

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

NPTEL Video Course - Mechanical Engineering - Dynamics of Machines

Subject Co-ordinator - Prof. Amitabha Ghosh

Co-ordinating Institute - IIT - Kanpur

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

Lecture 1 - Rigid Body Motion - Part 1  
Lecture 2 - Rigid Body Motion - Part 2  
Lecture 3 - Dynamic Force Analysis of Mechanisms  
Lecture 4 - Space Motion of Rigid Bodies  
Lecture 5 - Inertia Tensor Angular Momentum  
Lecture 6 - Euler's Equation of Motion  
Lecture 7 - Gyroscopic Action in Machines  
Lecture 8 - Unbalance in Machines  
Lecture 9 - Rotary Balancing  
Lecture 10 - Balancing Machines  
Lecture 11 - Field Balancing of Rotors  
Lecture 12 - Single-Cylinder Engine Balancing  
Lecture 13 - Balancing of Single Slider Machines  
Lecture 14 - In-Line Engine Balancing  
Lecture 15 - V and Radial Engine Balancing  
Lecture 16 - Turning Moment Diagram  
Lecture 17 - Flywheel Analysis  
Lecture 18 - Dynamics of Machines  
Lecture 19 - Dynamics of Machines  
Lecture 20 - Dynamics of Machines  
Lecture 21 - Dynamics of Machines  
Lecture 22 - Dynamics of Machines  
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Lecture 26 - Dynamics of Machines  
Lecture 27 - Dynamics of Machines  
Lecture 28 - Dynamics of Machines  
Lecture 29 - Rotating Vector Approach

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

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- Lecture 30 - Equivalent viscous damping
- Lecture 31 - Dynamics of Machines
- Lecture 32 - Systems with two degree of freedom
- Lecture 33 - Tuned Vibration Absorber
- Lecture 34 - Design of Vibration Absorbers
- Lecture 35 - Flexibility Matrix Influence Coeff
- Lecture 36 - Forced Vibration of multiple
- Lecture 37 - Forced Vibration of Multiple degrees
- Lecture 38 - Vibration of Continuous Systems
- Lecture 39 - Vibration of Continuous Systems
- Lecture 40 - Vibration of Beams
- Lecture 41 - Rayleigh's method
- Lecture 42 - Rayleigh-Ritz Method
- Lecture 43 - Vibration Measurement
- Lecture 44 - Vibration Measurement Types of Pickups