

Syllabus of B.B.A., LL.B. (Hons.) 2022-23 Batch

COURSE-4.3 Production and Operations Management

Objectives:

To understand a systems view of operations. To provide conversion capabilities for meeting the organization's goals and strategies and to understand the conversion of inputs into outputs with various technology.

UNIT –I Introduction to Production and Operations Management (POM):

Meaning of production management and operations management, decision making in production: strategic, operations and control decisions, difference between production management and operation management; Factors affecting POM production as a system and types of production systems characteristics of modern production and operations function.

UNIT –II Plant Location and Layout

Nature, Location theories, Steps in location, errors in selection, relative importance of location factors, Nature of layout, Objectives of good layout, factors influencing layout, principals of layout, types of layout, special arrangement for particular types of plants, importance of layout.

UNIT –III Product Design and Process Design

Product design and process selection for manufacturing operations and service operations, waiting line management, quality management, statistical quality control methods, scope of process design, factors affecting process design, types of process design and process technology.

Facilities planning

Location decision- need for/importance of location selection, factors influencing location decision selection, location selection process, Locational models: problems on factors & point rating methods, load distance model & Break Even analysis.

UNIT –IV Materials Management

Nature, scope, importance of Materials Management, nature of Material Requirements Planning (MRP) system, terms used in MRP; issues in MRP; potential benefits from MRP; implementation of MRP and Evaluation of MRP. Inventory Management and Enterprise Resource Planning (ERP).

UNIT –V Technology Management:

Advanced Manufacturing Technology, Automation and Robotics, Managing Technological change, Applications of Information Technology in POM, Maintenance Management and Total Productive Maintenance. An introduction to TQM.

Prescribed Books:

1. Production and operations management by K. Ashwathappa and K Shridhar Bhat.
2. Modern production and operations management by Elwood S. Buffa.
3. Production and operations management by Everette E. Adam., Jr. Ronald and J.Ebert.