

Cheminformatic Institute of Science Studies Lucknow

Diploma Program in Material Management (DPMM)

Program Curriculum

Module 1 : Operations Management

1. Operations Management Concepts
2. Operations Decision-Making
3. Systems Design And Capacity
4. Facility Location And Layout
5. Forecasting Demand
6. Product Development And Design
7. Materials Management

Module 2: Inventory Management

1. Deterministic Inventory Models
2. The Wilson Model With Poisson Demand
3. Stochastic Single Period Models
4. Stochastic Models With Continuous Review
5. Stochastic Models With Periodic Review
6. Numerical Methods

Module 3: Material & Store Management

1. Introduction
2. Earnest Money And Security Deposit
3. Delivery Date In Contracts, Progressing of Supplies, Review Of Performance & Inspection Of Stores
4. Receipts Of Consignments At The Factories
5. Settlement of disputes/claims arising out of the contracts through arbitration/court-procedure
6. Annexure-B- Bank Guarantee Format for furnishing EMD
7. Standard Format of supply Order
8. Inventory Analysis
9. Materials Handling & Preservation
10. Stock Verification

Module 4: Legal Aspects of Supply Chain Management

1. Supply Chain Optimization
2. Integrating Lean, Agile, Resilience and Green Paradigms in Supply Chain Management (LARG_SCM)
3. A Hybrid Fuzzy Approach to Bullwhip Effect in Supply Chain Networks
4. Managing and Controlling Public Sector Supply Chains
5. Supply Chain Management Based on Modeling & Simulation: State of the Art and Application Examples in Inventory and Warehouse Management
6. Supply Chain Process Benchmarking Using a Self-Assessment Maturity Grid
7. Supply Chain Resilience Using the Mapping Approach
8. Capacity Collaboration in Semiconductor Supply Chain with Failure Risk and Long-term Profit

Module 5 : Enterprise Resource Planning

1. Business Functions and Business Processes
2. The Development of Enterprise Resource Planning Systems
3. Marketing Information Systems and the Sales Order Process
4. Production and Supply Chain Management Information Systems
5. Accounting in ERP Systems
6. Human Resources Processes with ERP
7. Process Modeling, Process Improvement, and ERP Implementation
8. RFID, Business Intelligence (BI), Mobile Computing, and the Cloud

Module 6: Just-in Time and Lean

1. Introduction
2. Jit Philosophy
3. Value-Added Analysis
4. Understanding Waste
5. Jit And Quality
6. Uniform Plant Load
7. Setup Time Reduction
8. Cellular Manufacturing
9. Pull Systems
10. Jit Purchasing
11. Jit In Conjunction With Manufacturing Resource Planning
12. Implementing JIT