

**SCHOOL OF ENGINEERING AND TECHNOLOGY
SRI PADMAVATI MAHILA VISVAVIDYALAYAM
SCHEME OF INSTRUCTION AND EVALUATION OF M.TECH (MACHINE DESIGN)
DEPARTMENT OF MECHANICAL ENGINEERING
I YEAR – I SEMESTER (2019-20)**

THEORY												
S.No	Course Code	Course Title	Hours per Week			Credits	Evaluation					Total Marks
							Internal (30Marks)		External (70 Marks)			
							Assignment	Test				
			L	T	P		Max.	Duration	Max.	Duration	Max.	
1	19MMET01	Advanced Mechanisms	3	0	0	3	5	2	25	3	70	100
2	19MMET02	Advanced Mechanics of Solids	3	0	0	3	5	2	25	3	70	100
3	19MMET03	Mechanical Vibrations	3	1	0	4	5	2	25	3	70	100
4		Elective - I	3	0	0	3	5	2	25	3	70	100
6	19MBST01	Research Methodology and IPR	2	0	0	2	5	2	25	3	70	100
PRACTICALS												
S.No	Course Code	Course Title	Hours per Week			Credits	Evaluation					Total Marks
							Internal (40 Marks)		External (60 Marks)			
							Continuous	Test				
			L	T	P		Max.	Duration	Max.	Duration	Max.	
7	19MMEP01	Machine Dynamics Lab	0	0	4	2	20	2	20	3	60	100
Total			17	1	04	17						700

Dr. P.Snehalatha
Co-ordinator (ME)
SE&T

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BoS Chairman (ME)

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I YEAR – II SEMESTER (2019-20)**

THEORY												
S.No	Course Code	Course Title	Hours per Week			Credits	Evaluation					Total Marks
							Internal (30Marks)		External (70 Marks)			
							Assignment	Test				
			L	T	P		Max.	Duration	Max.	Duration	Max.	
1	19MMET04	Advanced Finite Element Method	3	0	0	3	5	2	25	3	70	100
2	19MMET05	Optimization Techniques for Design	3	0	0	3	5	2	25	3	70	100
3	19MMET06	Experimental Stress Analysis	3	0	0	3	5	2	25	3	70	100
4		Elective - II	3	0	0	3	5	2	25	3	70	100
5		Elective - III (Mandatory MOOCs)	3	0	0	3	5	2	25	3	70	100
PRACTICALS												
S.No	Course Code	Course Title	Hours per Week			Credits	Evaluation					Total Marks
							Internal (40 Marks)		External (60 Marks)			
							Continuous	Test				
			L	T	P		Max.	Duration	Max.	Duration	Max.	
5	19MMEP02	Computer Aided Design & Analysis	0	0	4	2	20	2	20	3	60	100
6	19MMES01	Term Paper Cum Seminar	0	0	4	2	20	2	20	3	60	100
		Total	15	0	08	19						700

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S.No	Course Code	Course Title	Hours per Week			Credits	Evaluation					Total Marks
			Internal (30Marks)				External (70 Marks)					
			Assignment	Test			Duration	Max.	Duration	Max.		
			Max.	Duration	Max.						Duration	
L	T	P	Max.	Duration	Max.	Duration	Max.					
1		Elective - IV	3	1	0	3	5	2	25	3	70	100
2		Open Elective	3	1	0	3	5	2	25	3	70	100
PRACTICALS												
S.No	Course Code	Course Title	Hours per Week			Credits	Evaluation					Total Marks
			Internal (40 Marks)				External (60 Marks)					
			Continuous	Test			Duration	Max.	Duration	Max.		
			Max.	Duration	Max.						Duration	
L	T	P	Max.	Duration	Max.	Duration	Max.					
6	19MMEV01	Comprehensive Viva	0	0	0	2	40	0	0	0	60	100
7	19MMEJ01	Project Work Phase - I	0	0	20	10	40	0	0	0	60	100
Total			6	2	20	18						400

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PRACTICALS												
S.No	Course Code	Course Title	Hours per Week			Credits	Evaluation					Total Marks
							Internal (40 Marks)			External (60 Marks)		
			Continuous	Test			External (60 Marks)					
			Max.	Duration	Max.		Duration	Max.				
1	19MMEJ02	Project Work Phase - II	0	0	32	16	40	0	0	0	60	100
Total			0	0	32	16						100

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LIST OF ELECTIVES (2019-20)

ELECTIVE – I

S.No	Course Code	Course Title
1	19MMET07	Theory of Elasticity and Plasticity
2	19MMET08	Fatigue, Creep and Fracture Mechanics
3	19MMET09	Tribological Systems Design
4	19MMET10	Geometric Modelling

ELECTIVE -II

S.No	Course Code	Course Title
1	19MMET11	Non-Destructive testing and Failure Analysis
2	19MMET12	Design for Manufacturability
3	19MMET13	Pressure Vessel Design
4	19MMET14	Computational Fluid Dynamics

ELECTIVE - III

S.No	Course Code	Course Title
1	19MEM01	Mandatory MOOCs

ELECTIVE - IV

S.No	Course Code	Course Title
1	19MMET19	Product Design
2	19MMET20	Mechanics of Composite Materials
3	19MMET21	Gear Engineering

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LIST OF OPEN ELECTIVES (2019-20)

OPEN ELECTIVE

S.No	Course Code	Course Title
1	19MMET22	Advanced Operations Research

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