

# Course Components of Management

## MS-55: Logistics and Supply Chain Management

- I **Logistics and SCM - An Overview**
  - 1 Logistics and SCM - An Introduction
  - 2 Principles of SCM
  - 3 Customer Focus in SCM
- II **Design and Management of SCM**
  - 4 Logistics - Inbound and outbound
  - 5 Models of SCM Integration
  - 6 Strategic Supply Chain Management
  - 7 Organising for Global Markets
- III **IT Enabled SCM**
  - 8 Information Technology: A Key Enabler of SCM
  - 9 Intelligence Information System
  - 10 IT Packages in SCM
- IV **Cost and Performance Measurement in SCM**
  - 11 Cost Analysis and Measurement
  - 12 Best Practices and Benchmarking for SCM
  - 13 Performance Measurement and Evaluation of SCM
- V **Distribution Network Planning**
  - 14 Transportation Mix
  - 15 Locational Strategy
  - 16 Logistics and SCM Environment
- VI **Emerging Trends**
  - 17 Future Trends and Issues
  - 18 Design for SCM and Greening the Supply Chain
  - 19 SCM in Service Organisation/Non-Manufacturing Sector

## MS-56: Materials Management

- I **Material Management: An Overview**
  - 1 Materials Flow Systems
  - 2 Strategic Role of Materials Management
  - 3 Linkage with other Functional Areas of Management
- II **Sourcing of Materials**
  - 4 Issues and Overview
  - 5 Domestic vs International Purchase
  - 6 Vendor Network
  - 7 Buyers-Sellers Relationship
- Materials Planning and Control**
  - 8 Materials Planning and Budgeting
  - 9 Pull vs Push System
- Inventory Policies and Systems**
  - 10 Inventory Systems and Modelling
  - 11 Process Inventory
  - 12 Spare Parts Management
  - 13 Stores Accounting
- Warehousing**
  - 14 Codification and Standardisation of the Materials
  - 15 Location and Structure of Warehouse
  - 16 Incoming Material Receipts
  - 17 Retrieval and Transaction Processing System
  - 18 Security and Loss Prevention
- Organization and Appraisal of Materials Management**
  - 19 Materials Management and its Organisation
  - 20 Materials Information System
  - 21 Control of Material Management and Performance Appraisal

## MS-57: Maintenance Management

- I **Maintenance Overview and Management System**
  - 1 Maintenance Management and Terotechnology: An Overview
  - 2 Maintenance Objectives and Strategies
  - 3 Preparation of Maintenance Planning and Scheduling
  - 4 Planned Maintenance Management System and Control
- II **Maintenance Resource Management and Costing**
  - 5 Maintenance Organisation
  - 6 Maintenance Costing and Budgeting
  - 7 Spare Parts Inventory Management
  - 8 IT enabled Maintenance Management
- III **Key Issues in Maintenance Management**
  - 9 Reliability, Availability and Maintainability Concepts
  - 10 Safety and Environmental Aspects in Maintenance Management
  - 11 Human Resource Development in Maintenance Management
  - 12 TQM and Maintenance Management
- IV **Analytical Methods in Maintenance Management**
  - 13 Failure Statistics, Data Analysis and Methods of Qualitative Analysis
  - 14 Economics of Repair and Replacement of Equipment
  - 15 Planning and Scheduling of Plant and Overhauling Shutdown
- V **Trends in Maintenance Management**
  - 16 Condition Based Maintenance (CBM)
  - 17 Reliability Centered Maintenance (RCM)
  - 18 Total Productive Maintenance (TPM)
  - 19 Maintenance Audit

## MS-58 : Management of R & D and Innovation

- I **Technological Innovations and Creativity**
  - 1 Nature, Process and Importance of Technological Innovation
  - 2 R & D and Economic Development
  - 3 Product Design, Marketing and Consumer Innovation and Creativity
  - 4 Innovation and Creativity
- II **Strategic Considerations**
  - 5 R & D as a Corporate Function
  - 6 R & D Resources
  - 7 Partnerships in Innovation
- III **Organisation for R & D and Innovation**
  - 8 HRM Issues in Innovation and R & D
  - 9 Leadership and R & D Management
  - 10 Organisation Design and Structure for R & D
  - 11 R & D Project Management
  - 12 Measurement, Evaluation and Assessment of R & D
- IV **Micro Considerations**
  - 13 National R & D Infrastructure and Institutional Framework
  - 14 Fiscal and other Incentives and Promotional/Support Measures
  - 15 Industry, Institutions and Government Cooperation

V	Other Important Issues in R & D Management
16	Commercialisation of R & D
17	Management of Intellectual Property Rights
18	Financing of R & D Projects
19	Role of Consultants in R & D