Project and Production Management - Video course

PROJECT MANAGEMENT (16 lectures)
AN OVERVIEW (1 lecture)
1. Project Management: An Overview
PROJECT SELECTION (4 lectures)
2. Project Identification and Screening
3. Project Appraisal: Part I
4. Project Appraisal: Part II
5. Project Selection
PROJECT PLANNING (8 lectures)
Development of Project Network (2 lectures)
6. Project Representation
7. Consistency and Redundancy in Project Networks
Project Scheduling (3 lectures)
8. Basic Scheduling with A-O-A Networks
9. Basic Scheduling with A-O-N Networks
10. Project Scheduling with Probabilistic Activity Times
Time / Cost Tradeoffs in Projects (1 lecture)
11. Linear Time-Cost Tradeoffs in Projects: A Heuristic Approach
Resource Considerations in Projects (2 lectures)
12. Resource Profiles and leveling
13. Limited Resource Allocation
PROJECT IMPLEMENTATION (2 lectures)
14. Project Monitoring and Control with PERT / Cost
15. Team Building and Leadership in Projects
PROJECT COMPLETION (1 lecture)
16. Project Completion, Review and Future Directions

PRODUCTION MANAGEMENT (24 lectures)
INTRODUCTORY (2 lectures)
1. Introduction to Production Systems and a Generalized Model of Production
2. Life cycle of a Production System and Major managerial Decisions
FINANCIAL EVALUATION OF PRODUCTION RELATED DECISIONS (4 lectures)
3. Performance Measures of a Production System
5. Decision Trees and evaluation of risk
DESIGNING PRODUCTS & SERVICES (3 lectures)
6. Introducing New Products and Services (2 lectures)
7. Product Mix Decisions
FACILITY LOCATION AND LAYOUT (6 lectures)
8. Plant Location (2 Lectures)
9. Process Layouts
10. Product Layouts and Assembly Line Balancing
11. Cellular Layouts
12. Layouts for Advanced Manufacturing Systems
PRODUCTION PLANNING OVER MEDIUM TERM HORIZON (5 lectures)
13. Demand Forecasting (3 lectures)
14. Aggregate Production Planning (2 lectures)
OPERATIONAL DECISIONS OVER THE SHORT TERM (4 lectures)
15. Inventory related Decisions (2 lectures)
16. Material Requirements Planning
17. Scheduling of Job Shops
Total Number of Video Lectures = 40
The Web Based support Material will be based on the above modular design including
- Examples
- Clarification of Concepts
- Problems with and without solutions
- Quizzes with answers etc.