

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

NPTEL Video Course - Mechanical Engineering - NOC:Engineering Graphics and Design

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Co-ordinating Institute - IIT - Delhi

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

Lecture 1 - Introduction  
Lecture 2 - Examples of visualization - 1  
Lecture 3 - Examples of visualization - 2  
Lecture 4 - Visualization and drawing  
Lecture 5 - Sketch to engineering drawing  
Lecture 6 - Types of projections  
Lecture 7 - Multiview projections  
Lecture 8 - 1st and 3rd angle projections  
Lecture 9 - Sketching  
Lecture 10 - Visualization  
Lecture 11 - Drawing sheet  
Lecture 12 - Lines  
Lecture 13 - Dimensioning  
Lecture 14 - Projection of a point line and plane  
Lecture 15 - Projection of simple objects  
Lecture 16 - Example Projection of a solid  
Lecture 17 - Example Projection of an object  
Lecture 18 - Types of Solids  
Lecture 19 - Polygons Construction and Projections  
Lecture 20 - Rotation of Solids  
Lecture 21 - Example Rotation of Solids  
Lecture 22 - Section views  
Lecture 23 - Sectioning practices  
Lecture 24 - Auxiliary views  
Lecture 25 - Example Section View  
Lecture 26 - Example Auxiliary View  
Lecture 27 - Pictorial Drawings  
Lecture 28 - Construction of Isometric Drawings  
Lecture 29 - Example Isometric drawings

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- Lecture 30 - Working Drawing
- Lecture 31 - Example Sectional View of Assembly
- Lecture 32 - Computer Aided Design
- Lecture 33 - Autodesk Inventor Environment
- Lecture 34 - Sketching for Solid Modelling
- Lecture 35 - Example 1 Extrude Hole Fillet Chamfer
- Lecture 36 - Example 2 Rib Mirror
- Lecture 37 - Example 3
- Lecture 38 - Revolve Loft Pattern
- Lecture 39 - Example 4
- Lecture 40 - Example 5
- Lecture 41 - Spline Sweep Shell
- Lecture 42 - Example 6
- Lecture 43 - Example 7
- Lecture 44 - Drawing from Solid Model
- Lecture 45 - Assembly with constraints
- Lecture 46 - Example 8
- Lecture 47 - Example 9
- Lecture 48 - Example 10
- Lecture 49 - Example 11
- Lecture 50 - Civil and architectural drawings