

## **Mechanical Engineering**

### **III Semester**

Engg. Mathematics –III  
Materials Science & Metallurgy  
Mechanical Measurements & Metrology  
Basic Thermodynamics  
Mechanics of Materials  
Manufacturing Process-I  
Computer Aided Machine Drawing  
Fluid Mechanics  
Metallography & Materials Testing  
Laboratory  
Mechanical Measurements & Metrology Laboratory  
Foundry & Forging Laboratory  
Machine Shop

### **IV Semester**

Engg. Mathematics –IV  
Materials Science & Metallurgy  
Mechanical Measurements & Metrology  
Applied Thermodynamics  
Kinematics of Machines  
Manufacturing Process-II  
Computer Aided Machine Drawing  
Fluid Mechanics  
Metallography & Material Testing Laboratory  
Mechanical Measurements & Metrology Laboratory  
Foundry & Forging Laboratory  
Machine shop.

### **V Semester**

Management & Entrepreneurship  
Design of Machine Elements  
Dynamics of Machines  
Energy Engineering  
Turbo Machines  
Engineering Economics  
Fluid Mechanics Machinery Laboratory  
Energy Conversion Engineering Laboratory.

### **VI Semester**

Design of Machine Elements II  
Mechanical Vibration  
Modeling & Finite Element Analysis  
Mechatronics & Microprocessor  
Heat & Mass Transfer  
Elective –I ( Group A)  
Computer Aided Modeling & Analysis  
Heat & Mass Transfer Laboratory

Elective –I ( Group A)  
Theory of Elasticity  
Mechanics of Composites Material  
Refrigerating & Air Conditioning  
Design of Heat Exchanger  
Non Traditional Machining  
Statistical Quality Control

Project Management  
Operation Management

### **VII Semester**

Control Engineering  
Computer Integrated Manufacturing  
Manufacturing Process III  
Operation Research  
Elective – II ( Group B)  
Elective –III ( Group C)  
CIM & Automation Laboratory  
Design Laboratory

#### **Elective –II ( Group B)**

Mechanical Design  
Theory of Plasticity  
Product Design & Manufacturing  
Solar Energy  
Gas Dynamics  
Management Information System  
Automation in Manufacturing  
Total Quality Management

#### **Elective –III ( Group V)**

Experimental Stress Analysis  
Engineering System Design  
Internal Combustion Engine  
Smart Materials  
Agile Manufacturing  
Robotics  
Computational Fluid Dynamics  
Financial Management & Accounting  
Micro & Smart System Technology

### **VIII semester**

Industrial Management  
Hydraulics & Pneumatics  
Elective – IV ( Group D)  
Elective – V ( Group E)  
Project work  
Seminar

#### **Elective – IV ( Group D)**

Tribology  
Fracture Mechanics  
Cryogenics  
Nano Technology  
Organizational Behavior & Professional  
Communication  
Computer Graphics  
Rapid Prototyping  
Foundry Technology

#### **Elective – V ( Group E)**

Machine Tool Design  
Industrial Engineering & Economics

Bio Mass Energy System  
Automotive Engineering  
Data Base Management System  
Artificial Intelligence  
Design of Experiments  
Design for Manufacturing & Assembly