

NOC:Engineering Mechanics - Video course

COURSE OUTLINE

In this course, we would be studying mechanical interaction between different bodies when they interact through the forces applied on each other. This would consist of 2 parts: statics and dynamics.

Week	Module/ Lecture Topics
1	Review of Newton's Laws of Motion and Vector Algebra.
2	Equilibrium of Bodies.
3	Plane Trusses.
4	Friction.
5	Properties of Plane Surfaces.
6	Method of Virtual Work.
7	Motion of Particles.
8	Momentum.
9	Work and Energy.
10	Rotational Kinematics and Dynamics.



NP-TEL

NPTEL

<http://nptel.ac.in>

Physics

Coordinators:

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11	Simple Harmonic Oscillator.	
12	Motion in Non-inertial Frames.	