

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

NPTEL Video Course - Mechanical Engineering - NOC: Metal Cutting and Machine Tools

Subject Co-ordinator - Prof. Asimava Roy Choudhury

Co-ordinating Institute - IIT - Kharagpur

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

Lecture 1 - Introduction
Lecture 2 - Geometry of single point turning tools - 1
Lecture 3 - Geometry of turning tools - 2
Lecture 4 - Geometry of single point turning tools - 3
Lecture 5 - Geometry of cutting tools and numerical problems
Lecture 6 - Different types of tools and mcq
Lecture 7 - Mechanism of chip formation
Lecture 8 - Mechanics of material removal
Lecture 9 - Measurement of Cutting Forces
Lecture 10 - Numerical problems and MCQ
Lecture 11 - Tool wear and Tool life
Lecture 12 - Wear and life of cutting tools - 2
Lecture 13 - The lathe
Lecture 14 - Calculations on mechanisms in machine tools
Lecture 15 - Numerical problems on lathe
Lecture 16 - Milling machines
Lecture 17 - Milling machine - indexing
Lecture 18 - Gear cutting CNC and non traditional machining
Lecture 19 - CNC and non-traditional machining methods
Lecture 20 - Numerical problems for week 4
Lecture 21 - Live Session