

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

NPTEL Video Course - Management - NOC:Production and Operation Management (Prof. Rajat Agarwal)

Subject Co-ordinator - Prof. Rajat Agarwal

Co-ordinating Institute - IIT - Roorkee

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

Lecture 1 - Introduction to Production  
Lecture 2 - Global Environment  
Lecture 3 - Operations and Productivity  
Lecture 4 - Types and Characteristics of Manufacturing Systems  
Lecture 5 - Types and Characteristics of Services Systems  
Lecture 6 - Product Design  
Lecture 7 - Introduction To Forecasting  
Lecture 8 - Time Series Forecasting  
Lecture 9 - Time Series Forecasting - Exponential Smoothing - I (Brief)  
Lecture 10 - Time Series Forecasting - Exponential Smoothing - II (Classification)  
Lecture 11 - Time Series Forecasting - Working Example Of Exponential Smoothing - I  
Lecture 12 - Time Series Forecasting - Working Example Of Exponential Smoothing - II  
Lecture 13 - Time Series Forecasting - Working Example Of Exponential Smoothing - III  
Lecture 14 - Forecasting Errors  
Lecture 15 - Causal Or Explanatory Methods  
Lecture 16 - Inventory Planning and control  
Lecture 17 - Basic Inventory Model  
Lecture 18 - Different Variations in Basic EOQ Model  
Lecture 19 - Safety Stock and Fixed Time Inventory Model  
Lecture 20 - Examples of Safety Stock Calculation  
Lecture 21 - Single Period Inventory Model - I (Theory)  
Lecture 22 - Single Period Inventory Model - II (Numerical)  
Lecture 23 - Inventory Control and Management  
Lecture 24 - Material Requirements Planning (MRP)  
Lecture 25 - Improvements in the MRP system  
Lecture 26 - Lot Sizing in MRP Systems  
Lecture 27 - Material Requirements Planning (MRP)  
Lecture 28 - Material Requirements Planning (MRP)  
Lecture 29 - Aggregate Sales and Operations Planning - I (Intermediate and Aggregate Planning)

---

Get Digi-MAT (Digital Media Access Terminal) For High-Speed Video Streaming of NPTEL and Educational Video Courses in LAN

[www.digimat.in](http://www.digimat.in)

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

- Lecture 30 - Aggregate Sales and Operations Planning - II (Demand and Supply Options)
- Lecture 31 - Aggregate planning Techniques - I (Introduction)
- Lecture 32 - Aggregate planning Techniques - II (Examples)
- Lecture 33 - Aggregate planning Techniques - III (Problems)
- Lecture 34 - Production Planning Problems using LP
- Lecture 35 - Nature of Quality and Evolution of Quality Management - I (Product Quality Dimensions)
- Lecture 36 - Nature of Quality and Evolution of Quality Management - II (Service Quality Dimensions)
- Lecture 37 - Modern Quality Management and Total Quality Management
- Lecture 38 - Total Quality Management
- Lecture 39 - Statistical Concepts in Quality Control - I (Overview of Control Charts)
- Lecture 40 - Statistical Concepts in Quality Control - II (p-chart and Examples)
- Lecture 41 - Statistical Concepts in Quality Control - III (c-chart and Examples)
- Lecture 42 - Statistical Concepts in Quality Control - IV (Run Test and Examples)
- Lecture 43 - 7 QC Tools
- Lecture 44 - Acceptance Sampling
- Lecture 45 - Process Capability
- Lecture 46 - Six Sigma
- Lecture 47 - Some Current Issues In Quality Management
- Lecture 48 - Facility Layout - I (Introduction)
- Lecture 49 - Facility Layout - II (Group Technology and other layouts)
- Lecture 50 - Facility Layout - III (Layout design and Precedence diagram)
- Lecture 51 - Introduction to Project Management
- Lecture 52 - PERT and CPM
- Lecture 53 - PERT and Crashing
- Lecture 54 - Maintenance Management
- Lecture 55 - Maintenance Performance Measures and OEE calculations
- Lecture 56 - Manufacturing Operations Scheduling - I (Scheduling and Gantt Charts)
- Lecture 57 - Manufacturing Operations Scheduling - II (Order Sequencing)
- Lecture 58 - JIT and Lean Operations
- Lecture 59 - Work Method Analysis, Work Measurement and Learning Curve
- Lecture 60 - Some Latest and Future Issues