

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

NPTEL Video Course - Management - NOC:Decision Making with Spreadsheet

Subject Co-ordinator - Prof. Ramesh Anbanandam

Co-ordinating Institute - IIT - Roorkee

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

- Lecture 1 - Introduction
- Lecture 2 - Cost, Revenue, and Profit Models, Break Even Analysis
- Lecture 3 - Linear Programming Problem: Formulation and Assumptions
- Lecture 4 - Linear Programming Problem: Graphical Solution Method
- Lecture 5 - Graphical Calculator and Excel Solver for solving LPP
- Lecture 6 - Sensitivity Analysis - 1
- Lecture 7 - Sensitivity Analysis - 2
- Lecture 8 - Sensitivity Analysis - 3
- Lecture 9 - LPP Applications in Marketing
- Lecture 10 - LPP Applications in Finance
- Lecture 11 - LPP Applications in Operations - 1
- Lecture 12 - LPP Applications in Operations - 2
- Lecture 13 - LPP Applications in Operations - 3
- Lecture 14 - Advanced LP Applications - Data Envelopment Analysis
- Lecture 15 - Game Theory - 1
- Lecture 16 - Game Theory - 2
- Lecture 17 - Portfolio Management
- Lecture 18 - Revenue Management
- Lecture 19 - Distribution and Network Problems: Transportation Problem
- Lecture 20 - Assignment and Shortest Path Problem
- Lecture 21 - Maximal Flow, Production and Inventory Application, Scheduling and Assignment Problems
- Lecture 22 - Integer Linear Programming
- Lecture 23 - Integer Programming Distribution Problem
- Lecture 24 - Nonlinear Optimization Models - I
- Lecture 25 - Nonlinear Optimization Models - II
- Lecture 26 - Nonlinear Optimization Models - III
- Lecture 27 - Nonlinear Optimization Models - IV
- Lecture 28 - Nonlinear Optimization Models - V
- Lecture 29 - Project Scheduling: PERT/CPM - I

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- Lecture 30 - Project Scheduling: PERT/CPM - II
- Lecture 31 - Project Scheduling For Uncertain Activity Duration: PERT/CPM - III
- Lecture 32 - Project Scheduling: PERT/CPM - IV
- Lecture 33 - Inventory Models: Economic Order Quantity (EOQ) Model - I
- Lecture 34 - Inventory Models: Economic Order Quantity (EOQ) Model - Iâ I
- Lecture 35 - Economic Production Lot Size Model
- Lecture 36 - Inventory Model with Planned Shortages
- Lecture 37 - Inventory Model - III
- Lecture 38 - Single-period Inventory model with Probabilistic demand
- Lecture 39 - Multi-period Order-Quantity, Reorder Point Model with Probabilistic Demand
- Lecture 40 - Periodic Review Model (P-type) with Probabilistic Demand
- Lecture 41 - Financial risks associated with the development of a new product - I
- Lecture 42 - Financial risks associated with the development of a new product - II
- Lecture 43 - Inventory Simulation
- Lecture 44 - Simulation - III
- Lecture 45 - Simulation - IV
- Lecture 46 - Decision Analysis - I
- Lecture 47 - Decision Analysis - II
- Lecture 48 - Decision Analysis - III
- Lecture 49 - Decision Analysis - IV
- Lecture 50 - Decision Analysis - V
- Lecture 51 - Formulation Of Goal Programming - I
- Lecture 52 - Formulation Of Goal Programming - II
- Lecture 53 - Multicriteria Decisions - I
- Lecture 54 - Multicriteria Decisions - II
- Lecture 55 - Multicriteria Decisions - III
- Lecture 56 - Time Series Analysis and Forecasting - I
- Lecture 57 - Time Series Analysis and Forecasting - II
- Lecture 58 - Time Series Analysis and Forecasting - III
- Lecture 59 - Time Series Analysis and Forecasting - IV
- Lecture 60 - Time Series Analysis and Forecasting - V