

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

NPTEL Video Course - Mechanical Engineering - NOC:Production Technology: Theory and Practice

Subject Co-ordinator - Prof. Sounak Kumar Choudhury

Co-ordinating Institute - IIT - Kanpur

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

Lecture 1 - Engineering Materials and Their Properties - 1  
Lecture 2 - Engineering Materials and Their Properties - 2  
Lecture 3 - Engineering Materials and Their Properties - 3  
Lecture 4 - Metal Machining-1: Introduction to Machining  
Lecture 5 - Metal Machining-2: Mechanism of plastic deformation  
Lecture 6 - Metal Machining-3: Types of Chips, Tool nomenclature and tool angles  
Lecture 7 - Metal Machining-4: Selection of Tool angles, Forces in machining  
Lecture 8 - Metal Machining-5: Merchant's Circle Diagram  
Lecture 9 - Metal Machining-6: Friction in Metal Cutting  
Lecture 10 - Metal Machining-7: Practical Machining Operations; Force Measurement  
Lecture 11 - Metal Machining-8: Force Measurement  
Lecture 12 - Metal Machining-9: Tool Wear and Tool Life  
Lecture 13 - Metal Machining-10: Factors affecting Tool Life  
Lecture 14 - Metal Machining-11: Abrasive Machining Processes  
Lecture 15 - Metal Machining-12: Abrasive Machining Processes  
Lecture 16 - Metal Machining-13: Grinding; Economics of Machining  
Lecture 17 - Machining-14: Economics of Machining  
Lecture 18 - Non-Traditional Machining-1: Introduction; Classification  
Lecture 19 - Non-Traditional Machining-2: Various Non-Traditional Machining Processes  
Lecture 20 - Non-Traditional Machining-3, Computer Numerical Control (CNC) -1  
Lecture 21 - Computer Numerical Control (CNC) - 2  
Lecture 22 - Computer Numerical Control (CNC) - 3  
Lecture 23 - Engineering Metrology  
Lecture 24 - Laboratory Demonstration/Hands-On Practice - 1  
Lecture 25 - Laboratory Demonstration/Hands-On Practice - 2  
Lecture 26 - Laboratory Demonstration/Hands-On Practice - 3  
Lecture 27 - Laboratory Demonstration/Hands-On Practice - 4  
Lecture 28 - Laboratory Demonstration/Hands-On Practice - 5  
Lecture 29 - Laboratory Demonstration/Hands-On Practice - 6

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| Lecture 31 | - | Laboratory Demonstration/Hands-On Practice | - | 8  |
| Lecture 32 | - | Laboratory Demonstration/Hands-On Practice | - | 9  |
| Lecture 33 | - | Laboratory Demonstration/Hands-On Practice | - | 10 |