NPTEL Video Course - Mechanical Engineering - NOC:Computer numerical control (CNC) of machine tools and proce

Subject Co-ordinator - Prof. Asimava Roy Choudhury

Co-ordinating Institute - IIT - Kharagpur

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

Lecture 1 - Introduction to computer control Â role of computers in automation
Lecture 2 - Introduction (Continued...) - binary logic and logic gates
Lecture 3 - Classification of Computer numerical control (CNC) Â Point to point and continuous control
Lecture 4 - Classification (Continued...) - Closed loop and open loop control
Lecture 5 - Tutorial involving simple calculations on different aspects of CNC controls
Lecture 6 - Questions, MCQ Discussions on Motors, Encoders, Decoders and Programming Practice
Lecture 7 - Stepper motors, Permanent magnet DC motors
Lecture 8 - Binary circuits and decoders
Lecture 9 - Tachogenerator, printed circuit motors, Encoders
Lecture 10 - Programming Practice - I
Lecture 11 - Programming Practice - II
Lecture 12 - Computer Aided Offline Programming
Lecture 13 - Interpolators - Linear
Lecture 14 - Interpolators - Curvilinear
Lecture 15 - Questions on Programming and Interpolation
Lecture 16 - 3-D Machining - Basic Concepts
Lecture 17 - Curved Surface Geometry
Lecture 18 - Cutter Path Generation for Curved Surfaces
Lecture 19 - Cutter Path Generation (Concluding Part) and Current Status - CNC Machining and Related Processe
Lecture 20 - Questions and Discussions on Curved Surface Machining

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