

**SCHOOL OF ENGINEERING AND TECHNOLOGY
SRI PADMAVATHI MAHILA VISVAVISYALAYAM**

Department of Mechanical Engineering

List of Courses Offered for PG

THEORY

S. No	Course Code	Course Title	Number of Credits	Prerequisites (from UG COURSES)
1	19MMET01	Advanced Mechanisms	3	19MET11 kinematics of machinery
2	19MMET02	Advanced Mechanics of solids	3	19MET05 Strength Of Materials
3	19MMET03	Mechanical Vibrations	3	19MET14 Design Of Machine Members -II
4	19MMET04	Advanced Finite Element Method	3	19MET21 Finite Element Method
5	19MMET07	Theory of Elasticity & Plasticity	3	19MET21 Finite Element Method
6	19MMET06	Experimental Stress Analysis	3	19MET12 Mechanical Measurements
7	19MMET07	Optimization Techniques for Design	3	19MET32 Optimization Techniques
8	19MMET08	Fatigue, Creep & Fracture Mechanics	3	19MET05 Strength Of Materials, 19 MET03 Material Science
9	19MMET09	Tribological Systems Design	3	19MET02 Engineering Mechanics
10	19MMET10	Non-destructive testing & failure analysis	3	19MET23 Experimental Stress Analysis
11	19MMET11	Design For Manufacturability	3	19MET06 Manufacturing Technology
12	19MMET12	Pressure Vessel Design	3	19MET14 Design Of Machine Members -II
13	19MMET13	Robotics	3	19MET17 CAD/CAM
14	19MMET14	Design of Automobile Systems	3	19MET29 Automobile Engineering

15	19MMET21	Advances in Material Technology	3	19MET03 Material Science
16	19MMET16	Product Design	3	19MET09 Design Of Machine Members -I
17	19MMET17	Mechanics of composite Materials	3	19MET22 Composite Materials
18	19MMET18	Gear Engineering	3	19MET11 Kinematics Of Machinery
19	19MMET19	Geometric modelling	3	19MET17 CAD/CAM
20	19MMET20	Computational fluid dynamics	3	19MET17 CAD/CAM,19MET38 Fluid Mechanics And Hydraulic Machinery
21	19MMET15	Mechatronics	3	19MET25 Robotics
22	19MMET22	Advanced Operations Research	3	19MET16 Operations Research
23	19MMEP01	Machine dynamics Lab	2	19MEP010 Machine Dynamics & Mechanical Measurements Lab
24	19MMEP02	Computer Aided Design and Analysis Lab	2	19MEP10 CAD/CAM LAB

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SRI PADMAVATHI MAHILA VISVAVIDYALAYAM
(WOMEN'S UNIVERSITY), TIRUPATI – 517502
SCHEME OF INSTRUCTION AND EVALUATION OF M.TECH (ME)
DEPARTMENT OF MECHANICAL ENGINEERING
2019-20**

TOTAL NO. OF CREDITS PER SEMESTER

S. No	Year and Semester	No. of Credits per Semester
1	I – I	19
2	I – II	19
3	II – I	16
4	II – II	16
Total No. of Credits		70