## NPTEL Video Lecture Topic List - Created by LinuXpert Systems, Chennai

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NPTEL Video Course - Mechanical Engineering - Engineering Mechanics
Subject Co-ordinator - Prof. U.S. Dixit, Dr. G. Saravana Kumar
Co-ordinating Institute - IIT - Guwahati
Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable
Lecture 1 - Fundamentals Of Engineering Mechanics
Lecture 2 - Equations of Equilibrium
Lecture 3 - Truss Analysis - Part 1
Lecture 4 - Truss Analysis - Part 2
Lecture 5 - Analysis of Frames Machines
Lecture 6 - Internal Forces
Lecture 7 - Internal Forces in Beams
Lecture 8 - Cables
Lecture 9 - Friction
Lecture 10 - Application of Friction - Part 1
Lecture 11 - Application of Friction - Part 2
Lecture 12 - Application of Friction - Part 3
Lecture 13 - Centroids Center of Mass
Lecture 14 - Centroids Area of Moments
Lecture 15 - Product of Inertia, Rotation of Axis and Principle Moments of Inertia
Lecture 16 - Principle Mass Moments of Inertia
Lecture 17 - Second Moment of Mass
Lecture 18 - Virtual Work of Ideal System
Lecture 19 - Principle of Virtual Work
Lecture 20 - Systems with Friction
Lecture 21 - Potential Energy
Lecture 22 - Stability of Equilibrium
Lecture 23 - Kinematics of a Particles
Lecture 24 - Kinematics of a Particle Moving on a Curve
Lecture 25 - Relative Motion
Lecture 26 - Plane Kinematics of Rigid Bodies
Lecture 27 - Kinematics of a Particle
Lecture 28 - Work and Energy
Lecture 29 - Impulse and Momentum
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Lecture 30 - Direct and Oblique Impulse
Lecture 31 - Plane Kinetics of Rigid Bodies
Lecture 32 - Kinetics of a Body
Lecture 33 - Method of Momentum and Analysis of Robot Manipulator
Lecture 34 - Kinematics in 3D
Lecture 35 - Kinetics in 3D
Lecture 36 - Free Vibration
Lecture 37 - Forced Vibration Damped Undamped
Lecture 38 - Vibration of Rigid Bodies - Part 1
Lecture 39 - Vibration of Rigid Bodies - Part 2
Lecture 40 - Some Problems of Vibration
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