

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

NPTEL Video Course - Mechanical Engineering - NOC:Manufacturing Guidelines for Product Design

Subject Co-ordinator - Dr. Inderdeep Singh

Co-ordinating Institute - IIT - Roorkee

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

Lecture 1 - Product Design
Lecture 2 - Introduction of Manufacturing Processes
Lecture 3 - Manufacturing Processes
Lecture 4 - Manufacturing Processes
Lecture 5 - Process Capabilities
Lecture 6 - Engineering Materials
Lecture 7 - Properties of materials
Lecture 8 - Selection of materials - I
Lecture 9 - Selection of materials - II
Lecture 10 - Applications of Engineering Material
Lecture 11 - Robust design
Lecture 12 - Design for X
Lecture 13 - Product Design for Manual Assembly
Lecture 14 - DFMA Guidelines
Lecture 15 - Ergonomics in Product Design
Lecture 16 - Selection of processes - I
Lecture 17 - Selection of processes - II
Lecture 18 - Process Capabilities.
Lecture 19 - Design Guidelines for Sand Casting
Lecture 20 - Design Guidelines for Die Casting
Lecture 21 - Product Design Guidelines
Lecture 22 - Design Guidelines for Extrusion and Injection Molding
Lecture 23 - Design Guidelines for Sheet Metal Working
Lecture 24 - Design Guidelines for Machining
Lecture 25 - Design Guidelines for Powder Metal Processing
Lecture 26 - Assembly Processes
Lecture 27 - Adhesive Joining
Lecture 28 - Design Guidelines for Mechanical Fasteners
Lecture 29 - Design Guidelines for Welding

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- Lecture 30 - Design guidelines
- Lecture 31 - Induction Welding
- Lecture 32 - Ultrasonic Welding
- Lecture 33 - Vibration and Spin Welding
- Lecture 34 - Microwave Joining
- Lecture 35 - Hole making
- Lecture 36 - Design for Environment
- Lecture 37 - Design for Environment
- Lecture 38 - Product Architecture
- Lecture 39 - Rapid Prototyping
- Lecture 40 - Product Design