	7.5	7.5	15	7.5	7.5	15	3.2	3.2	3.2	3.2	3.2	10.7	10.7	10.7	10.7	18.2	33.44	32.92	32.92	32.92	40.44	16.00	3.2	15	7.5	
1SV15EE403	8	8	17	8	8	17	8	8	17	7	7	7	7	7	15	15	15	15	23	46.88	46.15	46.15	46.15	51.11	35.00	7	16	8	
1SV15EE405	9	9	23	9	9	23	9	9	23	11	11	11	11	11	20	20	20	20	29	62.50	61.54	61.54	61.54	64.44	55.00	11	18	9	
1SV15EE407	7.5	7.5	17	7.5	7.5	17	7.5	7.5	17	7.2	7.2	7.2	7.2	7.2	14.7	14.7	14.7	14.7	22.2	45.94	45.23	45.23	45.23	49.33	36.00	7.2	15	7.5	
1SV15EE408	10.5	10.5	24	10.5	10.5	24	10.5	10.5	24	11	11	11	11	11	21.5	21.5	21.5	21.5	32	67.19	66.15	66.15	66.15	71.11	65.00	11	21	10.5	
1SV15EE410	8.5	8.5	24	8.5	8.5	24	8.5	8.5	24	14.4	14.4	14.4	14.4	14.4	22.9	22.9	22.9	22.9	31.4	71.56	70.46	70.46	70.46	69.78	35	14.4	17	8.5	
1SV15EE412	7.5	7.5	17	7.5	7.5	17	7.5	7.5	17	8.4	8.4	8.4	8.4	8.4	15.9	15.9	15.9	15.9	23.4	49.69	48.92	48.92	48.92	52.00	9	8.4	15	7.5	
1SV15EE414	7.5	7.5	22	7.5	7.5	22	7.5	7.5	22	11.2	11.2	11.2	11.2	11.2	18.7	18.7	18.7	18.7	26.2	58.44	57.54	57.54	57.54	58.22	36	11.2	15	7.5	
1SV15EE415	11	11	25	11	11	25	11	11	25	13.4	13.4	13.4	13.4	13.4	24.4	24.4	24.4	24.4	35.4	76.25	75.08	75.08	75.08	78.67	65	13.4	22	11	
																							57.4359	62.59259					

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6.4.18
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	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY SIRA ROAD, TUMKUR- 572 106.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGG

SUBJECT	RENEWABLE ENERGY SOURCES	SUBJECT CODE	10EE836

COURSE OUTCOME

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

PROGRAM OUTCOMES

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

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

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

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

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

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

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

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

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

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

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

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

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COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY					
FACULTY NAME	TEJASWINI R					
BRANCH	EEE		ACADEMIC YEAR	2017-18		
COURSE	B.E	SEMESTER	VII	SECTION	EEE	
SUBJECT	RENEWABLE ENERGY SOURCES			SUBJECT CODE	10EE836	

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	2	3	4	5	6	7	8	9	10	11	12
CO2	3	2	2	2	1	1	2		1	1	1	1
CO3	3	2	2	2	1	1	2		1	1	1	1
CO4	3	2	2	2	1	1	2		1	1	1	1
CO5	3	2	2	2	1	1	2		1	1	1	1
AVERAGE	3	2	2	2	1	1	2		1	1	1	1
OVERALL MAPPING OF SUBJECT												1.54

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	64.25	1.92	1.28	1.28	1.28	0.64	0.64	1.28		0.64	0.64	0.64	0.64
CO2	63.26	1.89	1.26	1.26	1.26	0.63	0.63	1.26		0.63	0.63	0.63	0.63
CO3	63.26	1.89	1.26	1.26	1.26	0.63	0.63	1.26		0.63	0.63	0.63	0.63
CO4	63.26	1.89	1.26	1.26	1.26	0.63	0.63	1.26		0.63	0.63	0.63	0.63
CO5	65.75	1.97	1.31	1.31	1.31	0.65	0.65	1.31		0.65	0.65	0.65	0.65
AVERAGE	63.95	1.91	1.27	1.27	1.27	0.63	0.63	1.27		0.63	0.63	0.63	0.63
FINAL ATTAINMENT LEVEL													0.97

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Academic year	2017-18		SEM	VIII	Strength		29	Subject		RENEWABLE ENERGY SOURC					Subject Code	10EE8D3	RE: TEJASWINI .R									
SEM:VII	IA TEST 1(25M)			IA TEST 2(25M)			IA TEST 3(25M)			SEE MARKS(100)					Total COs ATTAINMENT					% of Individual CO					SEE Tot		Tot IA	
USN	CO1	CO2	TOTAL	CO3	CO4	TOTAL	CO5	CO5	TOTAL	CO1=12	CO2	CO3	CO4	CO5	CO1=32.5	CO2=32.5	CO3=32.5	CO4=32.5	CO5=45	CO1	CO2	CO3	CO4	CO5	100 M		25 M	
1SV11EE003	7.5	7.5	15	7.5	7.5	15	7.5	7.5	15	12.8	12.8	12.8	12.8	12.8	20.3	20.3	20.3	20.3	27.8	63.44	62.46	62.46	62.46	61.78	60.00	12	15	7.5
1SV13EE011	8	8	15	8	8	15	8	8	15	15.6	15.6	15.6	15.6	15.6	23.6	23.6	23.6	23.6	31.6	73.75	72.62	72.62	72.62	70.22	64.00	12.8	16	8
1SV13EE012	8.5	8.5	15	8.5	8.5	15	8.5	8.5	15	12.2	12.2	12.2	12.2	12.2	20.7	20.7	20.7	20.7	29.2	64.69	63.69	63.69	63.69	64.89	78.00	15.6	17	8.5
1SV13EE015	7.5	7.5	15	7.5	7.5	15	7.5	7.5	15	8.2	8.2	8.2	8.2	8.2	15.7	15.7	15.7	15.7	23.2	49.06	48.31	48.31	48.31	51.56	61.00	12.2	15	7.5
1SV13EE028	7.5	7.5	15	7.5	7.5	15	7.5	7.5	15	7	7	7	7	7	14.5	14.5	14.5	14.5	22	45.31	44.62	44.62	44.62	48.89	41.00	8.2	15	7.5
1SV13EE030	7.5	7.5	15	7.5	7.5	15	7.5	7.5	15	9.4	9.4	9.4	9.4	9.4	16.9	16.9	16.9	16.9	24.4	52.81	52.00	52.00	52.00	54.22	35.00	7	15	7.5
1SV13EE031	10	10	22	10	10	22	10	10	22	12	12	12	12	12	22	22	22	22	32	68.75	67.69	67.69	67.69	71.11	47.00	9.4	20	10
1SV13EE032	7.5	7.5	22	7.5	7.5	22	7.5	7.5	22	10.6	10.6	10.6	10.6	10.6	18.1	18.1	18.1	18.1	25.6	56.56	55.69	55.69	55.69	56.89	60.00	12	15	7.5
1SV13EE038	8	8	23	8	8	23	8	8	23	11	11	11	11	11	19	19	19	19	27	59.38	58.46	58.46	58.46	60.00	53.00	10.6	16	8
1SV13EE039	7.5	7.5	24	7.5	7.5	24	7.5	7.5	24	16	16	16	16	16	23.5	23.5	23.5	23.5	31	73.44	72.31	72.31	72.31	68.89	55.00	11	15	7.5
1SV14EE005	9	9	21	9	9	21	9	9	21	12.4	12.4	12.4	12.4	12.4	21.4	21.4	21.4	21.4	30.4	66.88	65.85	65.85	65.85	67.56	80.00	16	18	9
1SV14EE008	8.5	8.5	15	8.5	8.5	15	8.5	8.5	15	10.8	10.8	10.8	10.8	10.8	19.3	19.3	19.3	19.3	27.8	60.31	59.38	59.38	59.38	61.78	62.00	12.4	17	8.5
1SV14EE009	8.5	8.5	23	8.5	8.5	23	8.5	8.5	23	15.4	15.4	15.4	15.4	15.4	23.9	23.9	23.9	23.9	32.4	74.69	73.54	73.54	73.54	72.00	54.00	10.8	17	8.5
1SV14EE011	10.5	10.5	15	10.5	10.5	15	10.5	10.5	15	15.2	15.2	15.2	15.2	15.2	25.7	25.7	25.7	25.7	36.2	80.31	79.08	79.08	79.08	80.44	77.00	15.4	21	10.5
1SV14EE017	8.5	8.5	17	8.5	8.5	17	8.5	8.5	17	16.2	16.2	16.2	16.2	16.2	24.7	24.7	24.7	24.7	33.2	77.19	76.00	76.00	76.00	73.78	76.00	15.2	17	8.5
1SV14EE018	7.5	7.5	22	7.5	7.5	22	7.5	7.5	22	14.2	14.2	14.2	14.2	14.2	21.7	21.7	21.7	21.7	29.2	67.81	66.77	66.77	66.77	64.89	81.00	16.2	15	7.5
1SV14EE019	12.5	12.5	22	12.5	12.5	22	12.5	12.5	22	10.6	10.6	10.6	10.6	10.6	23.1	23.1	23.1	23.1	35.6	72.19	71.08	71.08	71.08	79.11	71.00	14.2	25	12.5
1SV14EE021	9	9	17	9	9	17	9	9	17	9.2	9.2	9.2	9.2	9.2	18.2	18.2	18.2	18.2	27.2	56.88	56.00	56.00	56.00	60.44	53.00	10.6	18	9
1SV14EE022	12.5	12.5	15	12.5	12.5	15	12.5	12.5	15	12.2	12.2	12.2	12.2	12.2	24.7	24.7	24.7	24.7	37.2	77.19	76.00	76.00	76.00	82.67	46.00	9.2	25	12.5
1SV14EE024	11.5	11.5	17	11.5	11.5	17	11.5	11.5	17	13.6	13.6	13.6	13.6	13.6	25.1	25.1	25.1	25.1	36.6	78.44	77.23	77.23	77.23	81.33	61.00	12.2	23	11.5
1SV14EE025	7.5	7.5	19	7.5	7.5	19	7.5	7.5	19	15.8	15.8	15.8	15.8	15.8	23.3	23.3	23.3	23.3	30.8	72.81	71.69	71.69	71.69	68.44	68.00	13.6	15	7.5
1SV14EE026	9.5	9.5	16	9.5	9.5	16	9.5	9.5	16	10.2	10.2	10.2	10.2	10.2	19.7	19.7	19.7	19.7	29.2	61.56	60.62	60.62	60.62	64.89	79.00	15.8	19	9.5
1SV14EE029	7.5	7.5	15	7.5	7.5	15	7.5	7.5	15	13.6	13.6	13.6	13.6	13.6	21.1	21.1	21.1	21.1	28.6	65.94	64.92	64.92	64.92	63.56	51.00	10.2	15	7.5
1SV14EE031	9	9	17	9	9	17	9	9	17	10	10	10	10	10	19	19	19	19	28	59.38	58.46	58.46	58.46	62.22	68.00	13.6	18	9
1SV14EE035	9.5	9.5	22	9.5	9.5	22	9.5	9.5	22	10.4	10.4	10.4	10.4	10.4	19.9	19.9	19.9	19.9	29.4	62.19	61.23	61.23	61.23	65.33	50.00	10	19	9.5
1SV15EE400	9.5	9.5	16	9.5	9.5	16	9.5	9.5	16	13.8	13.8	13.8	13.8	13.8	23.3	23.3	23.3	23.3	32.8	72.81	71.69	71.69	71.69	72.89	52.00	10.4	19	9.5
1SV15EE401	11	11	15	11	11	15	11	11	15	8.6	8.6	8.6	8.6	8.6	19.6	19.6	19.6	19.6	30.6	61.25	60.31	60.31	60.31	68.00	69.00	13.8	22	11
1SV15EE403	8	8	17	8	8	17	8	8	17	11.2	11.2	11.2	11.2	11.2	19.2	19.2	19.2	19.2	27.2	60.00	59.08	59.08	59.08	60.44	43.00	8.6	16	8
1SV15EE405	11	11	23	11	11	23	11	11	23	14.6	14.6	14.6	14.6	14.6	25.6	25.6	25.6	25.6	36.6	80.00	78.77	78.77	78.77	81.33	56.00	11.2	22	11
1SV15EE407	9.5	9.5	17	9.5	9.5	17	9.5	9.5	17	11	11	11	11	11	20.5	20.5	20.5	20.5	30	64.06	63.08	63.08	63.08	66.67	73.00	14.6	19	9.5
1SV15EE408	10.5	10.5	24	10.5	10.5	24	10.5	10.5	24	14.4	14.4	14.4	14.4	14.4	24.9	24.9	24.9	24.9	35.4	77.81	76.62	76.62	76.62	78.67	69.00	11	21	10.5
1SV15EE410	9.5	9.5	24	9.5	9.5	24	9.5	9.5	24	8.4	8.4	8.4	8.4	8.4	17.9	17.9	17.9	17.9	27.4	55.94	55.08	55.08	55.08	60.89	71	14.4	19	9.5
1SV15EE412	8.5	8.5	17	8.5	8.5	17	8.5	8.5	17	11.2	11.2	11.2	11.2	11.2	19.7	19.7	19.7	19.7	28.2	61.56	60.62	60.62	60.62	62.67	43	8.4	17	8.5
1SV15EE414	10	10	22	10	10	22	10	10	22	13.4	13.4	13.4	13.4	13.4	23.4	23.4	23.4	23.4	33.4	73.13	72.00	72.00	72.00	74.22	71	11.2	20	10
1SV15EE415	10	10	25	10	10	25	10	10	25	13.4	13.4	13.4	13.4	13.4	23.4	23.4	23.4	23.4	33.4	73.13	72.00	72.00	72.00	74.22	70	13.4	20	10
																				66.30	65.28	64.63	65.28	67.34				

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