

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

NPTEL Video Course - Mechanical Engineering - NOC:Design Practice-II

Subject Co-ordinator - Dr. Shantanu Bhattacharya

Co-ordinating Institute - IIT - Kanpur

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

- Lecture 1 - Design concepts
- Lecture 2 - Computer Aided Design (CAD)
- Lecture 3 - Geometrical transformation
- Lecture 4 - Composition of geometrical transformation
- Lecture 5 - Geometric modeling
- Lecture 6 - Representation of curves
- Lecture 7 - Parametric representation of synthetic curves
- Lecture 8 - Curve fitting problem (Hermite case)
- Lecture 9 - Problem solving (based on Bezier curve)
- Lecture 10 - Representation of Surfaces
- Lecture 11 - Introduction to Micro-Electro mechanical Systems (MEMS)
- Lecture 12 - Lab-on-Chip
- Lecture 13 - Introduction to Sensors
- Lecture 14 - Introduction to Transducers
- Lecture 15 - Introduction to device fabrications
- Lecture 16 - Introduction to Silicon as a MEMS material
- Lecture 17 - Etching processes
- Lecture 18 - Types of Photolithography
- Lecture 19 - Introduction to actuators
- Lecture 20 - Designing of the Micro-Valve
- Lecture 21 - Electrochemical valves
- Lecture 22 - Micropumps
- Lecture 23 - Designing of peristaltic pumps
- Lecture 24 - Different types of pumps and sensors
- Lecture 25 - Computer Numerical Control
- Lecture 26 - Numerical control programming
- Lecture 27 - NC part programming
- Lecture 28 - Introduction to rapid prototyping
- Lecture 29 - Different types of rapid prototyping technologies

Get Digi-MAT (Digital Media Access Terminal) For High-Speed Video Streaming of NPTEL and Educational Video Courses in LAN

www.digimat.in

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

- Lecture 30 - Fused Deposition Modeling
- Lecture 31 - LAB demonstration of Fused Deposition Modelling Techniques
- Lecture 32 - LAB demonstrtion of Fused Deposition Modelling Process
- Lecture 33
- Lecture 34
- Lecture 35
- Lecture 36
- Lecture 37