

I.K.G. Punjab Technical University
BBA Batch 2018
BBA- 304 Production and Operations Management

Course objective: The course aims at developing knowledge about various steps of product, design, development, plant location, storage, production planning and control.

Course Outcomes (COs): After completion of the course, the students shall be able to:

CO1: Understand ever growing importance of Production and Operations management in uncertain business environment.

CO2: Gain an in-depth understanding of resource utilization of an organization.

CO3: Appreciate the unique challenges faced by firms in services and manufacturing.

CO4: Understand the subject as a crucial part of functional management.

CO5: Develop skills to operate competitively in the current business scenario.

UNIT I

Operations management: Concept, Functions. Product Design and development – Product design and its characteristics: Product development process (Technical): Product development techniques .Process selection- Project, job, Batch, Mass and Process types of Production Systems.

UNIT - II

Facility Location – importance, Factors in Location Analysis: Location Analysis Techniques.

Facility Layout – Objectives: Advantages: Basic types of layouts. Capacity Planning – Concepts: Factors Affecting Capacity Planning, Capacity Planning Decisions. Production Planning & Control (PPC) –Concepts, Objectives, Functions.

UNIT – III

Introduction to modern productivity techniques – just in time, Kanban system. Total Quality Management & six sigma.

Functions of Purchasing Management – Objectives, Functions: Methods: Procedure. Value analysis – Concepts. Stock control systems. Virtual factory concept.

UNIT – IV

Inventory Management – Concepts, Classification: Objectives: Factors Affecting Inventory Control Policy: Inventory costs: Basic EOQ Model: Re-order Level: ABC Analysis. Quality Management - Quality Concepts, Difference between Inspections, Quality Control, Quality Assurances, Total Quality Management: Control Charts: acceptance sampling.

Suggested Readings:

1. Nair, Production & Operations management, 1st Edition, Tata McGraw Hill
2. Adam and Eben, Production & Operations management, 5th Edition, Prentice Hall, India.
3. Krajewski & Ritzman, Operations Management, 5th Edition, Pearson Education.
4. Buffa & Sarin, Modern Production/Operations Management, 8th Edition, John Wiley
5. Chary, Production & Operations Management, 2nd Edition, Tata McGraw