

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

NPTEL Video Course - Mechanical Engineering - NOC:Operations Management

Subject Co-ordinator - Dr. Inderdeep Singh

Co-ordinating Institute - IIT - Roorkee

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

- Lecture 1 - Operations Management
- Lecture 2 - Operations Management
- Lecture 3 - Operations Management
- Lecture 4 - Types of Production Systems
- Lecture 5 - Operations Strategy
- Lecture 6 - Product Life-Cycle
- Lecture 7 - Value Engineering Concepts
- Lecture 8 - Design for X (DFX)
- Lecture 9 - Ergonomics in Product Design
- Lecture 10 - Rapid Prototyping
- Lecture 11 - Sales Forecasting
- Lecture 12 - Forecasting System
- Lecture 13 - Qualitative Methods of Forecasting
- Lecture 14 - Quantitative Methods - I
- Lecture 15 - Quantitative Methods - II
- Lecture 16 - Facility Planning
- Lecture 17 - Factors Affecting Plant Location
- Lecture 18 - Plant Location
- Lecture 19 - Location Evaluation Methods - I
- Lecture 20 - Location Evaluation Methods - II
- Lecture 21 - Facility Layout and Planning - I
- Lecture 22 - Facility Layout and Planning - II
- Lecture 23 - Factors Influencing Plant Layout
- Lecture 24 - Material Flow Patterns
- Lecture 25 - Tools and Techniques used For Plant Layout Planning
- Lecture 26 - Production Planning and Control
- Lecture 27 - Process Planning
- Lecture 28 - Aggregate Production Planning
- Lecture 29 - Capacity Planning

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- Lecture 30 - Capacity Planning
- Lecture 31 - Project Scheduling
- Lecture 32 - Network Diagrams
- Lecture 33 - Critical Path Method
- Lecture 34 - Critical Path Method
- Lecture 35 - Critical Path Method
- Lecture 36 - Program Evaluation and Review Technique (PERT)
- Lecture 37 - PERT Problems - I
- Lecture 38 - PERT Problems - II
- Lecture 39 - Time Cost Trade Off (Crashing)
- Lecture 40 - Project Network
- Lecture 41 - Production Control
- Lecture 42 - Sequencing
- Lecture 43 - Sequencing Problems - I
- Lecture 44 - Sequencing Problems - II
- Lecture 45 - Master Production Scheduling (MPS)
- Lecture 46 - Concept of Quality
- Lecture 47 - Total Quality Management (TQM)
- Lecture 48 - Total Productive Maintenance
- Lecture 49 - Statistical Quality Control (SQC)
- Lecture 50 - Six Sigma
- Lecture 51 - Materials Management
- Lecture 52 - Inventory Control
- Lecture 53 - Economic Order Quantity (EOQ) Models
- Lecture 54 - Economic Order Quantity (EOQ)
- Lecture 55 - Production Quantity Model
- Lecture 56 - Just In time (JIT)
- Lecture 57 - Kanban System
- Lecture 58 - Materials Requirement Planning (MRP) - I
- Lecture 59 - Materials Requirement Planning (MRP) - II
- Lecture 60 - Enterprise Resource Planning (ERP)