

Course Components of Management

MS-51 : Operations Research

- I Introduction to Operation Research**
 - 1 Operation Research—An Overview
 - 2 Review of Probability and Statistics
- II Programming Techniques — Linear Programming and Applications**
 - 3 Linear Programming-Graphical Method
 - 4 Linear Programming-Simplex Method
 - 5 Transportation Problem
 - 6 Assignment Problem
- III Programming Techniques — Further Applications**
 - 7 Goal Programming
 - 8 Integer Programming
 - 9 Dynamic Programming
 - 10 Non-Linear Programming
- IV Inventory and Waiting Line Models**
 - 11 Inventory Control-Deterministic Models
 - 12 Inventory Control-Probabilistic Models
 - 13 Queueing Models
- V Game Theory and Simulation**
 - 14 Corporative Situations: Game Theory
 - 15 Simulation
- VI Case Studies**

MS-52: Project Management

- I Project Formation and Appraisal**
 - 1 Project Management-An Overview
 - 2 Feasibility & Technical Analysis
 - 3 Market and Demand Analysis
 - 4 Economic and Financial Analysis
 - 5 Formulation of Detailed Project Reports
- II Project Planning and Scheduling**
 - 6 Planning Time Scales — Network Analysis
 - 7 Material and Equipment
 - 8 Human Resource
 - 9 Project Costing and Financing
 - 10 Project Organisation
- III Implementation and Control**
 - 11 Project Management Information System
 - 12 Material and Equipment
 - 13 Human Resource
 - 14 Financial Aspects
- IV Project Completion and Evaluation**
 - 15 Integrated Project Management Control System
 - 16 Managing Transition from Project to Operations
 - 17 Project Review

MS-53: Production/Operations Management

- I Issues in Production/Operations Management**
 - 1 Production/Operations Management—An Overview
 - 2 Production System: Issues & Environment
 - 3 Total Quality Management (TQM)
- II Forecasting**
 - 4 Need & Importance of Forecasting
 - 5 Qualitative Methods of Forecasting
 - 6 Quantitative Methods of Forecasting
- III Production System Design**
 - 7 Capacity Planning

- 8 Facilities Planning
- 9 Work System Design
- 10 Managing Information for Production System

IV Production Planning & Scheduling

- 11 Aggregate Production Planning
- 12 Just-In-Time (JIT)
- 13 Scheduling & Sequencing

V Materials Planning

- 14 Issues in Materials Management
- 15 Independent Demand System
- 16 Dependent Demand System

VI Emerging Issues in Planning/Operations Management

- 17 Total Productive Maintenance
- 18 Advanced Manufacturing System
- 19 Computers in Planning/Operations Management

MS-54: Management Information System

I Information for Decision Making

- 1 Decision Making
- 2 Conceptual Foundations of Information Systems
- 3 Information Resources Management

II System Development

- 4 Overview of Systems Analysis & Design
- 5 System Development Life Cycle
- 6 Designing On Line & Distributed Environments-Design Consideration
- 7 Implementation and Control of Projects

III Computer Networks & Data Communications

- 8 Trends in Information Technology-Hardware, Software
- 9 Data Communication Concepts
- 10 Computer Networks

IV Managing Corporate Data Resources

- 11 Organising Data
- 12 Relational Data Base Management Systems
- 13 Query Languages Including DSS
- 14 Applications and Illustrations

V Socio-legal Aspects of Computerisation

- 15 Social Dimensions of Computerisation
- 16 Computer Viruses
- 17 Legal Dimensions of Computerisation

VI Case Studies

- 1 A Case Study on Computer Applications
- 2 Aspects of Information Technology and Policy Making and the Caribbean Community
- 3 Computerisation at IFFCO