

PROGRAM	Master of Business Administration
SEMESTER	2
COURSE TITLE	Production and Operations Management
COURSE CODE	04MB1204
COURSE CREDITS	3
COURSE DURATION	42 hours (42 Sessions of 60 Minutes each)

COURSE OUTCOMES:

- ❖ Identify a broad survey of the concepts and tools used in operations Management
- ❖ Understand the role of the operations management (OM) function in the performance of an organization
- ❖ Apply the latest concepts and techniques of materials, stores, and purchase management.
- ❖ Classify and analyze various inventory control methods and their applications in the industry.
- ❖ Construct appropriate strategies for sustainable development of organization by applying green practices and Waste management techniques.

COURSE CONTENTS:

Unit No	Unit / Sub Unit	Sessions
I	Introduction: Nature and Scope of Production and Operations Management. Importance of the OM. Differentiating between Goods and Services. Operations Strategy. Classifying the Process (Process Design). Facility Location and Facility Layout. Supply chain Management: Concept, significance in OM, Bullwhip effect.	10
II	Materials Management: Inventory, Types of Inventory Systems, Costs of Inventory, Economic Order Quantity (EOQ) Models – Basic EOQ, Periodic Inventory Systems, Quantity Discount Model, Inventory Classification Systems. ABC, VED, FNS Analysis.	8
III	Production Planning and Control: Introduction to aggregate planning, capacity planning, MRP, ERP, BPR. Functions of PPC, Operations scheduling, Project management: PERT Model, Determination of Critical Path, Distribution of Project Completion time, CPM Model, Time/Cost Relation, Crashing of a Project.	12
IV	Quality Control: Basics of Quality Control, Statistical Quality Control, ISO-9000. Introduction to JIT, Lean Manufacturing, Six Sigma, Kaizen. Total Quality Management, Quality circle and quality control methods.	06
V	Impact of Global Competition, Technological Change, Ethical and Environmental Issues on Operations. Greening the Environment, Waste Management, SOFTWARE related to OM.	06

EVALUATION:

The students will be evaluated on a continuous basis and broadly follow the scheme given below:

	Component	Weightage
A	Continuous Evaluation Component (Assignments / Quizzes / Class Participation etc.)	20% (C.E.C.)
B	Internal Assessment	30% (I.A.)
C	End-Semester Examination	50% (External Assessment)

SUGGESTED BOOKS
Text Books:

Sr. No	Author/s	Name of the Book	Publisher	Edition & Year
T-01	Chase Richard B, et al	Production and Operations Management: Manufacturing and Services	Tata McGraw-Hill Pub. Co., New Delhi	12 th Edition
T-02	Buffa Elwood S & Sarin Rakesh K	Modern Production / Operations Management	John Wiley & Sons, Singapore	8 th Edition
T-03	Kanishka Bedi	Production and operations Management	Oxford Press	3 rd Edition

Reference Books:

Sr. No	Author/s	Name of the Book	Publisher	Edition & Year
R-01	Russel & Taylor	Operations Management	John Wiley & Sons	6 th edition
R-02	Chary S N	Production & Operations Management	Tata MacGraw-Hill, New Delhi	4 th edition
R-03	Kachru Upendra	Production and Operations Management	Excel Books	1 st edition
R-04	K. Aswathappa and K. Shridhara Bhat	Production and Operations Management	Himalaya Publications	2nd edition
R-05	S. A. Chunawala, Dr. Patel	Production and Operation Management	Himalaya Publications	7 th edition