

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

NPTEL Video Course - Mechanical Engineering - NOC:Computer Integrated Manufacturing

Subject Co-ordinator - Prof. J. Ramkumar, Prof. Amandeep Singh

Co-ordinating Institute - IIT - Kanpur

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

Lecture 1 - Introduction to CIM - Part 1  
Lecture 2 - Introduction to CIM - Part 2  
Lecture 3 - Computers and Manufacturing Systems - Part 1  
Lecture 4 - Computers and Manufacturing Systems - Part 2  
Lecture 5 - Computers and Manufacturing Systems - Part 3  
Lecture 6 - Computer Graphics - Part 1  
Lecture 7 - Computer Graphics - Part 2  
Lecture 8 - Computer Graphics - Part 3  
Lecture 9 - Computer Graphics - Part 4  
Lecture 10 - Geometric Modelling - Part 1  
Lecture 11 - Geometric Modelling - Part 2  
Lecture 12 - Computer Numerical Control - Part 1  
Lecture 13 - Computer Numerical Control - Part 2  
Lecture 14 - Computer Numerical Control - Part 3  
Lecture 15 - Computer Numerical Control - Part 4  
Lecture 16 - CNC Machining - Part 1  
Lecture 17 - CNC Machining - Part 2  
Lecture 18 - CNC Tooling  
Lecture 19 - CNC Part Programming - Part 1  
Lecture 20 - CNC Part Programming - Part 2  
Lecture 21 - CNC Part Programming - Part 3  
Lecture 22 - CNC Part Programming - Part 4  
Lecture 23 - Laboratory Demonstration, Computer Aided Design - Part 1  
Lecture 24 - Laboratory Demonstration, Computer Aided Design - Part 2  
Lecture 25 - CAM softwares  
Lecture 26 - Laboratory Demonstration, Computer Aided Manufacturing - Part 1  
Lecture 27 - Laboratory Demonstration, Computer Aided Manufacturing - Part 2  
Lecture 28 - Group Technology  
Lecture 29 - Computer Aided Process Planning - Part 1

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- Lecture 30 - Computer Aided Process Planning - Part 2
- Lecture 31 - Flexible Manufacturing System
- Lecture 32 - Robotics
- Lecture 33 - Programmable Logic Controller
- Lecture 34 - Automatic Identification and Data Capture
- Lecture 35 - Computer Aided Quality Control - Part 1
- Lecture 36 - Computer Aided Quality Control - Part 2
- Lecture 37 - Laboratory Demonstration, Coordinate Measuring Machine
- Lecture 38 - Rapid Manufacturing - Part 1
- Lecture 39 - Rapid Manufacturing - Part 2
- Lecture 40 - Laboratory demonstration, Rapid Manufacturing - Part 1
- Lecture 41 - Laboratory demonstration, Rapid Manufacturing - Part 2
- Lecture 42 - Laboratory Demonstration, CAD using Fusion 360, an introduction
- Lecture 43 - Laboratory Demonstration, CAD using Fusion 360, Rendering and 3D printing
- Lecture 44 - Material Handling
- Lecture 45 - Laboratory Demonstration, Plant Simulation software - Part 1
- Lecture 46 - Laboratory Demonstration, Plant Simulation software - Part 2
- Lecture 47 - Laboratory Demonstration, Plant Simulation software - Part 3
- Lecture 48 - Computers in Manufacturing Industry, current scenario - Part 1
- Lecture 49 - Computers in Manufacturing Industry, current scenario - Part 2
- Lecture 50 - Computers in Manufacturing Industry, current scenario - Part 3