

NPTEL Video Lecture Topic List - Created by Linuxpert Systems, Chennai

NPTEL Video Course - Mechanical Engineering - NOC:Engineering Mechanics

Subject Co-ordinator - Prof. K. Ramesh

Co-ordinating Institute - IIT - Madras

Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable

Lecture 1 - Introduction to Engineering Mechanics - I
Lecture 2 - Introduction to Engineering Mechanics - II
Lecture 3 - Force Systems - I
Lecture 4 - Force Systems - II
Lecture 5 - Equilibrium of Rigid bodies - I
Lecture 6 - Equilibrium of Rigid bodies - II
Lecture 7 - Trusses - I
Lecture 8 - Trusses - II
Lecture 9 - Trusses - III
Lecture 10 - Beams - I
Lecture 11 - Beams - II
Lecture 12 - Beams - III
Lecture 13 - Beams - IV
Lecture 14 - Virtual Work - I
Lecture 15 - Virtual Work - II
Lecture 16 - Energy Relations
Lecture 17 - Review Before Quiz - I
Lecture 18 - Friction - I
Lecture 19 - Friction - II
Lecture 20 - Friction - III
Lecture 21 - Particle Dynamics
Lecture 22 - Circular Motion
Lecture 23 - Absolute Motion
Lecture 24 - Relative Motion - I
Lecture 25 - Relative Motion - II
Lecture 26 - Relative Motion - III and Instantaneous Center
Lecture 27 - Rotating frame of reference I - Velocity
Lecture 28 - Rotating frame of reference II - Acceleration
Lecture 29 - Rotating frame of reference III - Choice of rotating frame of reference

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- Lecture 30 - RFR- IV Crank and slotted bar
- Lecture 31 - RFR-V Understanding Coriolis Acceleration
- Lecture 32 - Kinetics - I
- Lecture 33 - Kinetics - II
- Lecture 34 - Kinetics - III
- Lecture 35 - 3D Kinematics - I
- Lecture 36 - 3D Kinematics - II
- Lecture 37 - 3D Kinematics - III