

Course Code: 11BB22CD

Course Title: PRODUCTION AND SERVICE OPERATIONS MANAGEMENT

Objective:

1. To gain an understanding of the Production and Operations function for manufacturing and service organizations.
2. To understand the importance of materials functions in the overall manufacturing environment and learn to use the tools and techniques for materials planning & control

Detailed Curriculum:

Unit I: Introduction to Production management, nature and scope of production management, production function, forecasting.

Unit II: Product design, process design, production planning and control-aggregate planning, shop floor planning.

Unit III: Plant location-factors influencing facility location, location models; plant layout-types of plant layouts, factors influencing Layout decisions, materials handling-materials handling equipment.

Unit IV: Quality control-SQC, control charts, acceptance sampling; methods engineering; plant maintenance-types of plant maintenance.

Unit V: Materials management: materials planning, purchasing, purchasing policies, storage, internal organization, Inventory management: Costs associated with inventory, EOQ models.

Recommended Text Book(s):

1. Norman Gaither and Greg Frazier, (2008) Operations Management: Ninth International Student Edition, South-Western, Thomson Learning Inc.

Recommended Reference Books:

1. EVERETT E. ADAM Jr. and RONALD J. EBERT, Production and Operations Management: Concepts, Models and Behaviour, 5th Edition 2009
 2. S N Chary, Production and Operation Management, Tata McGraw-Hill Company, New Delhi.
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