

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

NPTEL Video Course - Engineering Design - NOC:Fundamentals of Automotive Systems

Subject Co-ordinator - Prof. C.S.Shankar Ram

Co-ordinating Institute - IIT - Madras

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

- Lecture 1 - Course Overview and Classification of Internal Combustion Engines - Part 1
- Lecture 2 - Course Overview and Classification of Internal Combustion Engines - Part 2
- Lecture 3 - Engine Components - Part 1
- Lecture 4 - Engine Components - Part 2
- Lecture 5 - Operation of Four Stroke Engines - Part 1
- Lecture 6 - Operation of Four Stroke Engines - Part 2
- Lecture 7 - Two Stroke Engine and Engine Cycles - Part 1
- Lecture 8 - Two Stroke Engine and Engine Cycles - Part 2
- Lecture 9 - Otto Cycle and Diesel Cycle - Part 1
- Lecture 10 - Otto Cycle and Diesel Cycle - Part 2
- Lecture 11 - Dual Cycle and Engine Performance - Part 1
- Lecture 12 - Dual Cycle and Engine Performance - Part 2
- Lecture 13 - Engine Performance - Part 1
- Lecture 14 - Engine Performance - Part 2
- Lecture 15 - Supercharging and Combustion in SI Engines - Part 1
- Lecture 16 - Supercharging and Combustion in SI Engines - Part 2
- Lecture 17 - Knocking in SI Engines - Part 1
- Lecture 18 - Knocking in SI Engines - Part 2
- Lecture 19 - Combustion in CI Engines and Carburetion - Part 1
- Lecture 20 - Combustion in CI Engines and Carburetion - Part 2
- Lecture 21 - Fuel Introduction Systems - Part 1
- Lecture 22 - Fuel Introduction Systems - Part 2
- Lecture 23 - Analysis of Carburetor - Part 1
- Lecture 24 - Analysis of Carburetor - Part 2
- Lecture 25 - Engine Emissions - Part 1
- Lecture 26 - Engine Emissions - Part 2
- Lecture 27 - Emission Control Systems - Part 1
- Lecture 28 - Emission Control Systems - Part 2
- Lecture 29 - Automotive Powertrain - Part 1

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- Lecture 30 - Automotive Powertrain - Part 2
- Lecture 31 - Automotive Clutch - Part 1
- Lecture 32 - Automotive Clutch - Part 2
- Lecture 33 - Transmission - Part 1
- Lecture 34 - Transmission - Part 2
- Lecture 35 - Powertrain Analysis - Part 1
- Lecture 36 - Powertrain Analysis - Part 2
- Lecture 37 - Powertrain Analysis 2 - Part 1
- Lecture 38 - Powertrain Analysis 2 - Part 2
- Lecture 39 - Transmission Matching - Part 1
- Lecture 40 - Transmission Matching - Part 2
- Lecture 41 - Brake System - Part 1
- Lecture 42 - Brake System - Part 2
- Lecture 43 - Components of a Brake System and Drum Brake - Part 1
- Lecture 44 - Components of a Brake System and Drum Brake - Part 2
- Lecture 45 - Disc Brake and Introduction to Hydraulic Brake - Part 1
- Lecture 46 - Disc Brake and Introduction to Hydraulic Brake - Part 2
- Lecture 47 - Hydraulic Brake System - Part 1
- Lecture 48 - Hydraulic Brake System - Part 2
- Lecture 49 - Air Brake System - Part 1
- Lecture 50 - Air Brake System - Part 2
- Lecture 51 - Antilock Brake System 1 - Part 1
- Lecture 52 - Antilock Brake System 1 - Part 2
- Lecture 53 - Antilock Brake System 2 - Part 1
- Lecture 54 - Antilock Brake System 2 - Part 2
- Lecture 55 - Braking Analysis - Part 1
- Lecture 56 - Braking Analysis - Part 2
- Lecture 57 - Steering System - Part 1
- Lecture 58 - Steering System - Part 2
- Lecture 59 - Manual Steering Systems - Part 1
- Lecture 60 - Manual Steering Systems - Part 2
- Lecture 61 - Power Steering and Kinematic Steering Analysis - Part 1
- Lecture 62 - Power Steering and Kinematic Steering Analysis - Part 2
- Lecture 63 - Wheel Alignment - Part 1
- Lecture 64 - Wheel Alignment - Part 2
- Lecture 65 - Introduction to Suspension System - Part 1
- Lecture 66 - Introduction to Suspension System - Part 2
- Lecture 67 - Shock Absorbers and Independent Suspension - Part 1
- Lecture 68 - Shock Absorbers and Independent Suspension - Part 2

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- Lecture 69 - Dependent Suspension and Suspension Analysis - Part 1
- Lecture 70 - Dependent Suspension and Suspension Analysis - Part 2
- Lecture 71 - Introduction to Electric and Hybrid Powertrain - Part 1
- Lecture 72 - Introduction to Electric and Hybrid Powertrain - Part 2
- Lecture 73 - Tyres - Part 1
- Lecture 74 - Tyres - Part 2