

**Syllabus for Entrance Examination for M.Tech. Programme (Industrial Tribology and Maintenance Management and Mechanical System Design)
Sponsored Candidates.**

- Analysis of stresses and strains.
- Mechanical properties of materials.
- Theory of machines and mechanisms.
- Basic thermodynamics.
- Heat transfer.
- I. C. Engines.
- Machine Design.
- Fluid statics, properties of fluid, Fluid Kinematics.
- Mechanical working of materials.
- Foundry, Heat treatment, welding processes, modern machining processes.
- Engineering materials.
- Elasticity, plasticity and strength.
- Types of production systems, facility layout, facility location, B.E.A., reliability, S.Q.C., TQM.
- Work study and Time study.
- Engineering mathematics and general aptitude.