

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

NPTEL Video Course - Mechanical Engineering - NOC:Basics of Mechanical Engineering - II

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Co-ordinating Institute - IIT - Kanpur

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

Lecture 1 - Introduction to Manufacturing Engineering  
Lecture 2 - Engineering Materials - Part 1  
Lecture 3 - Engineering Materials - Part 2  
Lecture 4 - Engineering Materials - Part 3  
Lecture 5 - Crystal Structures  
Lecture 6 - Phase Diagrams  
Lecture 7 - Heat Treatment  
Lecture 8 - Tutorial 1 (Atomic Packing Factor, and Phase Diagram)  
Lecture 9 - Basics of Casting - Part 1  
Lecture 10 - Basics of Casting - Part 2  
Lecture 11 - Basics of Casting - Part 3  
Lecture 12 - Casting Processes  
Lecture 13 - Tutorial 2 (Casting) - Part 1  
Lecture 14 - Tutorial 2 (Casting) - Part 2  
Lecture 15 - Virtual Lab, Demonstration (Casting)  
Lecture 16 - Basics of Forming - Part 1  
Lecture 17 - Basics of Forming - Part 2  
Lecture 18 - Basics of Forming - Part 3  
Lecture 19 - Basics of Forming - Part 4  
Lecture 20 - Basics of Forming - Part 5  
Lecture 21 - Tutorial 3 (Forming) - Part 1  
Lecture 22 - Tutorial 3 (Forming) - Part 2  
Lecture 23 - Virtual Lab, Demonstration (Forming)  
Lecture 24 - Basics of Welding - Part 1  
Lecture 25 - Basics of Welding - Part 2  
Lecture 26 - Basics of Welding - Part 3  
Lecture 27 - Basics of Welding - Part 4  
Lecture 28 - Basics of Welding - Part 5  
Lecture 29 - Basics of Welding - Part 6

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- Lecture 30 - Basics of Welding - Part 7
- Lecture 31 - Tutorial 4 (Welding)
- Lecture 32 - Virtual Lab, Demonstration (Welding)
- Lecture 33 - Basics of Machining - Part 1
- Lecture 34 - Basics of Machining - Part 2
- Lecture 35 - Basics of Machining - Part 3
- Lecture 36 - Basics of Machining - Part 4
- Lecture 37 - Basics of Machining - Part 5
- Lecture 38 - Basics of Machining - Part 6
- Lecture 39 - Basics of Machining - Part 7
- Lecture 40 - Tutorial 5 (Machining) - Part 1
- Lecture 41 - Tutorial 5 (Machining) - Part 2
- Lecture 42 - Virtual Lab, Demonstration (Machining)
- Lecture 43 - Non-Conventional Machining - Part 1
- Lecture 44 - Non-Conventional Machining - Part 2
- Lecture 45 - Non-Conventional Machining - Part 3
- Lecture 46 - Tutorial 6 (Non-Conventional Machining)
- Lecture 47 - Virtual Lab, Demonstration (Non-Conventional Machining)
- Lecture 48 - Introduction to Sustainable Manufacturing
- Lecture 49 - Life Cycle Assessment
- Lecture 50 - Green Machining
- Lecture 51 - Metrics for Sustainable Manufacturing