

Subject Code: 1MS3010304	Subject Title: Production and Operations Management
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1. Course Overview

The purpose of the course is to introduce the students to the production and operations management function and stress its importance to the organization in the context of the increasingly competitive situation and new advancements in operations management practices.

2. Course Objectives

- To provide an introduction to the functional area of production and operations management as practiced in manufacturing industries and the services sector.
- To understand the strategic role of Production and operations management in creating and enhancing a firm's competitive advantages.
- To understand key concepts and issues of Production and Operations Management in both manufacturing and service organizations.
- Apply analytical skills and problem-solving tools to the analysis of the Production and operations problems.

3. Teaching Scheme (Hours per week)

Lecture (Hrs.)	Tutorial	Practical	Credit			Total
				University Total Assessment	Continuous Assessment	
4	0	0	4	60	40	100

4. Syllabus:

Module No.	Contents	Total Hours	Weight
1	Introduction to Production, System Concept of production, Concept of Productivity, Types of Production System	9	20
2	Introduction to Product Design, New Product Development	9	20

	Concepts, Steps in Product Design, Make or buy Decision		
3	Facility Location Decision, Single Facility Location Problem, Gravity Location Problem (Examples), Concept of Plant Layout, Classification of Layout	9	20
4	Quality Control, Need of Quality Control, Classification of Quality Control Techniques, Process Capability, Control Charts, Six Sigma	9	20
5	Modern Production Management Tools, Just in Time Manufacturing, Total Quality Management, Kaizen, Lean Manufacturing, ISO	9	20

5. Suggested Readings

Text Books

Author /s	Publication	Title
R. Panneerselvam	PHI Learning	Productions and Operations Management

Reference Books

Author /s	Publication	Title
Aswathappa K, Shridhara Bhat K	Himalaya Publishing House	Productions and Operations Management
Chase R. B., Jacobs, F. R., Aquilano, N. J. and Agarwal N.K	Tata McGraw Hill	Operations Management for Competitive advantage
Kanishka Bedi	Oxford University Press	Production and Operations Management

6. Evaluation Scheme

Sr. No.	Component	Weight
1	University Examination * For the written examination, the open book examination may be opted by the paper setter appropriately	60%

2	Internal Assessment -Depending on the need and objectives of the subject, internal assessment should include minimum three of the following sub-components; <i>Class Test, Quiz, Assignments, Case Presentation, Class Participation, Projects, Team/Individual Assignments.</i> -The weightage of a sub-component should not exceed 50% of internal assessment component weight. -The bifurcation of sub-components shall be communicated by the instructor before commencement of the academic sessions.	40%
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