

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

NPTEL Video Course - Mechanical Engineering - NOC:Acoustic and Noise Control

Subject Co-ordinator - Prof. Abijith Sarkar

Co-ordinating Institute - IIT - Madras

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

Lecture 1 - Module 1 - Introduction - 1  
Lecture 2 - Module 1 - Introduction - 2  
Lecture 3 - Module 2 - Governing Equation - 1  
Lecture 4 - Module 2 - Governing Equation - 2  
Lecture 5 - Module 3 - Plane Wave - 1  
Lecture 6 - Module 3 - Plane Wave - 2  
Lecture 7 - Module 4 - Reflection Of Plane Waves - 1  
Lecture 8 - Module 4 - Reflection Of Plane Waves - 2  
Lecture 9 - Module 5 - Frequency Analysis - 1  
Lecture 10 - Module 5 - Frequency Analysis - 2  
Lecture 11 - Module 6 - Harmonic Plane Waves  
Lecture 12 - Module 7 - Travelling And Standing Waves  
Lecture 13 - Module 8 - Acoustic Mode Shapes, Reflection  
Lecture 14 - Module 9 - Plane Waves  
Lecture 15 - Module 10 - Flexural Waves, evanescent Waves  
Lecture 16 - Module 11 - Near Field Acoustic Waves  
Lecture 17 - Module 12 - cuton Waves in duct  
Lecture 18 - Module 13 - Power Calculation  
Lecture 19 - Module 14 - Decibel Scale  
Lecture 20 - Module 15 - Db Arithmetic  
Lecture 21 - Module 16 - Sound Power Level  
Lecture 22 - Module 17 - Human factors in Acoustic Engineering  
Lecture 23 - Module 18 - Microphone  
Lecture 24 - Module 19 - Acoustic Measurements  
Lecture 25 - Module 20 - Muffler Analysis  
Lecture 26 - Module 21 - Transfer Matrix Method  
Lecture 27 - Module 22 - Electro Mechanical Analogies - Part 1  
Lecture 28 - Module 23 - Electro Mechanical Analogies Simple Example  
Lecture 29 - Module 24 - Electro Mechanical Analogies Example

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Lecture 30 - Module 25 - Helmholtz Resonator  
Lecture 31 - Module 26 - Source Impedance  
Lecture 32 - Module 27 - Insertion Loss  
Lecture 33 - Module 28 - Analysis Of Industrial Mufflers  
Lecture 34 - Module 29 - Spherical Waves  
Lecture 35 - Module 30 - Monopole and Dipole  
Lecture 36 - Module 31 - Inhomogeneous Wave Equation  
Lecture 37 - Module 32 - Green's Function  
Lecture 38 - Module 33 - Kirchoff Helmholtz Integral Equation  
Lecture 39 - Tutorial 1  
Lecture 40 - Tutorial 2  
Lecture 41 - Tutorial 3  
Lecture 42 - Tutorial 4