CP-206: PRODUCTION AND OPERATIONS MANAGEMENT

Objectives

The Course is designed to acquaint the students with decision making in: Planning, scheduling and control of Production and Operation functions in both manufacturing and services; Productivity improvement in operations through layout engineering and quality management etc.; Effective and efficient flow, replenishment and control of materials with reference to both manufacturing and services organisations.

Course Contents

- 1. Nature and Scope of Production and Operations Management Decisions, Types of Manufacturing Systems,
- Production Planning and Control : An Overview Facilities Location, Facilities Layout.(a) Aggregate Planning - MRP, (b) Scheduling (c) Line Balancing, Capacity Planning ;
- 3. (a) Work Study Methods Study, Work Measurement, Maintenance Management, Industrial Safety, Supply Chain Management, enabled supply chain management chain management models.
- 4. Material Management : An Overview Material Handling, Equipment, Line Balancing Problems, Operation Decision, MRP and Budgeting, Purchasing and Store Management, Inventory Control.
- 5. Concept of Quality and Quality Assurance, Statistical Process Control (Acceptance Samplings), ISO, 9000, Total Quality Management (TQM), Six Sigma.

Suggested Readings

- 1. Adam, E E & Ebert, RJ. Production and Operations Management. 6th ed., New Delhi, Prentice Hall of India, 1995.
- 2. Amrine Harold T. etc. Manufacturing Organisation and Management. Englewood Cliffs, New Jersey, Prentice Hall Inc., 1993.
- 3. Buffa, E S. Modem Production Management. New York, John Wiley, 1987.
- 4. Chary, S.N. Production and Operations Management. New Delhi, Tata McGraw Hill, 1989.
- 5. Dobler, Donald W and Lee, Lamar. Purchasing and Materials Management. New York, McGraw Hill, 1984.
- 6. Dilworth, James B. Operations Management: Design, Planning and Control for Manufacturing & Services. Singapore, McGraw Hill, 1992.
- 7. Moore, FG and Hendrick, T E. Productionl Operations Management. Homewood, Illinois, Richard D. Irwin, 1992.