

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

NPTEL Video Course - Mechanical Engineering - Engineering Thermodynamics

Subject Co-ordinator - Prof. Babu Viswanathan

Co-ordinating Institute - IIT - Madras

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

Lecture 1 - Course outline  
Lecture 2 - Introduction - Part 1  
Lecture 3 - Introduction - Part 2  
Lecture 4 - Basic concepts - Part 1  
Lecture 5 - Basic concepts - Part 2  
Lecture 6 - Basic concepts - Part 3  
Lecture 7 - Basic concepts - Part 4  
Lecture 8 - Basic concepts - Part 5  
Lecture 9 - Work and Heat - Part 1  
Lecture 10 - Work and Heat - Part 2  
Lecture 11 - Work and Heat - Part 3  
Lecture 12 - First law of thermodynamics  
Lecture 13 - Pure substances  
Lecture 14 - Ideal gases and ideal gas mixtures  
Lecture 15 - Two-phase mixtures - Part 1  
Lecture 16 - Two-phase mixtures - Part 2  
Lecture 17 - First law analysis of systems - Part 1  
Lecture 18 - First law analysis of systems - Part 2  
Lecture 19 - First law analysis of systems - Part 3  
Lecture 20 - First law analysis of systems - Part 4  
Lecture 21 - First law of thermodynamics for a control volume  
Lecture 22 - Control volume analysis of steady flow devices - Part 1  
Lecture 23 - Control volume analysis of steady flow devices - Part 2  
Lecture 24 - Control volume analysis of steady flow devices - Part 3  
Lecture 25 - Unsteady analysis  
Lecture 26 - Second law of Thermodynamics - Part 1  
Lecture 27 - Second law of Thermodynamics - Part 2  
Lecture 28 - Second law of Thermodynamics - Part 3  
Lecture 29 - Second law of Thermodynamics - Part 4

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- Lecture 30 - Second law of Thermodynamics - Part 5
- Lecture 31 - Entropy - Part 1
- Lecture 32 - Entropy - Part 2
- Lecture 33 - Entropy - Part 3
- Lecture 34 - Entropy - Part 4
- Lecture 35 - Entropy - Part 5
- Lecture 36 - Entropy - Part 6
- Lecture 37 - Thermodynamic cycles - Part 1
- Lecture 38 - Thermodynamic cycles - Part 2