AY-2022-23

Odd Sem

SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

DEPARTMENT OF ME

SUBJECT	CONTOL ENGINEERING	SUBJECT CODE	18ME71

COURSE OUTCOME

CO1	Identify the type of control and control actions.
CO2	Develop the mathematical model of the physical systems.
CO3	Estimate the response and error in response of first and second-order systems subjected to standard input signals.
CO4	Represent the complex physical system using block diagram and signal flow graph and obtain transfer function.
CO5	Analyse a linear feedback control system for stability using Hurwitz criterion, Routh's criterion and root Locus technique in complex domain.
CO6	Analyse the stability of linear feedback control systems in frequency domain using polar plots, Nyquist and Bode plots.

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 modelling 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.

NAME OF THE COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY, TUMAKURU		
FACULTY NAME	Prof. K.P. Chandraiah		
BRANCH	MECHANICAL	ACADEMIC YEAR	2022-23
COURSE B.E	SEMESTER VII	SECTION	-
SUBJECT	CONTOL ENGINEERING	SUBJECT CODE	18ME71

CO & PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	1	1	1	-	2	3	1	1	1	1	2
CO2	3	2	1	2	-	1	1	1	1	1	-	2
CO3	3	2	1	1	1	2	2	1	1	1	1	2
CO4	3	1	1	1	-	2	3	1	1	1	1	2
CO5	3	1	1	1	1	2	2	1	1	1	1	2
AVERAGE	3	1.4	1	1.2	1	1.8	2.2	1	1	1	1	2
OVERALL MAPPING OF SUBJECT												1.52

CO AND PO ATTAINMENT

	CO %	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO1	59	2.2	0.73	0.73	0.73	-	1.47	2.2	0.73	0.73	0.73	0.73	1.47
CO2	73	1.96	1.31	0.65	1.31	-	0.65	0.65	0.65	0.65	0.65	-	1.31
CO3	58	1.43	0.95	0.48	0.48	0.48	0.95	0.95	0.48	0.48	0.48	0.48	0.95
CO4	64	1.58	0.53	0.53	0.53	-	1.05	1.58	0.53	0.53	0.53	0.53	1.05
CO5	55	1.42	0.47	0.47	0.47	0.47	0.95	0.95	0.47	0.47	0.47	0.47	0.95
AVERAGE	61.8	1.718	0.798	0.572	0.704	0.48	1.01	1.266	0.572	0.572	0.57	0.55	1.146
FINAL ATTAINMENT LEVEL													0.83

FACULTY

HOD

PRINCIPAL
SIET. TUMKUR.

PRINCIPAL

Academic year	2022-23			SEM	VII		Total strength			19		Subject	Control Engineering			Subject Code	18ME71									
SEM: VII	IA TEST 1(30M)			IA TEST 2(30M)			IA TEST 3(30M)			ASSIGNEMENT / QUIZ(10 M)					SEE MARKS(60)						Total Cos ATTAINMENT					% of individual CO				
USN	CO1	CO2	TOTAL	CO2	CO3	TOTAL	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	CO1=12	CO2	CO3	CO4	CO5	TOTAL	CO1=34	CO2=44	CO3=34	CO4=34	CO5=34	CO1	CO2	CO3	CO4	CO5
1SV17ME005	12	4	16	14	4	18	12	8	20	2	2	2	2	2	0.8	0.8	0.8	0.8	0.8	4	14.8	20.8	6.8	14.8	10.8	44%	47%	20%	44%	32%
1SV18ME003	16	13	29	18	12	30	16	12	28	2	2	2	2	2	6.4	6.4	6.4	6.4	6.4	32	24.4	39.4	20.4	24.4	20.4	72%	90%	60%	72%	60%
1SV18ME008	11	17	28	19	11	30	18	11	29	2	2	2	2	2	4.8	4.8	4.8	4.8	4.8	24	17.8	42.8	17.8	24.8	17.8	52%	97%	52%	73%	52%
1SV18ME010	14	13	27	17	11	28	11	18	29	2	2	2	2	2	7.2	7.2	7.2	7.2	7.2	36	23.2	39.2	20.2	20.2	27.2	68%	89%	59%	59%	80%
1SV18ME011	12	14	26	12	15	27	18	7	25	2	2	2	2	2	1.8	1.8	1.8	1.8	1.8	9	15.8	29.8	18.8	21.8	10.8	46%	68%	55%	64%	32%
1SV18ME012	11	14	25	15	9	24	13	16	29	2	2	2	2	2	4.8	4.8	4.8	4.8	4.8	24	17.8	35.8	15.8	19.8	22.8	52%	81%	46%	58%	67%
1SV18ME013	17	12	29	14	13	27	15	13	28	2	2	2	2	2	5.8	5.8	5.8	5.8	5.8	29	24.8	33.8	20.8	22.8	20.8	73%	77%	61%	67%	61%
1SV19ME001	15	15	30	9	19	28	17	12	29	2	2	2	2	2	4.8	4.8	4.8	4.8	4.8	24	21.8	30.8	25.8	23.8	18.8	64%	70%	76%	70%	55%
1SV19ME002	14	15	29	10	17	27	12	16	28	2	2	2	2	2	6.4	6.4	6.4	6.4	6.4	32	22.4	33.4	25.4	20.4	24.4	66%	76%	75%	60%	72%
1SV19ME005	11	18	29	11	12	23	11	15	26	2	2	2	2	2	1.6	1.6	1.6	1.6	1.6	8	14.6	32.6	15.6	14.6	18.6	43%	74%	46%	43%	55%
1SV19ME006	17	6	23	13	16	29	18	8	26	2	2	2	2	2	2.2	2.2	2.2	2.2	2.2	11	21.2	23.2	20.2	22.2	12.2	62%	53%	59%	65%	36%
1SV19ME010	13	5	18	16	6	22	15	5	20	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	21	19.2	27.2	12.2	21.2	11.2	56%	62%	36%	62%	33%
1SV19ME011	16	10	26	11	18	29	13	16	29	2	2	2	2	2	8.2	8.2	8.2	8.2	8.2	41	26.2	31.2	28.2	23.2	26.2	77%	71%	83%	68%	77%
1SV19ME013	13	6	19	12	9	21	19	1	20	2	2	2	2	2	1.6	1.6	1.6	1.6	1.6	8	16.6	21.6	12.6	22.6	4.6	49%	49%	37%	66%	14%
1SV19ME014	11	14	25	19	11	30	15	14	29	2	2	2	2	2	6.6	6.6	6.6	6.6	6.6	33	19.6	41.6	19.6	23.6	22.6	58%	95%	58%	69%	66%
1SV19ME015	18	8	26	10	20	30	17	11	28	2	2	2	2	2	6	6	6	6	6	30	26	26	28	25	19	76%	59%	82%	74%	56%
1SV20ME400	9	18	27	11	16	27	13	17	30	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	21	15.2	35.2	22.2	19.2	23.2	45%	80%	65%	56%	68%
1SV20ME402	10	10	20	14	8	22	13	11	24	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	21	16.2	30.2	14.2	19.2	17.2	48%	69%	42%	56%	51%
1SV20ME403	12	14	26	12	16	28	17	13	30	2	2	2	2	2	9.2	9.2	9.2	9.2	9.2	46	23.2	37.2	27.2	28.2	24.2	68%	85%	80%	83%	71%
TOTAL	252	226	478	257	243	500	283	224	507	38	38	38	38	38	90.8	90.8	90.8	90.8	90.8	454	380.8	611.8	371.8	411.8	352.8	11.2	13.90	10.94	12.11	10.38
No of Students	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
Average	13.3	11.9	25.16	13.5	12.8	26.3	14.9	12	26.7	2	2	2	2	2	4.78	4.78	4.78	4.78	4.78	23.89	20.0	32.2	19.6	21.7	18.6	58.9	73.2	57.6	63.7	54.6
TOTAL																										59%	73%	58%	64%	55%

PRINCIPAL
SIET. TUMKUR.

SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

DEPARTMENT OF ME

SUBJECT	COMPUTER AIDED DESIGN AND MANUFACTURING	SUBJECT CODE	18ME72

COURSE OUTCOME

CO1	Define Automation, CIM, CAD, CAM and explain the differences between these concepts. Solve simple problems of transformations of entities on computer screen
CO2	Explain the basics of automated manufacturing industries through mathematical models and analyze different types of automated flow lines.
CO3	Analyze the automated flow linestoreduce time and enhance productivity.
CO4	Explain the use of different computer applications in manufacturing, and able to prepare part programs for simple jobs on CNC machine tools and robot programming.
CO5	Visualize and appreciate the modern trends in Manufacturing like additive manufacturing, Industry 4.0 and applications of Internet of Things leading to Smart Manufacturing.

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.

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

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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.

NAME OF THE COLLEGE		SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY, TUMAKURU			
FACULTY NAME		Prof. Ravikumar K R			
BRANCH		MECHANICAL	ACADEMIC YEAR		2022-23
COURSE	B.E	SEMESTER	VII	SECTION	-
SUBJECT	COMPUTER AIDED DESIGN AND MANUFACTURING		SUBJECT CODE		18ME72

CO & PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	2	1	1	-	2	3	1	1	1	1	2
CO2	3	2	1	2	-	1	1	1	1	1	-	2
CO3	3	2	1	1	1	2	2	1	1	1	1	2
CO4	3	2	1	1	-	2	3	1	1	1	1	2
CO5	3	2	1	1	1	2	2	1	1	1	1	2
AVERAGE	3	1.6	1	1.2	1	1.8	2.2	1	1	1	1	2
											OVERALL MAPPING OF SUBJECT	1.52

CO AND PO ATTAINMENT

	CO %	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO10	PO11	PO12
CO1	62	1.86	1.24	0.62	0.6	-	1.24	1.86	0.62	0.62	0.62	0.62	1.24
CO2	66	1.98	1.32	0.66	1.3	-	0.66	0.66	0.66	0.66	0.66	-	1.32
CO3	49	1.47	0.98	0.49	0.5	0.49	0.98	0.98	0.49	0.49	0.49	0.49	0.98
CO4	63	1.89	1.26	0.63	0.6	-	1.26	1.89	0.63	0.63	0.63	0.63	1.26
CO5	48	1.44	0.96	0.48	0.5	0.48	0.96	0.96	0.48	0.48	0.48	0.48	0.96
AVERAGE	57.6	1.73	1.15	0.58	0.7	0.49	1.02	1.27	0.58	0.58	0.58	0.56	1.15
												Final attainment level	0.86

PRINCIPAL
SIET. TUMKUR.

FACULTY

HOD

PRINCIPAL

Academic year	2022-23			SEM	VII		Total strength			19		Subject	nputer Aided Design and Manufactur			Subject Code	18ME72										
SEM:VII	IA TEST 1(30M)			IA TEST 2(30M)			IA TEST 3(30M)			ASSIGNEMENT / QUIZ(10 M)			SEE MARKS(60)							Total Cos ATTAINMENT					% of individual CO				
USN	CO1	CO2	TOTAL	CO2	CO3	TOTAL	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	CO1=12	CO2	CO3	CO4	CO5	TOTAL	CO1=34	CO2=44	CO3=34	CO4=34	CO5=34	CO1	CO2	CO3	CO4	CO5
1SV17ME005	6	10	16	12	5	17	13	5	18	2	2	2	2	2	5.6	5.6	5.6	5.6	5.6	28	13.6	29.6	12.6	20.6	12.6	40%	67%	37%	61%	37%
1SV18ME003	11	14	25	13	11	24	12	17	29	2	2	2	2	2	9.4	9.4	9.4	9.4	9.4	47	22.4	38.4	22.4	23.4	28.4	66%	87%	66%	69%	84%
1SV18ME008	15	6	21	14	11	25	11	12	23	2	2	2	2	2	6	6	6	6	6	30	23	28	19	19	20	68%	64%	56%	56%	59%
1SV18ME010	13	10	23	19	2	21	11	14	25	2	2	2	2	2	4.8	4.8	4.8	4.8	4.8	24	19.8	35.8	8.8	17.8	20.8	58%	81%	26%	52%	61%
1SV18ME011	14	11	25	11	9	20	18	6	24	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	21	20.2	28.2	15.2	24.2	12.2	59%	64%	45%	71%	36%
1SV18ME012	13	8	21	13	10	23	15	7	22	2	2	2	2	2	5.8	5.8	5.8	5.8	5.8	29	20.8	28.8	17.8	22.8	14.8	61%	65%	52%	67%	44%
1SV18ME013	11	15	26	18	9	27	14	11	25	2	2	2	2	2	4.8	4.8	4.8	4.8	4.8	24	17.8	39.8	15.8	20.8	17.8	52%	90%	46%	61%	52%
1SV19ME001	19	10	29	16	7	23	13	13	26	2	2	2	2	2	5.6	5.6	5.6	5.6	5.6	28	26.6	33.6	14.6	20.6	20.6	78%	76%	43%	61%	61%
1SV19ME002	13	7	20	12	9	21	11	11	22	2	2	2	2	2	5.8	5.8	5.8	5.8	5.8	29	20.8	26.8	16.8	18.8	18.8	61%	61%	49%	55%	55%
1SV19ME005	12	3	15	9	9	18	15	3	18	2	2	2	2	2	4.8	4.8	4.8	4.8	4.8	'24	18.8	18.8	15.8	21.8	9.8	55%	43%	46%	64%	29%
1SV19ME006	16	4	20	11	11	22	17	4	21	2	2	2	2	2	8	8	8	8	8	40	26	25	21	27	14	76%	57%	62%	79%	41%
1SV19ME010	14	9	23	12	9	21	12	10	22	2	2	2	2	2	6.6	6.6	6.6	6.6	6.6	33	22.6	29.6	17.6	20.6	18.6	66%	67%	52%	61%	55%
1SV19ME011	13	10	23	17	10	27	15	10	25	2	2	2	2	2	6.4	6.4	6.4	6.4	6.4	32	21.4	35.4	18.4	23.4	18.4	63%	80%	54%	69%	54%
1SV19ME013	17	1	18	12	4	16	14	0	14	2	2	2	2	2	2.4	2.4	2.4	2.4	2.4	12	21.4	17.4	8.4	18.4	4.4	63%	40%	25%	54%	13%
1SV19ME014	14	5	19	11	12	23	13	8	21	2	2	2	2	2	6.4	6.4	6.4	6.4	6.4	32	22.4	24.4	20.4	21.4	16.4	66%	55%	60%	63%	48%
1SV19ME015	15	3	18	16	4	20	14	8	22	2	2	2	2	2	5	5	5	5	5	25	22	26	11	21	15	65%	59%	32%	62%	44%
1SV20ME400	13	10	23	13	16	29	16	10	26	2	2	2	2	2	6	6	6	6	6	30	21	31	24	24	18	62%	70%	71%	71%	53%
1SV20ME402	14	2	16	12	6	18	14	6	20	2	2	2	2	2	5.2	5.2	5.2	5.2	5.2	26	21.2	21.2	13.2	21.2	13.2	62%	48%	39%	62%	39%
1SV20ME403	13	12	25	12	17	29	15	12	27	2	2	2	2	2	5.4	5.4	5.4	5.4	5.4	27	20.4	31.4	24.4	22.4	19.4	60%	71%	72%	66%	57%
TOTAL	256	150	406	253	171	424	263	167	430	38	38	38	38	38	108.2	108.2	108.2	108.2	108.2	541	402.2	549.2	317.2	409.2	313.2	11.83	12.48	9.33	12.04	9.21
No of Students	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
Average	13.5	7.89	21.37	13.3	9	22.3	13.8	8.8	22.63	2	2	2	2	2	5.69	5.69	5.69	5.69	5.69	28.47	21.17	28.91	16.69	21.54	16.48	62.26	65.69	49.10	63.34	48.48
Total																										62%	66%	49%	63%	48%

PRINCIPAL
SIET. TUMKUR.

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

DEPARTMENT OF ME

SUBJECT	TOTAL QUALITY MANAGEMENT	SUBJECT CODE	18ME734

COURSE OUTCOME

CO1	Explain the various approaches of TQM
CO2	Infer the customer perception of quality
CO3	Analyse customer needs and perceptions to design feedback systems.
CO4	Apply statistical tools for continuous improvement of systems
CO5	Apply the tools and technique for effective implementation of TQM.

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 modelling 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: recognition of the need for, and an ability to engage in, to resolve Contemporary issues and acquire lifelong learning.

NAME OF THE COLLEGE		SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY, TUMAKURU										
FACULTY NAME		Prof. Santosh										
BRANCH		MECHANICAL		ACADEMIC YEAR			2022-23					
COURSE	B.E	SEMESTER	VII	SECTION			-					
SUBJECT	TOTAL QUALITY MANAGEMENT					SUBJECT CODE	18ME734					
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	2	1	1	-	2	3	1	1	1	1	2
CO2	3	2	1	2	-	1	1	1	1	1	-	2
CO3	3	2	1	1	1	2	2	1	1	1	1	2
CO4	3	2	1	1	-	2	3	1	1	1	1	2
CO5	3	2	1	1	1	2	2	1	1	1	1	2
AVERAGE	3	1.6	1	1.2	1	1.8	2.2	1	1	1	1	2
OVERALL MAPPING OF SUBJECT												1.52

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	64	1.92	1.28	0.64	0.6	-	1.28	1.92	0.64	0.64	0.64	0.62	1.28
CO2	76	2.28	1.52	0.76	1.5	-	0.76	0.76	0.76	0.76	0.76	-	1.52
CO3	53	1.59	1.06	0.53	0.5	0.49	1.06	1.06	0.53	0.53	0.53	0.49	1.06
CO4	65	1.95	1.3	0.65	0.7	-	1.3	1.95	0.65	0.65	0.65	0.63	1.3
CO5	57	1.71	1.14	0.57	0.6	0.48	1.14	1.14	0.57	0.57	0.57	0.48	1.14
AVERAGE	63	1.89	1.26	0.63	0.8	0.49	1.11	1.37	0.63	0.63	0.63	0.56	1.26
Final attainment level													0.94

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cademic year	2022-23			SEM	VII		Total strength			19		Subject	tal Quality Management (PE			Subject Code		18ME734												
SEM:VII	IA TEST 1(30M)			IA TEST 2(30M)			IA TEST 3(30M)			ASSIGNEMENT / QUIZ(10 M)					SEE MARKS(60)						Total Cos ATTAINMENT					% of individual CO				
USN	CO1	CO2	TOTAL	CO2	CO3	TOTAL	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	CO1=12	CO2	CO3	CO4	CO5	TOTAL	CO1=34	CO2=44	CO3=34	CO4=34	CO5=34	CO1	CO2	CO3	CO4	CO5
SV17ME005	13	4	17	8	8	16	4	11	15	2	2	2	2	2	5	5	5	5	5	25	20	19	15	11	18	59%	43%	44%	32%	53%
SV18ME003	16	9	25	15	11	26	16	11	27	2	2	2	2	2	9.4	9.4	9.4	9.4	9.4	47	27.4	35.4	22.4	27.4	22.4	81%	80%	66%	81%	66%
SV18ME008	12	12	24	13	12	25	13	13	26	2	2	2	2	2	6.4	6.4	6.4	6.4	6.4	32	20.4	33.4	20.4	21.4	21.4	60%	76%	60%	63%	63%
SV18ME010	17	7	24	16	10	26	12	16	28	2	2	2	2	2	4.8	4.8	4.8	4.8	4.8	24	23.8	29.8	16.8	18.8	22.8	70%	68%	49%	55%	67%
SV18ME011	13	10	23	17	9	26	11	15	26	2	2	2	2	2	2	2	2	2	2	10	17	31	13	15	19	50%	70%	38%	44%	56%
SV18ME012	16	8	24	14	13	27	18	6	24	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	21	22.2	28.2	19.2	24.2	12.2	65%	64%	56%	71%	36%
SV18ME013	13	11	24	17	10	27	15	15	30	2	2	2	2	2	7	7	7	7	7	35	22	37	19	24	24	65%	84%	56%	71%	71%
SV19ME001	13	12	25	16	9	25	17	11	28	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	21	19.2	34.2	15.2	23.2	17.2	56%	78%	45%	68%	51%
SV19ME002	12	11	23	18	9	27	12	16	28	2	2	2	2	2	5	5	5	5	5	25	19	36	16	19	23	56%	82%	47%	56%	68%
SV19ME005	12	11	23	15	13	28	16	8	24	2	2	2	2	2	6.6	6.6	6.6	6.6	6.6	33	20.6	34.6	21.6	24.6	16.6	61%	79%	64%	72%	49%
SV19ME006	14	16	30	16	8	24	18	9	27	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	21	20.2	38.2	14.2	24.2	15.2	59%	87%	42%	71%	45%
SV19ME010	12	11	23	14	10	24	15	10	25	2	2	2	2	2	5.8	5.8	5.8	5.8	5.8	29	19.8	32.8	17.8	22.8	17.8	58%	75%	52%	67%	52%
SV19ME011	14	13	27	17	13	30	13	11	24	2	2	2	2	2	9	9	9	9	9	45	25	41	24	24	22	74%	93%	71%	71%	65%
SV19ME013	16	5	21	14	11	25	11	12	23	2	2	2	2	2	6	6	6	6	6	30	24	27	19	19	20	71%	61%	56%	56%	59%
SV19ME014	17	6	23	15	9	24	10	15	25	2	2	2	2	2	7.2	7.2	7.2	7.2	7.2	36	26.2	30.2	18.2	19.2	24.2	77%	69%	54%	56%	71%
SV19ME015	13	15	28	17	7	24	16	7	23	2	2	2	2	2	9	9	9	9	9	45	24	43	18	27	18	71%	98%	53%	79%	53%
SV20ME400	13	16	29	15	8	23	14	9	23	2	2	2	2	2	9	9	9	9	9	45	24	42	19	25	20	71%	95%	56%	74%	59%
SV20ME402	12	10	22	13	12	25	17	8	25	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	21	18.2	29.2	18.2	23.2	14.2	54%	66%	54%	68%	42%
SV20ME403	14	12	26	18	9	27	17	11	28	2	2	2	2	2	5.4	5.4	5.4	5.4	5.4	27	21.4	37.4	16.4	24.4	18.4	63%	85%	48%	72%	54%
TOTAL	262	199	461	288	191	479	265	214	479	38	38	38	38	38	114.4	114.4	114	114.4	114.4	572	414.4	639.4	343.4	417.4	366.4	12.19	14.53	10.10	12.28	10.78
o of Students	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
Average	13.8	10.5	24.26	15.2	10.1	25.2	13.9	11	25.21	2	2	2	2	2	6.02	6.02	6.02	6.02	6.02	30.11	21.81	33.65	18.07	21.97	19.28	64.15	76.48	53.16	64.61	56.72
Total																										64%	76%	53%	65%	57%

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

DEPARTMENT OF ME

SUBJECT	PROJECT MANAGMENT	SUBJECT CODE	18ME745

COURSE OUTCOME

CO1	Understand the selection, prioritization and initiation of individual projects and strategic role of project management.
CO2	Understand the work breakdown structure by integrating it with organization.
CO3	Understand the activities like purchasing, acquisitions, contracting, partnering and collaborations related to performing projects.
CO4	Determine project progress and results through balanced scorecard approach
CO5	Draw the network diagram to calculate the duration of the project and reduce it using crashing.

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 modelling 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.

NAME OF THE COLLEGE		SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY, TUMAKURU			
FACULTY NAME		Prof. Santosh			
BRANCH		MECHANICAL	ACADEMIC YEAR		2022-23
COURSE	B.E	SEMESTER	VII	SECTION	-
SUBJECT	PROJECT MANAGMENT		SUBJECT CODE		18ME745

CO & PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	1	1	1	-	2	3	1	1	1	1	2
CO2	3	2	1	2	-	1	1	1	1	1	-	2
CO3	3	2	1	1	1	2	2	1	1	1	1	2
CO4	3	1	1	1	-	2	3	1	1	1	1	2
CO5	3	1	1	1	1	2	2	1	1	1	1	2
AVERAGE	3	1.4	1	1.2	1	1.8	2.2	1	1	1	1	2
OVERALL MAPPING OF SUBJECT												1.52

CO AND PO ATTAINMENT

	CO %	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	59	2.2	0.73	0.73	0.73	-	1.47	2.2	0.73	0.73	0.73	0.73	1.47
CO2	73	1.96	1.31	0.65	1.31	-	0.65	0.65	0.65	0.65	0.65	-	1.31
CO3	58	1.43	0.95	0.48	0.48	0.48	0.95	0.95	0.48	0.48	0.48	0.48	0.95
CO4	64	1.58	0.53	0.53	0.53	-	1.05	1.58	0.53	0.53	0.53	0.53	1.05
CO5	55	1.42	0.47	0.47	0.47	0.47	0.95	0.95	0.47	0.47	0.47	0.47	0.95
AVERAGE	61.8	1.718	0.798	0.572	0.704	0.48	1.01	1.266	0.572	0.572	0.57	0.55	1.146
FINAL ATTAINMENT LEVEL													0.83

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Academic year	2022-23			SEM	VII		Total strength			19		Subject	Project Management				Subject Code	18ME745									
SEM:VII	IA TEST 1(30M)			IA TEST 2(30M)			IA TEST 3(30M)			ASSIGNEMENT / QUIZ(10 M)					SEE MARKS(60)						Total Cos ATTAINMENT					% of individual CO				
USN	CO1	CO2	TOTAL	CO2	CO3	TOTAL	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	CO1=12	CO2	CO3	CO4	CO5	TOTAL	CO1=34	CO2=44	CO3=34	CO4=34	CO5=34	CO1	CO2	CO3	CO4	CO5
1SV17ME005	12	12	24	16	18	34	8	8	16	2	2	2	2	2	5.4	5.4	5.4	5.4	5.4	27	19.4	35.4	25.4	15.4	15.4	57%	80%	75%	45%	45%
1SV18ME003	15	10	25	14	14	28	15	15	30	2	2	2	2	2	5.8	2	2	2	2	29	22.8	28	18	19	19	67%	64%	53%	56%	56%
1SV18ME008	15	9	24	15	15	30	13	15	28	2	2	2	2	2	8	8	8	8	8	40	25	34	25	23	25	74%	77%	74%	68%	74%
1SV18ME010	15	9	24	15	8	23	14	15	29	2	2	2	2	2	7	7	7	7	7	35	24	33	17	23	24	71%	75%	50%	68%	71%
1SV18ME011	15	8	23	15	14	29	13	15	28	2	2	2	2	2	5.6	5.6	5.6	5.6	5.6	28	22.6	30.6	21.6	20.6	22.6	66%	70%	64%	61%	66%
1SV18ME012	15	8	23	14	15	29	13	15	28	2	2	2	2	2	4.4	4.4	4.4	4.4	4.4	22	21.4	28.4	21.4	19.4	21.4	63%	65%	63%	57%	63%
1SV18ME013	15	10	25	15	15	30	14	15	29	2	2	2	2	2	5.4	5.4	5.4	5.4	5.4	27	22.4	32.4	22.4	21.4	22.4	66%	74%	66%	63%	66%
1SV19ME001	14	15	29	15	15	30	14	15	29	2	2	2	2	2	7.2	7.2	7.2	7.2	7.2	36	23.2	39.2	24.2	23.2	24.2	68%	89%	71%	68%	71%
1SV19ME002	15	13	28	15	14	29	12	14	26	2	2	2	2	2	4.4	4.4	4.4	4.4	4.4	22	21.4	34.4	20.4	18.4	20.4	63%	78%	60%	54%	60%
1SV19ME005	15	8	23	14	9	23	13	12	25	2	2	2	2	2	4.6	4.6	4.6	4.6	4.6	23	21.6	28.6	15.6	19.6	18.6	64%	65%	46%	58%	55%
1SV19ME006	15	12	27	14	14	28	12	13	25	2	2	2	2	2	5.2	5.2	5.2	5.2	5.2	26	22.2	33.2	21.2	19.2	20.2	65%	75%	62%	56%	59%
1SV19ME010	15	8	23	15	15	30	14	15	29	2	2	2	2	2	6	6	6	6	6	30	23	31	23	22	23	68%	70%	68%	65%	68%
1SV19ME011	15	15	30	14	14	28	14	15	29	2	2	2	2	2	6.4	6.4	6.4	6.4	6.4	32	23.4	37.4	22.4	22.4	23.4	69%	85%	66%	66%	69%
1SV19ME013	14	2	16	14	8	22	14	7	21	2	2	2	2	2	5.8	5.8	5.8	5.8	5.8	29	21.8	23.8	15.8	21.8	14.8	64%	54%	46%	64%	44%
1SV19ME014	15	15	30	14	14	28	14	15	29	2	2	2	2	2	6	6	6	6	6	30	23	37	22	22	23	68%	84%	65%	65%	68%
1SV19ME015	15	14	29	15	14	29	14	15	29	2	2	2	2	2	5.8	5.8	5.8	5.8	5.8	29	22.8	36.8	21.8	21.8	22.8	67%	84%	64%	64%	67%
1SV20ME400	15	14	29	14	12	26	13	15	28	2	2	2	2	2	8.8	8.8	8.8	8.8	8.8	44	25.8	38.8	22.8	23.8	25.8	76%	88%	67%	70%	76%
1SV20ME402	14	8	22	15	15	30	14	15	29	2	2	2	2	2	6.4	6.4	6.4	6.4	6.4	32	22.4	31.4	23.4	22.4	23.4	66%	71%	69%	66%	69%
1SV20ME403	15	8	23	15	14	29	14	15	29	2	2	2	2	2	7.4	7.4	7.4	7.4	7.4	37	24.4	32.4	23.4	23.4	24.4	72%	74%	69%	69%	72%
TOTAL	279	198	477	278	257	535	252	264	516	38	38	38	38	38	115.6	111.8	111.8	111.8	111.8	578	432.6	625.8	406.8	401.8	413.8	12.72	14.22	11.96	11.82	12.17
NO OF STUDENT	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
AVERAGE	14.7	10.4	25.1	14.6	13.5	28.2	13.3	13.9	27.2	2.0	2.0	2.0	2.0	2.0	6.1	5.9	5.9	5.9	5.9	30.4	22.8	32.9	21.4	21.1	21.8	67.0	74.9	63.0	62.2	64.1
Total																										67%	75%	63%	62%	64%

PRINCIPAL
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SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

DEPARTMENT OF ME

SUBJECT	ENVIRONMENTAL PROTECTION & MANAGEMENT	SUBJECT CODE	18CV753

COURSE OUTCOME

CO1	Appreciate the elements of Corporate Environmental Management systems complying to international environmental management system standards.
CO2	Lead pollution prevention assessment team
CO3	implement waste minimization options.
CO4	Develop, Implement, maintain
CO5	Audit Environmental Management systems for Organizations.

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 modelling 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.

NAME OF THE COLLEGE		SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY, TUMAKURU			
FACULTY NAME		Prof Niranjani			
BRANCH		MECHANICAL	ACADEMIC YEAR		2022-23
COURSE	B.E	SEMESTER	VII	SECTION	-
SUBJECT	ENVIRONMENTAL PROTECTION & MANAGEMENT		SUBJECT CODE		18CV753

CO & PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	2	1	1	-	2	3	1	1	1	1	2
CO2	3	2	1	2	-	1	1	1	1	1	-	2
CO3	3	2	1	1	1	2	2	1	1	1	1	2
CO4	3	2	1	1	-	2	3	1	1	1	1	2
CO5	3	2	1	1	1	2	2	1	1	1	1	2
AVERAGE	3	1.6	1	1.2	1	1.8	2.2	1	1	1	1	2
											OVERALL MAPPING OF SUBJECT	1.52

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	62	1.86	1.24	0.62	0.6	-	1.24	1.86	0.62	0.62	0.62	0.62	1.24
CO2	66	1.98	1.32	0.66	1.3	-	0.66	0.66	0.66	0.66	0.66	-	1.32
CO3	49	1.47	0.98	0.49	0.5	0.49	0.98	0.98	0.49	0.49	0.49	0.49	0.98
CO4	63	1.89	1.26	0.63	0.6	-	1.26	1.89	0.63	0.63	0.63	0.63	1.26
CO5	48	1.44	0.96	0.48	0.5	0.48	0.96	0.96	0.48	0.48	0.48	0.48	0.96
AVERAGE	57.6	1.73	1.15	0.58	0.7	0.49	1.02	1.27	0.58	0.58	0.58	0.56	1.15
												Final attainment level	0.86

FACULTY

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SIET. TUMKUR.

PRINCIPAL

cademic year	2022-23			SEM	VII		Total strength			19		Subject	mental Protection & Mana			Subject Code		18CV753									
SEM:VII	IA TEST 1(30M)			IA TEST 2(30M)			IA TEST 3(30M)			SSIGNEMENT / QUIZ(10 M					SEE MARKS(60)						Total Cos ATTAINMENT					% of individual CO				
USN	CO1	CO2	TOTAL	CO2	CO3	TOTAL	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	CO1=12	CO2	CO3	CO4	CO5	TOTAL	CO1=34	CO2=44	CO3=34	CO4=34	CO5=34	CO1	CO2	CO3	CO4	CO5
SV17ME005	6	12	18	12	3	15	13	17	30	2	2	2	2	2	4.4	5.6	5.6	5.6	5.6	22	12.4	31.6	10.6	20.6	24.6	36%	72%	31%	61%	72%
SV18ME003	11	10	21	13	2	15	12	18	30	2	2	2	2	2	10.8	9.4	9.4	9.4	9.4	54	23.8	34.4	13.4	23.4	29.4	70%	78%	39%	69%	86%
SV18ME008	15	7	22	14	6	20	11	16	27	2	2	2	2	2	4.8	6	6	6	6	24	21.8	29	14	19	24	64%	66%	41%	56%	71%
SV18ME010	13	-4	9	19	-10	9	11	18	29	2	2	2	2	2	7.8	4.8	4.8	4.8	4.8	39	22.8	21.8	-3.2	17.8	24.8	67%	50%	-9%	52%	73%
SV18ME011	14	-4	10	11	6	17	18	12	30	2	2	2	2	2	6.4	4.2	4.2	4.2	4.2	32	22.4	13.2	12.2	24.2	18.2	66%	30%	36%	71%	54%
SV18ME012	13	7	20	13	4	17	15	15	30	2	2	2	2	2	3	5.8	5.8	5.8	5.8	15	18	27.8	11.8	22.8	22.8	53%	63%	35%	67%	67%
SV18ME013	11	4	15	18	2	20	14	16	30	2	2	2	2	2	5.8	4.8	4.8	4.8	4.8	29	18.8	28.8	8.8	20.8	22.8	55%	65%	26%	61%	67%
SV19ME001	19	1	20	16	5	21	13	16	29	2	2	2	2	2	4.6	5.6	5.6	5.6	5.6	23	25.6	24.6	12.6	20.6	23.6	75%	56%	37%	61%	69%
SV19ME002	13	5	18	12	-6	6	11	19	30	2	2	2	2	2	6.4	5.8	5.8	5.8	5.8	32	21.4	24.8	1.8	18.8	26.8	63%	56%	5%	55%	79%
SV19ME005	12	-4	8	9	11	20	15	15	30	2	2	2	2	2	5.8	4.8	4.8	4.8	4.8	29	19.8	11.8	17.8	21.8	21.8	58%	27%	52%	64%	64%
SV19ME006	16	2	18	11	15	26	17	9	26	2	2	2	2	2	6.2	8	8	8	8	31	24.2	23	25	27	19	71%	52%	74%	79%	56%
SV19ME010	14	12	26	12	-12	0	12	18	30	2	2	2	2	2	5.8	6.6	6.6	6.6	6.6	29	21.8	32.6	-3.4	20.6	26.6	64%	74%	-10%	61%	78%
SV19ME011	13	0	13	17	3	20	15	15	30	2	2	2	2	2	10.2	6.4	6.4	6.4	6.4	51	25.2	25.4	11.4	23.4	23.4	74%	58%	34%	69%	69%
SV19ME013	17	3	20	12	-12	0	14	9	23	2	2	2	2	2	6.4	2.4	2.4	2.4	2.4	32	25.4	19.4	-7.6	18.4	13.4	75%	44%	-22%	54%	39%
SV19ME014	14	6	20	11	11	22	13	17	30	2	2	2	2	2	8.2	6.4	6.4	6.4	6.4	41	24.2	25.4	19.4	21.4	25.4	71%	58%	57%	63%	75%
SV19ME015	15	-9	6	16	-9	7	14	16	30	2	2	2	2	2	4.2	5	5	5	5	21	21.2	14	-2	21	23	62%	32%	-6%	62%	68%
SV20ME400	13	6	19	13	7	20	16	4	20	2	2	2	2	2	9.6	6	6	6	6	48	24.6	27	15	24	12	72%	61%	44%	71%	35%
SV20ME402	14	-3	11	12	3	15	14	1	15	2	2	2	2	2	4.8	5.2	5.2	5.2	5.2	24	20.8	16.2	10.2	21.2	8.2	61%	37%	30%	62%	24%
SV20ME403	13	13	26	12	9	21	15	14	29	2	2	2	2	2	7	5.4	5.4	5.4	5.4	35	22	32.4	16.4	22.4	21.4	65%	74%	48%	66%	63%
TOTAL	256	64	320	253	38	291	263	265	528	38	38	38	38	38	122.2	108	108.2	108.2	108.2	611	416.2	463.2	184.2	409.2	411.2	12.24	10.53	5.42	12.04	12.09
o of Students	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
Average	13.5	3.37	16.84	13.3	2	15.3	13.8	14	27.79	2	2	2	2	2	6.43	5.69	5.69	5.69	5.69	32.16	21.91	24.38	9.69	21.54	21.64	64.43	55.41	28.51	63.34	63.65
Total																										64%	55%	29%	63%	64%

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

DEPARTMENT OF ME

SUBJECT	MANAGEMENT AND ECONOMICS	SUBJECT CODE	18ME51

COURSE OUTCOME

CO1	Understand needs, functions, roles, scope and evolution of Management
CO2	Understand importance, purpose of Planning and hierarchy of planning and also56nalyse its types.
CO3	Discuss Decision making, Organizing, Staffing, Directing and Controlling.
CO4	Select the best economic model from various available alternatives.
CO5	Understand various interest rate methods and implement the suitable one.

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 modelling 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.

NAME OF THE COLLEGE		SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY, TUMAKURU			
FACULTY NAME		Prof. Santosh			
BRANCH		MECHANICAL	ACADEMIC YEAR		2022-23
COURSE	B.E	SEMESTER	V	SECTION	-
SUBJECT	MANAGEMENT AND ECONOMICS		SUBJECT CODE		18ME51

CO & PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	1	1	1	-	2	3	1	1	1	1	2
CO2	3	2	1	2	-	1	1	1	1	1	-	2
CO3	3	2	1	1	1	2	2	1	1	1	1	2
CO4	3	1	1	1	-	2	3	1	1	1	1	2
CO5	3	1	1	1	1	2	2	1	1	1	1	2
AVERAGE	3	1.4	1	1.2	1	1.8	2.2	1	1	1	1	2
OVERALL MAPPING OF SUBJECT												1.52

CO AND PO ATTAINMENT

	CO %	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO1	57	2.2	0.73	0.73	0.73	-	1.47	2.2	0.73	0.73	0.73	0.73	1.47
CO2	69	1.96	1.31	0.65	1.31	-	0.65	0.65	0.65	0.65	0.65	-	1.31
CO3	60	1.43	0.95	0.48	0.48	0.48	0.95	0.95	0.48	0.48	0.48	0.48	0.95
CO4	65	1.58	0.53	0.53	0.53	-	1.05	1.58	0.53	0.53	0.53	0.53	1.05
CO5	64	1.42	0.47	0.47	0.47	0.47	0.95	0.95	0.47	0.47	0.47	0.47	0.95
AVERAGE	63	1.718	0.798	0.572	0.7004	0.48	1.01	1.2 66	0.572	0.572	0.57	0.55	1.146
FINAL ATTAINMENT LEVEL													0.83

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Academic ye	2022-23			SEM	V		Total strength			83.00		Subject	Management and Economics					Subject Code	18ME51										
SEM:V	IA TEST 1(30M)			IA TEST 2(30M)			IA TEST 3(30M)			ASSIGNEMENT / QUIZ(10 M)					SEE MARKS(60)						Total Cos ATTAINMENT					% of individual CO				
USN	CO1	CO2	TOTAL	CO2	CO3	TOTAL	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	CO1=12	CO2	CO3	CO4	CO5	Total	CO1=29	CO2=44	CO3=29	CO4=29	CO5=29	CO1	CO2	CO3	CO4	CO5
1SV20ME000	8.00	12.00	20.00	12.00	12.00	24.00	15.00	14.00	29.00	2.00	2.00	2.00	2.00	2.00	5.60	5.60	5.60	5.60	5.60	28.00	15.60	31.60	19.60	22.60	21.60	46%	72%	58%	66%	64%
1SV20ME000	14.00	15.00	29.00	8.00	15.00	23.00	15.00	14.00	29.00	2.00	2.00	2.00	2.00	2.00	6.40	6.40	6.40	6.40	6.40	32.00	22.40	31.40	23.40	23.40	22.40	66%	71%	69%	69%	66%
1SV20ME000	8.00	12.00	20.00	8.00	10.00	18.00	15.00	14.00	29.00	2.00	2.00	2.00	2.00	2.00	4.60	4.60	4.60	4.60	4.60	23.00	14.60	26.60	16.60	21.60	20.60	43%	60%	49%	64%	61%
1SV20ME000	13.00	15.00	28.00	12.00	8.00	20.00	15.00	15.00	30.00	2.00	2.00	2.00	2.00	2.00	5.20	5.20	5.20	5.20	5.20	26.00	20.20	34.20	15.20	22.20	22.20	59%	78%	45%	65%	65%
1SV20ME000	12.00	5.00	17.00	6.00	14.00	20.00	15.00	15.00	30.00	2.00	2.00	2.00	2.00	2.00	2.80	2.80	2.80	2.80	2.80	14.00	16.80	15.80	18.80	19.80	19.80	49%	36%	55%	58%	58%
1SV20ME000	14.00	14.00	28.00	8.00	15.00	23.00	15.00	12.00	27.00	2.00	2.00	2.00	2.00	2.00	5.00	5.00	5.00	5.00	5.00	25.00	21.00	29.00	22.00	22.00	19.00	62%	66%	65%	65%	56%
1SV20ME000	10.00	11.00	21.00	8.00	10.00	18.00	15.00	15.00	30.00	2.00	2.00	2.00	2.00	2.00	5.00	5.00	5.00	5.00	5.00	25.00	17.00	26.00	17.00	22.00	22.00	50%	59%	50%	65%	65%
1SV20ME000	13.00	15.00	28.00	12.00	15.00	27.00	14.00	14.00	28.00	2.00	2.00	2.00	2.00	2.00	8.80	8.80	8.80	8.80	8.80	44.00	23.80	37.80	25.80	24.80	24.80	70%	86%	76%	73%	73%
1SV20ME000	15.00	15.00	30.00	15.00	15.00	30.00	15.00	15.00	30.00	2.00	2.00	2.00	2.00	2.00	5.80	5.80	5.80	5.80	5.80	29.00	22.80	37.80	22.80	22.80	22.80	67%	86%	67%	67%	67%
1SV21ME400	12.00	13.00	25.00	12.00	13.00	25.00	15.00	15.00	30.00	2.00	2.00	2.00	2.00	2.00	5.60	5.60	5.60	5.60	5.60	28.00	19.60	32.60	20.60	22.60	22.60	58%	74%	61%	66%	66%
1SV21ME400	15.00	15.00	30.00	12.00	15.00	27.00	15.00	14.00	29.00	2.00	2.00	2.00	2.00	2.00	5.20	5.20	5.20	5.20	5.20	26.00	22.20	34.20	22.20	22.20	21.20	65%	78%	65%	65%	62%
1SV21ME400	12.00	14.00	26.00	7.00	15.00	22.00	15.00	15.00	30.00	2.00	2.00	2.00	2.00	2.00	4.20	4.20	4.20	4.20	4.20	21.00	18.20	27.20	21.20	21.20	21.20	54%	62%	62%	62%	62%
Total	146.00	156.00	302.00	120.00	157.00	277.00	179.00	172.00	351.00	24.00	24.00	24.00	24.00	24.00	64.20	64.20	64.20	64.20	64.20	321.00	234.20	364.20	245.20	267.20	260.20	6.89	8.28	7.21	7.86	7.65
lo of Student	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
Average	12.17	13.00	25.17	10.00	13.08	23.08	14.92	14.33	29.25	2.00	2.00	2.00	2.00	2.00	5.35	5.35	5.35	5.35	5.35	26.75	19.52	30.35	20.43	22.27	21.68	0.57	0.69	0.60	0.65	0.64
Total																										57%	69%	60%	65%	64%

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

DEPARTMENT OF ME

SUBJECT	DESIGN OF MACHINE ELEMENTS-1	SUBJECT CODE	18ME52

COURSE OUTCOME

CO1	Apply the concepts of selection of materials for given mechanical components.
CO2	List the functions and uses of machine elements used in mechanical systems.
CO3	Apply codes and standards in the design of machine elements and select an element based on the Manufacturer's catalogue.
CO4	Analyze the performance and failure modes of mechanical components subjected to combined loading and fatigue loading using the concepts of theories of failure.
CO5	Demonstrate the application of engineering design tools to the design of machine components like shafts, couplings, power screws, fasteners, welded and riveted joints.

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 modelling 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: recognition of the need for, and an ability to engage in, to resolve Contemporary issues and acquire lifelong learning.

NAME OF THE COLLEGE		SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY, TUMAKURU			
FACULTY NAME		DR. NARENDRA VISWANATH			
BRANCH		MECHANICAL	ACADEMIC YEAR		2022-23
COURSE	B.E	SEMESTER	V	SECTION	-
SUBJECT	DESIGN OF MACHINE ELEMENTS-1		SUBJECT CODE		18ME52

CO & PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	1	1	1	1	1	2	3	1	1	1	1	2
CO2	3	2	1	1	1	1	1	1	1	1	-	2
CO3	3	2	1	1	1	2	2	1	1	1	1	2
CO4	3	1	1	1	-	2	3	1	1	1	1	2
CO5	3	1	1	1	1	2	2	1	1	1	1	2
AVERAGE	2.6	1.4	1	1.2	1	1.8	2.2	1	1	1	1	2
OVERALL MAPPING OF SUBJECT												1.4

CO AND PO ATTAINMENT

	CO %	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO10	PO11	PO12
CO1	51	0.51	0.51	0.51	0.51	0.51	1.02	1.53	0.51	0.51	0.51	0.51	1.02
CO2	60	1.8	1.20	0.6	1.2	0.6	0.6	0.6	0.6	0.6	0.6	-	1.2
CO3	48	1.44	0.96	0.48	0.48	0.48	0.96	0.96	0.48	0.48	0.48	0.48	0.96
CO4	56	1.68	0.56	0.56	0.56	0.56	1.12	1.68	0.56	0.56	0.56	0.56	1.12
CO5	43	1.29	0.43	0.43	0.43	0.43	0.86	0.86	0.43	0.43	0.43	0.43	0.86
AVERAGE	51.6	1.344	0.732	0.516	0.636	0.516	0.912	1.126	0.516	0.516	0.516	0.495	1.03
Final attainment level													0.74

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Academic year	2022-23			SEM:	V		Total strength			12		Subject	Design of Machine Elements -			Subject Code		18ME52									
SEM:V	IA TEST 1(30M)			IA TEST 2(30M)			IA TEST 3(30M)			ASSIGNTEMENT / QUIZ(10 M)					SEE MARKES(60)						Total Cos ATTAINMENT					% of individual CO				
USN	CO1	CO2	TOTAL	CO2	CO3	TOTAL	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	CO1=15	CO2	CO3	CO4	CO5	TOTAL	CO1=34	CO2=44	CO3=34	CO4=34	CO5=34	CO1	CO2	CO3	CO4	CO5
1SV20ME001	12	11	23	12	13	25	13	14	27	2	2	2	2	2	2.4	2.4	2.4	2.4	2.4	12	16.4	27.4	17.4	17.4	18.4	48%	62%	51%	51%	54%
1SV20ME002	11	17	28	14	15	29	15	15	30	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	21	17.2	37.2	21.2	21.2	21.2	51%	85%	62%	62%	62%
1SV20ME003	13	7	20	16	10	26	14	9	23	2	2	2	2	2	8.8	8.8	8.8	8.8	8.8	44	23.8	33.8	20.8	24.8	19.8	70%	77%	61%	73%	58%
1SV20ME004	13	5	18	12	10	22	12	8	20	2	2	2	2	2	2.4	2.4	2.4	2.4	2.4	12	17.4	21.4	14.4	16.4	12.4	51%	49%	42%	48%	36%
1SV20ME005	12	6	18	11	12	23	11	11	22	2	2	2	2	2	0	0	0	0	0	0	14	19	14	13	13	41%	43%	41%	38%	38%
1SV20ME006	12	12	24	14	10	24	16	11	27	2	2	2	2	2	2.8	2.8	2.8	2.8	2.8	14	16.8	30.8	14.8	20.8	15.8	49%	70%	44%	61%	46%
1SV20ME007	9	2	11	7	6	13	12	0	12	2	2	2	2	2	2.4	2.4	2.4	2.4	2.4	12	13.4	13.4	10.4	16.4	4.4	39%	30%	31%	48%	13%
1SV20ME008	13	11	24	13	10	23	15	7	22	2	2	2	2	2	4.4	4.4	4.4	4.4	4.4	22	19.4	30.4	16.4	21.4	13.4	57%	69%	48%	63%	39%
1SV20ME009	15	15	30	16	14	30	12	18	30	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	21	21.2	37.2	20.2	18.2	24.2	62%	85%	59%	54%	71%
1SV21ME400	11	6	17	12	12	24	17	5	22	2	2	2	2	2	5	5	5	5	5	25	18	25	19	24	12	53%	57%	56%	71%	35%
1SV21ME401	7	4	11	5	5	10	11	1	12	2	2	2	2	2	2.4	2.4	2.4	2.4	2.4	12	11.4	13.4	9.4	15.4	5.4	34%	30%	28%	45%	16%
1SV21ME402	12	8	20	13	11	24	14	8	22	2	2	2	2	2	5.2	5.2	5.2	5.2	5.2	26	19.2	28.2	18.2	21.2	15.2	56%	64%	54%	62%	45%
TOTAL	140	104	244	145	128	273	162	107	269	24	24	24	24	24	44.2	44.2	44.2	44.2	44.2	221	208.2	317.2	196.2	230.2	175.2	6.12	7.21	5.77	6.77	5.15
No of Students	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Average	11.7	8.67	20.33	12.1	10.7	22.8	13.5	8.9	22.42	2	2	2	2	2	3.68	3.68	3.68	3.68	3.68	18.42	17.35	26.43	16.35	19.18	14.6	51.03	60.08	48.09	56.42	42.94
Total																										51%	60%	48%	56%	43%

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

DEPARTMENT OF ME

SUBJECT	DYNAMICS OF MACHINES	SUBJECT CODE	18ME53

COURSE OUTCOME

CO1	Understand needs, functions, roles, scope and evolution of Management
CO2	Understand importance, purpose of Planning and hierarchy of planning and also56nalyse its types.
CO3	Discuss Decision making, Organizing, Staffing, Directing and Controlling.
CO4	Select the best economic model from various available alternatives.
CO5	Understand various interest rate methods and implement the suitable one.

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 modelling 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.

NAME OF THE COLLEGE		SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY, TUMAKURU			
FACULTY NAME		Prof. BHV			
BRANCH		MECHANICAL	ACADEMIC YEAR		2022-23
COURSE	B.E	SEMESTER	V	SECTION	-
SUBJECT	DYNAMICS OF MACHINES		SUBJECT CODE		18ME53

CO & PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	1	1	1	-	2	3	1	1	1	1	2
CO2	3	2	1	2	-	1	1	1	1	1	-	2
CO3	3	2	1	1	1	2	2	1	1	1	1	2
CO4	3	1	1	1	-	2	3	1	1	1	1	2
CO5	3	1	1	1	1	2	2	1	1	1	1	2
AVERAGE	3	1.4	1	1.2	1	1.8	2.2	1	1	1	1	2
OVERALL MAPPING OF SUBJECT												1.52

CO AND PO ATTAINMENT

	CO %	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO1	35	2.2	0.73	0.73	0.73	-	1.47	2.2	0.73	0.73	0.73	0.73	1.47
CO2	49	1.96	1.31	0.65	1.31	-	0.65	0.65	0.65	0.65	0.65	-	1.31
CO3	44	1.43	0.95	0.48	0.48	0.48	0.95	0.95	0.48	0.48	0.48	0.48	0.95
CO4	46	1.58	0.53	0.53	0.53	-	1.05	1.58	0.53	0.53	0.53	0.53	1.05
CO5	47	1.42	0.47	0.47	0.47	0.47	0.95	0.95	0.47	0.47	0.47	0.47	0.95
AVERAGE	44.2	1.718	0.798	0.572	0.704	0.48	1.01	1.266	0.572	0.572	0.57	0.55	1.146
FINAL ATTAINMENT LEVEL													0.83

FACULTY

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PRINCIPAL

Academic year	2022-23			SEM	V		Total strength			83		Subject	Dynamics of Machines			Subject Code		18ME53									
SEM:V	IA TEST 1(30M)			IA TEST 2(30M)			IA TEST 3(30M)			ASSIGNTEMENT / QUIZ(10 M)					SEE MARKS(60)						Total Cos ATTAINMENT					% of individual CO				
USN	CO1	CO2	TOTAL	CO2	CO3	TOTAL	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	CO1=12	CO2	CO3	CO4	CO5	Total	CO1=29	CO2=44	CO3=29	CO4=29	CO5=29	CO1	CO2	CO3	CO4	CO
1SV20ME001	7	7	14	10	13	23	10	13	23	2	2	2	2	2	5.4	5.4	5.4	5.4	5.4	27	14	24	20.4	17.4	20.4	42%	55%	60%	51%	60%
1SV20ME002	7	7	14	7	8	15	8	9	17	2	2	2	2	2	5.6	5.6	5.6	5.6	5.6	28	15	22	15.6	15.6	16.6	43%	49%	46%	46%	49%
1SV20ME003	5	5	10	11	11	22	10	13	23	2	2	2	2	2	2.8	2.8	2.8	2.8	2.8	14	10	21	15.8	14.8	17.8	29%	47%	46%	44%	52%
1SV20ME004	7	7	14	10	9	19	8	7	15	2	2	2	2	2	4.4	4.4	4.4	4.4	4.4	22	13	23	15.4	14.4	13.4	39%	53%	45%	42%	39%
1SV20ME005	4	3	7	7	8	15	8	7	15	2	2	2	2	2	0.6	0.6	0.6	0.6	0.6	3	7	13	10.6	10.6	9.6	19%	29%	31%	31%	28%
1SV20ME006	7	7	14	8	9	17	8	9	17	2	2	2	2	2	0.4	0.4	0.4	0.4	0.4	2	9	17	11.4	10.4	11.4	28%	40%	34%	31%	34%
1SV20ME007	0	0	0	13	14	27	13	13	26	2	2	2	2	2	0	0	0	0	0	0	2	15	16	15	15	6%	34%	47%	44%	44%
1SV20ME008	7	6	13	7	8	15	10	9	19	2	2	2	2	2	0.2	0.2	0.2	0.2	0.2	1	9	15	10.2	12.2	11.2	27%	35%	30%	36%	33%
1SV20ME009	14	14	28	14	14	28	14	14	28	2	2	2	2	2	5.2	5.2	5.2	5.2	5.2	26	21	35	21.2	21.2	21.2	62%	80%	62%	62%	62%
1SV21ME400	7	7	14	0	0	0	10	11	21	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	21	13	13	6.2	16.2	17.2	39%	30%	18%	48%	51%
1SV21ME401	10	11	21	14	13	27	15	14	29	2	2	2	2	2	1.8	1.8	1.8	1.8	1.8	9	14	29	16.8	18.8	17.8	41%	65%	49%	55%	52%
1SV21ME402	8	9	17	15	15	30	15	15	30	2	2	2	2	2	4.6	4.6	4.6	4.6	4.6	23	15	31	21.6	21.6	21.6	43%	70%	64%	64%	64%
TOTAL	83	83	166	116	122	238	129	134	263	24	24	24	24	24	35.2	35.2	35.2	35.2	35.2	176	142	258	181.2	188.2	193.2	4.18	5.87	5.33	5.54	5.61
No of Students	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Average	6.92	6.92	13.83	9.67	10.2	19.8	10.8	11	21.92	2	2	2	2	2	2.93	2.93	2.93	2.93	2.93	14.67	11.85	21.52	15.1	15.68	16.1	34.85	48.90	44.41	46.13	47.3
Total																										35%	49%	44%	46%	47%

PRINCIPAL
SIET. TUMKUR.

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

DEPARTMENT OF ME

SUBJECT	TURBO MACHINES	SUBJECT CODE	18ME54

COURSE OUTCOME

CO1	Apply the concepts of selection of materials for given mechanical components.
CO2	List the functions and uses of machine elements used in mechanical systems.
CO3	Apply codes and standards in the design of machine elements and select an element based on the Manufacturer's catalogue.
CO4	Analyze the performance and failure modes of mechanical components subjected to combined loading and fatigue loading using the concepts of theories of failure.
CO5	Demonstrate the application of engineering design tools to the design of machine components like shafts, couplings, power screws, fasteners, welded and riveted joints.

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.

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

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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.

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

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

NAME OF THE COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY, TUMAKURU											
FACULTY NAME	PROF K.P.CHANDRAIAH											
BRANCH	MECHANICAL			ACADEMIC YEAR			2022-23					
COURSE	B.E	SEMESTER	V	SECTION	-							
SUBJECT	TURBO MACHINES			SUBJECT CODE	18ME54							

CO & PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	1	1	1	1	1	2	3	1	1	1	1	2
CO2	3	2	1	1	1	1	1	1	1	1	-	2
CO3	3	2	1	1	1	2	2	1	1	1	1	2
CO4	3	1	1	1	-	2	3	1	1	1	1	2
CO5	3	1	1	1	1	2	2	1	1	1	1	2
AVERAGE	2.6	1.4	1	1.2	1	1.8	2.2	1	1	1	1	2
OVERALL MAPPING OF SUBJECT												1.4

CO AND PO ATTAINMENT

	CO %	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO1	53	0.51	0.51	0.51	0.51	0.51	1.02	1.53	0.51	0.51	0.51	0.51	1.02
CO2	31	1.8	1.20	0.6	1.2	0.6	0.6	0.6	0.6	0.6	0.6	-	1.2
CO3	34	1.44	0.96	0.48	0.48	0.48	0.96	0.96	0.48	0.48	0.48	0.48	0.96
CO4	51	1.68	0.56	0.56	0.56	0.56	1.12	1.68	0.56	0.56	0.56	0.56	1.12
CO5	32	1.29	0.43	0.43	0.43	0.43	0.86	0.86	0.43	0.43	0.43	0.43	0.86
AVERAGE	40.2	1.344	0.732	0.516	0.636	0.516	0.912	1.126	0.516	0.516	0.516	0.495	1.03
Final attainment level													0.74

PRINCIPAL
SIET. TUMKUR.

FACULTY

HOD

PRINCIPAL

Academic year	2022-23			SEM: V			Total strength			12		Subject	Turbo Machines			Subject Code	18ME54									
SEM:V	IA TEST 1(30M)			IA TEST 2(30M)			IA TEST 3(30M)			ASSIGNEMENT / QUIZ(10 M)					SEE MARKS(60)						Total Cos ATTAINMENT					% of individual CO				
USN	CO1	CO2	TOTAL	CO2	CO3	TOTAL	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	CO1=12	CO2	CO3	CO4	CO5	TOTAL	CO1=34	CO2=44	CO3=34	CO4=34	CO5=34	CO1	CO2	CO3	CO4	CO5
1SV20ME001	13	7	20	12	10	22	11	10	21	2	2	2	2	2	2.4	2.4	2.4	2.4	2.4	12	17.4	23.4	14.4	15.4	14.4	51%	53%	42%	45%	42%
1SV20ME002	10	5	15	17	0	17	12	4	16	2	2	2	2	2	5.2	5.2	5.2	5.2	5.2	26	17.2	29.2	7.2	19.2	11.2	51%	66%	21%	56%	33%
1SV20ME003	7	9	16	13	7	20	15	3	18	2	2	2	2	2	1.6	1.6	1.6	1.6	1.6	8	10.6	25.6	10.6	18.6	6.6	31%	58%	31%	55%	19%
1SV20ME004	14	7	21	11	8	19	14	3	17	2	2	2	2	2	1.6	1.6	1.6	1.6	1.6	8	17.6	21.6	11.6	17.6	6.6	52%	49%	34%	52%	19%
1SV20ME005	7	3	10	12	0	12	7	7	14	2	2	2	2	2	0	0	0	0	0	0	9	17	2	9	9	26%	39%	6%	26%	26%
1SV20ME006	13	7	20	8	8	16	13	5	18	2	2	2	2	2	1	1	1	1	1	5	16	18	11	16	8	47%	41%	32%	47%	24%
1SV20ME007	13	9	22	14	4	18	12	5	17	2	2	2	2	2	0.8	0.8	0.8	0.8	0.8	4	15.8	25.8	6.8	14.8	7.8	46%	59%	20%	44%	23%
1SV20ME008	15	7	22	6	8	14	12	6	18	2	2	2	2	2	1.4	1.4	1.4	1.4	1.4	7	18.4	16.4	11.4	15.4	9.4	54%	37%	34%	45%	28%
1SV20ME009	24	2	26	15	15	30	17	11	28	2	2	2	2	2	4.8	4.8	4.8	4.8	4.8	24	30.8	23.8	21.8	23.8	17.8	91%	54%	64%	70%	52%
1SV21ME400	22	5	27	17	11	28	19	10	29	2	2	2	2	2	2.4	2.4	2.4	2.4	2.4	12	26.4	26.4	15.4	23.4	14.4	78%	60%	45%	69%	42%
1SV21ME401	9	2	11	8	3	11	7	7	14	2	2	2	2	2	2.4	2.4	2.4	2.4	2.4	12	13.4	14.4	7.4	11.4	11.4	39%	33%	22%	34%	34%
1SV21ME402	19	10	29	15	13	28	19	8	27	2	2	2	2	2	2.6	2.6	2.6	2.6	2.6	13	23.6	29.6	17.6	23.6	12.6	69%	67%	52%	69%	37%
TOTAL	166	73	239	148	87	235	158	79	237	24	24	24	24	24	26.2	26.2	26.2	26.2	26.2	131	216.2	271.2	137.2	208.2	129.2	6.36	6.16	4.04	6.12	3.80
No of Students	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
AVERAGE	13.8	6.08	19.92	12.3	7.25	19.6	13.2	6.6	19.75	2	2	2	2	2	2.18	2.18	2.18	2.18	2.18	10.92	18.0	22.6	11.43	17.35	10.77	52.99	51.36	33.63	51.03	31.67
TOTAL																										53%	51%	34%	51%	32%

PRINCIPAL
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SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

DEPARTMENT OF ME

SUBJECT	FLUID POWER ENGINEERING	SUBJECT CODE	18ME55

COURSE OUTCOME

CO1	Identify and analyse the functional requirements of a fluid power transmission system for a given application.
CO2	Visualize how a hydraulic/pneumatic circuit will work to accomplish the function.
CO3	Design an appropriate hydraulic or pneumatic circuit or combination circuit like electro-hydraulics, electro- pneumatics for a given application.
CO4	Select and size the different components of the circuit.
CO5	Develop a comprehensive circuit diagram by integrating the components selected for the given application.

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 modelling 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.

NAME OF THE COLLEGE		SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY, TUMAKURU			
FACULTY NAME		Prof. K.P.CHANDRAIAH			
BRANCH		MECHANICAL	ACADEMIC YEAR		2022-23
COURSE	B.E	SEMESTER	V	SECTION	-
SUBJECT	FLUID POWER ENGINEERING			SUBJECT CODE	18ME55

CO & PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	1	1	1	-	2	3	1	1	1	1	2
CO2	3	2	1	2	-	1	1	1	1	1	-	2
CO3	3	2	1	1	1	2	2	1	1	1	1	2
CO4	3	1	1	1	-	2	3	1	1	1	1	2
CO5	3	1	1	1	1	2	2	1	1	1	1	2
AVERAGE	3	1.4	1	1.2	1	1.8	2.2	1	1	1	1	2
OVERALL MAPPING OF SUBJECT												1.52

CO AND PO ATTAINMENT

	CO %	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO1	53	2.2	0.73	0.73	0.73	-	1.47	2.2	0.73	0.73	0.73	0.73	1.47
CO2	72	1.96	1.31	0.65	1.31	-	0.65	0.65	0.65	0.65	0.65	-	1.31
CO3	61	1.43	0.95	0.48	0.48	0.48	0.95	0.95	0.48	0.48	0.48	0.48	0.95
CO4	63	1.58	0.53	0.53	0.53	-	1.05	1.58	0.53	0.53	0.53	0.53	1.05
CO5	63	1.42	0.47	0.47	0.47	0.47	0.95	0.95	0.47	0.47	0.47	0.47	0.95
AVERAGE	62.4	1.718	0.798	0.5772	0.7004	0.48	1.01	1.2666	0.5772	0.5772	0.57	0.55	1.1466
FINAL ATTAINMENT LEVEL													0.83

FACULTY

HOD

PRINCIPAL
SIET. TUMKUR.

Academic year	2022-23			SEM/V			Total strength			12		Subject	Fluid Power Engineering			Subject Code	18ME55									
SEM:V	IA TEST 1(30M)			IA TEST 2(30M)			IA TEST 3(30M)			ASSIGNEMENT / QUIZ(10 M)					SEE MARKS(60)						Total Cos ATTAINMENT					% of individual CO				
USN	CO1	CO2	TOTAL	CO2	CO3	TOTAL	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	CO1=12	CO2	CO3	CO4	CO5	TOTAL	CO1=34	CO2=44	CO3=34	CO4=34	CO5=34	CO1	CO2	CO3	CO4	CO5
1SV20ME001	9	11	20	14	14	28	15	15	30	2	2	2	2	2	5.6	5.6	5.6	5.6	5.6	28	16.6	32.6	21.6	22.6	22.6	49%	74%	64%	66%	66%
1SV20ME002	13	6	19	15	15	30	15	15	30	2	2	2	2	2	5	5	5	5	5	25	20	28	22	22	22	59%	64%	65%	65%	65%
1SV20ME003	9	8	17	15	15	30	15	15	30	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	21	15.2	29.2	21.2	21.2	21.2	45%	66%	62%	62%	62%
1SV20ME004	11	15	26	15	12	27	15	15	30	2	2	2	2	2	4.6	4.6	4.6	4.6	4.6	23	17.6	36.6	18.6	21.6	21.6	52%	83%	55%	64%	64%
1SV20ME005	7	8	15	13	14	27	15	15	30	2	2	2	2	2	5.4	5.4	5.4	5.4	5.4	27	14.4	28.4	21.4	22.4	22.4	42%	65%	63%	66%	66%
1SV20ME006	12	8	20	15	14	29	15	15	30	2	2	2	2	2	3.2	3.2	3.2	3.2	3.2	16	17.2	28.2	19.2	20.2	20.2	51%	64%	56%	59%	59%
1SV20ME007	7	5	12	15	12	27	12	8	20	2	2	2	2	2	2.2	2.2	2.2	2.2	2.2	11	11.2	24.2	16.2	16.2	12.2	33%	55%	48%	48%	36%
1SV20ME008	14	15	29	15	15	30	15	15	30	2	2	2	2	2	5.8	5.8	5.8	5.8	5.8	29	21.8	37.8	22.8	22.8	22.8	64%	86%	67%	67%	67%
1SV20ME009	14	8	22	15	15	30	15	15	30	2	2	2	2	2	7	7	7	7	7	35	23	32	24	24	24	68%	73%	71%	71%	71%
1SV21ME400	12	8	20	15	12	27	12	15	27	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	21	18.2	29.2	18.2	18.2	21.2	54%	66%	54%	54%	62%
1SV21ME401	14	13	27	15	13	28	15	15	30	2	2	2	2	2	7	7	7	7	7	35	23	37	22	24	24	68%	84%	65%	71%	71%
1SV21ME402	12	14	26	15	13	28	15	15	30	2	2	2	2	2	5	5	5	5	5	25	19	36	20	22	22	56%	82%	59%	65%	65%
TOTAL	134	119	253	177	164	341	174	173	347	24	24	24	24	24	59.2	59.2	59.2	59.2	59.2	296	217.2	379.2	247.2	257.2	256.2	6.39	8.62	7.27	7.56	7.54
NO OF STUDENT	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
AVERAGE	11.2	9.92	21.08	14.8	13.7	28.4	14.5	14	28.92	2	2	2	2	2	4.93	4.93	4.93	4.93	4.93	24.67	18.10	31.60	20.60	21.43	21.35	53.24	71.82	60.59	63.04	62.79
Total																										53%	72%	61%	63%	63%

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SIRA ROAD, TUMKUR- 572 106.

DEPARTMENT OF ME

SUBJECT	OPERATION MANAGMENT	SUBJECT CODE	18ME56

COURSE OUTCOME

CO1	Understand the selection, prioritization and initiation of individual projects and strategic role of project management.
CO2	Understand the work breakdown structure by integrating it with organization.
CO3	Understand the activities like purchasing, acquisitions, contracting, partnering and collaborations related to performing projects.
CO4	Determine project progress and results through balanced scorecard approach
CO5	Draw the network diagram to calculate the duration of the project and reduce it using crashing.

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 modelling 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.

NAME OF THE COLLEGE		SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY, TUMAKURU			
FACULTY NAME		Prof. Santosh			
BRANCH		MECHANICAL	ACADEMIC YEAR		2022-23
COURSE	B.E	SEMESTER	V	SECTION	-
SUBJECT	OPERATION MANAGMENT		SUBJECT CODE		18ME56

CO & PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	1	1	1	-	2	3	1	1	1	1	2
CO2	3	2	1	2	-	1	1	1	1	1	-	2
CO3	3	2	1	1	1	2	2	1	1	1	1	2
CO4	3	1	1	1	-	2	3	1	1	1	1	2
CO5	3	1	1	1	1	2	2	1	1	1	1	2
AVERAGE	3	1.4	1	1.2	1	1.8	2.2	1	1	1	1	2
OVERALL MAPPING OF SUBJECT												1.52

CO AND PO ATTAINMENT

	CO %	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	58	2.2	0.73	0.73	0.73	-	1.47	2.2	0.73	0.73	0.73	0.73	1.47
CO2	69	1.96	1.31	0.65	1.31	-	0.65	0.65	0.65	0.65	0.65	-	1.31
CO3	65	1.43	0.95	0.48	0.48	0.48	0.95	0.95	0.48	0.48	0.48	0.48	0.95
CO4	58	1.58	0.53	0.53	0.53	-	1.05	1.58	0.53	0.53	0.53	0.53	1.05
CO5	62	1.42	0.47	0.47	0.47	0.47	0.95	0.95	0.47	0.47	0.47	0.47	0.95
AVERAGE	63	1.718	0.798	0.572	0.704	0.48	1.01	1.266	0.572	0.572	0.57	0.55	1.146
FINAL ATTAINMENT LEVEL													0.83

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ademic year	2022-23			SEM: V			Total strength			12		Subject	Operations Management			Subject Code	18ME56									
SEM:V	IA TEST 1(30M)			IA TEST 2(30M)			IA TEST 3(30M)			ASSIGNEMENT / QUIZ(10 M)					SEE MARKS(60)						Total Cos ATTAINMENT					% of individual CO				
USN	CO1	CO2	TOTAL	CO2	CO3	TOTAL	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	CO1=12	CO2	CO3	CO4	CO5	TOTAL	CO1=34	CO2=44	CO3=34	CO4=34	CO5=34	CO1	CO2	CO3	CO4	CO5
1V20ME001	11	13	24	12	16	28	12	14	26	2	2	2	2	2	5.8	5.8	5.8	5.8	5.8	29	18.8	32.8	23.8	19.8	21.8	55%	75%	70%	58%	64%
1V20ME002	10	15	25	11	16	27	11	15	26	2	2	2	2	2	6.6	6.6	6.6	6.6	6.6	33	18.6	34.6	24.6	19.6	23.6	55%	79%	72%	58%	69%
1V20ME003	13	8	21	9	16	25	9	14	23	2	2	2	2	2	5.2	5.2	5.2	5.2	5.2	26	20.2	24.2	23.2	16.2	21.2	59%	55%	68%	48%	62%
1V20ME004	12	14	26	10	17	27	12	13	25	2	2	2	2	2	7.8	7.8	7.8	7.8	7.8	39	21.8	33.8	26.8	21.8	22.8	64%	77%	79%	64%	67%
1V20ME005	11	9	20	11	7	18	11	8	19	2	2	2	2	2	0	0	0	0	0	0	13	22	9	13	10	38%	50%	26%	38%	29%
1V20ME006	8	12	20	12	12	24	10	18	28	2	2	2	2	2	7.4	7.4	7.4	7.4	7.4	37	17.4	33.4	21.4	19.4	27.4	51%	76%	63%	57%	81%
1V20ME007	13	9	22	11	13	24	15	8	23	2	2	2	2	2	4.4	4.4	4.4	4.4	4.4	22	19.4	26.4	19.4	21.4	14.4	57%	60%	57%	63%	42%
1V20ME008	11	8	19	10	15	25	12	16	28	2	2	2	2	2	7.8	7.8	7.8	7.8	7.8	39	20.8	27.8	24.8	21.8	25.8	61%	63%	73%	64%	76%
1V20ME009	9	21	30	11	17	28	12	17	29	2	2	2	2	2	7.8	7.8	7.8	7.8	7.8	39	18.8	41.8	26.8	21.8	26.8	55%	95%	79%	64%	79%
1V21ME400	12	11	23	12	15	27	11	14	25	2	2	2	2	2	7.6	7.6	7.6	7.6	7.6	38	21.6	32.6	24.6	20.6	23.6	64%	74%	72%	61%	69%
1V21ME401	11	11	22	11	7	18	14	6	20	2	2	2	2	2	5.2	5.2	5.2	5.2	5.2	26	18.2	29.2	14.2	21.2	13.2	54%	66%	42%	62%	39%
1V21ME402	16	8	24	10	16	26	11	14	25	2	2	2	2	2	8.2	8.2	8.2	8.2	8.2	41	26.2	28.2	26.2	21.2	24.2	77%	64%	77%	62%	71%
TOTAL	137	139	276	130	167	297	140	157	297	24	24	24	24	24	73.8	73.8	73.8	73.8	73.8	369	234.8	366.8	264.8	237.8	254.8	6.91	8.34	7.79	6.99	7.49
of Students	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Average	11.4	11.6	23	10.8	13.9	24.8	11.7	13	24.75	2	2	2	2	2	6.15	6.15	6.15	6.15	6.15	30.75	19.57	30.57	22.07	19.82	21.23	57.55	69.47	64.90	58.28	62.45
Total																										58%	69%	65%	58%	62%

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

DEPARTMENT OF ME

SUBJECT	ENERGY ENGINEERING	SUBJECT CODE	18ME81

COURSE OUTCOME

CO1	Understand the construction and working of steam generators and their accessories.
CO2	Identify renewable energy sources and their utilization.
CO3	Understand principles of energy conversion
CO4	Understand principles of energy conversion from alternate sources including wind, geothermal,
CO5	Understand principles of energy conversion from alternate sources ocean, biomass, nuclear, hydel and tidal.

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 modelling 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.

NAME OF THE COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY, TUMAKURU											
FACULTY NAME	Prof. K.P. Chandraiah											
BRANCH	MECHANICAL			ACADEMIC YEAR			2022-23					
COURSE	B.E	SEMESTER		VIII	SECTION		-					
SUBJECT	ENERGY ENGINEERING					SUBJECT CODE	18ME81					
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	1	1	1	1	-	2	3	1	1	1	1	2
CO2	2	2	1	2	-	1	1	1	1	1	-	2
CO3	1	2	1	1	1	2	2	1	1	1	1	2
CO4	2	1	1	1	-	2	3	1	1	1	1	2
CO5	2	1	1	1	1	2	2	1	1	1	1	2
AVERAGE	1.6	1.4	1	1.2	1	1.8	2.2	1	1	1	1	2
OVERALL MAPPING OF SUBJECT												1.35

CO AND PO ATTAINMENT

	CO %	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO1	60	1.8	0.6	0.6	0.6	-	1.2	1.8	0.6	0.6	0.6	0.6	1.2
CO2	65	1.95	1.3	0.65	1.31	-	0.65	0.65	0.65	0.65	0.65	-	1.3
CO3	47	1.41	0.94	0.47	0.48	0.47	0.94	0.94	0.47	0.47	0.47	0.47	0.94
CO4	64	1.92	0.64	0.64	0.53	-	1.28	1.92	0.64	0.64	0.64	0.64	1.28
CO5	43	1.29	0.43	0.43	0.47	0.47	0.86	0.86	0.43	0.43	0.43	0.43	0.86
AVERAGE	55.8	1.67	0.78	0.56	0.68	0.47	0.99	1.23	0.56	0.56	0.56	0.54	1.12
Final attainment level													0.81

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Academic year	2022-23			SEM	VIII		Total strength			19		Subject	Energy Engineering					Subject Code	18ME81										
SEM: VIII	IA TEST 1(30M)			IA TEST 2(30M)			IA TEST 3(30M)			ASSIGNEMENT / QUIZ(10 M					SEE MARKS(60)						Total Cos ATTAINMENT					% of individual CO				
USN	CO1	CO2	TOTAL	CO2	CO3	TOTAL	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	CO1=12	CO2	CO3	CO4	CO5	TOTAL	CO1=34	CO2=34	CO3=34	CO4=34	CO5=34	CO1	CO2	CO3	CO4	CO5
1SV17ME005	12	3	15	14	0	14	12	3	15	2	2	2	2	2	4.8	0.8	0.8	0.8	0.8	24	18.8	19.8	2.8	14.8	5.8	55%	45%	8%	44%	17%
1SV18ME003	16	10	26	18	7	25	16	10	26	2	2	2	2	2	8.4	6.4	6.4	6.4	6.4	42	26.4	36.4	15.4	24.4	18.4	78%	83%	45%	72%	54%
1SV18ME008	11	14	25	19	5	24	18	7	25	2	2	2	2	2	7.8	4.8	4.8	4.8	4.8	39	20.8	39.8	11.8	24.8	13.8	61%	90%	35%	73%	41%
1SV18ME010	14	15	29	17	12	29	11	17	28	2	2	2	2	2	7	7.2	7.2	7.2	7.2	35	23	41.2	21.2	20.2	26.2	68%	94%	62%	59%	77%
1SV18ME011	12	8	20	12	7	19	18	2	20	2	2	2	2	2	1.2	1.8	1.8	1.8	1.8	6	15.2	23.8	10.8	21.8	5.8	45%	54%	32%	64%	17%
1SV18ME012	11	10	21	15	4	19	13	8	21	2	2	2	2	2	6.4	4.8	4.8	4.8	4.8	32	19.4	31.8	10.8	19.8	14.8	57%	72%	32%	58%	44%
1SV18ME013	17	12	29	14	14	28	15	14	29	2	2	2	2	2	5.8	5.8	5.8	5.8	5.8	29	24.8	33.8	21.8	22.8	21.8	73%	77%	64%	67%	64%
1SV19ME001	15	12	27	9	18	27	17	9	26	2	2	2	2	2	7	4.8	4.8	4.8	4.8	35	24	27.8	24.8	23.8	15.8	71%	63%	73%	70%	46%
1SV19ME002	14	15	29	10	19	29	12	16	28	2	2	2	2	2	6	6.4	6.4	6.4	6.4	30	22	33.4	27.4	20.4	24.4	65%	76%	81%	60%	72%
1SV19ME005	11	9	20	11	9	20	11	8	19	2	2	2	2	2	5.2	1.6	1.6	1.6	1.6	26	18.2	23.6	12.6	14.6	11.6	54%	54%	37%	43%	34%
1SV19ME006	17	2	19	13	7	20	18	2	20	2	2	2	2	2	4.2	22	22	22	22	21	23.2	39	31	42	26	68%	89%	91%	124%	76%
1SV19ME010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0%	0%	0%	0%	0%
1SV19ME011	16	5	21	11	11	22	13	9	22	2	2	2	2	2	7	8.2	8.2	8.2	8.2	35	25	26.2	21.2	23.2	19.2	74%	60%	62%	68%	56%
1SV19ME013	13	4	17	12	6	18	19	-1	18	2	2	2	2	2	8.8	1.6	1.6	1.6	1.6	44	23.8	19.6	9.6	22.6	2.6	70%	45%	28%	66%	8%
1SV19ME014	11	6	17	19	-1	18	15	3	18	2	2	2	2	2	6.6	6.6	6.6	6.6	6.6	33	19.6	33.6	7.6	23.6	11.6	58%	76%	22%	69%	34%
1SV19ME015	18	-3	15	10	6	16	17	-1	16	2	2	2	2	2	7.6	6	6	6	6	38	27.6	15	14	25	7	81%	34%	41%	74%	21%
1SV20ME400	9	16	25	11	15	26	13	13	26	2	2	2	2	2	7.6	4.2	4.2	4.2	4.2	38	18.6	33.2	21.2	19.2	19.2	55%	75%	62%	56%	56%
1SV20ME402	10	9	19	14	6	20	13	7	20	2	2	2	2	2	6.6	4.2	4.2	4.2	4.2	33	18.6	29.2	12.2	19.2	13.2	55%	66%	36%	56%	39%
1SV20ME403	12	14	26	12	15	27	17	10	27	2	2	2	2	2	7.8	9.2	9.2	9.2	9.2	39	21.8	37.2	26.2	28.2	21.2	64%	85%	77%	83%	62%
TOTAL	239	161	400	241	160	401	268	136	404	36	36	36	36	36	115.8	106.4	106.4	106.4	106.4	579	390.8	544.4	302.4	410.4	278.4	11.49	12.37	8.89	12.07	8.19
No of Students	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
Average	12.6	8.5	21.05	12.7	8.42	21.1	14.11	7.16	21.3	1.89	1.895	1.89	1.89	1.89	6.09	5.60	5.60	5.60	5.60	30.47	20.6	28.7	15.9	21.6	14.7	60.5	65.1	46.8	63.5	43.1
Total																										60%	65%	47%	64%	43%

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SIRA ROAD, TUMKUR- 572 106.

DEPARTMENT OF ME

SUBJECT	AUTOMOBILE ENGINEERING	SUBJECT CODE	18ME824

COURSE OUTCOME

CO1	To identify the different parts of an automobile and it's working
CO2	To understand the working of transmission and braking systems.
CO3	To comprehend the working of steering and suspension systems
CO4	To learn various types of fuels and injection systems
CO5	To know the cause of automobile emissions, its effects on environment and methods to reduce the emissions.

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 modelling 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.

NAME OF THE COLLEGE		SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY, TUMAKURU			
FACULTY NAME		Prof. Ravikumar K R			
BRANCH		MECHANICAL	ACADEMIC YEAR		2022-23
COURSE	B.E	SEMESTER	VIII	SECTION	-
SUBJECT	AUTOMOBILE ENGINEERING			SUBJECT CODE	18ME824

CO & PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	1	1	1	1	-	2	3	1	1	1	1	2
CO2	2	2	1	2	-	1	1	1	1	1	-	2
CO3	1	2	1	1	1	2	2	1	1	1	1	2
CO4	2	1	1	1	-	2	3	1	1	1	1	2
CO5	2	1	1	1	1	2	2	1	1	1	1	2
AVERAGE	1.6	1.4	1	1.2	1	1.8	2.2	1	1	1	1	2
											OVERALL MAPPING OF SUBJECT	1.35

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	60	0.6	0.6	0.6	0.6	-	1.2	1.8	0.6	0.6	0.6	0.6	1.2
CO2	74	1.48	1.48	0.74	1.31	-	0.74	0.74	0.74	0.74	0.74	-	1.48
CO3	50	0.5	1	0.5	0.48	0.5	1	1	0.5	0.5	0.5	0.5	1
CO4	63	1.26	0.63	0.63	0.53	-	1.26	1.89	0.63	0.63	0.63	0.63	1.26
CO5	50	1	0.5	0.5	0.47	0.47	1	1	0.5	0.5	0.5	0.5	1
AVERAGE	59.4	0.97	0.84	0.59	0.68	0.49	1.04	1.29	0.59	0.59	0.59	0.56	1.19
												Final attainment level	0.79

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Academic year	2022-23			SEM	VIII		Total strength			19		Subject	Automobile Engineering				Subject Code	18ME824									
SEM: VIII	IA TEST 1(30M)			IA TEST 2(30M)			IA TEST 3(30M)			ASSIGNEMENT / QUIZ(10 M)					SEE MARKS(60)						Total Cos ATTAINMENT					% of individual CO				
USN	CO1	CO2	TOTAL	CO2	CO3	TOTAL	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	CO1=12	CO2	CO3	CO4	CO5	TOTAL	CO1=34	CO2=44	CO3=34	CO4=34	CO5=34	CO1	CO2	CO3	CO4	CO5
1SV17ME005	6	18	24	12	10	22	13	-13	0	2	2	2	2	2	4.2	5.6	5.6	5.6	5.6	21	12.2	37.6	17.6	20.6	-5.4	36%	85%	52%	61%	16%
1SV18ME003	11	16	27	13	10	23	12	11	23	2	2	2	2	2	7.6	9.4	9.4	9.4	9.4	38	20.6	40.4	21.4	23.4	22.4	61%	92%	63%	69%	66%
1SV18ME008	15	11	26	14	10	24	11	11	22	2	2	2	2	2	6.4	6	6	6	6	32	23.4	33	18	19	19	69%	75%	53%	56%	56%
1SV18ME010	13	16	29	19	9	28	11	17	28	2	2	2	2	2	4.8	4.8	4.8	4.8	4.8	24	19.8	41.8	15.8	17.8	23.8	58%	95%	46%	52%	70%
1SV18ME011	14	11	25	11	12	23	18	4	22	2	2	2	2	2	2.4	4.2	4.2	4.2	4.2	12	18.4	28.2	18.2	24.2	10.2	54%	64%	54%	71%	30%
1SV18ME012	13	12	25	13	11	24	15	7	22	2	2	2	2	2	1.6	5.8	5.8	5.8	5.8	8	16.6	32.8	18.8	22.8	14.8	49%	75%	55%	67%	44%
1SV18ME015	11	18	29	18	11	29	14	14	28	2	2	2	2	2	4.2	4.8	4.8	4.8	4.8	21	17.2	42.8	17.8	20.8	20.8	51%	97%	52%	61%	61%
1SV19ME001	19	10	29	16	10	26	13	14	27	2	2	2	2	2	4.2	5.6	5.6	5.6	5.6	21	25.2	33.6	17.6	20.6	21.6	74%	76%	52%	61%	64%
1SV19ME002	13	16	29	12	16	28	11	17	28	2	2	2	2	2	5.2	5.8	5.8	5.8	5.8	26	20.2	35.8	23.8	18.8	24.8	59%	81%	70%	55%	73%
1SV19ME005	12	11	23	9	13	22	15	6	21	2	2	2	2	2	4.6	4.8	4.8	4.8	4.8	23	18.6	26.8	19.8	21.8	12.8	55%	61%	58%	64%	38%
1SV19ME006	16	12	28	11	-6	5	17	9	26	2	2	2	2	2	6.6	8	8	8	8	33	24.6	33	4	27	19	72%	75%	12%	79%	56%
1SV19ME010	14	9	23	12	9	21	12	10	22	2	2	2	2	2	6.6	6.6	6.6	6.6	6.6	33	22.6	29.6	17.6	20.6	18.6	66%	67%	52%	61%	55%
1SV19ME011	13	13	26	17	5	22	15	10	25	2	2	2	2	2	7	6.4	6.4	6.4	6.4	35	22	38.4	13.4	23.4	18.4	65%	87%	39%	69%	54%
1SV19ME013	17	4	21	12	10	22	14	7	21	2	2	2	2	2	4.2	2.4	2.4	2.4	2.4	21	23.2	20.4	14.4	18.4	11.4	68%	46%	42%	54%	34%
1SV19ME014	14	7	21	11	8	19	13	7	20	2	2	2	2	2	3	6.4	6.4	6.4	6.4	15	19	26.4	16.4	21.4	15.4	56%	60%	48%	63%	45%
1SV19ME015	15	6	21	16	4	20	14	6	20	2	2	2	2	2	4.2	5	5	5	5	21	21.2	29	11	21	13	62%	66%	32%	62%	38%
1SV20ME400	13	14	27	13	13	26	16	9	25	2	2	2	2	2	9.6	6	6	6	6	48	24.6	35	21	24	17	72%	80%	62%	71%	50%
1SV20ME402	14	2	16	12	6	18	14	6	20	2	2	2	2	2	4.2	5.2	5.2	5.2	5.2	21	20.2	21.2	13.2	21.2	13.2	59%	48%	39%	62%	39%
1SV20ME403	13	13	26	12	17	29	15	13	28	2	2	2	2	2	5.8	5.4	5.4	5.4	5.4	29	20.8	32.4	24.4	22.4	20.4	61%	74%	72%	66%	60%
TOTAL	256	219	475	253	178	431	263	165	428	38	38	38	38	38	96.4	108.2	108.2	108.2	108.2	482	390.4	618.2	324.2	409.2	311.2	11.48	14.05	9.54	12.04	9.47
No of Students	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
Average	13.5	11.5	25.00	13.3	9.37	22.7	13.8	8.7	22.53	2	2	2	2	2	5.07	5.69	5.69	5.69	5.69	25.37	20.55	32.54	17.06	21.54	16.38	60.43	73.95	50.19	63.34	49.85
Total																										60%	74%	50%	63%	50%

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SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

DEPARTMENT OF ME

SUBJECT	FINITE ELEMENT METHOD	SUBJECT CODE	18ME61

COURSE OUTCOME

CO1	Identify the application and characteristics of FEA elements such as bars, beams, plane and isoparametric elements.
CO2	Develop element characteristic equation and generation of global equation.
CO3	Formulate and solve Axi-symmetric and heat transfer problems.
CO4	Apply suitable boundary conditions to a global equation for bars, trusses, beams
CO5	Apply suitable boundary conditions to a global equation circular shafts, heat transfer, fluid flow, axi-symmetric and dynamic problems

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 modelling 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.

NAME OF THE COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY, TUMAKURU											
FACULTY NAME	Prof. Thara											
BRANCH	MECHANICAL			ACADEMIC YEAR			2022-23					
COURSE	B.E	SEMESTER		VI	SECTION		-					
SUBJECT	FINITE ELEMENT METHOD					SUBJECT CODE	18ME61					
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	2	1	1	-	2	3	1	1	1	1	2
CO2	3	2	1	2	-	1	1	1	1	1	-	2
CO3	3	2	1	1	1	2	2	1	1	1	1	2
CO4	3	2	1	1	-	2	3	1	1	1	1	2
CO5	3	2	1	1	1	2	2	1	1	1	1	2
AVERAGE	3	1.6	1	1.2	1	1.8	2.2	1	1	1	1	2
											OVERALL MAPPING OF SUBJECT	1.52

CO AND PO ATTAINMENT

	CO %	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO10	PO11	PO12
CO1	37	1.11	0.74	0.37	0.37	-	0.74	1.11	0.37	0.37	0.37	0.37	0.74
CO2	49	1.47	0.98	0.49	1.31	-	0.49	0.49	0.49	0.49	0.49	-	0.98
CO3	44	1.32	0.88	0.44	0.48	0.44	0.88	0.88	0.44	0.44	0.44	0.44	0.88
CO4	46	1.38	0.92	0.46	0.53	-	0.92	1.38	0.46	0.46	0.46	0.46	0.92
CO5	47	1.41	0.94	0.47	0.47	0.47	0.94	0.94	0.47	0.47	0.47	0.47	0.94
AVERAGE	44.6	1.34	0.89	0.45	0.63	0.46	0.79	0.96	0.45	0.45	0.45	0.44	0.89
												Final attainment level	0.68

Thara
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Academic year	2022-23			SEM	V		Total strength			83		Subject	finite Element Method			Subject Code	18ME61									
SEM:V	IA TEST 1(30M)			IA TEST 2(30M)			IA TEST 3(30M)			ASSIGNEMENT / QUIZ(10 M)					SEE MARKS(60)						Total Cos ATTAINMENT					% of individual CO				
USN	CO1	CO2	TOTAL	CO2	CO3	TOTAL	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	CO1=12	CO2	CO3	CO4	CO5	Total	CO1=29	CO2=44	CO3=29	CO4=29	CO5=29	CO1	CO2	CO3	CO4	CO5
1SV20ME001	7	7	29	10	13	22	10	13	28	2	2	2	2	2	5.2	5.4	5.4	5.4	5.4	26	14	24	20.4	17.4	20.4	42%	55%	60%	51%	60%
1SV20ME002	7	7	29	7	8	22	8	9	30	2	2	2	2	2	8.8	5.6	5.6	5.6	5.6	44	18	22	15.6	15.6	16.6	52%	49%	46%	46%	49%
1SV20ME003	5	5	28	11	11	22	10	13	28	2	2	2	2	2	2.6	2.8	2.8	2.8	2.8	13	10	21	15.8	14.8	17.8	28%	47%	46%	44%	52%
1SV20ME004	7	7	19	10	9	22	8	7	22	2	2	2	2	2	4.2	4.4	4.4	4.4	4.4	21	13	23	15.4	14.4	13.4	39%	53%	45%	42%	39%
1SV20ME005	4	3	22	7	8	22	8	7	30	2	2	2	2	2	0	0.6	0.6	0.6	0.6	0	6	13	10.6	10.6	9.6	18%	29%	31%	31%	28%
1SV20ME006	7	7	22	8	9	22	8	9	29	2	2	2	2	2	1.8	0.4	0.4	0.4	0.4	9	11	17	11.4	10.4	11.4	32%	40%	34%	31%	34%
1SV20ME007	0	0	27	13	14	22	13	13	29	2	2	2	2	2	1.2	0	0	0	0	6	3	15	16	15	15	9%	34%	47%	44%	44%
1SV20ME008	7	6	29	7	8	22	10	9	29	2	2	2	2	2	0	0.2	0.2	0.2	0.2	0	9	15	10.2	12.2	11.2	26%	35%	30%	36%	33%
1SV20ME009	14	14	22	14	14	22	14	14	30	2	2	2	2	2	6.6	5.2	5.2	5.2	5.2	33	23	35	21.2	21.2	21.2	66%	80%	62%	62%	62%
1SV21ME400	7	7	27	0	0	22	10	11	0	2	2	2	2	2	4.6	4.2	4.2	4.2	4.2	23	14	13	6.2	16.2	17.2	40%	30%	18%	48%	51%
1SV21ME401	10	11	21	14	13	22	15	14	28	2	2	2	2	2	4.2	1.8	1.8	1.8	1.8	21	16	29	16.8	18.8	17.8	48%	65%	49%	55%	52%
1SV21ME402	8	9	24	15	15	22	15	15	28	2	2	2	2	2	4.6	4.6	4.6	4.6	4.6	23	15	31	21.6	21.6	21.6	43%	70%	64%	64%	64%
TOTAL	83	83	299	116	122	264	129	134	311	24	24	24	24	24	43.8	35.2	35.2	35.2	35.2	219	151	258	181.2	188.2	193.2	4.44	5.87	5.33	5.54	5.68
No of Students	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Average	6.92	6.92	24.92	9.67	10.2	22	10.8	11	25.92	2	2	2	2	2	3.65	2.93	2.93	2.93	2.93	18.25	12.5667	21.52	15.1	15.68	16.1	36.96	48.90	44.41	46.13	47.35
Total																										37%	49%	44%	46%	47%

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

DEPARTMENT OF ME

SUBJECT	DESIGN OF MACHINE ELEMENTS – II	SUBJECT CODE	18ME62

COURSE OUTCOME

CO1	Apply the concepts of selection of materials for given mechanical components.
CO2	List the functions and uses of machine elements used in mechanical systems.
CO3	Apply codes and standards in the design of machine elements and select an element based on the Manufacturer's catalogue.
CO4	Analyze the performance and failure modes of mechanical components subjected to combined loading and fatigue loading using the concepts of theories of failure.
CO5	Demonstrate the application of engineering design tools to the design of machine components like shafts, couplings, power screws, fasteners, welded and riveted joints.

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 modelling 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: recognition of the need for, and an ability to engage in, to resolve Contemporary issues and acquire lifelong learning.

NAME OF THE COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY, TUMAKURU											
FACULTY NAME	DR. NARENDRA VISWANATH											
BRANCH	MECHANICAL			ACADEMIC YEAR			2022-23					
COURSE	B.E	SEMESTER	VI	SECTION	-							
SUBJECT	DESIGN OF MACHINE ELEMENTS-11			SUBJECT CODE	18ME62							
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	1	1	1	1	1	2	3	1	1	1	1	2
CO2	3	2	1	1	1	1	1	1	1	1	-	2
CO3	3	2	1	1	1	2	2	1	1	1	1	2
CO4	3	1	1	1	-	2	3	1	1	1	1	2
CO5	3	1	1	1	1	2	2	1	1	1	1	2
AVERAGE	2.6	1.4	1	1.2	1	1.8	2.2	1	1	1	1	2
OVERALL MAPPING OF SUBJECT												1.4

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	51	0.51	0.51	0.51	0.51	0.51	1.02	1.53	0.51	0.51	0.51	0.51	1.02
CO2	60	1.8	1.20	0.6	1.2	0.6	0.6	0.6	0.6	0.6	0.6	-	1.2
CO3	48	1.44	0.96	0.48	0.48	0.48	0.96	0.96	0.48	0.48	0.48	0.48	0.96
CO4	56	1.68	0.56	0.56	0.56	0.56	1.12	1.68	0.56	0.56	0.56	0.56	1.12
CO5	43	1.29	0.43	0.43	0.43	0.43	0.86	0.86	0.43	0.43	0.43	0.43	0.86
AVERAGE	51.6	1.344	0.732	0.516	0.636	0.516	0.912	1.126	0.516	0.516	0.516	0.495	1.03
Final attainment level													0.74

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Academic year	2022-23			SEM	V		Total strength			12		Subject	Design of Machine Elements			Subject Code		18ME62												
SEM:V	IA TEST 1(30M)			IA TEST 2(30M)			IA TEST 3(30M)			ASSIGNEMENT / QUIZ(10 M)						SEE MARKS(60)						Total Cos ATTAINMENT					% of individual CO				
USN	CO1	CO2	TOTAL	CO2	CO3	TOTAL	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	O1=	CO2	CO3	CO4	CO5	TOTAL	CO1=34	CO2=44	CO3=34	CO4=34	CO5=34	CO1	CO2	CO3	CO4	CO5
1SV20ME001	12	11	23	12	13	25	13	14	27	2	2	2	2	2	2.4	2.4	2.4	2.4	2.4	12	16.4	27.4	17.4	17.4	18.4	48%	62%	51%	51%	54%
1SV20ME002	11	17	28	14	15	29	15	15	30	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	21	17.2	37.2	21.2	21.2	21.2	51%	85%	62%	62%	62%
1SV20ME003	13	7	20	16	10	26	14	9	23	2	2	2	2	2	8.8	8.8	8.8	8.8	8.8	44	23.8	33.8	20.8	24.8	19.8	70%	77%	61%	73%	58%
1SV20ME004	13	5	18	12	10	22	12	8	20	2	2	2	2	2	2.4	2.4	2.4	2.4	2.4	12	17.4	21.4	14.4	16.4	12.4	51%	49%	42%	48%	36%
1SV20ME005	12	6	18	11	12	23	11	11	22	2	2	2	2	2	0	0	0	0	0	0	14	19	14	13	13	41%	43%	41%	38%	38%
1SV20ME006	12	12	24	14	10	24	16	11	27	2	2	2	2	2	2.8	2.8	2.8	2.8	2.8	14	16.8	30.8	14.8	20.8	15.8	49%	70%	44%	61%	46%
1SV20ME007	9	2	11	7	6	13	12	0	12	2	2	2	2	2	2.4	2.4	2.4	2.4	2.4	12	13.4	13.4	10.4	16.4	4.4	39%	30%	31%	48%	13%
1SV20ME008	13	11	24	13	10	23	15	7	22	2	2	2	2	2	4.4	4.4	4.4	4.4	4.4	22	19.4	30.4	16.4	21.4	13.4	57%	69%	48%	63%	39%
1SV20ME009	15	15	30	16	14	30	12	18	30	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	21	21.2	37.2	20.2	18.2	24.2	62%	85%	59%	54%	71%
1SV21ME400	11	6	17	12	12	24	17	5	22	2	2	2	2	2	5	5	5	5	5	25	18	25	19	24	12	53%	57%	56%	71%	35%
1SV21ME401	7	4	11	5	5	10	11	1	12	2	2	2	2	2	2.4	2.4	2.4	2.4	2.4	12	11.4	13.4	9.4	15.4	5.4	34%	30%	28%	45%	16%
1SV21ME402	12	8	20	13	11	24	14	8	22	2	2	2	2	2	5.2	5.2	5.2	5.2	5.2	26	19.2	28.2	18.2	21.2	15.2	56%	64%	54%	62%	45%
TOTAL	140	104	244	145	128	273	162	107	269	24	24	24	24	24	44	44.2	44.2	44.2	44.2	221	208.2	317.2	196.2	230.2	175.2	6.12	7.21	5.77	6.77	5.15
No of Students	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Average	11.67	8.667	20.33	12.08	10.67	22.75	13.5	8.92	22.42	2	2	2	2	2	3.68	3.68	3.68	3.68	3.68	18.417	17.35	26.43	16.35	19.18	14.6	51.03	60.08	48.09	56.42	42.94
Total																										51%	60%	48%	56%	43%

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SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

DEPARTMENT OF ME

SUBJECT	HEAT TRANSFER	SUBJECT CODE	18ME63

COURSE OUTCOME

CO1	Understand the modes of heat transfer and apply the basic laws to formulate engineering systems.
CO2	Understand and apply the basic laws of heat transfer to extended surface, composite material and unsteady state heat transfer problems.
CO3	Analyze heat conduction through numerical methods and apply the fundamental principle to solve radiation heat transfer problems.
CO4	Analyze heat transfer due to free and forced convective heat transfer.
CO5	Understand the design and performance analysis of heat exchangers and their practical applications, Condensation and Boiling phenomena.

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 modelling 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.

NAME OF THE COLLEGE		SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY, TUMAKURU			
FACULTY NAME		Prof. Thara			
BRANCH		MECHANICAL	ACADEMIC YEAR		2022-23
COURSE	B.E	SEMESTER	VI	SECTION	-
SUBJECT	HEAT TRANSFER		SUBJECT CODE		18ME63

CO & PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	1	1	1	-	2	3	1	1	1	1	2
CO2	3	2	1	2	-	1	1	1	1	1	-	2
CO3	3	2	1	1	1	2	2	1	1	1	1	2
CO4	3	1	1	1	-	2	3	1	1	1	1	2
CO5	3	1	1	1	1	2	2	1	1	1	1	2
AVERAGE	3	1.4	1	1.2	1	1.8	2.2	1	1	1	1	2
OVERALL MAPPING OF SUBJECT												1.52

CO AND PO ATTAINMENT

	CO %	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	53	2.2	0.73	0.73	0.73	-	1.47	2.2	0.73	0.73	0.73	0.73	1.47
CO2	69	1.96	1.31	0.65	1.31	-	0.65	0.65	0.65	0.65	0.65	-	1.31
CO3	60	1.43	0.95	0.48	0.48	0.48	0.95	0.95	0.48	0.48	0.48	0.48	0.95
CO4	65	1.58	0.53	0.53	0.53	-	1.05	1.58	0.53	0.53	0.53	0.53	1.05
CO5	64	1.42	0.47	0.47	0.47	0.47	0.95	0.95	0.47	0.47	0.47	0.47	0.95
AVERAGE	62.2	1.718	0.798	0.572	0.704	0.48	1.01	1.266	0.572	0.572	0.57	0.55	1.146
FINAL ATTAINMENT LEVEL													0.83

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Academic year	2022-23			SEM	VI		Total strength			83		Subject	Heat Transfer				Subject Code	18ME63										
SEM-V	IA TEST 1(30M)			IA TEST 2(30M)			IA TEST 3(30M)			ASSIGNEMENT / QUIZ(10 M)					SEE MARKS(60)						Total Cos ATTAINMENT					% of individual CO				
USN	CO1	CO2	TOTAL	CO2	CO3	TOTAL	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	CO1=12	CO2	CO3	CO4	CO5	Total	CO1=29	CO2=44	CO3=29	CO4=22	CO5=29	CO1	CO2	CO3	CO4	CO5
1SV20ME001	8	12	27	12	12	26	15	14	22	2	2	2	2	2	2	6	6	6	6	8	12	32	20	23	22	34%	72%	58%	66%	64%
1SV20ME002	14	15	25	8	15	28	15	14	24	2	2	2	2	2	5	6	6	6	6	27	21	31	23	23	22	63%	71%	69%	69%	66%
1SV20ME003	8	12	23	8	10	23	15	14	22	2	2	2	2	2	4	5	5	5	5	21	14	27	17	22	21	42%	60%	49%	64%	61%
1SV20ME004	13	15	18	12	8	28	15	15	23	2	2	2	2	2	5	5	5	5	5	27	20	34	15	22	22	60%	78%	45%	65%	65%
1SV20ME005	12	5	19	6	14	22	15	15	22	2	2	2	2	2	0	3	3	3	3	0	14	16	19	20	20	41%	36%	55%	58%	58%
1SV20ME006	14	14	23	8	15	19	15	12	22	2	2	2	2	2	2	5	5	5	5	9	18	29	22	22	19	52%	66%	65%	65%	56%
1SV20ME007	10	11	19	8	10	21	15	15	19	2	2	2	2	2	2	5	5	5	5	8	14	26	17	22	22	40%	59%	50%	65%	65%
1SV20ME008	13	15	22	12	15	22	14	14	19	2	2	2	2	2	6	9	9	9	9	29	21	38	26	25	25	61%	86%	76%	73%	73%
1SV20ME009	15	15	28	15	15	28	15	15	24	2	2	2	2	2	7	6	6	6	6	33	24	38	23	23	23	69%	86%	67%	67%	67%
1SV21ME400	12	13	22	12	13	24	15	15	14	2	2	2	2	2	1	6	6	6	6	7	15	33	21	23	23	45%	74%	61%	66%	66%
1SV21ME401	15	15	24	12	15	20	15	14	21	2	2	2	2	2	6	5	5	5	5	29	23	34	22	22	21	67%	78%	65%	65%	62%
1SV21ME402	12	14	25	7	15	29	15	15	23	2	2	2	2	2	7	4	4	4	4	35	21	27	21	21	21	62%	62%	62%	62%	62%
Total	146	156	275	120	157	290	179	172	255	24	24	24	24	24	47	64	64	64	64	233	217	364	245	267	260	6	8	7	8	8
No of Students	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Average	12	13	23	10	13	24	15	14	21	2	2	2	2	2	4	5	5	5	5	19	18	30	20	22	22	1	1	1	1	1
Total																										53%	69%	60%	65%	64%

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SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

DEPARTMENT OF ME

SUBJECT	NTM	SUBJECT CODE	18ME641

COURSE OUTCOME

CO1	Understand the compare traditional and non-traditional machining process and recognize the need for Non- traditional machining process.
CO2	Understand the constructional features, performance parameters, process characteristics, applications, advantages and limitations of USM, AJM and WJM.
CO3	Identify the need of Chemical and electro-chemical machining process along with the constructional features, process parameters, process characteristics, applications, advantages and limitations.
CO4	Understand the constructional feature of the equipment, process parameters, process characteristics, applications, advantages and limitations EDM & PAM.
CO5	Understand the LBM equipment, LBM parameters, and characteristics. EBM equipment and mechanism of metal removal, applications, advantages and limitations LBM & EBM.

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 modelling 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.

NAME OF THE COLLEGE		SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY, TUMAKURU			
FACULTY NAME		Prof. Ravikumar k r			
BRANCH		MECHANICAL	ACADEMIC YEAR		2022-23
COURSE	B.E	SEMESTER	VI	SECTION	-
SUBJECT	NTM		SUBJECT CODE		18ME641

CO & PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	2	1	1	-	2	3	1	1	1	1	2
CO2	3	2	1	2	-	1	1	1	1	1	-	2
CO3	3	2	1	1	1	2	2	1	1	1	1	2
CO4	3	2	1	1	-	2	3	1	1	1	1	2
CO5	3	2	1	1	1	2	2	1	1	1	1	2
AVERAGE	3	1.6	1	1.2	1	1.8	2.2	1	1	1	1	2
OVERALL MAPPING OF SUBJECT												1.52

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	52	1.86	1.24	0.62	0.6	-	1.24	1.86	0.62	0.62	0.62	0.62	1.24
CO2	49	1.98	1.32	0.66	1.3	-	0.66	0.66	0.66	0.66	0.66	-	1.32
CO3	46	1.47	0.98	0.49	0.5	0.49	0.98	0.98	0.49	0.49	0.49	0.49	0.98
CO4	46	1.89	1.26	0.63	0.6	-	1.26	1.89	0.63	0.63	0.63	0.63	1.26
CO5	42	1.44	0.96	0.48	0.5	0.48	0.96	0.96	0.48	0.48	0.48	0.48	0.96
AVERAGE	47	1.73	1.15	0.58	0.7	0.49	1.02	1.27	0.58	0.58	0.58	0.56	1.15
Final attainment level													0.86

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Academic year	2022-23			SEM:V			Total strength			12		Subject			NTM					Subject Code	18ME641									
SEM:V	IA TEST 1(30M)			IA TEST 2(30M)			IA TEST 3(30M)			ASSIGNEMENT / QUIZ(10 M)					SEE MARKS(60)						Total Cos ATTAINMENT					% of individual CO				
USN	CO1	CO2	TOTAL	CO2	CO3	TOTAL	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	CO1=12	CO2	CO3	CO4	CO5	TOTAL	CO1=34	CO2=44	CO3=34	CO4=34	CO5=34	CO1	CO2	CO3	CO4	CO5
1SV20ME001	13	12	25	12	11	23	11	10	21	2	2	2	2	2	8.4	2.4	2.4	2.4	2.4	42	23.4	28.4	15.4	15.4	14.4	69%	65%	45%	45%	42%
1SV20ME002	10	16	26	17	9	26	12	15	27	2	2	2	2	2	4.8	5.2	5.2	5.2	5.2	24	16.8	40.2	16.2	19.2	22.2	49%	91%	48%	56%	65%
1SV20ME003	7	15	22	13	10	23	15	9	24	2	2	2	2	2	6.4	1.6	1.6	1.6	1.6	32	15.4	31.6	13.6	18.6	12.6	45%	72%	40%	55%	37%
1SV20ME004	14	8	22	11	16	27	14	5	19	2	2	2	2	2	4.2	1.6	1.6	1.6	1.6	21	20.2	22.6	19.6	17.6	8.6	59%	51%	58%	52%	25%
1SV20ME005	7	15	22	12	10	22	7	16	23	2	2	2	2	2	4.8	0	0	0	0	24	13.8	29	12	9	18	41%	66%	35%	26%	53%
1SV20ME006	13	6	19	8	17	25	13	9	22	2	2	2	2	2	6	1	1	1	1	30	21	17	20	16	12	62%	39%	59%	47%	35%
1SV20ME007	13	9	22	14	4	18	12	9	21	2	2	2	2	2	5	0.8	0.8	0.8	0.8	25	20	25.8	6.8	14.8	11.8	59%	59%	20%	44%	35%
1SV20ME008	15	7	22	6	13	19	12	11	23	2	2	2	2	2	8.2	1.4	1.4	1.4	1.4	41	25.2	16.4	16.4	15.4	14.4	74%	37%	48%	45%	42%
1SV20ME009	24	4	28	15	11	26	17	11	28	2	2	2	2	2	9.6	4.8	4.8	4.8	4.8	48	35.6	25.8	17.8	23.8	17.8	105%	59%	52%	70%	52%
1SV21ME400	22	0	22	17	4	21	19	6	25	2	2	2	2	2	4.6	2.4	2.4	2.4	2.4	23	28.6	21.4	8.4	23.4	10.4	84%	49%	25%	69%	31%
1SV21ME401	9	16	25	8	13	21	7	17	24	2	2	2	2	2	4.2	2.4	2.4	2.4	2.4	21	15.2	28.4	17.4	11.4	21.4	45%	65%	51%	34%	63%
1SV21ME402	19	7	26	15	10	25	19	3	22	2	2	2	2	2	9.6	2.6	2.6	2.6	2.6	48	30.6	26.6	14.6	23.6	7.6	90%	60%	43%	69%	22%
TOTAL	166	115	281	148	128	276	158	121	279	24	24	24	24	24	75.8	26.2	26.2	26.2	26.2	379	265.8	313.2	178.2	208.2	171.2	7.82	7.12	5.24	6.12	5.04
No of Students	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
AVERAGE	13.8	9.58	23.42	12.3	10.7	23	13.2	10	23.25	2	2	2	2	2	6.32	2.18	2.18	2.18	2.18	31.58	22.2	26.1	14.85	17.35	14.27	65.15	59.32	43.68	51.03	41.96
Total																										52%	49%	46%	46%	42%

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