

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

NPTEL Video Course - Electrical Engineering - NOC:Electronics Equipment Integration and Prototype Building

Subject Co-ordinator - Prof. N.V.Chalapathi Rao

Co-ordinating Institute - IISc - Bangalore

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

Lecture 1 - Introduction to electronics products
Lecture 2 - Examples from real life
Lecture 3 - Common Simulation of flat prismatic parts
Lecture 4 - Common flat parts enclosures
Lecture 5 - Real life parts to scale on a graph
Lecture 6 - Early First steps
Lecture 7 - Top down, outside to internals
Lecture 8 - Using a print and fabrication video
Lecture 9 - Details of displays and keys
Lecture 10 - Improvement on marking and skill
Lecture 11 - Mass production in sheet metal
Lecture 12 - Prototyping of user interfaces for concepts
Lecture 13 - Stacking of equipment to make a system
Lecture 14 - Recapitulating a sub system
Lecture 15 - Off the shelf enclosures and making a user interface
Lecture 16 - Looking around for concepts and integration
Lecture 17 - Representation on paper
Lecture 18 - Example features of surfaces and solids
Lecture 19 - Simple and curved surfaces
Lecture 20 - Describing inclined surfaces
Lecture 21 - Basics of engineering Drawing
Lecture 22 - Introduction to sizing and fits
Lecture 23 - Practical mechanical assemblies
Lecture 24 - Analogous Mechanical - Electronics detailing
Lecture 25 - Solid modelling
Lecture 26 - Importance of dimensioning
Lecture 27 - Ease of editing redesign
Lecture 28 - Dimensioning of electronics components
Lecture 29 - 2D flat representation

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- Lecture 30 - Electronics to Mechanical interfacing
- Lecture 31 - Complexity of 3D assemblies with wiring
- Lecture 32 - Illustrative simple design
- Lecture 33 - Practical detailing
- Lecture 34 - Rendered on screen
- Lecture 35 - Fastenings and hardware
- Lecture 36 - Fastener representation, detailing
- Lecture 37 - Practical detailing.
- Lecture 38 - Recapitulation, context of course
- Lecture 39 - Low cost is the key