

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

NPTEL Video Course - Management - NOC:Supply Chain Analytics

Subject Co-ordinator - Prof. Rajat Agrawal

Co-ordinating Institute - IIT - Roorkee

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

- Lecture 1 - Introduction to Supply Chain Management
- Lecture 2 - Evolution of Supply Chain Management
- Lecture 3 - Analytics in Supply Chain Management
- Lecture 4 - Supply Chain Planning
- Lecture 5 - Different views of Supply Chain
- Lecture 6 - Supply Chain Strategy
- Lecture 7 - Supply Chain Drivers
- Lecture 8 - Developing Supply Chain Strategy
- Lecture 9 - Strategic Fit in Supply Chain
- Lecture 10 - Demand Forecasting in Supply Chain
- Lecture 11 - Bullwhip Effect and Time Series Analysis
- Lecture 12 - Exponential Smoothing Method of Forecasting
- Lecture 13 - Measures of Forecasting Errors
- Lecture 14 - Tracking Signal and Seasonality Models
- Lecture 15 - Forecasting using multiple characteristics in Demand Data and Inventory Management in Supply Chain
- Lecture 16 - Inventory Management in Supply Chain
- Lecture 17 - Multi echelon Inventory Management
- Lecture 18 - Multi echelon Inventory Management (Continued...)
- Lecture 19 - Multi echelon Inventory Management for four stations
- Lecture 20 - Multi echelon Inventory Management for four stations (Numerical Example)
- Lecture 21 - Multi echelon Inventory Management for four stations (Numerical Example) (Continued...)
- Lecture 22 - Network Design in Supply Chain
- Lecture 23 - Network Design of Global Supply Chain
- Lecture 24 - Alternative channels of Distribution
- Lecture 25 - Location Decisions in Supply Chain
- Lecture 26 - Network Optimization Models
- Lecture 27 - Using Excel Solver for Network Optimization
- Lecture 28 - Uncertainty in Network Design
- Lecture 29 - Network Design in Uncertain Environment and Flexibility

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- Lecture 30 - Flexibility in Supply Chain
- Lecture 31 - Optimal Level of Product Availability in Supply chain
- Lecture 32 - Time Value of money in Supply Chain
- Lecture 33 - Different types of Analytics in Supply Chain
- Lecture 34 - Predictive Modelling in Forecasting in Supply Chain
- Lecture 35 - Representation on Uncertainty in Supply Chain
- Lecture 36 - Using Decision Tree for handling Uncertainty
- Lecture 37 - Example of using Decision Tree incorporating Uncertainty in Single Factor
- Lecture 38 - Example of using Decision Tree incorporating Uncertainty in two Key Factors
- Lecture 39 - Modelling Flexibility in Supply Chain
- Lecture 40 - Trends, Challenges and Future of Supply Chain