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

# ODD SEM 2020-21



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

## DEPARTMENT OF ME

SUBJECT MECHANICS OF MATERIAL	SUBJECT CODE	18ME32
-------------------------------	--------------	--------

## COURSE OUTCOME

CO1	Apply an engineering knowledge to demonstrate the behavior of materials
CO2	Analyze the thin and thick cylinders and draw a stress distribution curve, also to create Mohr's circle diagram for plane stress conditions.
CO3	Determine the various forces and moments in beams
CO4	Evaluate the dimensions of mechanical elements for various applications.
CO5	Compare different strain energy methods and theories of failures in design of machineries

#### PROGRAM OUTCOMES

H.O.D

Dept. of Mechanical

S.I.E.T., TUMKUR -6

- 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.

PRINCIPAL SIET. TUMAKURU.

COLLEGE		SHR	IDEVI	INST	ITUTE	OFE	NGIN	EERIN	G&T	ECHN	OLOG	Y
FACULTY	Y NAN	TE	Maltes	ha P J								
BRAN	NCH			ME		A	CAD	EMIC Y	EAR	T	2020	)-21
COURSE	B.	E	SEM	IESTE	R	Ш		SECTIO	N			
SUBJECT	8	MECI	IANIC	SOF	MATE	RIAL		SUBJE	CT C	ODE	18M	E32
CO & PO M	APPI	NG									22.00	58.00.5
	PO1	PO2	PO3	PO4	PO5	P06	PO7	PO8	PO9	PO10	PO11	PO12
COI	3	1		MA	A GE			188	1 113			
CO2	1	2						11111				Fill
CO3	1	3				19			2100			
C04	2	3										100000
CO5	3	2		283		1000			STATE	1000	Pays.	1
AVERAGE	2	2.2										
3111				1000		OVE	RALI	MAPI	INC	DE CEUD	TECH	2.1

- September 1	CON	HINGOID.	WEST !	New	Sec.	-							
0	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
COI	40.66	1.21	0.40										- III
CO2	57.02	0.57	1.14				E Is						
CO3	39.00	0.39	1.17	3350			100					E980	
CO4	40.66	0.81	1.21										
CO5	39.00	1.17	0.78	1000	100		1000	All S	200			1000	
AVERAGE	43.26	0.83	0.94										
	A PARTY						3000	FINA	LATI	TAINM	ENTL	EVE	0.88
	10						8 8	1 1000	AGAIN		T	EVEL	

H.O.D Dept. of Mechanical S.I.E.T., TUMKUR -6

PRINCIPAL SIET, TUMAKURU.

Academie year	2020	0-21		SEM	III		To	tal str	ength	23	L	Sub	ject	MECH	ANICS O	FMAT	ERIAL		Subj	ect Code	18N	IE32	in the same	1					
SEMERI	IA T	EST 1	(30M)	LAT	TEST 2	(30M)	IAT	EST.	3(30M)	ASS	IGNEA	HENT /	QUIZ(I	0 M)		SEE	MARKS	(60)		To U.S.	Total C	ON ATTAIL	NMENT		-	% of	individu	sal CO	
USN	C01	CO2	TOTAL	C02	CO3	TOTAL	C04	CO5	TOTAL	COL	C02	C03	C04	COS	CO1=12	CO2	C03	C04	CO5	CO1=34	C02=44	C03=34	CO4-34	CO5=34	COL	CO2	CO3	C04	1
SV17ME005	5	5	10	5	5	10	5	5	10	2	2	2	2	2	0	0	0	0	0	7	12	7	7	7	0.21	0.27	0.21	0.21	
SVI8ME003	1.2	15	27	12	15	27	12	15	27	2	2	2	2	2	0	0	0	0	0	14	29	17	14	1.7	0.41	0.66	0.50	0.41	
SV18ME008	15	13	28	15	13	28	15	13	28	2	2	2	2	2	0	0	0	0	0	17	30	15	17	15	0.50	0.68	0.44	0.50	T
SV18ME010	11	12	23	11	12	23	11	12	23	2	2	2	2	2	0	0	0	0	0	13	25	14	13	14	0.38	0.57	0.41	0.38	T
SV18ME011	10	13	23	10	13	23	10	13	23	2	2	2	2	2	0	0	0	0	0	12	25	15	12	15	0.35	0.57	0.44	0.35	Т
SV18ME012	13	13	26	13	13	26	13	13	26	2	2	2	2	2	0	0	0	0	0	15	28	15	15	15	0.44	0.64	0.44	0.44	T
SV18ME013	14	12	26	14	12	26	14	12	26	2	2	2	2	2	0	0	0	0	0	16	28	14	16	14	0.47	0.64	0.41	0.47	1
SV19ME001	10	17	27	10	17	27	10	17	27	2	2	2	2	2	0	0	.0	0	0	12	29	19	12	19	0.35	0.66	0.56	0.35	T
SV19ME002	10	14	24	10	14	24	10	14	24	2	2	2	2	2	0	0	0	0	0	12	26	16	12	16	0.35	0.59	0.47	0.35	T
SV19ME003	12.	8	20	12	8	20	12	8	20	2	2	2	2	2	0	0	0	0	0	14	22	10	14	10	0.41	0.50	0.29	0.41	Ť
SV19ME004	14	8	22	14	8	22	14	В	22	2	2	2	2	2	0	0	0	0	0	16	24	10	16	10	0.47	0.55	0.29	0.47	Ħ
SV19ME005	15	8	23	15	8	23	15	8	23	2	2	2	2	2	0	0	.0	0	0	17	25	10	17	10	0.50	0.57	0.29	0.50	7
SV19ME006	12	16	28	12	16	28	12	16	28	2	2	2	2	2	0	0	0	0	0	14	30	18	14	18	0.41	0.68	0.53	0.41	1
SV19ME010	13	13	26	13	13	26	13	13	26	2	2	2	2	2	0	0	0	0	0	15	28	15	15	15	0.44	0.64	0.44	0.44	T
SV19ME011	10	13	23	10	13	23	10	13	23	2	2	2	2	2	0	0	0	0	0	12	25	15	12	15	0.35	0.57	0.44	0.35	1
SV19ME012	14	7	21	14	7	21	14	7	21	2	2	2	2	2	0	0	0	0	0	16	23	9	16	9	0.47	0.52	0.26	0.47	-
SV19ME013	12	9	21	12	9	21	12	9	21	2	2	2	2	2	0	0	0	0	0	14	23	11	14	11	0.41	0.52	0.32	0.41	-
SV19ME014	10	12	22	10	12	22	10	12	22	2	2	2	2	2	0	0	0	0	0	12	24	14	12	14	0.35	0.55	0.41	0.35	-
SV19ME015	15	-2	13	15	-2	13	15	-2	13	2	2	2	2	2	0	0	0	0	0	17	15	0	17	0	0.50	0.34	0.00	0.50	-
SV20ME400	10	17	27	10	17	27	10	17	27	2	2	2	2	2	0	0	0	0	0	12	29	19	12	19	-	0.66	0.56	-	-
SV20ME401	13	13	26	13	13	26	13	13	26	2	2	2	2	2	0	0	0	0	0	15	28	15	15	15	0.44	0.64	0.44	<b>INCOMPANIES</b>	-
SV20ME402	10	10	20	10	10	20	10	10	20	2	2	2	2	2	0	0	0	0	0	12	22	12	12	12	0.35	0.50	0.35	0.35	-
SV20ME403	12	13	25	12	13	25	12	13	25	2	2	2	2	2	0	0	0	0	0	14	27	15	14	15	0.41	0.61	-	0.41	-
TOTAL	272	259	531	272	259	531	272	259	531	46	46	46	46	46	0	0	0	0	0	318	577	305	318	305	-	13.11	-	9.35	-
o of Students	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	1
Average	Annual Annual	and distance	THE REAL PROPERTY.	the Contract of	11.76	23.09	11.83	11.3	23.087	2	2	2	2	2	0	0	0	0	0	13.83	25.09	13.26	13.83	13.26	40.66		100	40.66	đ

PRINCIPAL SIET., TUMAKURU.



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

## DEPARTMENT OF ME

SUBJECT BASIC THERMODYNAMICS SUBJECT CODE 18ME3.	SUBJECT	BASIC THERMODYNAMICS	SUBJECT CODE	18ME33
--------------------------------------------------	---------	----------------------	--------------	--------

#### COURSE OUTCOME

CO1	Explain fundamentals of thermodynamics and evaluate energy interactions across the boundary of thermodynamic systems.
CO2	Apply 1st law of thermodynamics to closed and open systems and determine quantity of energy transfers and change in properties.
CO3	Apply the knowledge of entropy and 2nd law of thermodynamics to solve numerical problems.
CO4	Interpret the behavior of pure substances and its application in practical problems, reversibility and irreversibility to solve numerical problems.
CO5	Evaluate thermodynamic properties of ideal and real gas mixtures using various relations.

### 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.

SIET. TUMAKURU.

H.O.D Dept. of Mechanical S.I.E.T., TUMKUR -6

COLLEGE		SHR	DEVI	INSTI	TUTE	OF E	NGIN	EERIN	G & T	ECHNO	LOGY	
FACULTY	NAM	E I	) S Ra	vikuma	ır					211		
BRAN	СН		1	ME	1	A	CADI	EMIC Y	EAR		2020	-21
COURSE	В.	E	SEM	ESTE	R	ш	S	ECTIO	N			
SUBJECT		BASIC	THE	RMOD	YNAN	AICS		SUBJE	ст сс	ODE	18M	E33
CO & PO M	APPI	NG										
	PO1	PO2	PO3	PO4	PO5	P06	PO7	PO8	PO9	PO10	PO11	PO12
COI	3	18.80										CONTRACT OF THE PERSON NAMED IN
CO2	3	2										7
CO3	3	2	150			100			189			
CO4	3	2	1									
CO5	3		1	Bu					188	1	1100	133
AVERAGE	3	2	1								348	
	44		2/4	Sein	-	OVI	RAL	L MAP	PING	OF SUI	BJECT	2.0

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
~ CO1	41.30	1.23		2332									
CO2	57.71	1.71	1.15										
CO3	40.28	1.20	0.80		159		E VA	H		13/3			SES.
CO4	41.30	1.23	0.82	0.40									
COS	40.28	1.20	1000	0.41		1000					618	le le	98
AVERAGE	44.17	1.31	0.92	0.40									
NA		9	100	0.2			3 33	FINA	AL AT	TAINN	MENT L	EVEL	0.87

Dept. of Mechanical S.I.E.T., TUMKUR -6

PRINCIPAL SIET TUMAKURU.

Academic year	-	0-21		SEM	III	1	Te	ital str	rength	2.3		Sut	iject	BA.	SIC THERM	PODYNAN	nes		Subj	ect Code	18N	IE33							
SEMITH	THE PERSON NAMED IN	Top Control Asso	1(30M)	-	TEST ?	2(3051)	IA 7	EST.	3(30Mt)	ASS	SIGNEN	MENT /	QUIZ(1	0 M)		SEE	MARK	S(60)	U.L.	House	Total C	os ATTAP	MENT	Common or other designation of the last of	June	% of	Individu	ual CO	-
USN	COL	C01	TOTAL	C02	CO3	TOTAL	C04	COS	TOTAL	COL	CO2	CO3	CO4	C05	CO1=12	COI	CO3	C04	CO5	CO1=34	C02=44	C03=34	CO4=34	C05=34	CO1	C02	CO3	C04	0
1SV17ME005	14	6	20	14	- 6	20	14	6	20	2	2	2	2	2	0	0	0	0	0	16	14	8	16	8	0.47	0.32	0.24	0.47	0.3
1SV18ME003	14	15	29	14	15	29	14	15	29	2	2	2	2	2	0	0	0	0	0	16	32	17	16	17	0.47	0.73	0.50	0.47	0.5
1SV18ME008	10	19	29	10	19	29	10	19	29	2	2	2	2	2	0	0	0	0	0	12	40	21	12	21	0.35	0.91	0.62	0.35	0.6
1SV18ME010	13	10	23	13	10	23	13	10	23	2	2	2	2	2	0	0	0	0	0	15	22	12	15	12	0.44	-	0.35	0.44	0.3
1SV18ME011	15	7	22	15	7	22	15	7	22	2	2	2	2	2	0	0	0	0	0	17	16	9	17	9	0.50	-		-	-
ISV18ME012	12	8	20	12	8	20	12	8	20	2	2	2	2	2	0	0	0	0	0	14	18	10	14	10	0.41	<b>CHOCKEDON</b>	<b>EXPENSAGE</b>	Section 1	0.2
1SV18ME013	13	10	23	13	10	23	13	10	23	2	2	2	2	2	0	0	0	0	0	15	22	12	15	12	0.44	-	0.35	0.44	0.3
1SV19ME001	10	19	29	10	19	29	10	19	29	2	2	2	2	2	0	0	0	0	0	12	40	21	-12	21	0.35	Anna anna	0.62	0.35	0.6
1SV19ME002	12	14	26	12	14	26	12	14	26	2	2	2	2	2	0	0	0	0	0	14	30	16	14	16	0.41	-	0.47	0.41	0.4
15V19ME003	10	7	17	10	7	17	10	7	17	2	2	2	2	2	0	0	0	0	0	12	16	9	12	9	0.35	and the same of the	0.26	0.35	0.2
1SV19ME004	12	12	24	12	12	24	12	12	24	2	2	2	2	2	0	0	0	0	0	14	26	14	14	14	0.41	-	0.41	-	-
1SV19ME005	13	9	22	13	9	22	13	9	22	2	2	2	2	2	0	0	0	0	0	15	20		-	-	0.44	arbeite de de la constante	-		0.4
1SV19ME006	14	14	28	14	14	28	14	14	28	2	2	2	2	2	0	0	0	0	0	-		11	15	11	-	100000	-	-	0.3
ISV19ME010	10	11	21	10	11	21	10	11	21	2	2	2		_	0	_		-	_	16	30	16	16	16	0.47	1,747114	0.47	111.53	0.4
1SV19ME011	11	14	25	11	14	25	-	14	- Carlotte	_		-	2	2	-	0	0	0	0	12	24	13	12	13	0.35	0.55	0.38	0.35	0.3
1SV19ME012	14	9	23	14	9	-	11	-	25	2	2	2	2	2	0	0	0	0	0	13	30	16	13	16	0.38		0.47		0.4
ISV19ME013	12	8	20	-	_	23	14	9	23	2	2	2	2	2	0	0	0	0	0	16	20	11	16	11	0.47	0.45	0.32	-	0.3
ISV19ME013	10	16	26	12	8	20	12	8	20	2	2	2	2	2	0	0	0	0	0	14	18	10	14	10	0.41	Name and Address of		0.41	0.2
1SV19ME015		10		10	16	26	10	16	26	2	2	2	2	2	0	0	0	0	0	12	34	18	12	18	-	-	0.53	and the same	0.5
1SV20ME400	13		20	13	7	20	13	7	20	2	2	2	2	2	0	0	0	0	0	15	16	9	15	9	0.44	And in case of			0.2
THE RESERVE OF THE PERSON NAMED IN	12	14	26	12	14	26	12	14	26	2	2	2	2	2	0	0	0	0	0	14	30	16	14	16	0.41	0.68	0.47	0.41	0.4
1SV20ME401	10	15	25	10	15	25	10	15	25	2	2	2	2	2	0	0	0	0	0	12	32	17	12	17	0.35	0.73	0.50	0.35	0.5
ISV20ME402	11	9	20	11	9	20	11	9	20	2	2	2	2	2	0	0	0	0	0	13	20	11	13	11	0.38	0.45	0.32	0.38	0.3
ISV20ME403	12	16	28	12	16	28	12	16	28	2	2	2	2	2	0	0	0	0	0	14	34	18	14	18	0.41	0.77	0.53	0.41	0.5
TOTAL	277	269		277	269	546	277	269	546	46	46	46	46	46	0	0	0	0	0	323	584	315	323	315	9.50	13.27	9.26	9.50	9.2
No of Students	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
Average	12.04	11.7	23.739	12	11.7	23.74	12.04	11.7	23.739	2	2	2	2	2	0	0	0	0	0	14.04	25.39	13.70	14.04	13.70	41.30	57.71	40.28	41.30	40.7

PRINCIPAL SIET., TUMAKURU.



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

## DEPARTMENT OF ME

SUBJECT	MATERIAL SCIENCE	SUBJECT CODE	18ME34

#### COURSE OUTCOME

CO1	Understand the fundamentals of structure and behavior of engineering materials for various mechanical applications
CO2	Analyze the various modes of failure of engineering material
CO3	Assess the structural and physical properties of engineering materials through various heat treatment process
CO4	Perceive various properties of composites, its application and to provide an alternate to conventional structural materials
CO5	Propose alternate materials which are sustainable, economic and enable new product generation

#### 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.

Dept. of Mechanical

COLLEGE		J	DEVI	11011	···	OF E	, on the	SERII!	J & 1	ECHNO	LOGI	ž .
FACULTY	NAM	E 1	RAVI I	KUMA	RKR							
BRAN	СН		1	ME		A	CADE	MIC Y	EAR		2020	-21
COURSE	В.	E	SEM	ESTE	R	ш	s	ECTIO	N			
SUBJECT		M	ATERI	IAL SC	CIENC	E		SUBJE	CT C	ODE	18M	E34
CO & PO M	APPI	NG										
A STATE	PO1	PO2	PO3	PO4	PO5	P06	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	-		1216	10/3				7/4			12.3
CO2		2								P		
CO3	3	135		1200	335	1			120			13
CO4		2						113				
CO5	3	1323	188	16.5					West.		W SA	
AVERAGE	3	2								1	IB	

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
~ CO1	57.70	1.73	250	536									
CO2	60.10		1.20	Tina a				T. C.					
CO3	45.81	1.37	19/10		100			HE				E STATE	100
CO4	58.34		1.16										
CO5	44.53	1.33						BE			100 m	1000	
AVERAGE	53.29	1.47	1.18										
			No. of			Test.	100	FINA	LAT	FAINN	IENT L	EVEL	1.32

H.O.D Dept. of Mechanical S.I.E.T., TUMKUR -6

PRINCIPAL SIET, TUMAKURU.

Academic year	263			SEM	-		Name and Address of the Owner, where	stal str		2.3		Sal	hjest	M/	TERIAL	SCIE	VCE			Subject (	Code	188	0034							
SEMOII	_	_	(30M)	-	EST 2	girentone Miss	Accession to the last of the l		M(MM)	ASS	HIGNES	MENT/	QUIZO	6 M)		SEE	MARK	S(60)				Total C	o ATTAIN	MENT			% of	individu	MI CO	
USN	COL	CO2	TOTAL	CO3	COF	TOTAL	C04	COS	TOTAL	COL	C03	CO3	C04	C05	C01=12	C01	C03	C04	COS	TOTAL	C01×34	C02=44	C03-34	C04-34	C05=34	CO1	COS	C03	C04	C
1SV17ME005	7	1	. 8	11	1	12	5	5	10	2	2	2	2	2	4.8	14.8	4.8	4.8	4.0	24	13.8	18.8	7.8	11.8	11.8	0.41	0.43	0.23	0.35	0.3
15V18ME003	13	10	23	19	6	25	13	11	24	2	2	2	2	2						40	23	39	16	23	21	0.68	0.89	0.47	0.68	0.6
1SV18ME008	16	7	23	18	9	27	16	9	25	2	2	2	2	2	5.4	5.4	5.4	5.4	5.4	27	23.4	32.4	16.4	23.4	16.4	0.69	0.74	0.48	0.69	0.4
15V18ME010	18	4	22	11	15	26	13	11	24	2	2	2	2	2	4.8	4.8	4.8	4.8	4.8	24	24.8	21.8	21.8	19.8	17.8	0.73	8.50	0.64	0.58	0.5
1\$V18ME011	12	9	21	17	6	23	12	13	25	2	2	2	2	2	2.8	2.8	2.8	2.8	2.8	14	16.8	30.8	10.8	16.8	17.8	0.49	0.70	0.32	0.49	0.5
15V18ME012	26	5	21	10	17	27	16		24	2	2	2	2	2	3.6	3.6	3.6	3.6	3.6	18	21.6	20.6	22.6	21.6	13.6	0.64	0.47	0.66	0.64	0.4
1SV18ME013	13	14	27	11	15	26	18	7	25	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	21	19.2	81.2	21.2	24.2	19.2	0.56	0.71	0.62	0.71	0.3
15V19ME001	12	14	26	13	14	27	19	9	26	2	2	2	2	2	1.2	3.2	3.2	3.2	5.2	16	17.2	82.2	19.2	24.2	14.2	6.51	0.73	0.56	0.71	0.4
1SV19ME002	19	6	25	15	14	29	19	8	27	2	2	2	2	2	4.8	4.1	4.8	4.8	4.8	24	25.8	27.8	20.8	25.8	14.8	0.76	0.63	0.61	0.76	0.4
1SV19ME003	12	6	18	19	1	20	13	9	22	2	2	2	2	2	0	0	0	0	0	0	14	27	3	15	11	0.41	0.61	0.09	0.44	0.3
15V19ME004	11	0	20	11	13	24	15	10	25	1	2	2	2	2	3.6	3.6	1.6	3.6	3.6	18	16.6	25.6	18.6	20.6	15.6	0.49	0.58	0.55	0.61	0.4
1SV19ME005	17	11	26	14	11	25	18	12	25	2	2		2	1	5.4	5.4	5.4	5.4	5.4	27	24.4	32.4	18.4	20.4	19.4	0.72	0.74	0.54	-	0.4
1SV19ME006	14	12	26	14	14	28	11	16	27	2	2	-	2	2	5.2	5.2	minute state	5.2	5.2	26	21.2	-			-	-	-	-	0.60	-
15V19ME010	18	0	18	17	2	19	12	11	23	2	2	- 2	2	2	4.2	The Person named in	5.2	-	-	-	-	33.2	21.2	18.2	23.2	0.62	0.75	indistant/vi	0.54	0.6
ISV19ME011	12	1	13	12	- 5	14	10	5	15	2		-	-	_	44	4.2	4.2	4.2	4.2	21	24.2	23.2	8.2	18.2	17.2	0.71	0.53	0.24	0.54	0.5
15V19ME012		4	14		-	15	12	-	16	2	2	-	2	2	-/-	-	7	7	7	35	21	22	11	19	14	0.62	0.50	0.32	0.56	0.4
ISV19ME013		9	17	10	10	20	-	*	-	_	2	2	2	2	2.4	2.4	2.4	2.4	2,4	12	13.4	17.4	11.4	16.4	8.4	0.39	0.40	2130	0.48	0.2
15V19ME013		3	-		10		19	4	23	2	2	2	2	2	2,4	2,4	2.4	2.4	2,4	12	12.4	23.4	14.4	23.4	8.4	0.36	0.51	0.42	0.69	0.2
1SV19ME014	9	4	11	9	-	12	3		13	- 2	2	2	2	2	5.2	5.2	5.2	5.2	5.2	26	16.2	18.2	10.2	12.2	15.2	0.48	0.41	0.30	0.36	0.4
THE P. P. LEWIS CO., LANSING, MICH.	12	4	16	13	. 1	14	1.3	2	15	2	2	2	2	2	6.4	6.4	6.4	6.4	6.4	52	20.4	25.4	9.4	21.4	10.4	0.60	0.58	0.28	0.63	0.8
1SV20ME400	18		26	15	12	27	18	10	26	2	2	2	2	- 2	2.4	2.4	2.4	2.4	2.4	12	22.4	27.4	16.4	22.4	14.4	0.66	0.62	0.48	0.66	0.4
1SV20ME401	12	12	24	10	15	25	12	14	26	2	2	2	2	2	. 1	1	3.	3	3	15	17	27	20	17	19	0.50	0.61	0.59	0.50	0.5
ISV20ME402	11		1.0	11	10	21	11	- 9	20	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	21	17.2	25.2	16.2	17.2	15.2	0.51	0.57	0.48	0.51	0.4
ISV20ME403	19		27	12	17	29	18	10	28	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	21	25.2	26.2	28.2	24.2	16.2	0.74	0.60	0,68	0.71	0.4
TOTAL	308	165	473	300	215	515	313	205	518	45	46	46	46	46	97.2	97.2	97.2	97.2	97.2	486	451.2	608.2	358.2	456,2	348.2	11.27	13.82	10.54	13.42	10.2
No of Students	23	23	23	28	23	23	23	23	23	23	23	23	23	2.9	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	29
Average	13.39	7.17	20.565	13	9.348	22.29	13.61	8.91	22.5	2	2	2	2	2	4.23	4.23	4.29	4.23	4.23	21.13	19.67	26.44	15.57	19.83	15.14	57.70	60.10	45.81	58.34	44.5

PRINCIPAL SIET.. TUMAKURU.



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

## DEPARTMENT OF ME

SUBJECT	Metal Cutting and Forming	SUBJECT CODE	18ME35A

COURSE OUTCOME

CO1	Apply the knowledge of metal cutting using basic machine tools fro the production of components
CO2	Choose the right cutting material and fluids and also evaluate cutting tool parameters for different machining operations
CO3	Evaluate tool life on the basis of wear and wear rate and also discuss the economics of machining process of various cutting tool
CO4	Apply the knowledge of sheet metal forming for production of components
CO5	Design different sheet metal dies for simple sheet metal components

#### 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.

PRINCIPAL SIET, TUMAKURU.

Dept. of Mechanical S.I.E.T., TUMKUR -6

COLLEGE		SHR	IDEVI	INST	TUTE	OFE	NGIN	EERIN	G & T	ECHN	OLOGY	Y
FACULTY	Y NAM	1E	J C Th	ippesw	amy							
BRAN	NCH			ME		. А	CAD	EMIC Y	EAR		2020	-21
COURSE	B.	E	SEM	ESTE	R	Ш	1	SECTIO	N			
SUBJECT		Met	al Cutti	ing and	Form	ing		SUBJE	CT C	ODE	18ME	35A
CO & PO M	APPI	NG										
	PO1 PO		PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
COI	3	2	1			Half.		1333				
CO2	3	2										
CO3	3	2	1			535						
CO4	3	2										
CO5	3	2						1100				
AVERAGE	3	2	1									
		SIR	119	1100		OVE	RALI	L MAPI	PING (	OF SUR	JECT	2.0

0.78 1.08 0.78	0.39						PO10		PO12
0.78	0.39								
	0.39		363						
COLUMN TO	-	The second second		100000	200	1800	130	MESO.	
0.78		100							
0.78	200	388		2003	1868	1886	BASS	1000	
0.84	0.39								
					0.84 0.39	0.84 0.39	0.84 0.39	0.84 0.39	

H.O.D Dept. of Mechanical S.I.E.T., TUMKUR -6

PRINCIPAL SIET, TUMAKURU.



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

## DEPARTMENT OF ME

SUBJECT	COMPUTER AIDED MACHINE DRAWING	SUBJECT CODE	18ME36A
---------	-----------------------------------	--------------	---------

#### COURSE OUTCOME

CO1	To read and understand the orthographic and sectional views of various machine component
CO2	To develop 3D models using modeling software's
CO3	To produce 2D drawings by manual drafting and by using drafting packages
CO4	To construct assembly drawings, part drawings and Bill of materials as per BIS Conventions
CO5	To apply limits fits and tolerance to all assemblies and part drawings

#### PROGRAM OUTCOMES

HO.D

Dept. of Mechanical S.I.E.T., TUMKUR -6

- 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.

PRINCIPAL SIET. TUMAKURU.

COLLEGE		SHR	IDEVI	INST	ITUTE	OFE	NGIN	EERIN	G&T	ECHN	OLOG	Y
FACULT	Y NAN	1E	PRASI	HANT	HS							
BRAN	NCH			ME		A	CAD	EMIC Y	EAR	T	2020	)-21
COURSE	B.	E	SEM	ESTE	R	ш	1	SECTIO	ON			
SUBJECT	(	COMP	UTER DR	AIDEI		CHINE		SUBJE	CT C	ODE	18MF	36A
CO & PO M	IAPPI	NG				•						
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
COI	2			100				100				ENE
CO2	2				2							
CO3	2				2	60					2000	Real Property lies
CO4	2		2		2			365				
CO5	2	100		188	-58	200		1000			2000	2
AVERAGE	2		2		2							2
			1	Tall.	1000	OVE	RALI	MAPE	PING (	DE SUID	IFCT	2.0

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	POIS
CO1	42.84	0.85	7,89										.01.
CO2	62.45	1.24	or and			1.24							
CO3	43.86	0.87			3 3	0.87	100			1000		Sec.	
CO4	42.84	0.85		0.85		0.85						1957	
CO5	43.86	0.87	STEET				ER	1000			E 100		0.87
AVERAGE	47.17	0.93		0.85		0.98							0.87
	Wine.	THE REAL PROPERTY.	1964		18-18			FINA	LATI	CAINM	ENT L	EVEL	0.90

H.Ø.D Dept. of Mechanical S.I.E.T., TUMKUR -6

PRINCIPAL SIET. TUMAKURU.

Academic year	The second lives and	0-21		SEM	1000		_	-	rength	23			bject		ter aided i	nuchine	drawin		Subje	et Code	18M	E36A					10.0		
SEMILI	-	EST	The state of the last	Name and Address of the Owner, where	TEST 2	Section 1	-	-	3(30M)	-	-	HENT /	QUIZ(1	0 M)		SEE	MARKS	5(60)			Total Co	SATTAL	NMENT	1		% of	individ	fual CO	,
USN	C01	-	-		C03	_	-	C05	TOTAL	COI	C02	C03	C04	C05	CO1~12	CO3	CO3	C04	CO5	CO1-34	CO2=44	CO3=34	CO4-34	C05=34	CO1	C02	COJ	C04	C
1SV17ME005	-	8	20	12	8	20	12	B	20	2	2	2	2	2	0	0	0	0	0	14	22	10	14	10	0.41	0.50	0.29	0.41	0.2
1SV18ME003	10	16	26	10	16	26	10	16	26	2	2	2	2	2	0	0	0	0	0	12	28	18	12	18	0.35	0.64	-	-	-
1SV18MED08	11	14	25	11	14	25	11	14	25	2	2	2	2	2	0	0	0	0	0	13	27	16	13	16	0.38	0.61	-	-	
1SV18ME010	13	13	26	13	13	26	13	1.3	26	2	2	2	2	2	0	0	0	0	0	15	28	15	15	- 15	0.44		0.44	-	-
1SV18ME011	14	11	25	14	11	25	14	11	25	2	2	2	2	2	0	0	0	0	0	16	27	13	16	13	0.47	0.61	-	0.47	0.3
15V18ME012	15	11	26	15	11	26	15	11	26	2	2	2	2	2	0	0	0	0	0	17	28	13	17	13	0.50	0.00	0.38	-	
1SV18ME013	10	19	29	10	19	29	10	19	29	2	2	2	2	2	0	0	0	0	0	12	31	21	12	21	0.35	-	-	-	0.6
1SV19ME001	12	16	28	12	16	28	1.2	16	28	2	2	2	2	2	0	0	0	0	0	14	30	18	14	18	0.41	-		-	-
1SV19ME002	14	14	28	54	14	28	14	14	28	2	2	2	2	2	0	0	0	0	0	16	30	16	16	-	0.41	0.68	1014.0	***********	0.5
1SV19ME003	11	7	18	11	7	18	11	7	18	2	2	2	2	2	0	0	0	0	0	13	20	9	-	16	-	07100	0.47	-	0.4
1SV19ME004	13	13	26	13	13	26	13	13	26	2	2	2	2	2	0	0	0	0	0	15	28		13	9	0.38	0.45	-	0.38	0.2
1SV19ME005	15	12	27	15	12	27	15	12	27	2	2	2	2	2	0	0	0	0	0	17	-	15	15	15	0.44	in processing	0.44	-	0.4
1SV19ME006	15	12	27	15	12	27	15	12	27	2	2	2	2	2	0	0	0	0	-	The state of the s	29	14	17	14	0.50	0.66		0.50	0.4
1SV19ME010	13	9	22	13	9	22	13	9	22	2	2	2	2	2	0	-	-		0	17	29	14	17	14	0.50	0.66	0.41	0.50	0.4
1SV19ME011	11	14	25	11	14	25	11	14	25	2	2	2	2	2	_	0	0	0	0	15	24	11	15	11	0.44	0.55	<b>PRINCIPAL PRINCIPAL</b>	0.44	0.3
1SV19ME012	14	6	20	14	6	20	14	6	20	2	2	2			0	0	0	0	0	13	27	16	13	16	0.38	0.61	0.47	0.38	0.4
1SV19ME013	12	15	27	12	15	27	12	15	27	2	_	-	2	2	0	0	0	0	0	16	22	8	16	8	0.47	0.50	0.24	0.47	0.24
1SV19ME014	10	16	26	10	16	26	10	16		-	2	2	2	2	0	0	0	0	0	14	29	17	14	17	0.41	0.66	0.50	0.41	0.50
1SV19ME015	10	16	26	10	16	26	-	-	26	2	2	2	2	2	0	0	0	0	0	12	28	18	12	18	0.35	0.64	0.53	0.35	0.53
1SV20ME400	15	13	28	15	13	28	10	16	26	2	2	2	2	2	0	0	0	0	0	12	28	18	12	18	0.35	0.54	0.53	0.35	0.53
1SV20ME401	12	15	27	-	_	-	15	13	28	2	2	2	2	2	0	0	0	0	0	17	30	15	17	15	0.50	0.68	0.44	0.50	0.44
1SV20ME401	-	-	_	12	15	27	12	15	27	2	2	2	2	2	0	0	0	0	0	14	29	17	14	17	0.41	0.66	0.50	0.41	0.50
ISV20ME402 ISV20ME403	13	13	26	13	13	26	13	13	26	2	2	2	2	2	0	0	0	0	0	15	28	15	15	15	0.44	0.64	0.44	0.44	0.44
	14	14	28	14	14	28	14	14	28	2	2	2	2	2	0	0	0	0	0	16	30	16	16	16	0.47	0.68	0.47	0.47	0.47
TOTAL No of Students	289	297	586	289	297	586	289	297	586	46	46	46	46	46	0	0	0	0	0	335	632	343	335	343	9.85	14.36	10.09	9.85	10.0
15 51 510 51112	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
Average	12.57	12.9	25.478	12.6	12.91	25.48	12.57	12.9	25.478	2	2	2	2	2	0	0	0	0	0	14.57	27,48	14.91	14.57	14.91	42.84	62,45	43.86	42 84	43.8

PRINCIPAL SIET., TUMAKURU.



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

## DEPARTMENT OF ME

SUBJECT   Management and Economics   SUBJECT CODE   18ME51	SUBJECT	Management and Economics	SUBJECT CODE	18ME51
------------------------------------------------------------	---------	--------------------------	--------------	--------

#### 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

- 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.

PRINCIPAL SIET. TUMAKURU.

H.O.D Dept. of Mechanical S.I.E.T., TUMKUR -6

COLLEGE		SHR	IDEVI	INST	TUTE	OF E	NGIN	EERIN	G&T	ECHN	OLOGY	1
FACULTY	NAN	IE :	Santho	sh T U								
BRAN	СН			ME	T	A	CAD	EMIC Y	EAR		2020	-21
COURSE	B.	E	SEM	ESTE	R	v	1	SECTIO	N			
SUBJECT		Man	agemer	nt and	Econor	nics		SUBJE	CT C	ODE	18ME51	1
CO & PO M	APPI	NG										
E Cini	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1		35				No.				1	E 200	
CO2										1	1	
CO3	3	186						Sales of		120		
CO4	3											
C05	3	EN	88			200			100			
AVERAGE	3									1	1	
N. W. I. S.						OVE	RALI	L MAPI	ING (	OF SUI	BJECT	1.66

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	P09	PO10	PO11	PO12
COI	44.77										0.44		
CO2	66.16										0.66	0.66	
C03	46.73	1.40	1023					1625	220	100		0.00	
CO4	44.77	1.34											
CO5	46.73	1.40		S E						<b>E</b>	1000		
AVERAGE	49.83	1.38									0.55	0.66	

H.O.D

Dept. of Mechanical
S.I.E.T., TUMKUR -6

PRINCIPAL SIET, TUMAKURU.

Academie year	202	0-21		SEM	v		Te	stal str	rength	9		Sut	ject	MAN	GEMENT A	ND ECON	OMICS		Subj	ect Code	18N	E51							
SEMIV	IAT	EST	I(30M)	IAT	EST 2	(30M)	IAT	EST	3(30M)	ASS	SIGNEN	TENT /	QUIZ(I	(0 M)		SEE	MARKS	S(60)			Allowan ce	s ATTAIN	MENT			% of	individ	ual CO	
USN	COL	C02	TOTAL	CO2	COS	TOTAL	C04	cos	TOTAL	COL	C02	COS	C04	cos	CO1=12	C02	CO3	C04	COS	CO1+34	CO2-44	C03=34	CO4=34	C05-34	-			T	T.,
ISV18ME002	14	15	29	14	15	29	14	15	29	2	2	2	2	2	0	0	0	0	0	16	31	17	16	17	-	C02			
ISV18ME004	13	16	29	13	16	29	13	16	29	2	2	2	2	2	0	0	0	0	0	15	31	18	15		0.47			0.47	
ISV18ME005	12	14	26	12	14	26	12	14	26	2	2	2	2	2	0	0	0	0	0	14	28	16		18	0.44		12000	0.44	25
ISV18ME009	15	9	24	15	9	24	15	9	24	2	2	,	,	2	0	0	0	0	0	17	26	233	14	16	0.41		-	0.41	
ISV19ME400	14	14	28	14	14	28	14	14	28	2	2	,	2	2	0	0	0	0	0	16	30	11	17	11				0.50	
ISV19ME401	12	17	29	12	17	29	12	17	29	2	2	,	2	2	0	0	0	0	0	14		16	16	16	0.47	2000	1500	0.47	0.04
SV19ME402	13	15	28	13	15	28	13	15	28	2	2	2	2	2	0	0	0	0	0	15	31	19	14	19	0.41	153	1000	0.41	
ISV19ME403	12	15	27	12	15	27	12	15	27	,	,	,	,	,	0	0	0	0	0		30	17	15	17	0.44			0.44	
SV19ME404	14	10	24	14	10	24	14	10	24	2	2	2	2	2	0	0	0	0	0	14	29	17	14	17	0.41	10000	1.00	0.41	
TOTAL	119	125	244	119	125	244	119	125	244	18	18	18	18	18	0	0	0	0	0	137	262	143	137	12	0.47	10.00		0.47	
No of students	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	0	13/	143	4.03	5.95	4.21	4.03	4.21
AVERAGE	13.22	13.9	27.111	13.2	13.89	27.11	13.22	13.9	27.111	2	2	2	2	2	0	0	0	0		15.22	29.11	15.89	15.22	15.89				44.77	9

Dum Sungth



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

## DEPARTMENT OF ME

SUBJECT	DESIGN OF MACHINE ELEMENT-I	SUBJECT CODE	18ME52
			101111000

#### 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

- 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.

Dept. of Mechanical S.I.E.T., TUMKUR -6 PRINCIPAL SIET, TUMAKURU.

COLLEGE		SHR	IDEVI	INST	TUTE	OFE	NGIN	EERIN	G & T	ECHN	OLOGY	Y
FACULTY	V NAN	1E	K P Ch	andra	iah	11.57						
BRAN	NCH			ME		A	CAD	EMIC Y	EAR		2020	-21
COURSE	B.	Е	SEM	ESTE	R	v		SECTIO	N			
SUBJECT	DE	SIGN	OF MA	CHIN	E ELE	EMEN	r-ı	SUBJE	CT C	ODE	18M	E52
CO & PO M	APPI	NG										
THE PARTY	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3										
CO2	3	3										
CO3	3	2	3		200	1					SEE	
CO4	3	3										
CO5	2	2	2		200	1	1000	1000				
AVERAGE	2.8	2.6	2.5			1						
						OVE	RALI	MAPI	PING (	OF SUB	JECT	2.22

	CO%	PO1	PO2	PO3	PO4	PO5	P06	PO7	PO8	PO9	PO10	PO11	PO12
COI	41.83	1.25	1.25										
CO2	69.44	2.08	2.08										
CO3	41.83	1.25	0.83	1.25			0.41						
CO4	41.83	1.25	1.25				1000000						
CO5	53.92	1.07	1.07	1.07			0.53			No.			
AVERAGE	49.77	1.38	1.29	1.16			0.47						
		The second						FINA	LAT	FAINN	IENT L	EVEL	1.07

H.O.D Dept. of Mechanical S.I.E.T., TUMKUR -6

PRINCIPAL SIET. TUMAKURU.

Academic year	202	20-21	_	-	_	_	Te	stal st	rength	20		Sut	oject	DESSE	N OF MAC	HENE ELE	MENTS-1		Subj	oct Code	188	(E52					11.9		
SEM:V	IA	TEST	1(30M)	IA	TEST :	(30M)	IA 7	EST	3(30M)	ASS	IGNEN	IENT/	QUIZ(1	0 M)		SEE	MARKS	(60)			Total C	os ATTAIN	MENT			% 0	findivid	dual CC	,
USN	COI	COS	TOTAL	C02	C03	TOTAL	COL	COS	TOTAL	COI	CO2	CO3	C04	COS	C01=12	C02	CO3	C04	cos	CO1+34	C02=44	004-14							
ISV18ME002	15	14	29	15	14	29	15	14	29	2	2	2				7,000		Sec.		Town I		C03=34	C04=34	C05+34	CO1	C02	C03	C04	0
ISV18ME004	12	17	29	12	17	29	12	17	29				2	2	0	0	0	0	0	17	31	16	17	16	0.50	0.70	0.50	0.50	0.
SVI8ME005										2	2	2	2	2	0	0	0	0	0	14	31	19	14	19	0.41	0.70	0.41	0.41	0.
SV18ME009	11	17	28	11	17	28	11	17	28	2	2	2	2	2	0	0	0	0	0	13	30	19	13	19	0.38	0.68	0.38	0.38	0.
SV19ME400	10	18	28	10	18	28	10	18	28	2	2	2	2	2	0	0	0	0	0	12	30	20	12	20	0.35	0.68	0.35	0.35	0
SV19ME401	11	17	28	11	17	28	11	17	28	2	2	2	2	2	0	0	0	0	0	13	30	19	13	19	0.38	0.68	0.38	0.38	0
SV19ME402	12	18	30	12	18	30	12	18	30	2	2	2	2	2	0	0	0	0	0	14	32	20	14	20	0.41	0.73	0.41	0.41	0.
SV19ME403	13	16	29	13	16	29	13	16	29	2	2	2	2	2	0	0	0	0	0	15	31	18	15	18	0.44	0.70	0.44	0.44	0.
SV19ME404	12	16	28	12	16	28	12	16	28	2	2	2	2	2	0	0	0	0	0	14	30	18	14	18	0.41	0.68	0.41	0.41	0.
3 V 1 2181E3404	14	14	28	14	14	28	14	14	28	2	2	2	2	2	0	0	0	0	0	16	30	16	16	16	10301	0.68	Tabel I		
TOTAL	110	147	257	110	147	257	110	147	257	18	18	18	18	18	0	0	0	0	0	128	275	165	128	165		6.25		less!	
o of students	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	7.
AVERAGE	12.22	16.3	28.556	12.2	16.33	28.56	12.22	16.3	28.556	2	2	2	2	2	0	0	0	0	0	14.22	30.56	18.33	14.22	18.33				Constant	

PRINCIPAL SIET, TUMAKURU



## SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

## DEPARTMENT OF MECHANICAL ENGINEERING

SUBJECT	Dynamics of Machines	SUBJECT CODE	18ME53
---------	----------------------	--------------	--------

#### COURSE OUTCOME

Apply the concepts of static and dynamic balancing of reciprocating and rotating masses on automobiles
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
Analyze the stability of governors, gyroscopic effects on ships, plane disc, aero planes, automobiles
Distinguish different types of vibratory systems
Formulate mathematical equations for damped and undamped vibratory system

#### 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 to contemporary issues and acquire lifelong learning.

SIET., TUMAKURU.

Dept. of Mechanical S.I.E.T., TUMKUR -6

MO.D

COLLEGE		SHR	IDEVI	INST	TUTE	OF E	NGIN	EERIN	G & T	ECHNO	DLOGY	7
FACULTY	NAM	Œ	MALT	ESHA	PЈ							
BRAN	СН		Š	ME		A	CAD	EMIC Y	EAR		2020	-21
COURSE	B.	E	SEM	ESTE	R	v		SECTIO	N			
SUBJECT		Dy	namic	s of M	lachir	ies		SUBJE	CT C	ODE	18M	E53-
CO & PO M	APPI	NG										
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
COI	2	100							-		1	
CO2		1	3									
CO3		2	2								136	1000
CO4	2	1	2									
CO5		2	3					200				2
AVERAGE	2	1.5	1.5									2
						OVE	RAL	L MAPI	PING	OF SUB	JECT	1.75

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
COI	44.77	0.89						A A					
CO2	63.38		0.63	1.90									
CO3	43.14		0.86	0.86	3/3				BES				1000
CO4	44.77	0.89	0.44	0.89					32				
CO5	43.14		0.86	1.29				Side .	838		1		0.86
AVERAGE	47.84	0.89	0.69	1.23									0.86
				200		TV		FIN/	L AT	TAINN	IENT L	EVEL	0.91

H.O.D Dept. of Mechanical S.I.E.T., TUMKUR -6

PRINCIPAL SIET, TUMAKURU

Academic year	292	0-21		SEM	v		T	stal str	ength	9	-	Sut	ject	DYN	AMICS O	FMAC	HINES		Subj	ect Code	1834	DE53							
SEM: V	IA T	TEST 1	(30M)	IAT	EST 2	(30M)	IAT	EST.	3(30M)	ASS	IGNEN	ENT /	QUIZ(1	0 M)		SEE	MARK	S(60)			Total Co	s ATTAIN	MENT				f Individ		
USN	COL	COI	TOTAL	CO2	cos	TOTAL	C04	COS	TOTAL	COL	C02	CO3	CO4	COS	CO1=12	C02	CO3	C04	cos			STATE OF THE STATE OF	Thomas:	2000	1000	20.0	inarvio	rual CO	
1SV18ME002	14	15	29	14	15	29	14	15	29	2	2	2	3	2	0			C04	100	CO1=34	C02=44	CO3=34	CO4=34	CO5=34	CO1	CO2	CO3	C04	COS
ISV18ME004	15	13	28	15	13	28	15	13	28		2				0	0	0	0	0	16	31	17	16	17	0.47	0.70	0.50	0.47	0.50
ISV18ME005	13	10	23	13	10	23	13	10	23		,			-	0	0	0	0	0	17	30	15	17	15	0.50	0.68	0.44	0.50	0.44
ISV18ME009	12	12	24	12	12	24	12		12430		*	2	2	2	0	0	0	0	0	15	25	12	15	12	0.44	0.57	0.35	0.44	0.35
ISV19ME400	11	14	25	EAC.	TOAT	12.00	106.	12	24	2	2	2	2	2	0	0	0	0	0	14	26	14	14	14	0.41	0.59	0.41	0.41	0.41
ISV19ME401	15		7.03	11	14	25	11	14	25	2	2	2	2	2	0	0	0	0	0	13	27	16	13	16	0.38	0.61	0.47	0.38	0.47
ISV19ME402	200	13	28	15	13	28	15	13	28	2	2	2	2	2	0	0	0	0	0	17	30	15	17	15	0.50	0.68	0.44	0.50	0.44
ISV19ME403	14	13	27	14	13	27	14	13	27	2	2	2	2	2	0	0	0	0	0	16	29	15	16	15	0.47	0.66	0,44	0.47	0.44
ISV19ME404	13	12	25	13	12	25	13	12	25	2	2	2	2	2	0	0	0	0	0	15	27	14	15	14	0.44	0.61	0.41	0.44	0.41
	12	12	24	12	12	24	12	12	24	2	2	2	2	2	0	0	0	0	0	14	26	14	14	14	0.41	0.59	0.41	0.41	0.41
TOTAL	119	114	233	119	114	233	119	114	233	18	18	18	18	18	0	0	0	0	0	137	251	132	137	132	4.03	5.70	3.88	4.03	3.88
No of students	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
AVERAGE	13.22	12.7	25.889	13.2	12.67	25.89	13.22	12.7	25.889	2	2	2	2	2	0	0	0	0	0	15.22	27.89	14.67	15.22	14.67				44.77	43.14

PRINCIPAL SIET., TUMAKURU.



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

## DEPARTMENT OF ME

SUBJECT	TURBO MACHINES	SUBJECT CODE	1035054
		SCHOLCI CODE	18ME54

#### COURSE OUTCOME

CO1	Model studies and thermodynamics analysis of turbo machines.
CO2	Analyze the energy transfer in Turbo machine with degree of reaction and utilization factor.
CO3	Classify, analyze and understand various type of steam turbine.
CO4	Classify, analyze and understand various type of hydraulic turbine.
CO5	Understand the concept of radial power absorbing machine and the problems involved during its operation.

## 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.

Dept. of Mechanical S.I.E.T., TUMKUR -6 PRINCIPAL SIET, TUMAKURU

COLLEGE		SHR	IDEVI	INST	ITUTE	OFE	NGIN	EERIN	G & T	ECHN	OLOG	Y
FACULT	Y NAN		D S Ra									
BRAN	NCH			ME		A	CAD	EMIC Y	EAR		2020	-21
COURSE	В.	E	SEM	ESTE	R	v	1	SECTIO	N			
SUBJECT		Т	URBO	MAC	HINES	ś		SUBJE	CT C	ODE	18M	E54
CO & PO M	IAPPII	NG										
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
COI	3	3	3			1511	9115					
CO2	3	3	3									
CO3	3	3	3	200	-	138	1000					
CO4	3	3	3		12							100
C05	3	3	3					No.	25 100	100	BINE.	250100
AVERAGE	3	3	3									
	100		ME			OVE	RALI	L MAPI	PING (	DE SUR	TECT	3

	CO%	POI	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C01	44.12	1.32	1.32	1.32								E NAME	
CO2	65.66	1.96	1.96	1.96									
CO3	46.73	1.40	1.40	1.40		15.0	Tar.	Billi		NEW YORK	1 20	SHE	
C04	44.12	1.32	1.32	1.32									
CO5	46.73	1.40	1.40	1.40	250			515		1000	STORE		200
VERAGE	49.47	1.48	1.48	1.48									
		1	BEN		Tel de			FINA	LAT	TAINN	IENT L	EVEL	1.48

H.O.D Dept. of Mechanical S.I.E.T., TUMKUR -6

PRINCIPAL SIET, TUMAKURU.

Academic year	202	0-21		SEM	v		To	etal str	rength	9		Sul	bject	1	URBOM	ACHIN	ES		Subj	ect Code	183	fE54							
SEM:V	IA T	EST 1	(30M)	IAT	EST 2	(30M)	IA 7	TEST:	3(30M)	ASS	IGNE	CENT /	QUIZ(1	0 M)	. millares	SEE	MARK	S(60)			Total C	OS ATTAE	NMENT			*	of inchis	dual CO	-
USN	COL	C02	TOTAL	CO2	CO3	TOTAL	CO4	COS	TOTAL	COL	C02	COS	C04	cos	CO1=12	CO2	COS	-		200 20			1			1	T T T T	Julii CO	T
ISV18ME002	15	15	30	15	15	30	15	15	30	2	2	2	2	2	0	0		CO4	COS	CO1-34	CO2=44	C03-34	C04-34	CO5-34	C01	C02	C03	CO4	co
ISV18ME004	14	14	28	14	14	28	14	14	28	2	,	2	2	2	0	- 5	0	0	0	17	32	17	17	17	0.50	0.73	0.50	0.50	0.5
SV18ME005	13	12	25	13	12	25	13	12	25	2	2				0	0	0	0	0	16	30	16	16	16	0.47	0.68	0.47	0.47	0.4
ISV18ME009	12	13	25	12	13	25	12	13	25			-	2	2	0	0	0	0	0	15	27	14	15	14	0.44	0.61	0.41	0.44	0.4
ISV19ME400	11	14	25	11	14	25				2		2	2	2	0	0	0	0	0	14	27	15	14	15	0.41	0.61	0.44	0.41	0.4
ISV19ME401	12	17	29	12	17	133	11	14	25	2	2	2	2	2	0	0	0	0	0	13	27	16	13	16	0.38	0.61	0.47	0.38	0.4
ISV19ME402	12	1100	515			29	12	17	29	2	2	2	2	2	0	0	0	0	0	14	31	19	14	19	0.41	0.70	0.56	0.41	0.5
SV19ME403		14	26	12	14	26	12	14	26	2	2	2	2	2	0	0	0	0	0	14	28	16	14	16	0.41	0.64	0.47	0.41	0.4
SV19ME404	15	13	28	15	13	28	15	13	28	2	2	2	2	2	0	0	0	0	0	17	30	15	17	15	0.50	0.68	0.44	0.50	0.4
	13	13	26	13	13	26	13	13	26	2	2	2	2	2	0	0	0	0	0	15	28	15	15	15	0.44	0.64	0.44	0.44	0.4
TOTAL	117	125	242	117	125	242	117	125	242	18	18	18	18	18	0	0	0	0	0	135	260	143	135	143	3.97	5.91	4.21	3.97	4.21
Vo of students	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
AVERAGE	13	13.9	26.889	13	13.89	26.89	13	13.9	26.889	2	2	2	2	2	0	0	0	0	0	15	28.89	15.89	15.00	15.89	44.12	65.66	46 77	44.12	46.7

PRINCIPAL SIET., TUMAKURU.



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

## DEPARTMENT OF ME

		FLUID POWER ENGINEERING	SUBJECT CODE	18ME55
--	--	-------------------------	--------------	--------

#### 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.
- 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.

SIET., TUMAKURU

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

Dept. of Mechanical

COLLEGE		SHI	RIDEV	IINST	TTUT	E OF E	NGI	NEERIN	NG & T	TECHN	OLOG	v
FACULT	Y NAN		Santh								OLOG	_
BRAN	NCH			ME	T	A	CAD	EMIC	YEAR		2020	1-21
COURSE	B.	E	SEM	IESTE	R	v	1	SECTIO	ON			
SUBJECT	F	LUID	POWI	ER EN	GINE	ERING		SUBJE	CT C	ODE	18M	F55
CO & PO M	APPI	NG									10111	500
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3							9200		1010	TOIT	FOI
CO2	2	2										1000
CO3	2								1000			
CO4	1		2		2							
C05	2	-	3	600	2		5200		-			1
VERAGE	2	2	2.5		2							1
		1000		HIE	1000	OVE	DATE	NEATH		COLUMN 1		
					Session	O'L	CALL	MAPP	ING O	F SUB.	JECT	1.9

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	P09	POM	DOLL	No.
COL	44.44	1.33								100	1010	PO11	PO12
CO2	59.85	1.19	1.19			17,026							
CO3	38.89	0.77	RES.					100				TO BE ST	
CO4	44.44	0.44		0.88		0.88				6			
CO5	72.22	1.44		2.16		1.44	200	1000		CONT.		-	10000
AVERAGE	51.96	1.03	1.19	1.52		1.16		San					0.72
							W.	FINA	LATI	AINM	ENT LI	ZVEL	1.12

H.O.D Dept. of Mechanical S.I.E.T., TUMKUR -6

PRINCIPAL SIET. TUMAKURU.

Academic year	202	0-21		SEM	v		To	etal st	rength	9		Sub	ject	FLUI	POWER	ENGIN	EERING		Subj	ect Code	183	IESS							
SEM:V	IA T	EST	(30M)	IA	TEST 2	(30M)	IAT	EST	3(30M)	ASS	IGNEM	ENT/	QUIZ	10 M)		SEE	MARKS	(60)			Total C	9 ATTAIN	MENT			No.	individ	lui co	-
USN	COL	cos	TOTAL	C02	COS	TOTAL	C04	cos	TOTAL	COL	CO2	COS	C04	cos	CO1=12	CO2	CO3					Orania.				N OI	maivid	Date CO	
ISV18ME002	14	15	29	14	15	29	14	15	29	2	2	2	2	2	0	-	1 12	C04	COS	CO1=34	C02~44	C03-34	CO4=34	C05=34	C01	C02	C03	C04	CC
ISV18ME004	15	10	25	15	10	25	15	10	25	2	2					0	0	0	0	16	31	17	16	17	0.47	0.70	0.50	0.47	0.3
ISV18ME005	12	12	24	12	12	24	12	12	24	8.1		2	2	2	0	0	0	0	0	17	27	12	17	12	0.50	0.61	0.35	0.50	0.4
ISV18ME009	11	8								2	2	2	2	2	0	0	0	0	0	14	26	14	14	14	0.41	0.59	0.41	0.41	0.2
ISV19ME400	1797	100	19	11	8	19	11	8	19	2	2	2	2	2	0	0	0	0	0	13	21	10	13	10	0.38	0.48	0.29	0.38	0.3
ISV19ME401	13	11	24	13	11	2.4	13	11	24	2	2	2	2	2	0	0	0	0	0	15	26	13	15	13	0.44	0.59	0.38	0.44	0.5
ISV19ME402	12	15	27	12	15	27	12	15	27	2	2	2	2	2	0	0	0	0	0	14	29	17	14	17	0.41	0.66	0.50	0.41	0.3
ISV19ME403	15	9	24	15	9	24	15	9	24	2	2	2	2	2	0	0	0	0	0	17	26	11	17	11	0.50	0.59	0.32	0.50	0.4
SV19ME404	14	12	26	14	12	26	14	12	26	2	2	2	2	2	0	0	0	0	0	16	28	14	16	14	0.47	0.64	0.41	0.47	0.3
11/4-1-10	12	9	21	12	9	21	12	9	21	2	2	2	2	2	0	0	0	0	0	14	23	11	14	11	0.41	0.52	0.32	0.41	3.5
TOTAL	118	101	219	118	101	219	118	101	219	18	18	18	18	18	0	0	0	0	0	136	237	119	136	119	4	5.39	3.5	4	6.5
No of students	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
AVERAGE	13.11	11.2	24.333	13.1	11.22	24.33	13.11	11.2	24.333	2	2	2	2	2	0	0	0	0	0	15.11	26.33	13.22	15.11	13.22	-00			44.44	

PRINCIPAL SIET, TUMAKURU



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

## DEPARTMENT OF ME

SUBJECT	OPERATION MANAGEMENT	SUBJECT CODE	18ME56
			TOMESO

#### 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.
- 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.

PRINCIPAL SIET. TUMAKURU

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

Pept. of Mechanical S.I.E.T., TUMKUR -6

COLLEGE		SHE	RIDEV	INST	ITUTI	E OF E	NGIN	EERIN	G & 1	ECHN	OLOG	Y
FACULT	Y NAN		RAVI									3-
BRAN	NCH			ME		A	CAD	EMIC Y	EAR	T	2020	0-21
COURSE	B.	E	SEM	IESTE	R	v	1	SECTIO	ON			
SUBJECT		OPER	ATION	MAN	AGEN	MENT		SUBJE	CT C	ODE	18M	E56
CO & PO M	APPI	NG										
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
COI	3	3	77.03			1000						101.
CO2	3	3	2	13						Tally III		
C03	3	3		188		TO THE	EIR	-	2000		1000	
CO4	3	3										
CO5	3	3	25				188		1288	No.		
VERAGE	3	3	2									
		200				OVE	RALI	MAPP	ING C	E SUD	IFCT.	2.67

	C0%	POI	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
COI	44.44	1.33	1.33									TOIL	FOIZ
CO2	62.37	1.87	1.87	1.24									
CO3	42.16	1.26	1.26		1000	100					1000	1000	
CO4	42.16	1.26	1.26								The same		Hills
CO5	42.16	1.26	1.26		1								10000
AVERAGE	46.65	1.39	1.39	1.24								24	

H.O.D Dept. of Mechanical S.I.E.T., TUMKUR -6 PRINCIPAL SIET. TUMAKURU

Leademic year	202	0-21		SEM	N		Te	tal str	rength	9		Sui	bject	OF	ERATION M	ANAGE	MENT		Sut	ject Code	183	ES6							
SEMIV	IA T	EST I	(30M)	IA	TEST 2	(30M)	IAT	EST.	3(30M)	ASSE	GNEM	ENT/	QUIZ	(10 M		SEE N	IARKS	(60)			Total C	os ATTAIN	MENT			***	Individ	dual CO	
USN	COL	C02	TOTAL	CO2	CO3	TOTAL	C04	C05	TOTAL	cor	CO2	cos	C04	cos	CO1-12	C02	COS	C04	COS	CO1-34	C02-44	C03-34						T	
ISV18ME002	15	14	29	15	14	29	15	14	29	2	2	2	2	2	0	0	0	0	0	17	31	16		C05-34	-				
ISV18ME004	14	15	29	14	15	29	14	15	29	2	2	2	,	,	0	6	0	0	0	16			17	16	0.50	0.70			0.47
ISV18ME005	12	10	22	12	10	22	12	10	22	2	2	,	,	,	0	0	0	0	0	14	31	37	16	17	0.47	0.70			0.50
ISVIEME009	13	11	24	13	11	24	13	11	24	2	2	,	,	2	0	0	0	0	0	15	24	12	34	12	0.41			0.35	0.35
ISV19ME400	14	14	28	14	14	28	14	14	28	,	2	,	,	2	0	0	0	0	0	16	26 30	13	3.5	13	0.44	0.59	1000		0.38
SV19ME401	11	18	29	11	18	29	11	18	29	,	,	,	,	2	0	0	0	0	0	13		16	16	16	0.47	0.68	1000	1	0.47
ISV19ME402	12	10	22	12	10	22	12	10	22	2	,	,	2	2	0	0	0	0	0	14	31	20	13	20	0.38	1000	0.59		0.59
ISV19ME403	13	11	24	13	11	24	13	11	24	,	2		2	2	0	0		100	0		24	12	14	12	0.41	1000	0.35	100	0.35
SV19ME404	14	8	22	14		22	14		22	,	,	2	2	2	0	0	0	0	0	15	26	13	15	13	0.44	1000	0.38	1	0.38
TOTAL	118	111	229	118	111	229	118	111	229	18	18	18	1,0	and the		diso	0	0	0	16	24	10	16	10	0.47			0.29	0.29
No of students	9	9	9	0	0	4	4	9	9	4	0		18	18		0	0	0	0	136	247	129	136	129	4.00	5.61	3.79	3.79	3.79
	13.11	12.3	25.444	11.1	22.33	25.44	13.11		25.444	,	,	,	,	,	0	9	9	,	9	9 15.11	27.44	14.33	9 15.11	14.33	9	9	9	42.16	9

PRINCIPAL SIET. TUMAKURU.



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

## DEPARTMENT OF ME

Energy Engineering	SUBJECT CODE	17ME71
	Energy Engineering	Energy Engineering SUBJECT CODE

#### COURSE OUTCOME

COI	Summarize the basic concepts of thermal energy systems
CO2	Identify renewable energy sources and their utilization
CO3	Understand the basic concepts of solar radiation and analyze the working of solar PV and thermal systems.
	Understand principles of energy conversion from alternate sources including wind, geothermal, ocean, biomass, and biogas.
CO5	Understand the concepts and applications of fuel cells, thermoelectric convertor and MHD generator. Identify methods of energy storage for specific applications.

## 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.

H.O.D Dept. of Mechanical S.I.E.T., TUMKUR -6 PRINCIPAL SIET, TUMAKURU

COLLEGE	_	$\overline{}$	MIDE V	111101	11101	E OF	ENGIN	EERIN	G & T	ECHN	DLOGY	1
FACULT	Y NAN	AE		D	S Ravi	kumar						
BRAN	NCH			ME		- 1	ACAD	EMIC Y	EAR		2020	0-21
COURSE	B.	E.	SEN	IESTE	R	VII		SECTIO	N			
SUBJECT			Energy	y Engir	neering	g		SUBJE	CT C	ODE	17M	E71
CO & PO M	APPI	NG										
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
COI	3		1516			•		1000			TOTT	1012
CO2	3						2					
CO3	3			100		200	2				1000	
CO4	3						1					
CO5	3	1855	783	200			2	A CONTRACT	1000			10000
AVERAGE	3						1.75					
STATE OF	11-12		TREE !		Bases.	OV	EDAY	L MAPP	VALCE		SHOW	2.37

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	POS	P09	PO10	PO11	POLIS
COI	42.48	1.27								103	1010	POH	PO12
CO2	67.93	2.03						1.35					
CO3	51.31	1.53	100			100	PA	1.02	250	1000			
CO4	42.48	1.27						0.42					
C05	51.31	1.53		240	650	100		1.02	000	1000	SECTION 1		
AVERAGE	51.10	1.52						0.95					

H.O.D Dept. of Mechanical S.I.E.T., TUMKUR -6

PRINCIPAL SIET, TUMAKURU

1	)
F	)

Academic year	202	0-21		SEM	VII		Te	tal str	ength	9		Sub	ject	ENI	ERGY EN	GINE	RING		Subj	ect Code	17M	DE71							
SEM/VII	IA T	EST 1	(30M)	IA	TEST 2	(30M)	IA 7	EST :	(30M)	ASS10	NEM	ENT/	QUIZ	(10 M		SEE	MARKS	(60)			Total Co	attain	MENT			% of	Individ	ual CO	8
USN	COI	CO2	TOTAL	CO2	COS	TOTAL	C04	COS	TOTAL.	COL	CO2	C03	C04	cos	CO1-12	C02	CO3	CD4	COS	CO1-34	C02-44	CO3-34	CO4-34	C05-34	CO1	C02	cos	C04	cos
1SV15ME012	11	13	24	11	13	24	11	13	24	2	2	2	2	2	0	0	0	0	0	13	26	15	13	15	0.38	0.59		0.38	200
1SV17ME003	14	13	27	14	13	27	14	13	27	2	2	2	2	2	0	0	0	0	0	16	29	15	16	15	0.47	0.66	0.44		
1SV17ME006	15	14	29	15	14	29	15	14	29	2	2	2	2	2	0	0	0	0	0	17	31	16	17	16	0.50	0.70			
1SV17ME007	10	20	80	10	20	30	10	20	30	2	2	2	2	2	0	0	0	0	0	12	32	22	12	22	0.35	0.73	0.65	0.35	
1SV17ME008	11	15	26	11	15	26	11	15	26	2	2	1	2	2	0	0	0	0	0	13	28	17	13	17	0.38	0.64	DISS.	0.38	1322
1SV17ME011	12	14	26	12	14	26	12	14	26	2	2	2	2	2		0	0	0	0	14	28	16	14	16	0.41	0.64	0.47	0.41	0.47
1SV17ME013	13	17	30	13	17	30	13	17	30	2	2	2	2	2	0	0	0	0	0	15	32	19	15	19	0.44	0.73	0.56	0.44	0.56
15V17ME014	11	18	25	11	18	29	11	18	29	2	2	2	2	2	0	0	0	0	0	13	31	20	13	20	0.38	0.70	0.59	0.38	0.59
1SV17ME015	15	15	30	15	15	10	15	15	30	2	2	2	2	2	0	0	0	0	0	17	32	17	17	17	0.50	0.73	0.50	0.50	0.50
TOTAL	112	139	251	112	139	251	112	139	251	18	18	18	18	18	0	0	0	0	0	130	269	157	130	157	3.82	6.11	4.62	3.82	4.62
No of students	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
AVERAGE	12.44	15.4	27.889	12.4	15,44	27.89	12.44	15.4	27.889	2	2	2	2	2	0	0	0	0	0	14.44	29.89	17.44	14.44	17.44	45.49	67.03	51.31	42.48	60.00

PRINCIPAL SIET, TUMAKURU.



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

#### DEPARTMENT OF ME

SUBJECT	Fluid Power Systems	SUBJECT CODE	17ME72
---------	---------------------	--------------	--------

#### COURSE OUTCOME

CO1	Understand the basic concepts (principles) of working and maintenance of fluid power system with 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.
- 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.

PRINCIPAL SIET\_TUMAKURU

Dept. of Mechanical S.I.E.T., TUMKUR -6

COLLEGE		SHR	IDEVI	INSTI	TUTE	OF E	NGIN	EERIN	G & T	ECHNO	LOGY	
FACULT	Y NAN	ME		Santho	sh T U	J						
BRA	NCH		8	ME	1	A	CAD	EMIC Y	EAR	T	2020	)-21
COURSE	В	E	SEM	ESTE	R	VII	5	SECTIO	ON			
SUBJECT		F	luid Po	wer Sy	stems			SUBJE	CT C	ODE	17M	E72
CO & PO M	APPI	NG										
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
COI	3	SU ST			100	23	100	100	1000			
CO2	2	2					DI				Harris	
CO3	2	08		B			1003	1000				
CO4	1		2		2				1000			
CO5	2		3	1000	2	100		PER SE			1	1
VERAGE	2	2	2.5		2		No.					1
			-	S NE	200	OVE	RALL	MAPE	INC	NE SUD	IECT	1.9

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	POS	PO9	PO10	POII	DOM
CO1	39.54	1.18									1010	ron	PO12
CO2	55.56	1.11	1.11										
CO3	38.24	0.76			1			S S S			10000	20000	
CO4	39.54	0.39		0.79		0.79		NAME OF TAXABLE PARTY.					
CO5	38.24	0.76		1.14		0.76	No.			900		TO SERVICE AND ADDRESS OF THE PARTY OF THE P	0.20
AVERAGE	42.22	0.84	1.11	0.96		0.77			2000				0.38
								FINA	LATI	CAINM	IENT L	EVEL	0.81

H.O.D Dept. of Mechanical S.I.E.T., TUMKUR -6

PRINCIPAL SIET, TUMAKURU

Academic year	202	8-21		SEM	VII		Te	otal st	rength	9		Sul	iject	FLU	ID POWI	RSYS	TEMS		Subi	ject Code	183	IE72							1
SEM:III	IAT	EST	(30M)	IA T	EST 2	2(30M)	IAT	TEST	3(30M)	ASS	SIGNEN	HENT/	QUIZO	(0 M)		SEE	MARK	scen						_			_	_	_
USN	COL	COI	TOTAL	COL	CO	TOTAL	C04	cos	TOTAL		CO2	COS	C04	N. Common		1377.00	239.	3(00)			Total Co	ATTAIN	MENT			% of	findivid	dual CC	1
1SV15ME012	9	11	20	9	11	20	9	11	20	2	2	2	2	COS	CO1=12		COS	C04	C05	CO1+34	C02=44	C03=34	CO4=34	C05=34	CO1	C01	cos	C04	co
ISV17ME003	10	10	20	10	-10	20	10	10	20	2	2	-		131	0	0	0	0	0	11	22	13	11	13	0.32	0.50	0.38	0.32	0,38
ISV17ME006	11	12	23	11	12	23	11	12	23	2	2	-	2	2	0	0	0	0	0	12	22	12	12	12	0.35	0.50	0.35	0.35	0.35
ISV17ME007	12	12	24	12	12	24	12	12	24	· .	2	-	2	2	0	0	0	0	0	13	25	14	13	14	0.38	0.57	0.41	0.38	0.41
SV17ME008	14	9	23	14	9	23	14		23	,		-	2	2	0	0	0	0	0	14	26	14	14	14	0.41	0.59	0.41	0.41	0.43
ISV17ME011	15	5	20	15	8	20	15				2	2	2	2	0	0	0	0	0	16	25	11	16	11	0.47	0.57	0.32	0.47	0.32
SV17ME013	13	13	26	13	13	26			20	2	2	2	2	2	0	0	0	0	0	17	22	7	17	7	0.50	0.50	0.21	0.50	0.21
SV17ME014	10	15	25	10	15	25	13	13	26	2	2	2	2	2	0	0	0	0	0	15	28	15	15		50000	0.64	100.00	0.44	0.44
SV17ME015	9	12	21	0	12		10	15	25	2	2	2	2	2	0	0	0	0	0	12	27	17	12	0.00	12,43	0.61		1	0.50
TOTAL	103			,,,,		21	9	12	21	2	2	2	2	2	0	0	0	0	0	11	23	14	11	195 1	-	0.52	-		0.41
No of students	103	99	202	103	99	202	103	99	202	18	18	18	18	18	0	0	0	0	0	121	220	117	121	117	3.56			3.56	3.44
		9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	0	0	2.44
AVERAGE	11.44	11	22.444	11.4	11	22.44	11.44	11	22.444	2	2	2	2	2	0	0	0	0	0	13.44	24.44	13.00	13.44	13.00			,	3	-10.50

PRINCIPAL SIET., TUMAKURU,



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

#### DEPARTMENT OF ME

SUBJECT	Control Engineering	SUBJECT CODE	17ME73
---------	---------------------	--------------	--------

#### 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.
- 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.
- \*06 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.

Dept. of Mechanical S.I.E.T., TUMKUR -6 PRINCIPAL SIET. TUMAKURU.

COLLEGE		SHRI	DEVI	INSTI	TUTE	OF EN	GIN	EERING	S & TI	CHNO	LOGY	
FACULT	Y NAN	IE	1	B H Va	sudev	amurtl	ıy					
BRAN	NCH		1	ME		A	CAD	EMIC Y	EAR		2020	-21
COURSE	В.	E	SEM	ESTE	R	VII		SECTIO	N			
SUBJECT		C	ontrol	Engine	ering			SUBJE	CT C	ODE	17M	E73
CO & PO M	APPIN	NG			•							
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2				188	1	No.			Yan.	N	1
CO2	2	2	1									
CO3	2	2			P. II		THE	100				
CO4	2	2	1	ie II								1
C05	1	2	1	35.00	123	13/5/20		100		1000		1
AVERAGE	1.8	1.6	0.6									1
	200	10 6				OVE	RAL	L MAP	PING (	OF SUE	JECT	1.25

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	34.64	0.69			To the second		I M						0.34
CO2	50.00	1	1	0.5									
CO3	35.95	0.71	0.71		The	1976	5						
CO4	34.64	0.69	0.69	0.34			-						0.34
CO5	35.95	0.35	0.71	0.35				HH.					0.35
AVERAGE	38.23	0.68	0.77	0.39							- IN		0.34
		8115				IN SE		FINA	LAT	FAIN	MENT L	EVEL	0.54

H.O.D Dept. of Mechanical S.I.E.T., TUMKUR -6

PRINCIPAL SIET, TUMAKURU

Academic year	202	0-21		SEM	VII		To	tal str	ength	9		Sut	eject	ONT	ROLEN	GINE	ERIN		Sub	ject Code	17M	IE73							
SEM:VII	IAT	EST 1	(30M)	IA	TEST 2	(30M)	IAT	EST :	(30M)	ASSI	GNEM	ENT/	UIZ(10	(M)	s	EE M	ARKS	(60)			Total Co	S ATTAIN	MENT			% 0	f indivi	dual CO	ĝ
USN	coı	cor	TOTAL	C02	CO3	TOTAL	C04	cos	TOTAL	cor	C02	COS	C04	cos	CO1-12	coz	cos	CO4	cos	CO1-34	C02=44	C03-34	CO4-34	C05-34	CO1	CO2	cos	C04	COS
1SV15ME012	12	6	18	12	6	18	12	6	18	2	2	2	2	2	0	0	0	0	0	14	20	8	14	8	0.41	0.45	0.24	0.41	0.24
ISV17ME003	10	10	20	10	10	20	10	10	20	2	2	2	2	2	0	0	0	0	0	12	22	12	12	12	0.35	0.50	0.35	0.35	0.35
ISV17ME006	13	6	19	13	6	19	13	6	19	2	2	2	2	2	0	0	0	0	0	15	21	8	15	8	0.44	0.48	0.24	0.44	0.24
ISV17ME007	9	15	24	9	15	24	9	15	24	2	2	2	2	2	0	0	0	0	0	11	26	17	11	17	0.32	0.59	0.50	0.32	0.50
ISV17ME008	8	13	21	8	13	21	8	13	21	2	2	2	2	2	0	0	0	0	0	10	23	15	10	15	0.29	0.52	0.44	0.29	0.44
1SV17ME011	10	3	13	10	3	13	10	3	13	2	2	2	2	2	0	0	0	0	0	12	15	5	12	5	0.35	0.34	0.15	0.35	0.15
1SV17ME013	5	19	24	5	19	24	5	19	24	2	2	2	2	2	0	0	0	0	0	7	26	21	7	21	0.21	0.59	0.62	0.21	0.63
ISV17ME014	10	12	22	10	12	22	10	12	22	2	2	2	2	2	0	0	0	0	0	12	24	14	12	14	0.35	0.55	0.41	0.35	0.43
ISV17ME015	11	8	19	11	8	19	11	8	19	2	2	2	2	2	0	0	0	0	0	13	21	10	13	10	0.38	0.48	0.29	0.38	0.25
TOTAL	88	92	180	88	92	180	88	92	180	18	18	18	18	18	0	0	0	0	0	106	198	110	106	110	3.12	4.50	3.24	3.12	3.24
No of students	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
AVERAGE	9,778	10.2	20	9.78	10.22	20	9.778	10.2	20	2	+2	2	2	2	0	0	0	0	0	11.78	-22.00	12.22	11.78	12.22	34.64	50.00	35.95	34.64	35.9

PRINCIPAL SIET, TUMAKURU.



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

#### DEPARTMENT OF ME

CUIDITECE	4.00		
SUBJECT	TRIBOLOGY	SUBJECT CODE	17ME742

#### COURSE OUTCOME

CO1	Understand the fundamentals of tribology and associated parameters
CO2	Apply concepts of tribology for the performance analysis and design of components experiencing relative motion
CO3	Analyse the requirements and design hydrodynamic journal and plane slider bearings for a given application
CO4	Select proper bearing materials and lubricants for a given tribological application
CO5	Apply the principles of surface engineering for different applications of tribology

#### 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.

PRINCIPAL SIET., TUMAKURU

Page 1.0.D

Dept. of Mechanical
S.I.E.T., TUMKUR -6

COLLEGE		SHR	IDEVI	INST	ITUTE	OFE	NGIN	EERIN	G&T	ECHN	OLOG	Y
FACULTY	NAN	Œ	K P Cl	nandra	iah							
BRAN	СН			ME		. А	CAD	EMIC Y	EAR		2020	)-21
COURSE	B.	E	SEM	ESTE	R	VII		SECTIO	ON			
SUBJECT			TRI	BOLO	GY			SUBJE	CT C	ODE	17M1	E742
CO & PO M	APPI	NG										
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	1700						1				
CO2	3	2										
CO3	3	2	3	200		200	100		8080	100	ENG	
CO4	3	2										
CO5	3	2	26		Harris.	NEW YORK	Se se		988	ESU.	A PAGE	-
AVERAGE	3	2	3	le Di								Name of Street, or other Designation of the least of the
	103	To the	100	RIE		OVE	RALI	L MAPI	PING (	DE SUR	HCT	2.0

						PO10		PO12
						350	_	
,		-56			200			
3	40			5301				
300			1916			TOP I		
3		c		100				
								FINAL ATTAINMENT LEVEL

H.O.D Dept. of Mechanical S.I.E.T., TUMKUR -6

PRINCIPAL SIET. TUMAKURU

keademic year	202	0-21		SEM	VH		To	tal st	rength	9		Su	bject		TRIB	OLOGY			Subj	ect Code	18M	E742							
SEM:VII	IAT	EST I	(30M)	IA	TEST 2	(30M)	IAT	EST	3(30M)	SSIG	NEM	ENT	/QUI	Z(10 )		SEE	MARK	S(60)			Total Cor	ATTAIN	MENT			* 0	f Individ		
USN	COL	C02	TOTAL	CO2	C03	TOTAL	CO4	cos	TOTAL	COL	C02	COS	COL	COS	CO1=12	C02	C03	C04	cos		I SCHWARE						T		
ISV15ME012	11	17	28	11	17	28	11	17	28	2	2	2	2	2	0	0	0	0	0	13	C02=44	C03-34	CO4~34	51838	e uno	Test of	CO3	0.00	100
1SV17ME003	8	20	28	8	20	28	8	20	28	2	2	2	2	2	0	0	0	0	0	10	30	19	13	19	0.38		0.56		0.56
1SV17ME006	9	20	29	9	20	29	9	20	29	2	2	2	2	2	0	0	0	0	0	11	30	22	10	22	0.29	0.68			0.65
ISV17ME007	12	17	29	12	17	29	12	17	29	2	2	2	2	2	0	0	0	0	0	14	31	22	11	22	14500 V		0.65	Part and	Testine.
1SV17ME008	11	17	28	11	17	28	11	17	28	2	2	2	2	2	0	0	0	0	0	13	30	19	14	19		0.70			0.56
ISV17ME011	10	17	27	10	17	27	10	17	27	2	2	2	2	2	0	0	0	0	0	12	29	19	13	19	0.38	0.68	518	150	0.56
ISV17ME013	13	16	29	13	16	29	13	16	29	2	2	2	2	2	0	0	0	0	0	15	31	18	15	19			0.56		0.56
ISV17ME014	В	20	28	8	20	28	8	20	28	2	2	2	2	2	0	0	0	0	0	10	30	22	10	22			0.53	1	0.53
ISV17ME015	14	15	29	14	15	29	14	15	29	2	2	2	2	2	0	0	0	0	0	16	31	17	16	17		mark.	0.65	de un	0.65
TOTAL	96	159	255	96	159	255	96	159	255	18	18	18	18	18	0.	0	0	0	0	114	273	177 .	114	177					0.50
No of students	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	5.21
AVERAGE	10.67	17.7	28.333	10.7	17.67	28.33	10.67	17.7	28.333	2	2	2	2	2	0	0	0	0	0	12.67	30.33	19.67	12.67	19.67			57.84		

PRINCIPAL SIET, TUMAKURU.



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

#### DEPARTMENT OF ME

SUBJECT	MECHATRONICS	SUBJECT CODE	17ME753

#### COURSE OUTCOME

COI	Illustrate various components of Mechatronics systems.
CO2	Assess various control systems used in automation
CO3	Design and conduct experiments to evaluate the performance of a mechatronics system or component with respect to specifications, as well as to analyse and interpret data.
CO4	Apply the principles of Mechatronics design to product design.
CO5	Function effectively as members of multidisciplinary teams.

#### 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
- 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.
- PO4 Conduct investigations of solutions: An ability to design solution for engineering problems and
- 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.
- O6 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.

H.O.D Dept. of Mechanical S.I.E.T., TUMKUR -6 PRINCIPAL SIET., TUMAKURU

COLLEGE		SHE	RIDEV	INST	ITUTI	OFE	NGIN	NEERIN	G & 1	ECHN	OLOG	v
FACULT	Y NAM		Ravi k									_
BRA	NCH			ME	T	A	CAD	EMIC	YEAR	T	2020	0-21
COURSE	B	E.	SEM	IESTE	R	VII	1	SECTIO	ON			
SUBJECT			MECH	ATRO	NICS		_	SUBJE	CT C	ODE	17MI	E753
CO & PO M	IAPPI	NG										
			PO5	P06	PO7	PO8	PO9	PO10	PO11	PO12		
COI	3	70					Pint				1011	1012
CO2	3	3										
CO3	3	3								Section 1	Editor	
CO4												
CO5		3	1					THE REAL PROPERTY.		DESCRIPTION OF THE PERSON OF T		1000
VERAGE	3	3										
			ALL S			OVE	RALI	MAPP	INC	EGUE	IFOR	3.0

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	POS	PO9	PO10	DOLL	nove
COI	40.85	1.22									1010	POIL	PO12
CO2	61.62	1.84	1.84										
CO3	44.77	1.34	1.34	1000		1000				-			
CO4	40.85											(1950)	
CO5	44.77	193	1.34		200	200			10000				
VERAGE	46.57	1.46	1.50					-				1	

H.O.D Dept. of Mechanical S.I.E.T., TUMKUR -6

PRINCIPAL SIET, TUMAKURU

Academic year	202	0-21		SEM	VII		To	otal str	ength	9		Sub	ject	M	ECHATI	RONI	CS		Sub	ject Code	17M	IE753							
SEMIVII	IAT	EST I	(30M)	IA	TEST 2	(30M)	IAT	EST I	3(30M)	SSIG	NEM	ENT/	QUE	Z(10 N	S	EE M	ARK	S(60)			Total Co	ATTAIN	MENT			94.0	of Indiv	idual Co	5
USN	COI	CO2	TOTAL	CO2	C03	TOTAL	C04	COS	TOTAL	cor	C02	COS	C04	C05	CO1=12	CO2	COS	C04	cos	CO1=34	CO2=44	CO3=34	C04=34	CO5=14	cos	con	CO1	cou	co
ISV15ME012	10	13	23	10	13	23	10	13	23	2	2	2	2	2	0	0	0	0	0	12	25	15	12	15		0.57			0.4
ISV17ME003	9	13	22	9	13	22	9	13	22	2	2	2	2	2	0	0	0	0	0	11	24	15	11	15	11000	0.55		0.32	0.4
ISV17ME006	12	16	28	12	16	28	12	16	28	2	2	2	2	2	0	0	0	0	0	14	30	18	14	18	0.41	0.68	0.53	0.41	0.5
ISV17ME007	13	16	29	13	16	29	13	16	29	2	2	2	2	2	0	0	0	0	0	15	31	18	15	18	0.44	0.70	0.53	0.44	0.5
SV17ME008	11	15	26	11	15	26	11	15	26	2	2	2	2	2	0	0	0	0	0	13	28	17	13	17	0.38	0.64	0.50	0.38	0.5
ISV17ME011	10	10	20	10	10	20	10	10	20	2	2	2	2	2	0	0	0	0	0	12	22	12	12	12	0.35	0.50	0.35	0.35	0.3
ISV17ME013	14	14	28	14	14	28	14	14	28	2	2	2	2	2	0	0	0	0	0	16	30	16	16	16	0.47	0.68	0.47	0.47	0.4
SV17ME014	15	9	24	15	9	24	15	9	24	2	2	2	2	2	0	0	0	0	0	17	26	11	17	11	0.50	0.59	0.32	0.50	0.3
SV17ME015	13	13	26	13	13	26	13	13	26	2	2	2	2	2	0	0	o	0	0	15	28	15	15	15	0.44	0.64	0.44	0.44	0.4
TOTAL	107	119	226	107	119	226	107	119	226	18	18	18	18	18	0	0	0	0	0	125	244	137	125	137	3.68	5.55	4.03	3.68	4.0
No of students	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
AVERAGE	11.89	13.2	25.111	11.9	13.22	25.11	11.89	13.2	25.111	2	2	2	2	2	0	0	0	0	0	13.89	27.11	15.22	13.89	15.22	40.85	61.63	44.77	40.85	44.7

> PRINCIPAL SIET., TUMAKURU.

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

# EVEN SEM 2020-21



### SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

#### DEPARTMENT OF ME

SUBJECT FLUID MECHANICS	SUBJECT CODE	18ME43
-------------------------	--------------	--------

#### COURSE OUTCOME

CO1	Identify and calculate the key fluid properties used in the analysis of fluid behavior. Explain the principles of pressure, buoyancy and floatation
CO2	Apply the knowledge of fluid statics, kinematics and dynamics while addressing problems mechanical and chemical engineering.
CO3	Describe the principles of fluid kinematics and dynamics.
CO4	Explain the concept of boundary layer in fluid flow and apply dimensional analysis to for dimensionless numbers in terms of input output variables.
CO5	Illustrate and explain the basic concept of compressible flow and CFD

#### 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.

PRINCIPAL SIET, TUMAKURU.

Dept. of Mechanical S.I.E.T., TUMKUR -6

COLLEGE		SHR	adevi	INST	TUTE	OFE	NGIN	EERIN	G & T	ECHN	OLOG	Y
FACULT	Y NAN	Æ	K P CI	HAND	RAIAI	H						
BRAN	NCH			ME	T	A	CAD	EMIC Y	EAR	T	2020	)-21
COURSE	В.	E	SEM	ESTE	R	IV	1	SECTIO	ON		0.37.9.	,,,,,,,,
SUBJECT		FL	UID I	ИЕСН	ANIC	S		SUBJE	CT C	ODE	18M	E43
CO & PO M	APPI	NG										
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
COI	3	3	3	110				No.				
CO2	3	3	3									
CO3	3	3	3								1201	1500
C04	3	3	3									
CO5	3	3	3		100	353						
AVERAGE	3	3	3									
		19-10				OVE	RALI	MAPI	INC (	AF SUP	IFCT	3.0

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	POII	PO12
COI	61.25	1.83	1.83	1.83									
CO2	74.31	2.22	2.22	2.22									
CO3	60.49	1.81	1.81	1.81		THE ST							
CO4	64.32	1.92	1.92	1.92		E.							
CO5	57.54	1.72	1.72	1.72					Pige		100	200	
AVERAGE	63.58	1.9	1.9	1.9									
10	0					1		FINA	LAT	FAINN	IENT L	EVEL	1.9

H.U.D Dept. of Mechanical S.I.E.T., TUMKUR -6

PRINCIPAL SIET, TUMAKURU.

Academic year	20	2020-21 IA TEST 1(30M)			IA TEST 2(30M)			Total strength 23 IA TEST 3(30M) AS			Subject F				LUID MECHANICS					Subject Code			DE 43							
SEMILY	IA										IGNE	IENT / QUIZ(20 M)			SEE MARKS(60)				A45			Total Cos ATTAINMENT					*	of indi	vidual CC	
USN	COI	CO	TOTA	L CO	2 CO	TOTA	t co	co	TOTAL	COL	CO2	COS	C04	COS	CO1=12	CO2	COJ	C04	COS	TOTAL	CO1-34		CO3=34		C05-34	CO1	CO2			C
SV17ME005	13	16	29	12	16	28	12	15	27	4	4	4	4	4	3.2	3.2	3.2	3.2	3.2	16	20.2	35.2	23.2	19.2	22.2	0.59	0.80	0.68	1 2 2 2 2	0.0
SVI8ME003	13	15	28	11	18	29	17	13	30	4	4	4	4	4	6.2	6.2	6.2	6.2	6.2	31	23.2	36.2	28.2	27.2	23.2	0.68	0.00	10000	100	
SV18ME008	12	15	27	10	20	30	11	19	30	4	4	4	4	4	5.2	5.2	5.2	5.2	5.2	26	21.2	34.2					0.82	0.83	1000	0.
SV18ME010	11	19	30	12	15	27	19	11	30	4	4	4	4	4	4.6	4.6	4.6	4.6	4.6	23			29.2	20.2	28.2	0.62	0.78	0.86	0.59	0.
V18ME011	18	12	30	14	13	27	11	16	27	4	4	4	4	4	3.6	3.6	3.6				19.6	39.6	23.6	27.6	19.6	0.58	0.90	0.69	0.81	0.
V18ME012	9	20	29	11	19	30	18	10	28	4	4	4	4	4	7237	77.5	15.50	3.6	3.6	18	25.6	33.6	20.6	18.6	23.6	0.75	0.76	0.61	0.55	0.
V18ME013	16	14	30	12	1000	28	16	13	29	4	4	4			4.2	4.2	4.2	4.2	4.2	21	17.2	39.2	27.2	26.2	18.2	0.51	0.89	0.80	0.77	0.
V19ME001	12	18	30	18		28	12	14	200	1000		100	4	4	4.6	4.6	4.6	4.6	4.6	23	24.6	34.6	24.6	24.6	21.6	0.72	0.79	0.72	0.72	0.
V19ME002	_	15	26	13	17				26	4	4	4	4	4	5.6	5.6	5.6	5.6	5.6	28	21.6	45.6	19.6	21.6	23.6	0.64	1.04	0.58	0.64	0
V19ME003	0	0				30	12	16	28	4	4	4	4	4	5.2	5.2	5.2	5.2	5.2	26	20.2	37.2	26.2	21.2	25.2	0.59	0.85	0.77	0.62	0
V19ME004			0	0	0	0	17	-17	0	4	4	4_	4	4	0	0	0	0	0	0	4	4	4	21	-13	0.12	0.09	0.12	0.62	-0
V19ME005	410	12	28	13	13	26	11	19	30	4	4	4	4	4	3.8	3.8	3.8	3.8	3.8	19	23.8	32.8	20.8	18.8	26.8	0.70	0.75	0.61	0.55	0
V19ME006	12	18	30	19	7	26	14	14	28	4	4	4	4	4	4.6	4.6	4.6	4.6	4.6	23	20.6	45.6	15.6	22.6	22.6	0.61	1.04	0.46	0.66	0
V19ME010	14	16	30	13	16	29	18	10	28	4	4	4	4	4	5.8	5.8	5.8	5.8	5.8	29	23.8	38.8	25.8	27.8	19.8	0.70	0.88	0.76	0.82	0.
V19ME011	17	9	26	13	9	22	10	18	28	4	4	4	4	4	4.4	4,4	4.4	4.4	4.4	22	25.4	30.4	17.4	18.4	26.4	0.75	0.69	0.51	0.54	0
V19ME012	13	11	24	12	13	25	11	15	26	4	4	4	4	4	5	5	5	5	5	25	22	32	22	20	24	0.65	0.73	0.65	0.59	0.
V19ME013	0	0	0	0	0	0	12	-12	0	4	4	4	4	4	0	0	0	0	0	0	4	4	4	16	-8	0.12	0.09	0.12	0.47	-0
	13	15	28	12	18	30	16	10	26	4	4	4	4	4	3.6	3.6	3.6	3.6	3.6	18	20.6	34.6	25.6	23.6	17.6	0.61	0.79	0.75	0.69	0.
V19ME014	12	12	24	18	7	25	11	15	26	4	4	4	4	4	4.6	4.6	4.6	4.6	4.6	23	20.6	38.6	15.6	19.6	23.6	0.61	0.88	0.46	0.58	0.
V19ME015	18	9	27	10	18	28	19	7	26	4	4	4	4	4	4.6	4.6	4.6	4.5	4.6	23	26.6	27.6	26.6	27.6	15.6	0.78	0.63	0.78		
V20ME400	19	7	26	18	10	28	10	20	30	4	4	4	4	4	4	4	4	4	4	20	27	33	18	18	28	1000	1	-	0.81	0.4
V20ME401	11	8	19	19	2	21	11	9	20	4	4	4	4	4	4	4	4	4	4	20	19	35	200	100	5.0	0.79	0.75	0.53	0,53	0.1
V20ME402	19	3	22	13	10	23	12	12	24	4	4	4	4	4	4.2	4.2	4.2	4.2	HOUV.	200	2005.00	0.00	10	19	17	0.56	0.80	0.29	0.56	0.5
/20ME403	12	16	28	11	18	29	15	15	30	4	4	4	4	4	5	5	5		4.2	21	27.2	24.2	18.2	20.2	20.2	0.80	0.55	0.54	0.59	0.5
TOTAL	291	280	571	284	285	569	315	262	577	92	92							5	5	25	21	36	27	24	24	0.62	0.82	0.79	0.71	0.3
of Strorage	23	23	23	23	23	23	23	23				92	92	92	96	96	96	96	96	480	479	752	473	503	450	14.09	17.09	13.91	14.79	13.
100	12.65	0.000	200						23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	2
- Indiana	34.03	14.4	24.03	9.6.3	12.39	24.74	13.7	11.4	25.09	4	4	4	4	4	4.17	4.17	4.17	4.17	4.17	20.87	20.83	32.70	20.57	21.87	19.57	61.25	74.31	60.49	64.32	57.5

PRINCIPAL SIET. TUMAKURU.