

**SHRIDEVI INSTITUTE OF ENGINEERING AND
TECHNOLOGY
DEPARTMENT OF MECHANICAL ENGINEERING**

ODD SEM

2017-18

**DEPARTMENT OF MECHANICAL ENGINEERING**

SUBJECT	Engineering Management & Economics	SUBJECT CODE	15ME51
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COURSE OUTCOME

CO1	Explain the development of management and the role it plays at different levels in an organization
CO2	Comprehend the process and role of effective planning, organizing and staffing for the development of an organization
CO3	Understand the necessity of good leadership, communication and co-ordination for establishing effective control in an organization
CO4	Understand engineering economics demand supply and its importance in economic decision making and problem solving
CO5	Calculate present worth, annual worth and IRR for different alternatives in economic decision making

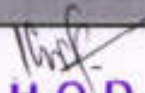
PROGRAM OUTCOMES

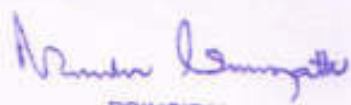
- P01** Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.
- P02** Problem analysis: Identify, formulate, research literature, and analyze complex engineering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

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	U S ARADHYA											
BRANCH	ME			ACADEMIC YEAR				2017-18				
COURSE	B.E	SEMESTER			V	SECTION						
SUBJECT	Engineering Management & Economics						SUBJECT CODE			15ME51		
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1										1		
CO2										1	1	
CO3	3											
CO4	3											
CO5	3											
AVERAGE	2.4									0.9	0.9	
OVERALL MAPPING OF SUBJECT												1.4

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	61.4										0.61		
CO2	62.9										0.62	0.62	
CO3	47.1	1.41											
CO4	62.4	1.87											
CO5	47.1	1.41											
AVERAGE	56.18	1.56									0.61	0.62	
FINAL ATTAINMENT LEVEL													0.93


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**DEPARTMENT OF MECHANICAL ENGINEERING**

SUBJECT	Dynamics of Machinery	SUBJECT CODE	15ME52
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COURSE OUTCOME

CO1	Apply the concepts of static and dynamic balancing of reciprocating and rotating masses on automobiles
CO2	Determine static and dynamic forces for four bars and slider crank mechanism, stability of governors, Natural frequency of different parameters of vibratory system, force and motion
CO3	Analyze the stability of governors , gyroscopic effects on ships, plane disc, aero planes , automobiles
CO4	Distinguish different types of vibratory systems
CO5	Formulate mathematical equations for damped and undamped vibratory system

PROGRAM OUTCOMES

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COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	MALTESHA P J											
BRANCH	ME			ACADEMIC YEAR				2017-18				
COURSE	B.E	SEMESTER			V	SECTION						
SUBJECT	Dynamics of Machinery					SUBJECT CODE			15ME52			
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2											
CO2		1	3									
CO3		2	2									
CO4	2	1	2									
CO5		2	3									2
AVERAGE	2	1.5	1.5									2
OVERALL MAPPING OF SUBJECT												1.75

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	64.2	1.28											
CO2	63.6		0.63	1.90									
CO3	48.8		0.97	0.97									
CO4	64.2	1.28	0.64	1.28									
CO5	48.8		0.97	1.46									0.97
AVERAGE	57.92	1.28	0.80	1.40									0.97
FINAL ATTAINMENT LEVEL													1.11

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**DEPARTMENT OF MECHANICAL ENGINEERING**

SUBJECT	Turbo Machines	SUBJECT CODE	15ME53
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COURSE OUTCOME

CO1	Recognize the appropriate turbo machine and dimensionless variables for a given dynamical situation and predict the prototype based on similitude.
CO2	Comprehend the significance of static and stagnation properties for turbines and compressors.
CO3	Summarize the Euler's equation to analyze energy transfer in turbo machines.
CO4	Apply the velocity triangles for steam turbines and hydraulic turbines to estimate various performance parameters.
CO5	Perform the preliminary design of centrifugal pumps and centrifugal compressors.

PROGRAM OUTCOMES

- PO1** Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.
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COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	RAVI KUMAR D S											
BRANCH	ME			ACADEMIC YEAR				2017-18				
COURSE	B.E	SEMESTER			V	SECTION						
SUBJECT	Turbo Machines					SUBJECT CODE			15ME53			
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3	3									
CO2	3	3	3									
CO3	3	3	3									
CO4	3	3	3									
CO5	3	3	3									
AVERAGE	3	3	3									
OVERALL MAPPING OF SUBJECT												3.0

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	58.1	1.74	1.74	1.74									
CO2	61.1	1.83	1.83	1.83									
CO3	39.2	1.17	1.17	1.17									
CO4	58.3	1.74	1.74	1.74									
CO5	39.2	1.17	1.17	1.17									
AVERAGE	51.18	1.53	1.53	1.53									
FINAL ATTAINMENT LEVEL													1.53

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DEPARTMENT OF MECHANICAL ENGINEERING

SUBJECT	Design of Machines Elements-1	SUBJECT CODE	15ME54
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COURSE OUTCOME

CO1	Apply the concepts of stresses for 1-d, 2-D and 3-D elements
CO2	Formulate; analyze stresses and strains in machine elements, permanent and temporary joints subjected to various loads.
CO3	Analyze and design for static, fatigue and impact strength, permanent and temporary joints
CO4	Evaluate the stresses in the elements such as Gears, cotter and knuckle joint keys and couplings
CO5	

PROGRAM OUTCOMES

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COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	RANGASWAMY H											
BRANCH	ME			ACADEMIC YEAR				2017-18				
COURSE	B.E	SEMESTER			V	SECTION						
SUBJECT	Design of Machines Elements-1					SUBJECT CODE			15ME54			
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3										
CO2	3	3										
CO3	3	2	3			1						
CO4	3	3										
CO5	2	2	2			1						
AVERAGE	2.8	2.6	2.5			1						
OVERALL MAPPING OF SUBJECT												2.22

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	53.2	1.59	1.59										
CO2	53.2	1.59	1.59										
CO3	35.9	1.07	0.71	1.07			0.35						
CO4	54.9	1.64	1.64										
CO5	35.9	0.71	0.71	0.71			0.35						
AVERAGE	46.52	1.32	1.24	0.89			0.35						
FINAL ATTAINMENT LEVEL													0.95

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**DEPARTMENT OF MECHANICAL ENGINEERING**

SUBJECT	NON-TRADITIONAL MACHINING	SUBJECT CODE	15ME55X
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COURSE OUTCOME

CO1	understand the difference between traditional and non-traditional machining process , its need and their applications
CO2	Identify the variables involved in water jet machining and abrasive jet machining, and also its working principle .
CO3	Recognize the different elements that affect the working of chemical and electro-chemical machining.
CO4	Identify the parameters that influence the working of electrical discharge machining
CO5	Analyse the mechanism and working principle of plasma arc and laser beam machining

PROGRAM OUTCOMES

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COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	R MANJUNATHA											
BRANCH	ME			ACADEMIC YEAR				2017-18				
COURSE	B.E	SEMESTER			V	SECTION						
SUBJECT	NON-TRADITIONAL MACHINING					SUBJECT CODE			15ME55X			
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	1										
CO2	2	1										
CO3	2	1										
CO4	2	1										
CO5	2	1										
AVERAGE	2	1										
OVERALL MAPPING OF SUBJECT												1.5

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	70.1	1.40	0.70										
CO2	68.7	1.37	0.68										
CO3	54.2	1.08	0.54										
CO4	70.1	1.40	0.70										
CO5	54.2	1.08	0.54										
AVERAGE	63.46	1.26	0.65										
FINAL ATTAINMENT LEVEL													0.95

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DEPARTMENT OF MECHANICAL ENGINEERING

SUBJECT	OPEN ELECTIVE-1 (ERE)	SUBJECT CODE	15ME56X
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COURSE OUTCOME

CO1	Understand thermal energy conversion system for real time applications
CO2	Apply the knowledge of principle of energy conversion by diesel and hydel energy
CO3	analyze the solar radiation parameters, working of solar PV and thermal systems.
CO4	Interpret principle of energy conversion from wind and tidal.
CO5	Review the applications of biomass energy, fuel cell, and thermoelectric conversion and MHD generators.

PROGRAM OUTCOMES

- PO1 Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.
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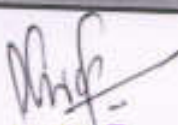
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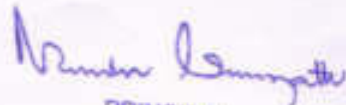
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COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	BABU KAREGOWDA											
BRANCH	ME			ACADEMIC YEAR				2017-28				
COURSE	B.E	SEMESTER		V	SECTION							
SUBJECT	OPEN ELECTIVE-1 (ERE)					SUBJECT CODE		15ME56X				
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	2				1						
CO2	2	2				1						
CO3	2	2				1						
CO4	2	2				1						
CO5	2	2				1						
AVERAGE	2	2				1						
OVERALL MAPPING OF SUBJECT												1.66

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	70.16	1.40	1.40				0.70						
CO2	65.33	1.30	1.30				0.65						
CO3	45.75	0.90	0.90				0.45						
CO4	70.16	1.40	1.40				0.14						
CO5	45.75	0.91	0.91				0.45						
AVERAGE	59.43	1.18	1.18				0.47						
FINAL ATTAINMENT LEVEL													0.94


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DEPARTMENT OF MECHANICAL ENGINEERING

SUBJECT	OPEN ELECTIVE-1 (ERE)	SUBJECT CODE	15ME56X
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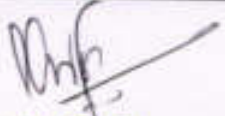
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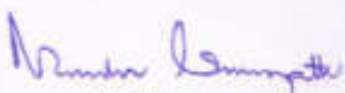
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COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	BABU KAREGOWDA											
BRANCH	ME			ACADEMIC YEAR				2017-28				
COURSE	B.E	SEMESTER			V	SECTION						
SUBJECT	OPEN ELECTIVE-1 (ERE)					SUBJECT CODE			15ME56X			
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2											
CO2	2											
CO3	2											
CO4	2											
CO5	2											
AVERAGE	2											
OVERALL MAPPING OF SUBJECT												2.0

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	70.16	1.40											
CO2	65.33	1.30											
CO3	45.75	0.90											
CO4	70.16	1.40											
CO5	45.75	0.91											
AVERAGE	59.43	1.18											
FINAL ATTAINMENT LEVEL													1.18


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ISV15ME087	15	1	16	15	1	16	15	1	16	1	1	1	1	1	7.6	7.6	7.6	7.6	7.6	38	23.6	24.6	9.6	23.6	9.6	0.69	0.56	0.28	0.69	0.28	
ISV15ME400	15	3	18	15	3	18	15	3	18	1	1	1	1	1	8.6	8.6	8.6	8.6	8.6	43	24.6	27.6	12.6	24.6	12.6	0.72	0.63	0.37	0.72	0.37	
ISV16ME402	14	3	17	14	3	17	14	3	17	1	1	1	1	1	9.4	9.4	9.4	9.4	9.4	47	24.4	27.4	13.4	24.4	13.4	0.72	0.62	0.39	0.72	0.39	
ISV16ME403	15	2	17	15	2	17	15	2	17	1	1	1	1	1	9.6	9.6	9.6	9.6	9.6	48	25.6	27.6	12.6	25.6	12.6	0.75	0.63	0.37	0.75	0.37	
ISV16ME404	12	6	18	12	6	18	12	6	18	1	1	1	1	1	10.4	10.4	10.4	10.4	10.4	52	23.4	29.4	17.4	23.4	17.4	0.69	0.67	0.51	0.69	0.51	
ISV16ME405	12	2	14	12	2	14	12	2	14	1	1	1	1	1	6.8	6.8	6.8	6.8	6.8	34	19.8	21.8	9.8	19.8	9.8	0.58	0.50	0.29	0.58	0.29	
ISV16ME407	13	4	17	13	4	17	13	4	17	1	1	1	1	1	7.6	7.6	7.6	7.6	7.6	38	21.6	25.6	12.6	21.6	12.6	0.64	0.58	0.37	0.64	0.37	
ISV16ME408	12	3	15	12	3	15	12	3	15	1	1	1	1	1	7.2	7.2	7.2	7.2	7.2	36	20.2	23.2	11.2	20.2	11.2	0.59	0.53	0.33	0.59	0.33	
ISV16ME409	11	8	19	11	8	19	11	8	19	1	1	1	1	1	8.8	8.8	8.8	8.8	8.8	44	20.8	28.8	17.8	20.8	17.8	0.61	0.65	0.52	0.61	0.52	
ISV16ME410	15	1	16	15	1	16	15	1	16	1	1	1	1	1	5.6	5.6	5.6	5.6	5.6	28	21.6	22.6	7.6	21.6	7.6	0.64	0.51	0.22	0.64	0.22	
ISV16ME412	12	4	16	12	4	16	12	4	16	1	1	1	1	1	10.4	10.4	10.4	10.4	10.4	52	23.4	27.4	15.4	23.4	15.4	0.69	0.62	0.45	0.69	0.45	
ISV16ME413	11	7	18	11	7	18	11	7	18	1	1	1	1	1	8.4	8.4	8.4	8.4	8.4	42	20.4	27.4	16.4	20.4	16.4	0.60	0.62	0.48	0.60	0.48	
ISV16ME416	12	4	16	12	4	16	12	4	16	1	1	1	1	1	8.4	8.4	8.4	8.4	8.4	42	21.4	25.4	13.4	21.4	13.4	0.63	0.58	0.39	0.63	0.39	
ISV16ME417	14	3	17	14	3	17	14	3	17	1	1	1	1	1	8.8	8.8	8.8	8.8	8.8	44	23.8	26.8	12.8	23.8	12.8	0.70	0.61	0.38	0.70	0.38	
ISV16ME418	12	4	16	12	4	16	12	4	16	1	1	1	1	1	8.6	8.6	8.6	8.6	8.6	43	21.6	25.6	13.6	21.6	13.6	0.64	0.58	0.40	0.64	0.40	
ISV16ME419	11	6	17	11	6	17	11	6	17	1	1	1	1	1	14.2	14.2	14.2	14.2	14.2	71	26.2	32.2	21.2	26.2	21.2	0.77	0.73	0.62	0.77	0.62	
ISV16ME420	12	4	16	12	4	16	12	4	16	1	1	1	1	1	7.4	7.4	7.4	7.4	7.4	37	20.4	24.4	12.4	20.4	12.4	0.60	0.55	0.36	0.60	0.36	
ISV16ME421	11	8	19	11	8	19	11	8	19	1	1	1	1	1	11.4	11.4	11.4	11.4	11.4	57	23.4	31.4	20.4	23.4	20.4	0.69	0.71	0.60	0.69	0.60	
ISV16ME423	12	6	18	12	6	18	12	6	18	1	1	1	1	1	7.8	7.8	7.8	7.8	7.8	39	20.8	26.8	14.8	20.8	14.8	0.61	0.61	0.44	0.61	0.44	
ISV16ME424	11	8	19	11	8	19	11	8	19	1	1	1	1	1	10.8	10.8	10.8	10.8	10.8	54	22.8	30.8	19.8	22.8	19.8	0.67	0.70	0.58	0.67	0.58	
ISV16ME425	12	5	17	12	5	17	12	5	17	1	1	1	1	1	10	10	10	10	10	50	23	28	16	23	16	0.68	0.64	0.47	0.68	0.47	
TOTAL	844	313	1157	844	313	1157	844	313	1157	68	68	68	68	68	614.6	614.6	614.6	614.6	614.6	3073	1526.6	1839.6	995.6	1526.6	995.6	44.90	41.81	29.28	44.90	29.28	
NO OF STUDENTS	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
AVERAGE	13.19	4.89	18.078	13.2	4.891	18.08	13.19	4.89	18.078	1.1	1.1	1.1	1.1	1.1	9.6031	9.603	9.603	9.603	9.603	48.01563	23.9	28.7	15.6	23.9	15.6	70.16	65.33	45.75	70.16	45.75	

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DEPARTMENT OF MECHANICAL ENGINEERING

SUBJECT	ENGINEERING ECONOMY	SUBJECT CODE	10ME71
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COURSE OUTCOME

CO1	Explain the development of management and the role it plays at different levels in an organization
CO2	Comprehend the process and role of effective planning, organizing and staffing for the development of an organization
CO3	Understand the necessity of good leadership, communication and coordination for establishing effective control in an organization
CO4	Understand engineering economics demand supply and its importance in economic decision making and problem solving
CO5	Calculate present worth, annual worth and IRR for different alternatives in economic decision making

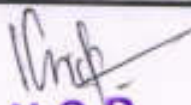
PROGRAM OUTCOMES

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

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	SANTHOSH T U											
BRANCH	ME			ACADEMIC YEAR				2017-18				
COURSE	B.E	SEMESTER			VII	SECTION						
SUBJECT	ECONOMICS					SUBJECT CODE			10ME71			
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1												
CO2												
CO3												
CO4												
CO5												
AVERAGE												
OVERALL MAPPING OF SUBJECT												

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	85.11												
CO2	87.22												
CO3	73.54												
CO4	85.07												
CO5	73.54												
AVERAGE	80.89												
FINAL ATTAINMENT LEVEL													


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DEPARTMENT OF MECHANICAL ENGINEERING

SUBJECT	MECHANICAL VIBRATION	SUBJECT CODE	10ME72
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COURSE OUTCOME

CO1	Understand the fundamentals of mechanical vibrations.
CO2	Ability to apply different methods for formulating the equation of motion for free and damped vibratory system and their solution cases.
CO3	Analyze the response of rotating imbalance and harmonic excitations, and applications in vibration isolations.
CO4	To learn various methods for calculating influence coefficients and principle modes of vibrations.
CO5	Understand the different modes of vibrations and applications of numerical methods.

PROGRAM OUTCOMES

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

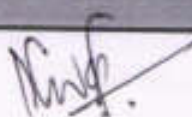
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COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	B H VASUDEVAMURTHY											
BRANCH	ME			ACADEMIC YEAR				2017-18				
COURSE	B.E	SEMESTER			VII	SECTION						
SUBJECT	MECHANICAL VIBRATION						SUBJECT CODE		10ME72			
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	3										
CO2	2	3										
CO3	2	3										
CO4	2	3										
CO5	2	3										
AVERAGE	2	3										
OVERALL MAPPING OF SUBJECT												2.5

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	70.77	1.41	2.12										
CO2	71.45	1.42	2.14										
CO3	54.28	1.08	1.62										
CO4	70.77	1.41	2.12										
CO5	54.28	1.08	1.62										
AVERAGE	64.31	1.28	1.92										
FINAL ATTAINMENT LEVEL													1.6


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**DEPARTMENT OF MECHANICAL ENGINEERING**

SUBJECT	HYDRAULICS & PNEUMATICS	SUBJECT CODE	10ME73
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COURSE OUTCOME

CO1	Understand the basic concepts (principles) of working and maintenance of fluid power system with its potential applications.
CO2	Interpret the construction and working of input and output elements of fluid power systems viz. hydraulic and pneumatic pumps, motors and cylinders.
CO3	Demonstrate the functioning of control valves for obtaining desired output from fluid power systems.
CO4	Formulate (construct) the hydraulic and pneumatic circuits for various outputs
CO5	Integrate fluid power system with electrical and logic elements, controls to maintain the sequence of operations

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

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	CHETHAN K M											
BRANCH	ME			ACADEMIC YEAR				2017-18				
COURSE	B.E	SEMESTER			VII	SECTION						
SUBJECT	HYDRAULICS & PNEUMATICS						SUBJECT CODE			10ME73		
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2											1
CO2	2	2										1
CO3	2	2										1
CO4	2	2										1
CO5	2	3										1
AVERAGE	2	2.25										1
OVERALL MAPPING OF SUBJECT												1.75

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	74.54	1.49											0.74
CO2	75.57	1.51	1.51										0.75
CO3	55.74	1.11	1.11										0.55
CO4	74.54	1.49	1.49										0.74
CO5	55.74	1.11	1.67										0.55
AVERAGE	67.22	1.34	1.44										0.66
FINAL ATTAINMENT LEVEL													0.44

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**DEPARTMENT OF MECHANICAL ENGINEERING**

SUBJECT	OPERATION RESEARCH	SUBJECT CODE	10ME74
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COURSE OUTCOME

CO1	Apply the significance of Operations Research in decision making and identify and develop mathematical model from verbal description of real system problems
CO2	Obtain the solution of formulated real life problem with its inherent resources and constraints.
CO3	Recognize and formulate a transportation and assignment model and obtain optimal solution with all the variants of models.
CO4	Construct network diagram and determine critical path, floats for deterministic and PERT networks including crashing of networks and waiting line problems for M/M/1 and M/M/K queuing theory
CO5	Solve problems on game theory for pure and mixed strategy under competitive environment and also Determine minimum processing times for sequencing of n jobs-2 machines, n jobs-3machines, n jobs-mmachines and 2 jobs-n machines using Johnson's algorithm.

PROGRAM OUTCOMES

- PO1** Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.
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- PO12** Life-long learning: A recognition of the need for, and an ability to engage in, to resolve contemporary issues and acquire lifelong learning.

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	RAVI KUMAR K R											
BRANCH	ME			ACADEMIC YEAR				2017-18				
COURSE	B.E	SEMESTER			VII	SECTION						
SUBJECT	OPERATION RESEARCH						SUBJECT CODE			10ME74		
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3											
CO2	3	2	2									
CO3	3	2	2									
CO4	3	2	2									
CO5	3	2	2									
AVERAGE	3	2	2									
OVERALL MAPPING OF SUBJECT												2.33

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	77.89	2.33											
CO2	76.59	2.29	1.53	1.53									
CO3	59.87	1.79	1.19	1.19									
CO4	77.89	2.33	1.55	1.55									
CO5	59.87	1.79	1.19	1.19									
AVERAGE	70.42	2.10	1.36	1.36									
FINAL ATTAINMENT LEVEL													1.60

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DEPARTMENT OF MECHANICAL ENGINEERING

SUBJECT	NON CONVENTIONAL ENERGY SOURCES	SUBJECT CODE	10ME754
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COURSE OUTCOME

CO1	Understand the need of energy convention of various methods of energy storage.
CO2	Explain the fields application of solar energy.
CO3	Identify wind energy as alternate form of energy and to know how it can be tapped.
CO4	Explain biogas generation and its environment.
CO5	Understand the geothermal and tidal energy and its mechanism of production and its application.

PROGRAM OUTCOMES

- P01** Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.
- P02** Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
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- P012** Life-long learning: A recognition of the need for, and an ability to engage in, to resolve

contemporary issues and acquire lifelong learning.

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	RAVI KUMAR D S											
BRANCH	ME			ACADEMIC YEAR				2017-18				
COURSE	B.E	SEMESTER			VII	SECTION						
SUBJECT	NON CONVENTIONAL ENERGY SOURCES						SUBJECT CODE			10ME754		
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	1		1		2						1
CO2	2	1		1		2						1
CO3	2	1		1		2						1
CO4	2	1		1		2						1
CO5	2	1		1		2						1
AVERAGE	2	1		1		2						1
OVERALL MAPPING OF SUBJECT												1.4

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	79.40	1.58	0.79		0.79		1.58						0.79
CO2	93.18	1.86	0.93		0.93		1.86						0.93
CO3	82.67	1.65	0.82		0.82		1.65						0.82
CO4	79.41	1.58	0.79		0.79		1.58						0.79
CO5	82.67	1.65	0.82		0.82		1.65						0.82
AVERAGE	83.46	1.66	0.83		0.83		1.66						0.83
FINAL ATTAINMENT LEVEL													1.16

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Academic year	SEM VII			Total strength			71			Subject			No. Candidates Appeared			Subject Code			HME74					% of individual CO						
	SEM VII IA TEST (MM)	SEM VII IA TEST (MM)	SEM VII IA TEST (MM)	COI	COII	TOTAL	COI	COII	TOTAL	COI	COII	TOTAL	COI	COII	TOTAL	COI-34	COI-44	COI-54	COI-64	COI-74	COI	COII	COIII	COIV	COV					
ISV13ME021	11	14	25	11	14	25	1	1	1	1	1	1	1	1	11.4	11.4	11.4	11.4	11.4	84	20.9	34.8	23.8	20.8	13.8	0.61	0.79	0.61	0.61	0.61
ISV13ME046	11	4	18	11	4	18	1	1	1	1	1	1	1	1	10	10	10	10	10	50	22	26	15	22	15	0.65	0.59	0.64	0.65	0.64
ISV13ME077	12	5	18	12	5	18	1	1	1	1	1	1	1	1	8.2	8.2	8.2	8.2	8.2	41	21.2	24.2	12.2	21.2	12.2	0.62	0.56	0.56	0.62	0.56
ISV13ME018	12	5	17	12	5	17	1	1	1	1	1	1	1	1	9	9	9	9	9	45	22	27	15	22	15	0.65	0.61	0.64	0.65	0.64
ISV13ME049	11	10	21	11	10	21	1	1	1	1	1	1	1	1	11.4	11.4	11.4	11.4	11.4	57	23.4	33.4	22.4	23.4	23.4	0.69	0.74	0.69	0.69	0.68
ISV13ME112	12	11	28	12	11	28	1	1	1	1	1	1	1	1	10	10	10	10	10	50	23	34	22	23	22	0.68	0.77	0.65	0.68	0.65
ISV14ME001	11	13	24	11	13	24	1	1	1	1	1	1	1	1	11	11	11	11	11	55	23	36	25	23	25	0.68	0.62	0.74	0.68	0.74
ISV14ME095	12	8	20	12	8	20	1	1	1	1	1	1	1	1	13.6	13.6	13.6	13.6	13.6	68	25.6	36.6	25.6	25.6	25.6	0.78	0.79	0.60	0.78	0.60
ISV14ME007	15	10	25	15	10	25	1	1	1	1	1	1	1	1	12.8	12.8	12.8	12.8	12.8	64	28	39	24	28	24	0.65	0.69	0.71	0.65	0.71
ISV14ME009	12	5	17	12	5	17	1	1	1	1	1	1	1	1	12.6	12.6	12.6	12.6	12.6	63	25.6	30.6	18.6	25.6	18.6	0.75	0.70	0.55	0.75	0.55
ISV14ME017	12	10	22	12	10	22	1	1	1	1	1	1	1	1	15.4	15.4	15.4	15.4	15.4	77	26.4	36.4	24.4	26.4	24.4	0.78	0.63	0.72	0.78	0.72
ISV14ME014	11	14	25	11	14	25	1	1	1	1	1	1	1	1	12.8	12.8	12.8	12.8	12.8	64	24.8	34.8	27.8	24.8	27.8	0.75	0.68	0.62	0.75	0.62
ISV14ME025	12	11	23	12	11	23	1	1	1	1	1	1	1	1	10.6	10.6	10.6	10.6	10.6	53	23.6	34.6	23.6	23.6	23.6	0.69	0.78	0.60	0.69	0.60
ISV14ME018	12	14	24	12	14	24	1	1	1	1	1	1	1	1	12.4	12.4	12.4	12.4	12.4	62	25.4	37.4	25.4	25.4	25.4	0.75	0.65	0.75	0.75	0.75
ISV14ME020	11	11	22	11	11	22	1	1	1	1	1	1	1	1	13.8	13.8	13.8	13.8	13.8	69	25.8	38.8	25.8	25.8	25.8	0.75	0.63	0.75	0.75	0.75
ISV14ME022	12	8	18	12	8	18	1	1	1	1	1	1	1	1	14.8	14.8	14.8	14.8	14.8	74	26.8	38.8	25.8	26.8	25.8	0.75	0.63	0.75	0.75	0.75
ISV14ME024	11	13	24	11	13	24	1	1	1	1	1	1	1	1	14.8	14.8	14.8	14.8	14.8	74	26.8	38.8	25.8	26.8	25.8	0.75	0.65	0.75	0.75	0.65
ISV14ME027	12	12	24	12	12	24	1	1	1	1	1	1	1	1	12.4	12.4	12.4	12.4	12.4	62	24.4	37.4	24.4	24.4	24.4	0.72	0.65	0.78	0.72	0.78
ISV14ME044	11	13	24	11	13	24	1	1	1	1	1	1	1	1	12.4	12.4	12.4	12.4	12.4	62	24.4	37.4	24.4	24.4	24.4	0.72	0.65	0.78	0.72	0.78
ISV14ME046	12	10	22	12	10	22	1	1	1	1	1	1	1	1	13	13	13	13	13	65	26	36	24	26	24	0.76	0.62	0.71	0.76	0.71
ISV14ME048	14	11	25	14	11	25	1	1	1	1	1	1	1	1	10.4	10.4	10.4	10.4	10.4	52	23.4	34.4	24.4	23.4	24.4	0.69	0.62	0.72	0.69	0.72
ISV14ME049	12	11	25	12	11	25	1	1	1	1	1	1	1	1	14.2	14.2	14.2	14.2	14.2	71	29.2	40.2	26.2	29.2	26.2	0.66	0.61	0.77	0.66	0.77
ISV14ME052	11	10	21	11	10	21	1	1	1	1	1	1	1	1	13.2	13.2	13.2	13.2	13.2	66	26.2	37.2	25.2	26.2	25.2	0.71	0.65	0.74	0.77	0.74
ISV14ME055	12	12	24	12	12	24	1	1	1	1	1	1	1	1	11.8	11.8	11.8	11.8	11.8	59	23.8	33.8	23.8	23.8	23.8	0.70	0.77	0.67	0.70	0.67
ISV14ME054	11	8	18	11	8	18	1	1	1	1	1	1	1	1	13.4	13.4	13.4	13.4	13.4	67	26.4	36.4	26.4	26.4	26.4	0.78	0.67	0.78	0.78	0.78
ISV14ME057	11	12	24	11	12	24	1	1	1	1	1	1	1	1	10.8	10.8	10.8	10.8	10.8	54	23.8	33.8	19.8	23.8	19.8	0.68	0.67	0.70	0.68	0.67
ISV14ME058	12	11	23	12	11	23	1	1	1	1	1	1	1	1	15.6	15.6	15.6	15.6	15.6	78	27.6	39.6	28.6	27.6	28.6	0.63	0.90	0.84	0.63	0.84
ISV14ME059	11	11	22	11	11	22	1	1	1	1	1	1	1	1	11.4	11.4	11.4	11.4	11.4	57	24.4	35.4	24.4	24.4	24.4	0.72	0.69	0.69	0.72	0.69
ISV14ME061	12	9	22	12	9	22	1	1	1	1	1	1	1	1	12.4	12.4	12.4	12.4	12.4	62	24.4	35.4	24.4	24.4	24.4	0.74	0.79	0.60	0.74	0.79
ISV14ME065	11	14	25	11	14	25	1	1	1	1	1	1	1	1	13	13	13	13	13	65	26	35	25	26	25	0.76	0.60	0.68	0.76	0.68
ISV14ME070	12	9	21	12	9	21	1	1	1	1	1	1	1	1	11.2	11.2	11.2	11.2	11.2	56	24.2	35.2	21.2	24.2	21.2	0.71	0.75	0.62	0.71	0.62
ISV14ME072	11	8	19	11	8	19	1	1	1	1	1	1	1	1	12	12	12	12	12	60	24	34	24	24	24	0.68	0.70	0.59	0.68	0.59
ISV14ME076	12	9	21	12	9	21	1	1	1	1	1	1	1	1	12	12	12	12	12	60	24	34	24	24	24	0.68	0.70	0.59	0.68	0.59
ISV14ME078	11	13	24	11	13	24	1	1	1	1	1	1	1	1	14.2	14.2	14.2	14.2	14.2	71	27.2	38.2	24.2	27.2	24.2	0.60	0.62	0.71	0.60	0.71
ISV14ME079	12	11	23	12	11	23	1	1	1	1	1	1	1	1	13	13	13	13	13	65	27	40	29	27	29	0.79	0.91	0.85	0.79	0.85
ISV14ME080	11	14	25	11	14	25	1	1	1	1	1	1	1	1	14	14	14	14	14	70	26	40	29	26	29	0.76	0.61	0.64	0.76	0.61
ISV14ME082	12	8	18	12	8	18	1	1	1	1	1	1	1	1	14	14	14	14	14	70	26	40	29	26	29	0.76	0.61	0.64	0.76	0.61
ISV14ME087	11	10	21	11	10	21	1	1	1	1	1	1	1	1	11.4	11.4	11.4	11.4	11.4	57	24.4	35.4	24.4	24.4	24.4	0.72	0.69	0.54	0.72	0.54
ISV14ME088	2	18	20	2	18	20	1	1	1	1	1	1	1	1	10	10	10	10	10	50	22	32	21	22	21	0.65	0.79	0.62	0.65	0.62
ISV14ME090	12	9	15	12	9	15	1	1	1	1	1	1	1	1	11.2	11.2	11.2	11.2	11.2	56	14.2	22.2	14.2	14.2	14.2	0.62	0.73	0.69	0.62	0.69
ISV14ME091	11	12	23	11	12	23	1	1	1	1	1	1	1	1	14	14	14	14	14	70	26	39	11	26	11	0.59	0.52	0.32	0.59	0.32
ISV14ME094	12	11	23	12	11	23	1	1	1	1	1	1	1	1	10.4	10.4	10.4	10.4	10.4	52	23.4	34.4	19.4	23.4	19.4	0.69	0.71	0.57	0.69	0.57
ISV14ME099	12	10	22	12	10	22	1	1	1	1	1	1	1	1	10.4	10.4	10.4	10.4	10.4	52	23.4	34.4	19.4	23.4	19.4	0.69	0.71	0.57	0.69	0.57
ISV14ME410	11	10	21	11	10	21	1	1	1	1	1	1	1	1	10.2	10.2	10.2	10.2	10.2	51	22.2	32.2	21.2	22.2	21.2	0.63	0.73	0.62	0.63	0.62
ISV14ME411	12	8	20	12	8	20	1	1	1	1	1	1	1	1	10.4	10.4	10.4	10.4	10.4	52	23.4	34.4	19.4	23.4	19.4	0.69	0.71	0.57	0.69	0.57
ISV14ME412	11	8	18	11	8	18	1	1	1	1	1	1	1	1	7	7	7	7	7	35	20	27	15	20	15	0.65	0.61	0.61	0.65	0.61
ISV14ME414	12	8	20	12	8	20	1	1	1	1	1	1	1	1	10.4	10.4	10.4	10.4	10.4	52	23.4	34.4	19.4	23.4	19.4	0.69	0.71	0.57	0.69	0.57
ISV15ME400	11	6	10	11	6	10	1	1	1	1	1	1	1	1	15.2	15.2	15.2	15.2	15.2	76	28.2	38.2	26.2	28.2	26.2	0.63	0.67	0.77	0.63	0.77
ISV15ME402	12	11	23	12	11	23	1	1	1	1	1	1	1	1	14.2	14.2	14.2	14.2	14.2	71	28.2	38.2	21.2	28.2	21.2	0.63	0.78	0.62	0.63	0.62
ISV15ME403	13	209	222	13	209	222	1	1	1	1																				



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DEPARTMENT OF MECHANICAL ENGINEERING

SUBJECT	SMART MATERIALS	SUBJECT CODE	10ME764
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COURSE OUTCOME

CO1	Understand and classification of smart materials and various functions of intelligent materials.
CO2	Categorize the various types of smart structure systems, actuators and sensors.
CO3	Describe the various types' batteries, such as lithium ion batteries.
CO4	Describe the various types of SMA based hybrid composites and smart battery materials.
CO5	Understand the structure and properties of various types of nano tubes.

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.

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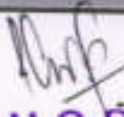
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COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	MAMATHA K M											
BRANCH	ME			ACADEMIC YEAR				2017-18				
COURSE	B.E	SEMESTER			VII	SECTION						
SUBJECT	SMART MATERIALS						SUBJECT CODE		10ME764			
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	2										
CO2	3	2										
CO3	2	3										
CO4	3	3										
CO5	2	3										
AVERAGE	2.4	2.6										
OVERALL MAPPING OF SUBJECT												2.5

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	82.91	1.65	1.65										
CO2	83.35	1.66	2.5										
CO3	69.08	1.38	2.07										
CO4	82.50	2.46	2.46										
CO5	69.08	1.38	2.07										
AVERAGE	77.38	1.70	2.13										
FINAL ATTAINMENT LEVEL													1.91


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DEPARTMENT OF MECHANICAL ENGINEERING**

EVEN SEM

2017-18



DEPARTMENT OF MECHANICAL ENGINEERING

SUBJECT	FINITE ELEMENT METHOD	SUBJECT CODE	15ME61
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COURSE OUTCOME

CO1	Demonstrate the basic concepts of Finite Element methods with its potential applications.
CO2	Interpret the use of the basic finite elements for structural applications using truss, beam, frame, and plane elements.
CO3	Derive element matrix equation by different methods by applying basic laws in mechanics.
CO4	Make use of professional-level finite element software to solve engineering problems in Solid mechanics, fluid mechanics and heat transfer.
CO5	Implement finite element methods for simple problems such as beam analysis and 1-D heat conduction either by hand calculation or by programming.

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.

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COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	MALTESHA P J											
BRANCH	ME			ACADEMIC YEAR				2017-18				
COURSE	B.E	SEMESTER		VI	SECTION							
SUBJECT	FINITE ELEMENT METHOD					SUBJECT CODE		15ME61				
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3											
CO2	2											
CO3	1	3										
CO4	3	2										
CO5		2	3		2							
AVERAGE	2.25	2.3	3		2							
OVERALL MAPPING OF SUBJECT												2.38

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	68.24	2.04											
CO2	61.47	1.22											
CO3	37.50	0.37	1.12										
CO4	68.24	2.04	1.36										
CO5	37.50		0.75	1.12	0.75								
AVERAGE	54.59	1.41	1.07	1.12	0.75								
FINAL ATTAINMENT LEVEL													1.08

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DEPARTMENT OF MECHANICAL ENGINEERING

SUBJECT	COMPUTER INTEGRATED MANUFACTURING	SUBJECT CODE	15ME62
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COURSE OUTCOME

CO1	Interpret various automation methods and to develop mathematical models in production system
CO2	Analyse the design processes using computer graphics software and CAPP.
CO3	Develop an algorithm for line balancing to improve the productivity by adopting flexible manufacturing system.
CO4	Apply different computer applications in manufacturing and prepare part programs for simple jobs on CNC machine tools and robot technology.
CO5	Identify the modern trends in manufacturing process like additive manufacturing, Industry 4.0 and applications of IOT 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.
- 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.

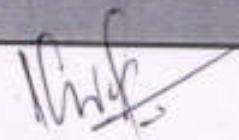
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COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	VEERESH R B											
BRANCH	ME			ACADEMIC YEAR				2017-18				
COURSE	B.E	SEMESTER		VI	SECTION							
SUBJECT	COMPUTER INTEGRATED MANUFACTURING						SUBJECT CODE		15ME62			
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2											
CO2	2	2										
CO3		2										
CO4	2											
CO5		2										
AVERAGE	2	2										
OVERALL MAPPING OF SUBJECT												2.0

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	70.06	1.14											
CO2	64.78	1.29	1.29										
CO3	46.33		0.92										
CO4	70.04	1.40											
CO5	46.33		0.92										
AVERAGE	59.50	1.27	1.04										
FINAL ATTAINMENT LEVEL													1.15


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 SIET, TUMAKURU.

Academic year	2017-18						SEM V						Subject						Computer Integrated Manufacturing						Subject Core						18ME62						Total Core ATTAINMENT						% of Individual CG					
	IA TEST 1(20M)			IA TEST 2(20M)			IA TEST 3(20M)			ASSIGNMENT / QUIZ(10 M)			SEE MARK(S)			TOTAL			TOTAL Core ATTAINMENT			TOTAL Core ATTAINMENT			TOTAL Core ATTAINMENT			TOTAL Core ATTAINMENT			TOTAL Core ATTAINMENT			TOTAL Core ATTAINMENT														
	CO1	CO2	TOTAL	CO1	CO2	TOTAL	CO1	CO2	TOTAL	CO1	CO2	CO3	CO4	CO5	CO1+2	CO2	CO3	CO4	CO5	TOTAL	CO1+04	CO2+04	CO3+04	CO4+04	CO5+04	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5													
ISV14ME001	11	3	14	11	3	14	11	3	14	1	1	1	1	1	10.2	10.2	10.2	10.2	10.2	51	22.2	25.2	14.2	22.2	14.2	0.85	0.87	0.82	0.85	0.82																		
ISV14ME016	12	2	14	12	2	14	12	2	14	1	1	1	1	1	7	7	7	7	7	39	20	22	10	20	10	0.59	0.50	0.29	0.59	0.29																		
ISV14ME018	11	4	15	11	4	15	11	4	15	1	1	1	1	1	7.6	7.6	7.6	7.6	7.6	38	18.8	23.8	12.8	18.8	12.8	0.58	0.54	0.37	0.58	0.37																		
ISV14ME026	12	3	15	12	3	15	12	3	15	1	1	1	1	1	5.6	5.6	5.6	5.6	5.6	28	18.8	21.8	9.8	18.8	9.8	0.55	0.49	0.28	0.55	0.28																		
ISV14ME034	12	3	15	12	3	15	12	3	15	1	1	1	1	1	8.4	8.4	8.4	8.4	8.4	42	21.4	24.4	12.4	21.4	12.4	0.63	0.55	0.36	0.63	0.36																		
ISV14ME035	11	6	17	11	6	17	11	6	17	1	1	1	1	1	10	10	10	10	10	50	22	24	17	22	17	0.65	0.64	0.50	0.65	0.50																		
ISV14ME064	12	4	16	12	4	16	12	4	16	1	1	1	1	1	7	7	7	7	7	35	20	24	14	20	14	0.59	0.59	0.41	0.59	0.41																		
ISV14ME083	11	3	14	11	3	14	11	3	14	1	1	1	1	1	11.4	11.4	11.4	11.4	11.4	57	24.4	28.4	17.4	24.4	17.4	0.67	0.67	0.51	0.67	0.51																		
ISV14ME084	11	3	14	11	3	14	11	3	14	1	1	1	1	1	5.6	5.6	5.6	5.6	5.6	28	17.8	20.8	9.8	17.8	9.8	0.52	0.47	0.28	0.52	0.28																		
ISV15ME001	12	4	16	12	4	16	12	4	16	1	1	1	1	1	8.8	8.8	8.8	8.8	8.8	44	21.8	25.8	13.8	21.8	13.8	0.64	0.58	0.40	0.64	0.40																		
ISV15ME003	12	4	16	12	4	16	12	4	16	1	1	1	1	1	13	13	13	13	13	65	34	42	20	34	20	0.71	0.73	0.53	0.71	0.53																		
ISV15ME007	15	3	18	15	3	18	15	3	18	1	1	1	1	1	10.6	10.6	10.6	10.6	10.6	53	26.8	29.8	14.8	26.8	14.8	0.76	0.67	0.43	0.76	0.43																		
ISV15ME008	12	7	19	12	7	19	12	7	19	1	1	1	1	1	12	12	12	12	12	60	25	32	20	25	20	0.74	0.73	0.59	0.74	0.59																		
ISV15ME010	12	6	18	12	6	18	12	6	18	1	1	1	1	1	11.2	11.2	11.2	11.2	11.2	56	24.2	30.2	18.2	24.2	18.2	0.71	0.69	0.54	0.71	0.54																		
ISV15ME011	15	2	17	15	2	17	15	2	17	1	1	1	1	1	8	8	8	8	8	40	24	26	11	24	11	0.71	0.59	0.32	0.71	0.32																		
ISV15ME017	12	7	19	12	7	19	12	7	19	1	1	1	1	1	8.8	8.8	8.8	8.8	8.8	44	21.8	24.8	12.8	21.8	12.8	0.64	0.65	0.49	0.64	0.49																		
ISV15ME018	12	4	16	12	4	16	12	4	16	1	1	1	1	1	10.4	10.4	10.4	10.4	10.4	52	23.4	27.4	15.4	23.4	15.4	0.69	0.62	0.45	0.69	0.45																		
ISV15ME019	12	2	14	12	2	14	12	2	14	1	1	1	1	1	9.8	9.8	9.8	9.8	9.8	49	23.8	24.8	12.8	23.8	12.8	0.67	0.56	0.38	0.67	0.38																		
ISV15ME023	1	17	18	1	17	18	1	17	18	1	1	1	1	1	11.2	11.2	11.2	11.2	11.2	56	23.2	30.2	29.2	23.2	29.2	0.69	0.66	0.86	0.69	0.86																		
ISV15ME025	12	4	16	12	4	16	12	4	16	1	1	1	1	1	11.4	11.4	11.4	11.4	11.4	57	24.4	28.4	16.4	24.4	16.4	0.72	0.65	0.48	0.72	0.48																		
ISV15ME027	12	7	19	12	7	19	12	7	19	1	1	1	1	1	8.6	8.6	8.6	8.6	8.6	43	22.6	29.6	17.6	22.6	17.6	0.66	0.67	0.52	0.66	0.52																		
ISV15ME028	11	5	16	11	5	16	11	5	16	1	1	1	1	1	9.8	9.8	9.8	9.8	9.8	49	21.8	26.8	13.8	21.8	13.8	0.64	0.61	0.46	0.64	0.46																		
ISV15ME032	15	0	15	15	0	15	15	0	15	1	1	1	1	1	10.2	10.2	10.2	10.2	10.2	51	26.2	28.2	11.2	26.2	11.2	0.77	0.60	0.33	0.77	0.33																		
ISV15ME034	12	3	15	12	3	15	12	3	15	1	1	1	1	1	7.6	7.6	7.6	7.6	7.6	38	20.6	23.6	11.6	20.6	11.6	0.61	0.54	0.34	0.61	0.34																		
ISV15ME039	12	6	18	12	6	18	12	6	18	1	1	1	1	1	9	9	9	9	9	45	22	28	16	22	16	0.65	0.64	0.47	0.65	0.47																		
ISV15ME042	12	5	17	12	5	17	12	5	17	1	1	1	1	1	13.2	13.2	13.2	13.2	13.2	66	26.2	31.2	19.2	26.2	19.2	0.77	0.71	0.56	0.77	0.56																		
ISV15ME044	12	6	18	12	6	18	12	6	18	1	1	1	1	1	11.8	11.8	11.8	11.8	11.8	59	24.8	30.8	18.8	24.8	18.8	0.72	0.69	0.54	0.72	0.54																		
ISV15ME045	15	3	18	15	3	18	15	3	18	1	1	1	1	1	10.8	10.8	10.8	10.8	10.8	54	26.8	28.8	13.8	26.8	13.8	0.79	0.65	0.41	0.79	0.41																		
ISV15ME048	14	3	17	14	3	17	14	3	17	1	1	1	1	1	12.8	12.8	12.8	12.8	12.8	64	27.8	32.8	18.8	27.8	18.8	0.82	0.75	0.55	0.82	0.55																		
ISV15ME049	12	3	15	12	3	15	12	3	15	1	1	1	1	1	10.8	10.8	10.8	10.8	10.8	54	23.8	26.8	14.8	23.8	14.8	0.70	0.61	0.44	0.70	0.44																		
ISV15ME051	14	2	16	14	2	16	14	2	16	1	1	1	1	1	10.2	10.2	10.2	10.2	10.2	51	25.2	27.2	13.2	25.2	13.2	0.76	0.62	0.39	0.76	0.39																		
ISV15ME054	12	4	16	12	4	16	12	4	16	1	1	1	1	1	13	13	13	13	13	65	26	30	18	26	18	0.76	0.68	0.53	0.76	0.53																		
ISV15ME058	12	3	15	12	3	15	12	3	15	1	1	1	1	1	10.6	10.6	10.6	10.6	10.6	53	23.6	26.6	14.6	23.6	14.6	0.69	0.60	0.43	0.69	0.43																		
ISV15ME059	12	3	15	12	3	15	12	3	15	1	1	1	1	1	7	7	7	7	7	35	20	23	11	20	11	0.59	0.52	0.32	0.59	0.32																		
ISV15ME062	12	8	20	12	8	20	12	8	20	1	1	1	1	1	13.8	13.8	13.8	13.8	13.8	69	28.8	34.8	22.8	28.8	22.8	0.78	0.76	0.68	0.78	0.68																		
ISV15ME066	14	3	17	14	3	17	14	3	17	1	1	1	1	1	9	9	9	9	9	45	24	29	15	24	15	0.71	0.68	0.44	0.71	0.44																		
ISV15ME067	12	2	14	12	2	14	12	2	14	1	1	1	1	1	8.8	8.8	8.8	8.8	8.8	44	18.8	21.8	9.8	18.8	9.8	0.58	0.50	0.29	0.58	0.29																		
ISV15ME070	12	3	15	12	3	15	12	3	15	1	1	1	1	1	8.4	8.4	8.4	8.4	8.4	42	21.4	24.4	14.4	21.4	14.4	0.63	0.60	0.42	0.63	0.42																		
ISV15ME072	14	4	18	14	4	18	14	4	18	1	1	1	1	1	10.6	10.6	10.6	10.6	10.6	53	25.6	29.6	15.6	25.6	15.6	0.75	0.67	0.46	0.75	0.46																		
ISV15ME073	12	6	18	12	6	18	12	6	18	1	1	1	1	1	8.2	8.2	8.2	8.2	8.2	41	21.2	27.2	15.2	21.2	15.2	0.62	0.62	0.45	0.62	0.45																		
ISV15ME074	12	4	16	12	4	16	12	4	16	1	1	1	1	1	8.6	8.6	8.6	8.6	8.6	43	21.6	27.6	15.6	21.6	15.6	0.64	0.63	0.46	0.64	0.46																		
ISV15ME075	12	8	20	12	8	20	12	8	20	1	1	1	1	1	9.8	9.8	9.8	9.8	9.8	49	19.8	27.8	15.8	19.8	15.8	0.58	0.63	0.46	0.58	0.46																		
ISV15ME076	12	6	18	12	6	18	12	6	18	1	1	1	1	1	11.4	11.4	11.4	11.4	11.4	57	24.4	30.4	18.4	24.4	18.4	0.72	0.69	0.54	0.72	0.54																		
ISV15ME077	14	2	16	14	2	16	14	2	16	1	1	1	1	1	8	8	8	8	8	40	23	25	11	23	11	0.68	0.57	0.32	0.68	0.32																		
ISV15ME079	15	0	15	15	0	15	15	0	15	1	1	1	1	1	10.8	10.8	10.8	10.8	10.8	54	26.8	28.8	13.8	26.8	13.8	0.79	0.69	0.53	0.77	0.53																		
ISV15ME082	12	3	15	12																																												



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SIRA ROAD, TUMKUR- 572 106.

DEPARTMENT OF MECHANICAL ENGINEERING

SUBJECT	HEAT TRANSFER	SUBJECT CODE	15ME63
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COURSE OUTCOME

CO1	Comprehend the modes of heat transfer and apply basic laws of heat transfer to formulate and solve steady state heat transfer problems
CO2	study and evaluate critical thickness of insulation, steady and variable thermal conductivity of fins, and heat transfer in finite, semi infinita and finite solids
CO3	explain the principles of radiation heat transfer and predict the temperature distribution using numerical approach for heat conduction problems
CO4	Interpret and compute forced, free convection heat transfer.
CO5	design heat exchangers using LMTD and NTU methods and explain the concept of condensation and boiling of liquids.

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.

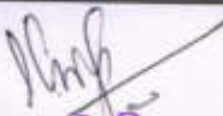
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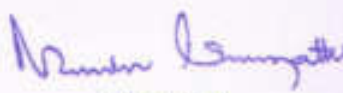
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COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	RAVI KUMAR D S											
BRANCH	ME			ACADEMIC YEAR				2017-18				
COURSE	B.E	SEMESTER			VI	SECTION						
SUBJECT	HEAT TRANSFER						SUBJECT CODE		15ME63			
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3	3									
CO2	3	3	3									
CO3	3	3	3									
CO4	3	3	3									
CO5	3	3	3									
AVERAGE	3	3	3									
OVERALL MAPPING OF SUBJECT												3.0

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	52.57	1.57	1.57	1.57									
CO2	60.87	1.82	1.82	1.82									
CO3	41.05	1.23	1.23	1.23									
CO4	62.65	1.87	1.87	1.87									
CO5	41.05	1.23	1.23	1.23									
AVERAGE	53.65	1.54	1.54	1.54									
FINAL ATTAINMENT LEVEL													1.54


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**DEPARTMENT OF MECHANICAL ENGINEERING**

SUBJECT	DESIGN OF MACHINE ELEMENTS -II	SUBJECT CODE	15ME64
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COURSE OUTCOME

CO1	Understand & Analyze the stresses in curved beams, cylinders, and cylinder heads
CO2	Decide flexible drives (belts, ropes, and chains) required for power transmission and springs.
CO3	Analyze and design different types of gears for static and dynamic loads and apply in real life application
CO4	Design clutches and brakes for static and dynamic loads
CO5	Carry out the design of journal bearing by choosing the lubricant and choice of ball and roller bearings

PROGRAM OUTCOMES

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

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COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	B H VASUDEVAMURTHY											
BRANCH	ME	ACADEMIC YEAR						2017-18				
COURSE	B.E	SEMESTER	VI	SECTION								
SUBJECT	DESIGN OF MACHINE ELEMENTS -II						SUBJECT CODE		15ME64			
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	2				1						
CO2	2	3	2			1						1
CO3	3		3			2						1
CO4	3	3	3			2						1
CO5	3	3	2			2	1					1
AVERAGE	2.20	2.75	2.50			1.60	1					1
OVERALL MAPPING OF SUBJECT												1.84

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	54.56	1.63	1.09				0.54						
CO2	47.91	0.95	1.43	0.95			0.47						0.47
CO3	25.51	0.76		0.76			0.51						0.25
CO4	54.56	1.63	1.63	1.63			1.09						0.54
CO5	25.51	0.76	0.76	0.51			0.51						0.25
AVERAGE	41.61	1.14	1.22	0.96			0.62						0.37
FINAL ATTAINMENT LEVEL													0.86

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Academic year	2017-18		SEM / VI		Total strength		48		Subject		Design of Machine Elements-II					Subject Code		15ME64		Assessment		% of individual CO									
	SEM-VI		IA TEST 2(20M)		IA TEST 3(20M)		ASSIGN		T / QUIZ (10 M)		SEE MARKS/100					Total Co		Assessment													
	CO1	CO2	CO1	CO2	CO1	CO2	CO1	CO2	CO1	CO2	CO1	CO2	CO3	CO4	CO5	TOTAL	CO1-34	CO2-34	CO1	CO2	CO3	CO4	CO5								
ISV14ME011	31	3	34	31	3	34	11	3	34	1	1	1	1	1	12.8	12.8	12.8	12.8	12.8	64	24.8	27.8	26.8	24.8	16.8	0.73	0.63	0.49	0.73	0.49	
ISV14ME018	12	3	15	12	3	15	12	3	15	1	1	1	1	1	4.2	4.2	4.2	4.2	4.2	21	17.2	18.2	6.2	17.2	6.2	0.51	0.41	0.18	0.51	0.18	
ISV14ME026	12	4	16	12	4	16	12	4	16	1	1	1	1	1	5.6	5.6	5.6	5.6	5.6	28	18.6	22.6	10.6	18.6	10.6	0.55	0.51	0.31	0.55	0.31	
ISV14ME034	12	0	12	12	0	12	12	0	12	1	1	1	1	1	5.6	5.6	5.6	5.6	5.6	28	18.6	18.6	6.6	18.6	6.6	0.55	0.42	0.19	0.55	0.19	
ISV14ME055	12	3	15	12	3	15	12	3	15	1	1	1	1	1	3.4	3.4	3.4	3.4	3.4	17	16.4	19.4	7.4	16.4	7.4	0.48	0.46	0.23	0.48	0.23	
ISV14ME064	12	0	12	12	0	12	12	0	12	1	1	1	1	1	5.6	5.6	5.6	5.6	5.6	28	18.6	18.6	6.6	18.6	6.6	0.55	0.42	0.19	0.55	0.19	
ISV14ME083	12	1	13	12	1	13	12	1	13	1	1	1	1	1	5	5	5	5	5	25	18	19	7	18	7	0.53	0.43	0.21	0.53	0.21	
ISV14ME084	12	2	14	12	2	14	12	2	14	1	1	1	1	1	4.2	4.2	4.2	4.2	4.2	21	17.2	19.2	7.2	17.2	7.2	0.51	0.44	0.21	0.51	0.21	
ISV15ME001	11	1	12	11	1	12	11	1	12	1	1	1	1	1	5.8	5.8	5.8	5.8	5.8	29	17.8	18.8	7.8	17.8	7.8	0.52	0.43	0.23	0.52	0.23	
ISV15ME003	14	1	15	14	1	15	14	1	15	1	1	1	1	1	2	2	2	2	2	10	17	18	4	17	4	0.50	0.41	0.12	0.50	0.12	
ISV15ME007	15	3	18	15	3	18	15	3	18	1	1	1	1	1	6.6	6.6	6.6	6.6	6.6	33	22.6	25.6	10.6	22.6	10.6	0.66	0.58	0.31	0.66	0.31	
ISV15ME008	11	3	14	11	3	14	11	3	14	1	1	1	1	1	5.6	5.6	5.6	5.6	5.6	28	17.6	20.6	9.6	17.6	9.6	0.52	0.47	0.26	0.52	0.26	
ISV15ME010	14	0	14	14	0	14	14	0	14	1	1	1	1	1	5.6	5.6	5.6	5.6	5.6	28	20.6	20.6	6.6	20.6	6.6	0.61	0.47	0.19	0.61	0.19	
ISV15ME011	12	0	12	12	0	12	12	0	12	1	1	1	1	1	1.8	1.8	1.8	1.8	1.8	9	14.8	14.8	2.8	14.8	2.8	0.43	0.33	0.08	0.43	0.08	
ISV15ME017	19	1	20	19	1	20	19	1	20	1	1	1	1	1	0	0	0	0	0	0	0	18	17	2	18	2	0.47	0.39	0.06	0.47	0.06
ISV15ME018	11	3	14	11	3	14	11	3	14	1	1	1	1	1	7.8	7.8	7.8	7.8	7.8	39	19.8	22.8	11.8	19.8	11.8	0.58	0.52	0.25	0.58	0.25	
ISV15ME019	12	0	12	12	0	12	12	0	12	1	1	1	1	1	2.8	2.8	2.8	2.8	2.8	14	15.8	15.8	3.8	15.8	3.8	0.46	0.36	0.11	0.46	0.11	
ISV15ME023	1	10	11	1	10	11	1	10	11	1	1	1	1	1	3.8	3.8	3.8	3.8	3.8	19	5.8	20.6	19.6	5.8	19.6	0.36	0.47	0.58	0.36	0.58	
ISV15ME025	15	1	16	15	1	16	15	1	16	1	1	1	1	1	5.6	5.6	5.6	5.6	5.6	28	21.6	22.6	7.6	21.6	7.6	0.64	0.51	0.22	0.64	0.22	
ISV15ME027	12	1	13	12	1	13	12	1	13	1	1	1	1	1	5.6	5.6	5.6	5.6	5.6	28	18.6	19.6	7.6	18.6	7.6	0.55	0.45	0.22	0.55	0.22	
ISV15ME028	11	2	13	11	2	13	11	2	13	1	1	1	1	1	2.8	2.8	2.8	2.8	2.8	14	14.8	16.8	5.8	14.8	5.8	0.43	0.38	0.16	0.43	0.16	
ISV15ME032	12	0	12	12	0	12	12	0	12	1	1	1	1	1	3.4	3.4	3.4	3.4	3.4	17	16.4	16.4	4.4	16.4	4.4	0.48	0.37	0.13	0.48	0.13	
ISV15ME034	11	1	12	11	1	12	11	1	12	1	1	1	1	1	2.2	2.2	2.2	2.2	2.2	11	14.2	15.2	4.2	14.2	4.2	0.42	0.35	0.13	0.42	0.13	
ISV15ME039	12	0	12	12	0	12	12	0	12	1	1	1	1	1	5.6	5.6	5.6	5.6	5.6	28	18.6	18.6	6.6	18.6	6.6	0.55	0.42	0.19	0.55	0.19	
ISV15ME042	12	0	12	12	0	12	12	0	12	1	1	1	1	1	3.2	3.2	3.2	3.2	3.2	16	16.2	16.2	4.2	16.2	4.2	0.48	0.37	0.12	0.48	0.12	
ISV15ME044	12	1	13	12	1	13	12	1	13	1	1	1	1	1	5.6	5.6	5.6	5.6	5.6	28	18.6	19.6	7.6	18.6	7.6	0.55	0.45	0.22	0.55	0.22	
ISV15ME045	11	1	12	11	1	12	11	1	12	1	1	1	1	1	7	7	7	7	7	35	19	20	9	19	9	0.56	0.45	0.26	0.56	0.26	
ISV15ME048	12	0	12	12	0	12	12	0	12	1	1	1	1	1	5.6	5.6	5.6	5.6	5.6	28	18.6	18.6	6.6	18.6	6.6	0.55	0.42	0.19	0.55	0.19	
ISV15ME049	11	1	12	11	1	12	11	1	12	1	1	1	1	1	5.8	5.8	5.8	5.8	5.8	29	17.8	18.8	7.8	17.8	7.8	0.52	0.43	0.22	0.52	0.22	
ISV15ME051	12	0	12	12	0	12	12	0	12	1	1	1	1	1	5.6	5.6	5.6	5.6	5.6	28	18.6	18.6	6.6	18.6	6.6	0.55	0.42	0.19	0.55	0.19	
ISV15ME056	12	4	16	12	4	16	12	4	16	1	1	1	1	1	3.6	3.6	3.6	3.6	3.6	18	14.6	20.6	8.6	14.6	8.6	0.49	0.47	0.25	0.49	0.25	
ISV15ME058	11	1	12	11	1	12	11	1	12	1	1	1	1	1	7.8	7.8	7.8	7.8	7.8	39	19.8	20.8	9.8	19.8	9.8	0.58	0.47	0.29	0.58	0.29	
ISV15ME059	12	0	12	12	0	12	12	0	12	1	1	1	1	1	5.6	5.6	5.6	5.6	5.6	28	18.6	18.6	6.6	18.6	6.6	0.55	0.42	0.19	0.55	0.19	
ISV15ME062	15	0	15	15	0	15	15	0	15	1	1	1	1	1	6.2	6.2	6.2	6.2	6.2	31	22.2	22.2	7.2	22.2	7.2	0.65	0.50	0.21	0.65	0.21	
ISV15ME066	14	1	15	14	1	15	14	1	15	1	1	1	1	1	8.8	8.8	8.8	8.8	8.8	44	23.8	24.8	10.8	23.8	10.8	0.70	0.56	0.31	0.70	0.31	
ISV15ME067	12	3	15	12	3	15	12	3	15	1	1	1	1	1	7.8	7.8	7.8	7.8	7.8	39	20.8	23.8	11.8	20.8	11.8	0.61	0.54	0.26	0.61	0.26	
ISV15ME070	14	2	16	14	2	16	14	2	16	1	1	1	1	1	5.8	5.8	5.8	5.8	5.8	29	20.6	22.6	8.6	20.6	8.6	0.61	0.51	0.25	0.61	0.25	
ISV15ME072	12	5	17	12	5	17	12	5	17	1	1	1	1	1	7.8	7.8	7.8	7.8	7.8	39	20.8	25.8	13.8	20.8	13.8	0.61	0.58	0.40	0.61	0.40	
ISV15ME073	14	1	15	14	1	15	14	1	15	1	1	1	1	1	3.4	3.4	3.4	3.4	3.4	17	18.4	21.4	7.4	18.4	7.4	0.54	0.49	0.23	0.54	0.23	
ISV15ME074	14	2	16	14	2	16	14	2	16	1	1	1	1	1	7	7	7	7	7	35	22	25	11	22	11	0.65	0.57	0.32	0.65	0.32	
ISV15ME075	15	0	15	15	0	15	15	0	15	1	1	1	1	1	1.6	1.6	1.6	1.6	1.6	8	17.6	17.6	2.6	17.6	2.6	0.52	0.40	0.08	0.52	0.08	
ISV15ME076	12	4	16	12	4	16	12	4	16	1	1	1	1	1	8.2	8.2	8.2	8.2	8.2	41	17.2	21.2	9.2	17.2	9.2	0.51	0.48	0.27	0.51	0.27	
ISV15ME077	14	0	14	14	0	14	14	0	14	1	1	1	1	1	5.6	5.6	5.6	5.6	5.6	28	18.6	18.6	6.6	18.6	6.6	0.55	0.42	0.19	0.55	0.19	
ISV15ME079	12	4	16	12	4	16	12	4	16	1	1	1	1	1	5.6	5.6	5.6	5.6	5.6	28	18.6	22.6	10.6	18.6	10.6	0.55	0.51	0.31	0.55	0.31	
ISV15ME082	12	1	13	12	1	13	12	1	13	1	1	1	1	1	0	0	0	0	0	0	13	14	2	13	2	0.38	0.32	0.06	0.38	0.06	
ISV15ME083	12	0	12	12	0	12	12	0	12	1	1	1	1	1	5.6	5.6	5.6	5.6	5.6	28	18.6	24.6	12.6	18.6	12.6	0.55	0.56	0.37	0.55	0.37	
ISV15ME087	11	2	13	11	2	13	11	2	13	1	1	1	1	1	1.8	1.8	1.8	1.8	1.8	9	12.8	15.8	4.8	12.8	4.8	0.40	0.35	0.14	0.40	0.14	
ISV15ME090	12	0	12	12	0	12	12	0	12	1	1	1	1	1	4.2	4.2	4.2	4.2	4.2	21	17.2	17.2	5.2	17.2	5.2	0.51	0.39	0.15	0.51	0.15	
ISV16ME002	1	11	12	1	11	12	1	11	12	1	1	1	1	1	4.8	4.8	4.8	4.8	4.8	24	6.8	17.8	16.8	6.8	16.8	0.20	0.40	0.49	0.20	0.49	
ISV16ME003	2	10	12	2	10	12	2																								

**DEPARTMENT OF MECHANICAL ENGINEERING**

SUBJECT	AUTOMOTIVE ENGINEERING	SUBJECT CODE	15ME655
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COURSE OUTCOME

CO1	Apply the knowledge of engineering fundamental related to automobile engines to solve the complex engineering problems
CO2	Analyze the design of engine, transmission and controlling system to draw the conclusion on the basis of engineering sciences to address the performance parameters of the engines
CO3	Apply the knowledge of transmission, controlling, auxiliary systems and other support systems employed in automobile to find solution to complex engineering problems
CO4	To incorporate the contextual knowledge of standards and norms to address the safety and legal issues related to automobiles in ones professional engineering practice
CO5	demonstrate the knowledge of standards and norms towards automobile pollution and respective control system to address environment and sustainability issues

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.

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	SANTHOSH T U											
BRANCH	ME			ACADEMIC YEAR				2017-18				
COURSE	B.E	SEMESTER			VI	SECTION						
SUBJECT	AUTOMOTIVE ENGINEERING					SUBJECT CODE			15ME655			
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3											
CO2	1	2										
CO3	3	2										
CO4						2						
CO5						1	2					
AVERAGE	2.33	2				1.5	2					
OVERALL MAPPING OF SUBJECT												1.95

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	65.68	1.96											
CO2	63.39	0.63	1.26										
CO3	44.54	1.33	0.89										
CO4	65.68						1.31						
CO5	44.54						0.44	0.89					
AVERAGE	56.76	1.30	1.07				0.87	0.89					
FINAL ATTAINMENT LEVEL													1.03

[Signature]
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 S.I.E.T., TUMKUR -6

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**DEPARTMENT OF MECHANICAL ENGINEERING**

SUBJECT	TOTAL QUALITY MANAGEMENT	SUBJECT CODE	15ME664
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COURSE OUTCOME

CO1	Explain the various approaches of TQM
CO2	Infer the customer perception of quality
CO3	Analyze customer needs and perception to design feed back systems
CO4	Apply statistical tools for continuous improvement of systems
CO5	Apply the tools and technology for effective improvement of TQM

PROGRAM OUTCOMES

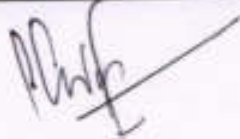
- PO1** Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.
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- PO3** Design / development of solutions: 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.
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- PO12** Life-long learning: A recognition of the need for, and an ability to engage in, to resolve contemporary issues and acquire lifelong learning.

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COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	MANTHA K M											
BRANCH	ME			ACADEMIC YEAR				2017-18				
COURSE	B.E	SEMESTER			VI	SECTION						
SUBJECT	TOTAL QUALITY MANAGEMENT					SUBJECT CODE			15ME664			
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2											1
CO2	2	2									1	1
CO3	2	2										1
CO4	2										1	1
CO5	2	2									1	1
AVERAGE	2	2									1	1
OVERALL MAPPING OF SUBJECT												1.5

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	73.91	1.47											0.73
CO2	65.53	1.31	1.31									0.65	0.65
CO3	43.62	0.87	0.87									0.43	0.43
CO4	73.91	1.43										0.73	0.73
CO5	43.62	0.87	0.87									0.43	0.43
AVERAGE	60.11	1.19	1.01									0.56	0.59
FINAL ATTAINMENT LEVEL													0.83


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**DEPARTMENT OF MECHANICAL ENGINEERING**

SUBJECT	OPERATION MANAGEMENT	SUBJECT CODE	10ME81
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COURSE OUTCOME

CO1	Understand the fundamental basis and nature of operation management techniques for the manufacturing Industry and also to assess a range of strategies for improving the efficiency and effectiveness of organizational operations
CO2	Analyze the appropriateness and applicability of a range of operations management systems/models in decision making and forecasting techniques.
CO3	Evaluate various facility alternatives and their capacity decisions and sequencing techniques in operations management environment.
CO4	Summarize Aggregate Planning & Master Scheduling methods by graphical, charting techniques and mathematical techniques as applied to product and process industries.
CO5	Assess the operational issues between Industry, vendor and customer by using Material Requirement Planning (MRP), Purchasing and Supply Chain Management (SCM).

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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COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	PRASHANTH S											
BRANCH	ME			ACADEMIC YEAR				2017-18				
COURSE	B.E	SEMESTER		VIII	SECTION							
SUBJECT	OPERATION MANAGEMENT						SUBJECT CODE		10ME81			
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3										1
CO2	3	3	2									1
CO3	3	3										1
CO4	3	3										1
CO5	3	3										1
AVERAGE	3	3										1
OVERALL MAPPING OF SUBJECT												2.33

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	80.08	2.40	2.40										0.80
CO2	84.54	2.53	2.53										0.84
CO3	67.45	2.02	2.02										0.67
CO4	80.08	2.40	2.40										0.80
CO5	67.45	2.02	2.02										0.67
AVERAGE	75.92	2.27	2.27										0.75
FINAL ATTAINMENT LEVEL													1.76

Prashanth S
H.O.D
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DEPARTMENT OF MECHANICAL ENGINEERING

SUBJECT	CONTROL ENGINEERING	SUBJECT CODE	10ME82
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COURSE OUTCOME

CO1	Identify the control system and its types , control actions
CO2	Construct the system governing equations for physical models(Electrical, Thermal, Mechanical, ElectroMechanical)
CO3	Analyze the gain of the system using block diagram and signal flow graph
CO4	Evaluate the stability of Control system in complex domain and frequency domain
CO5	Employ state equations to study the Bode's plot

PROGRAM OUTCOMES

- PO1** Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.
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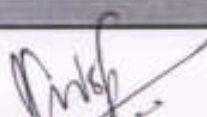
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Dept. of Mechanical
S I E T TUMKUR -6

PRINCIPAL
S I E T TUMKURU.

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	RAMESH H											
BRANCH	ME			ACADEMIC YEAR				2017-18				
COURSE	B.E	SEMESTER		VIII	SECTION							
SUBJECT	CONTROL ENGINEERING						SUBJECT CODE		10ME82			
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2											1
CO2	2	2	1									
CO3	2	2										
CO4	2	2	1									1
CO5	1	2	1									1
AVERAGE	1.8	1.6	0.6									1
OVERALL MAPPING OF SUBJECT												1.25

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	86.36	1.72											0.86
CO2	91.73	1.83	1.83	0.91									
CO3	76.76	1.53	1.53										
CO4	86.36	1.72	1.72	0.86									0.76
CO5	76.76	0.76	1.53	0.76									0.76
AVERAGE	83.59	1.51	1.65	0.84									0.79
FINAL ATTAINMENT LEVEL													1.19


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 SIET, TUMAKURU.



SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

DEPARTMENT OF MECHANICAL ENGINEERING

SUBJECT	POWER PLANT ENGINEERING	SUBJECT CODE	10ME833
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COURSE OUTCOME

CO1	Know about the different energy sources and power generation.
CO2	Understand the concept of hydrology and details about the hydroelectric power plant.
CO3	Ability to analyze steam cycle and learn about different handling systems used in steam power generators.
CO4	Understand the environmental norms and standards in thermal power generation.
CO5	Learn about combined cycles for power generation and diesel engine power plants.

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.

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COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	D S RAVIKUMAR											
BRANCH	ME			ACADEMIC YEAR				2017-18				
COURSE	B.E	SEMESTER			VIII	SECTION						
SUBJECT	POWER PLANT ENGINEERING					SUBJECT CODE			10ME833			
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	3										
CO2	3	3										
CO3	2	3										
CO4	2	3										
CO5	2	3										
AVERAGE	2.2	3										
OVERALL MAPPING OF SUBJECT												2.6

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	85.35	1.70	2.56										
CO2	97.56	2.92	2.92										
CO3	84.29	1.68	2.52										
CO4	85.35	1.70	2.56										
CO5	84.29	1.68	2.52										
AVERAGE	87.36	1.93	2.61										
FINAL ATTAINMENT LEVEL													2.27


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Academic year	2017-18			SEM I (30)			Total strength			TY			Subject			POWER PLANT ENGINEERING			Subject Code			ISEM031			Total Cse ATTAINMENT			% of individual Cse				
SEM I/18	IA TEST (30)			IA TEST (30)			IA TEST (30)			ASSIGNMENT / QUIZ (20)			CSE			SEE MARKS/30			CSE			CSE			CSE			CSE				
SRN	CO1	CO2	TOTAL	CO1	CO2	TOTAL	CO1	CO2	TOTAL	CO1	CO2	CO3	CO4	CO5	CO1-43	CO2	CO3	CO4	CO5	TOTAL	CO1-04	CO2-04	CO3-04	CO4-04	CO1-04	CO2	CO3	CO4	CO5	CO6	CO7	CO8
ISVT13ME031	11	13	24	11	13	24	11	13	24	1	1	1	1	1	8.6	8.6	8.6	8.6	8.6	8.6	47	21.8	21.8	21.8	21.8	21.8	0.80	0.78	0.85	0.83	0.89	
ISVT13ME034	11	8	19	11	8	19	11	8	19	1	1	1	1	1	8.6	8.6	8.6	8.6	8.6	8.6	48	22.0	22.0	22.0	22.0	22.0	0.80	0.80	0.89	0.86	0.89	
ISVT13ME037	11	7	18	11	7	18	11	7	18	1	1	1	1	1	8.6	8.6	8.6	8.6	8.6	8.6	48	22.0	22.0	22.0	22.0	22.0	0.80	0.80	0.89	0.86	0.89	
ISVT13ME038	11	8	19	11	8	19	11	8	19	1	1	1	1	1	7.2	7.2	7.2	7.2	7.2	7.2	46	20.2	20.2	20.2	20.2	20.2	0.80	0.82	0.85	0.89	0.89	
ISVT13ME043	11	7	18	11	7	18	11	7	18	1	1	1	1	1	10.4	10.4	10.4	10.4	10.4	10.4	52	22.4	22.4	22.4	22.4	22.4	0.80	0.80	0.89	0.86	0.89	
ISVT13ME049	11	7	18	11	7	18	11	7	18	1	1	1	1	1	8.6	8.6	8.6	8.6	8.6	8.6	42	21.4	21.4	21.4	21.4	21.4	0.80	0.81	0.87	0.84	0.87	
ISVT13ME076	1	24	25	1	24	25	1	24	25	1	1	1	1	1	8.6	8.6	8.6	8.6	8.6	8.6	42	21.4	21.4	21.4	21.4	21.4	0.80	0.80	0.89	0.86	0.89	
ISVT13ME078	11	10	21	11	10	21	11	10	21	1	1	1	1	1	8.6	8.6	8.6	8.6	8.6	8.6	42	21.4	21.4	21.4	21.4	21.4	0.80	0.81	0.87	0.84	0.87	
ISVT13ME081	11	8	19	11	8	19	11	8	19	1	1	1	1	1	8.6	8.6	8.6	8.6	8.6	8.6	42	21.4	21.4	21.4	21.4	21.4	0.80	0.81	0.87	0.84	0.87	
ISVT14ME001	11	24	25	11	24	25	11	24	25	1	1	1	1	1	8.6	8.6	8.6	8.6	8.6	8.6	48	22.0	22.0	22.0	22.0	22.0	0.80	0.80	0.89	0.86	0.89	
ISVT14ME003	11	8	19	11	8	19	11	8	19	1	1	1	1	1	14.2	14.2	14.2	14.2	14.2	14.2	71	28.2	28.2	28.2	28.2	28.2	0.77	0.81	0.86	0.77	0.86	
ISVT14ME007	11	12	25	11	12	25	11	12	25	1	1	1	1	1	11	11	11	11	11	11	55	25	25	25	25	25	0.74	0.75	0.76	0.81	0.86	
ISVT14ME008	11	12	25	11	12	25	11	12	25	1	1	1	1	1	11.8	11.8	11.8	11.8	11.8	11.8	59	25.8	25.8	25.8	25.8	25.8	0.79	0.80	0.81	0.81	0.86	
ISVT14ME011	11	12	25	11	12	25	11	12	25	1	1	1	1	1	11.4	11.4	11.4	11.4	11.4	11.4	57	25.4	25.4	25.4	25.4	25.4	0.79	0.80	0.81	0.81	0.86	
ISVT14ME014	11	12	25	11	12	25	11	12	25	1	1	1	1	1	11.8	11.8	11.8	11.8	11.8	11.8	59	25.8	25.8	25.8	25.8	25.8	0.79	0.80	0.81	0.81	0.86	
ISVT14ME015	11	14	28	11	14	28	11	14	28	1	1	1	1	1	11.4	11.4	11.4	11.4	11.4	11.4	57	25.4	25.4	25.4	25.4	25.4	0.79	0.80	0.81	0.81	0.86	
ISVT14ME019	11	10	22	11	10	22	11	10	22	1	1	1	1	1	11.8	11.8	11.8	11.8	11.8	11.8	59	25.8	25.8	25.8	25.8	25.8	0.79	0.80	0.81	0.81	0.86	
ISVT14ME020	11	10	22	11	10	22	11	10	22	1	1	1	1	1	11.8	11.8	11.8	11.8	11.8	11.8	59	25.8	25.8	25.8	25.8	25.8	0.79	0.80	0.81	0.81	0.86	
ISVT14ME022	11	8	19	11	8	19	11	8	19	1	1	1	1	1	11.8	11.8	11.8	11.8	11.8	11.8	59	25.8	25.8	25.8	25.8	25.8	0.79	0.80	0.81	0.81	0.86	
ISVT14ME024	11	11	22	11	11	22	11	11	22	1	1	1	1	1	10.6	10.6	10.6	10.6	10.6	10.6	53	24.6	24.6	24.6	24.6	24.6	0.79	0.79	0.79	0.74	0.81	
ISVT14ME027	11	12	25	11	12	25	11	12	25	1	1	1	1	1	11.8	11.8	11.8	11.8	11.8	11.8	59	25.8	25.8	25.8	25.8	25.8	0.79	0.80	0.81	0.81	0.86	
ISVT14ME030	11	12	25	11	12	25	11	12	25	1	1	1	1	1	11.2	11.2	11.2	11.2	11.2	11.2	56	24.2	24.2	24.2	24.2	24.2	0.79	0.80	0.81	0.81	0.86	
ISVT14ME044	11	10	22	11	10	22	11	10	22	1	1	1	1	1	11.8	11.8	11.8	11.8	11.8	11.8	59	25.8	25.8	25.8	25.8	25.8	0.79	0.80	0.81	0.81	0.86	
ISVT14ME045	11	10	22	11	10	22	11	10	22	1	1	1	1	1	11.2	11.2	11.2	11.2	11.2	11.2	56	24.2	24.2	24.2	24.2	24.2	0.79	0.80	0.81	0.81	0.86	
ISVT14ME048	11	12	25	11	12	25	11	12	25	1	1	1	1	1	8.6	8.6	8.6	8.6	8.6	8.6	47	21.8	21.8	21.8	21.8	21.8	0.80	0.80	0.89	0.86	0.89	
ISVT14ME050	11	8	19	11	8	19	11	8	19	1	1	1	1	1	8.6	8.6	8.6	8.6	8.6	8.6	47	21.8	21.8	21.8	21.8	21.8	0.80	0.80	0.89	0.86	0.89	
ISVT14ME053	11	8	19	11	8	19	11	8	19	1	1	1	1	1	10.4	10.4	10.4	10.4	10.4	10.4	52	22.4	22.4	22.4	22.4	22.4	0.80	0.80	0.89	0.86	0.89	
ISVT14ME055	11	12	25	11	12	25	11	12	25	1	1	1	1	1	11.2	11.2	11.2	11.2	11.2	11.2	56	24.2	24.2	24.2	24.2	24.2	0.79	0.80	0.81	0.81	0.86	
ISVT14ME054	11	12	25	11	12	25	11	12	25	1	1	1	1	1	11.2	11.2	11.2	11.2	11.2	11.2	56	24.2	24.2	24.2	24.2	24.2	0.79	0.80	0.81	0.81	0.86	
ISVT14ME057	11	12	25	11	12	25	11	12	25	1	1	1	1	1	7.8	7.8	7.8	7.8	7.8	7.8	39	15.8	15.8	15.8	15.8	15.8	0.80	0.80	0.89	0.86	0.89	
ISVT14ME058	11	12	25	11	12	25	11	12	25	1	1	1	1	1	11.8	11.8	11.8	11.8	11.8	11.8	59	25.8	25.8	25.8	25.8	25.8	0.79	0.80	0.81	0.81	0.86	
ISVT14ME059	11	8	19	11	8	19	11	8	19	1	1	1	1	1	11.8	11.8	11.8	11.8	11.8	11.8	59	25.8	25.8	25.8	25.8	25.8	0.79	0.80	0.81	0.81	0.86	
ISVT14ME060	11	12	25	11	12	25	11	12	25	1	1	1	1	1	8	8	8	8	8	8	40	16	16	16	16	16	0.80	0.80	0.89	0.86	0.89	
ISVT14ME062	11	12	25	11	12	25	11	12	25	1	1	1	1	1	11.4	11.4	11.4	11.4	11.4	11.4	57	25.4	25.4	25.4	25.4	25.4	0.79	0.80	0.81	0.81	0.86	
ISVT14ME063	11	12	25	11	12	25	11	12	25	1	1	1	1	1	11.8	11.8	11.8	11.8	11.8	11.8	59	25.8	25.8	25.8	25.8	25.8	0.79	0.80	0.81	0.81	0.86	
ISVT14ME064	11	12	25	11	12	25	11	12	25	1	1	1	1	1	11.8	11.8	11.8	11.8	11.8	11.8	59	25.8	25.8	25.8	25.8	25.8	0.79	0.80	0.81	0.81	0.86	
ISVT14ME065	11	12	25	11	12	25	11	12	25	1	1	1	1	1	11.8	11.8	11.8	11.8	11.8	11.8	59	25.8	25.8	25.8	25.8	25.8	0.79	0.80	0.81	0.81	0.86	
ISVT14ME066	11	12	25	11	12	25	11	12	25	1	1	1	1	1	11.8	11.8	11.8	11.8	11.8	11.8	59	25.8	25.8	25.8	25.8	25.8	0.79	0.80	0.81	0.81	0.86	
ISVT14ME067	11	12	25	11	12	25	11	12	25	1	1	1	1	1	11.8	11.8	11.8	11.8	11.8	11.8	59	25.8	25.8	25.8	25.8	25.8	0.79	0.80	0.81	0.81	0.86	
ISVT14ME068	11	12	25	11	12	25	11	12	25	1	1	1	1	1	11.8	11.8	11.8	11.8	11.8	11.8	59	25.8	25.8	25.8	25.8	25.8	0.79	0.80	0.81	0.81	0.86	
ISVT14ME069	11	12	25	11	12	25	11	12																								



DEPARTMENT OF MECHANICAL ENGINEERING

SUBJECT	FOUNDARY TECHNOLOGY	SUBJECT CODE	10ME844
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COURSE OUTCOME

CO1	Understand the conceptual knowledge of casting such as casting methods, pattern and pattern allowances.
CO2	Understand the concept of moulding, core making and comparison of different moulding procedures
CO3	Understand the gating system and casting method to rise ring practices
CO4	Learn the casting defects their causes and remedies
CO5	Understand the conceptual and procedural knowledge to produce the economical and defect free castings

PROGRAM OUTCOMES

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

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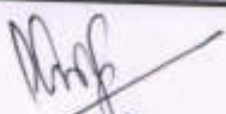
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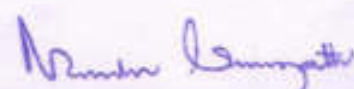
PRINCIPAL
SIET, TUMAKURU.

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	S M SHASHIDARA											
BRANCH	ME			ACADEMIC YEAR				2017-18				
COURSE	B.E	SEMESTER		VIII	SECTION							
SUBJECT	FOUNDARY TECHNOLOGY					SUBJECT CODE		10ME844				
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	2										
CO2	2	3										
CO3	2	3										
CO4	2	3										
CO5	2	3										
AVERAGE	2	2.8										
OVERALL MAPPING OF SUBJECT												2.4

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	87.87	1.75	1.75										
CO2	93.50	1.87	2.80										
CO3	79.04	1.58	2.37										
CO4	87.87	1.75	2.63										
CO5	79.04	1.58	2.37										
AVERAGE	85.46	1.70	2.38										
FINAL ATTAINMENT LEVEL													2.0


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