

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

NPTEL Video Course - Mechanical Engineering - NOC:Power Plant Engineering

Subject Co-ordinator - Prof. Ravi Kumar

Co-ordinating Institute - IIT - Roorkee

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

Lecture 1 - Energy Scenario and Basic Concepts  
Lecture 2 - Steam Power Plant Cycle  
Lecture 3 - Fossil Fuel Steam Generator - I  
Lecture 4 - Fossil Fuel Steam Generator - II  
Lecture 5 - Mountings and Accessories - I  
Lecture 6 - Mountings and Accessories - II  
Lecture 7 - Boiler Performance  
Lecture 8 - Coal Properties  
Lecture 9 - Coal Handling  
Lecture 10 - Problem Solving - I  
Lecture 11 - Burning of Fuel  
Lecture 12 - Ash Handling  
Lecture 13 - Feed Water Treatment  
Lecture 14 - Steam Turbines  
Lecture 15 - Impulse Steam Turbines  
Lecture 16 - Impulse-Reaction Steam Turbines  
Lecture 17 - Energy Losses in Steam Turbines  
Lecture 18 - Steam Condensers  
Lecture 19 - Gas Turbines  
Lecture 20 - Problem Solving - II  
Lecture 21 - Hydroelectric power plant  
Lecture 22 - Hydro plants and forces on plates  
Lecture 23 - Hydro Turbines - I  
Lecture 24 - Hydro Turbines - II  
Lecture 25 - Problem solving - III  
Lecture 26 - Principles of nuclear energy  
Lecture 27 - Nuclear power plants - I  
Lecture 28 - Nuclear power plants - II  
Lecture 29 - Combined operations

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- Lecture 30 - Solar radiations
- Lecture 31 - Solar thermal power
- Lecture 32 - Wind energy
- Lecture 33 - Wave and geothermal energy
- Lecture 34 - Photo-voltaic conversion
- Lecture 35 - Problem solving - IV
- Lecture 36 - Direct energy conversion
- Lecture 37 - Instrumentation in power plant
- Lecture 38 - Economic of power generation
- Lecture 39 - Environmental aspects of power generation
- Lecture 40 - Problem solving - V