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 (TOM)

II Forecasting
4 Need & Importance of Forecasting
5 Qualitative Methods of Forecasting
6 Quantitative Methods of Forecasting

III Production System Design
7 Capacity Planning

IV Production Planning & Scheduling
8 Facilities Planning
9 Work System Design
10 Managing Information for Production System

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

VI Emerging Issues in Planning/Operations Management
14 Issues in Materials Management
15 Independent Demand System
16 Dependent Demand System

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