

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

NPTEL Video Course - Mechanical Engineering - NOC:Introduction to Machining and Machining Fluids

Subject Co-ordinator - Prof. Mamilla Ravi Sankar

Co-ordinating Institute - IIT - Guwahati

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

- Lecture 1 - Introduction
- Lecture 2 - Introduction and Importance of Machining
- Lecture 3 - Principles of Machining or Metal Cutting
- Lecture 4 - Cutting Tools
- Lecture 5 - Forces in Machining
- Lecture 6 - Tribology in Machining
- Lecture 7 - Lubrication surface roughness in Machining
- Lecture 8 - Machinability and Thermal Aspects
- Lecture 9 - Tool Wear and Tool life - Part 1
- Lecture 10 - Tool Wear and Tool life - Part 2
- Lecture 11 - Tool Wear and Tool life - Part 3
- Lecture 12 - Tool Materials and Coatings
- Lecture 13 - Machining Fluids / Cutting Fluids and its Additives - Part 1
- Lecture 14 - Machining Fluids / Cutting Fluids and its Additives - Part 2
- Lecture 15 - Machining Fluids / Cutting Fluids and its Emissions
- Lecture 16 - Eco Friendly Cutting Fluids - Part 1
- Lecture 17 - Eco Friendly Cutting Fluids - Part 2
- Lecture 18 - Rheology and Thermal Characterization of Machining / Cutting Fluids
- Lecture 19 - Bio-degradation Studies of Machining / Cutting Fluids
- Lecture 20 - Cutting Fluid Application in Machining Region
- Lecture 21 - Practical Machining Processes - 1
- Lecture 22 - Practical Machining Processes - 2
- Lecture 23 - Introduction to Abrasive Processes - Grinding
- Lecture 24 - Cutting fluids in Grinding Process
- Lecture 25 - Unbonded Conventional Abrasive Processes
- Lecture 26 - Advances in Metal Cutting\_Machining Processes
- Lecture 27 - Advances in Metal Cutting\_Machining Processes - 2

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