NPTEL Video Course - Management - NOC:Automation in Production Systems and Management

Subject Co-ordinator - Prof. Pradip Kumar Ray

Co-ordinating Institute - IIT - Kharagpur

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

Get DIGIMAT For High-Speed Video Streaming of NPTEL and Educational Video Courses in LAN

http://www.digimat.in

Lecture 30 - Application of GT for Designing Flexible and Programmable Automation
Lecture 31 - Concept and Definition of Cellular Manufacturing System (CMS)
Lecture 32 - Cell Formation Approaches - I
Lecture 33 - Cell Formation Approaches - II
Lecture 34 - Evaluation of Cell Design, Numerical Examples
Lecture 35 - Production Planning and Control in CMS, Assessment of Solution by Heuristics
Lecture 36 - Types and Definitions of of Flexibility in Manufacturing Systems
Lecture 37 - Volume-Variety Relationships in Production Systems, What is FMS?
Lecture 38 - Basic Features of FMS: PhysicalSsubsystems
Lecture 39 - Basic Features of FMS: Control Subsystems and Manufacturing Control Activities.
Lecture 40 - Types of Problems in FMS
Lecture 41 - Operational Problems in FMS: Tools and Techniques - 1, Problem Formulation
Lecture 42 - Operational Problems in FMS: Tools and Techniques - 2, Numerical Examples
Lecture 43 - Tool Allocation Policies in FMS, Numerical Examples
Lecture 44 - Fixture and Pallet Selection Problems: Numerical Examples
Lecture 45 - Types of FMS Layout, Relative Advantages
Lecture 46 - Fundamentals of Robotics and its Applications
Lecture 47 - Robot Movement and Precision
Lecture 48 - Robot Motion Analysis, Robotic Joints and Links
Lecture 49 - Robot Classification System, Industrial Robot Applications
Lecture 50 - Numerical Examples
Lecture 51 - Definition of Process Planning: Function of Process Plan
Lecture 52 - Basic Steps in Process Plan Development
Lecture 53 - Process Planning Approaches: Manual Experience-based Process Planning
Lecture 54 - Process Planning Approaches: Computer-aided Process Planning
Lecture 55 - CIN and CAPP, Process Optimization and CAPP
Lecture 56 - Process Optimization and CAPP
Lecture 57 - FMS and CAPP
Lecture 58 - Process Optimization and CAPP: Numerical Examples
Lecture 59 - Process Planning and Concurrent Engineering
Lecture 60 - Autonomation (and other TPS Areas and Approaches)

Get DIGIMAT For High-Speed Video Streaming of NPTEL and Educational Video Courses in LAN

http://www.digimat.in