

#### SARDAR PATEL UNIVERSITY

Vallabh Vidyanagar, Gujarat

(Reaccredited with 'A' Grade by NAAC (CGPA 3.25) Syllabus with effect from the Academic Year 2021-2022

# M.B.A. Semester II PM02CMBA55: PRODUCTION AND OPERATIONS MANAGEMENT

<b>Course Code</b>	PM02CMBA55	Title of the Course	PRODUCTION AND OPERATIONS MANAGEMENT
Total Credits of the Course	04	Hours per Week	04

Course Objectives:	<ul> <li>To understand key concepts and issues of POM in both manufacturing and service organizations.</li> <li>To understand and appreciate the principles and applications relevant to the planning, design, and operations of manufacturing/service firms.</li> <li>To appreciate the strategic role of POM in creating and enhancing a firm's competitive advantages.</li> <li>To explain the various parts of the operations, production management processes and their interaction with other business functions (strategy, engineering, finance, marketing and HRM)</li> </ul>

Cours	Course Content: 30 sessions		
Unit	Description	Weightage (%)	
1.	Nature and Scope of Production and Operations Management; Facility Location; Types of Manufacturing Systems & Layouts; Layout Planning and Analysis; Material Handling —Principles-Equipment, Line Balancing—Problems.	25	
2.	Operations decisions-Production Planning and Control-In Mass Production-in Batch/Job Order manufacturing; Capacity Planning- Models; Process Planning-Aggregate Planning—Scheduling, Maintenance Management Concepts,	25	
3.	Work-Study, Method Study, Work Measurement, Work Sampling, Work Environment-Industrial Safety; Material Management: An Overview of Material Management, Material Planning and Inventory Control; JIT; Materials Planning Budgeting.		
4.	Material Requirement Planning; Purchase management; Stores Management; Quality Assurance – Acceptance Sampling, Statistical Process Control, Total Quality Management; ISO-9001; Six Sigma, Lean manufacturing, Maintenance Management; Safety Management.	25	



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Teaching-	Class session, Assignments, Presentations, Discussion, Quiz, and projects
Learning	
Methodology	

Evaluation Pattern		
Sr. No.	Details of the Evaluation	Weightage
1.	Internal Written / Practical Examination	30%
2.	Internal Continuous Assessment in the form of Practical, Viva-voce, Quizzes, Seminars, Assignments, Attendance	30%
3.	University Examination	40%

Course Outcomes: Having completed this course, the learner will be able to	
1.	Analyse business processes in services/manufacturing for improvement.
2.	Identify the operational issues in the value addition processes of a firm.
3.	Apply analytical skills and problem-solving tools to resolve operational issues.
4.	Enhance employability.

Suggested References:		
Sr. No.	References	
1.	B. Mahadevan, Operations Management- Theory and Practices Pearson, Latest edition	
2.	Richard B Chase, F Robert Jacobs, Nicholas J Aquilano, & Nitin K Agarwal, Operations Management for Competitive Advantage, Tata McGraw-Hill, Latest edition	
3.	Russell S. Roberta & Taylor, Operations Management, Prentice-Hall, Latest Edition	
4.	Krajewski Lee, Operations Mgt. Process for Value Chains, Prentice-Hall, Latest Edition	



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### **On-line Resources**

NPTEL Course: Production and Operations Management

https://nptel.ac.in/courses/110/107/110107141/

NPTEL Course: Operations and Supply Chain Management

https://nptel.ac.in/courses/110/106/110106045/

Free Journals:

http://www.spuvvn.edu/administration/service\_centres/library/open\_sources/free\_ejournals.php

Digital Library resources from

http://www.spuvvn.edu/administration/service\_centres/library/digital\_library.php