

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

NPTEL Video Course - Mechanical Engineering - Basic Thermodynamics

Subject Co-ordinator - Prof. S.K. Som

Co-ordinating Institute - IIT - Kharagpur

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

- Lecture 1 - Introduction and Fundamental Concepts
- Lecture 2 - Zeroth Law and Fundamental Concepts
- Lecture 3 - Different Kind of Energy and First Law - I
- Lecture 4 - First Law - II
- Lecture 5 - First Law - III
- Lecture 6 - Second Law and Its Corollaries - I
- Lecture 7 - Second Law and Its Corollaries - II
- Lecture 8 - Second Law and Its Corollaries - III
- Lecture 9 - Second Law and Its Corollaries - IV
- Lecture 10 - Second Law and Available Energy - I
- Lecture 11 - Second Law and Available Energy - II
- Lecture 12 - Second Law and Available Energy - III
- Lecture 13 - Thermodynamic Property Relations - I
- Lecture 14 - Thermodynamic Property Relations - II
- Lecture 15 - Joule-Kelvin Expansion
- Lecture 16 - Properties of Pure Substances - I
- Lecture 17 - Properties of Pure Substances - II
- Lecture 18 - Properties of Pure Substances
- Lecture 19 - Properties of Ideal Gases
- Lecture 20 - Vapors Power Cycle - I
- Lecture 21 - Vapor Power Cycle - II
- Lecture 22 - Vapor Power Cycle - III
- Lecture 23 - Vapor Power Cycle - IV
- Lecture 24 - Gas Power Cycle - I
- Lecture 25 - Gas Power Cycle - II
- Lecture 26 - Gas Power Cycle - III
- Lecture 27 - Thermodynamics of Reacting System - I
- Lecture 28 - Thermodynamics of Reacting System - II
- Lecture 29 - Thermodynamics of Reacting System - III

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

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- Lecture 30 - Thermodynamics of Multi Component System - I
- Lecture 31 - Thermodynamics of Multi Component System - II
- Lecture 32 - Thermodynamics of Multi Component System - III