

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

NPTEL Video Course - Mechanical Engineering - NOC:Advanced Machining Processes (2024)

Subject Co-ordinator - Prof. Shantanu Bhattacharya

Co-ordinating Institute - IIT - Kanpur

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

Lecture 1 - Introduction to Advanced Manufacturing Processes  
Lecture 2 - Ultrasonic Machining  
Lecture 3  
Lecture 4  
Lecture 5 - Abrasive Jet Machining  
Lecture 6 - Adrasive Jet Micro-Machining and Mask Materials for AJMM  
Lecture 7 - Electro-Chemical Machining  
Lecture 8 - Electrochemical Machining - I  
Lecture 9 - Electrochemical Machining - II  
Lecture 10 - Electrochemical Machining - III  
Lecture 11 - Electrochemical Machining - IV  
Lecture 12 - Electrochemical Machining - V  
Lecture 13 - Electrochemical Machining - VI  
Lecture 14 - Electrochemical Machining - VII  
Lecture 15 - Electrochemical Machining - VIII  
Lecture 16 - Machining Applications  
Lecture 17 - Electric Discharge Machining - I  
Lecture 18 - Electric Discharge Machining - II  
Lecture 19 - Electric Discharge Machining - III  
Lecture 20 - Electric Discharge Machining - IV  
Lecture 21 - Electric Discharge Machining - IV and Electron Beam Machining - I  
Lecture 22 - Electron Beam Machining - II  
Lecture 23 - Laser Beam Machining - I  
Lecture 24 - Laser Beam Machining - II  
Lecture 25 - Silicon and Processing of Silicon - I  
Lecture 26 - Silicon and Processing of Silicon - II  
Lecture 27 - Polymer Processing  
Lecture 28 - Advanced Finishing Processes  
Lecture 29 - Lab Session-I: Water Abrasive Jet Machining Process

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- Lecture 30 - Lab Session-II: Electro-discharge Machining Process - I
- Lecture 31 - Lab Session-III: Electro-discharge Machining Process - II
- Lecture 32 - Lab Session-IV: Laser Beam Machining
- Lecture 33 - Lab Session-V: Photolithiography