

FIRST YEAR

Course title: Engineering Mechanics

- Understanding and analysis of Force Systems in a plane and in space.
- Understanding Equilibrium conditions and application in design of structures and frames.
- Acquire Knowledge of Frictional forces and their effect in design of Mechanical machines.
- Understanding concepts of Centroid, Centre of Gravity, Area moment of Inertia and Mass moment of Inertia and their role in design of structures and machines.
- Understanding and use of concept of Virtual Work in design.
- Analysis of Kinematics and Kinetics and its use in design.