



**Dr. V. N. Bedekar Institute of Management Studies, Thane**  
**Teaching Learning Plan - MMS**  
**Academic Year: 2020-2021**

Programme: MMS Semester: I

Period: February 2021- May 2021

Course Code: MMS-1-G-C04

Name of the subject: Operations Management

Maximum marks: 100 (60+40)

No. of Sessions: 13 (Total 40 hrs)

Name of the Faculty: Mahesh Bhanushali

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**Program Outcomes (PO)**

1. Nurture leadership skills, team-membership skills and mutual trust.
2. Demonstrate decision-making ability.
3. Ability to develop culture of technology-usage.
4. Inculcate social sensitivity among students.
5. Integrate and apply business knowledge and management techniques for problem-solving/ analytical skills.

**Course Outcomes (CO)**

1. To make Lerner understand basic concepts and principles of operations Management
2. To understand quality aspects SQC and Inventory Principles in operations management
3. Apply different techniques and methods to improve the processes
4. To formulate the MRP, Aggregate planning and interpretate the results for decision making
5. To nurture Critical thinking ability

**Reference Books:**

- 1) Chase, Richard.B.: Operations Management For Competitive Advantage, 2012
- 2) S N Chary: Theory & Problems in Production & Operations Management, Tata McGraw Hill, Edition 4
- 3) Kanishka Bedi: Production & Operations Management, Oxford University Press, 2012
- 4) Chunawalla & Patel : Production and Operations Management, Himalaya Publishing, sixth edition 2006
- 5) B.Mahadevan, Operations Management, Pearson Publication, 2010
- 6) David Simchi-Levi, phillip Kaminsky, Designing and Managing Supply Chain, Tata McGraw-Hill publication, 2013
- 7) Jambh, Operations Management, 2013

**A. Plan:**

<u>Sessio n No.</u>	<u>Pl. Date</u>	<u>Topic</u>	<u>Ref. Study Material</u>	<u>Course Outcomes</u>
<b>1</b>	2nd Feb 2021	Introduction to Operations Management, Concept of Value, Case Example- HUL, Nestle Maggie, Efficiency vs	Chase, Richard.B.: Operations M anagement	Understand the basic concepts and learn how to apply the same



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		Effectiveness, Productivity, Pokayoke, Competitive advantage, Evolution of operations, Theory of constraints, Assembly line, KANBAN, value, JIT, accountability, Goods vs Services, Time and Motion Study Concepts	For Competitive Advantage Question Answers on video Source: <a href="https://www.youtube.com/watch?v=dRSbrXfC6Io">https://www.youtube.com/watch?v=dRSbrXfC6Io</a>	
<b>2</b>	9 <sup>th</sup> February 2021	Mass/Job/Batch/Project/Continuous Production Systems. Concept Introduction of Quality and Quality Dimensions, Facility layout, Types of Layouts Product, Process, Hybrid, Group technology.	S N Chary: Theory & Problems in Production & Operations Management, Tata McGraw Hill, Edition 4 (Pages 29.3-29.9)	To understand different layouts and decision making on which layout to be used for different types of production system. Different advantages and disadvantages of each Layout
<b>3</b>	16 <sup>th</sup> February 2021	Facility location, Location Models such as centre of gravity, factor allocation model, Break Even Analysis, Economical/Taxation factors affecting Location decisions. Excel Examples on each module.	B.Mahadevan, Operations Management, Pearson Publication	To understand different models for facility location, their calculations and decision making on Location selection.
<b>4</b>	23 <sup>rd</sup> February 2021	Introduction to Forecasting & Methods, Process analysis in Industry Introduction to all business processes. Concept of BPR.	B.Mahadevan, Operations Management, Pearson Publication (page 57-60)	Understand the Processes and Their importance. To Learn different methods of forecasting and their applications/suitability
<b>5</b>	2 <sup>nd</sup> March 2021	Inventory Management, EOQ, ABC analysis, Types of Inventories, Types of Inventory costs. Examples/Sums on EOQ/ABC	B.Mahadevan, Operations Management, Pearson Publication (page 57-60)	How to classify the inventory. Application of different classification methods and their use
<b>6</b>	9 <sup>th</sup>	Class Test & Capacity and	Chase,	To formulate



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	March 2021	introduction to aggregate planning, Excel sum of aggregate planning and capacity strategies such as level strategy, outsourcing	Richard.B.: Operations Management For Competitive Advantage	aggregate production plan and to learn decision making from the same.
<b>7</b>	16 <sup>th</sup> March 2021	Basics of MRP. Formulating MRP problem.	B.Mahadevan , Operations Management , Pearson Publication (page 489-500)	To formulate MRP and application of MRP. To learn decision making
<b>8</b>	23 <sup>rd</sup> March 2021	Introduction to Service Operation management	Kanishka Bedi: Production & Operations Management ,Oxford University Press (Pages 35-60)	To make learner understand how operations and process different in case of services over goods. To understand the concepts such as Moments of truth, Service Blueprinting and applications
<b>9</b>	30 <sup>th</sup> March 2021	Work study and method study	Kanishka Bedi: Production & Operations Management ,Oxford University Press (Pages 491-580)	To learn the process of Work Study, Time Study. To understand the decision making and productivity enhancement from the same.
<b>10</b>	6 <sup>th</sup> April 2021	QC and SQC , Definition of Quality, Dimensions of quality, TQM, Juran's Trilogy, Deming's Philosophy	Kanishka Bedi: Production & Operations Management ,Oxford University Press (Pages 559-570)	Understand quality and control methods, understand sources of variation and identify them on charts, process improvement
<b>11</b>	13 <sup>th</sup> April 2021	Sequencing techniques	Kanishka Bedi: Production & Operations Management ,Oxford University Press (Pages 531)	Understand and implement optimal ordering of jobs



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<b>12</b>	20 <sup>th</sup> April 2021	Class Test and ISO systems, Value engineering and analysis, Process of value engineering	Chunawalla & Patel :Production and Operations Management ,	To understand SOP/QMS/ISO Process and applications. Learner should be able to apply value engineering
<b>13</b>	27 <sup>th</sup> April 2021	Introduction to supply chain management	Janat Shah, Supply Chain Management , Pearson Publications (pages 2-10)	To understand basic supply chain and its elements
<b>14</b>	4 <sup>th</sup> May 2021	Current Trends in Supply Chain	SCM Pro Organization manuals/Ma gazines	To make aware about current trends in supply chain

**B. Practical Approach: Other activities**

Sr. No.	Activity Name	Topic Covered	Learning outcomes	Source
1	Case Study and Excel Example	Aggregate Planning and capacity management	Students should be able to take decisions on production planning and Inventory management	Chase, Richard.B.: Operations Ma nagement For Competitive Advantage
2	Online Beer Game	Inventory Management	To learn decision making on how much quantity to order as per the inventory level	Online activity Simulation
3	Activity of Chair in case Physical class starts or else will show video on the same	TQM	Students should be able to understand the importance of sequencing and process	Self
4	Business Quiz / Business News sharing	Economics Times  Article on supply chain and logistics  Quiz on MRP	To understand the decision making in supply chain and basic principles of MRP	<a href="http://highereducation.mheducation.com/sites/0072983906/student_view0/chapter16/multiple_choice_quiz.html">http://highereducation.mheducation.com/sites/0072983906/student_view0/chapter16/multiple_choice_quiz.html</a>
5	Videos / Simulation	Supply chain/Distribution	To understand the basic concepts	<a href="https://www.youtube.com/wat">https://www.youtube.com/wat</a>



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6	Use of Softwares and Labs or online	Inventory Management	To understand the inventory planning systematically	Inventoria software

**A. Innovative Pedagogy adopted:**

1. Real documents from Industry such as PO/Invoice/tender
2. Use of Inventory Software for understanding ERP/Purchase and MRP
3. Use of Microsoft Excel and Data Analysis Tab
4. Various activities such as chair pyramid for TQM understanding

**B. Industrial sector focused through the course:**

1. E-commerce- Flipkartn Amazon
2. Food Processing Industry- R.K Foodland
3. Export Industry- Allana Exporters
4. Pharma Industry- Skites Pharma

**C. Types of job profile available in the sector:**

1. Executive- Supply Chain
2. Production Planning Manager
3. Warehousing Executive
4. Inventory Manager

**D. Skill sets for the given job profiles as learning outcomes of the course:**

1. Learner should be able to formulate APP, MRP. Should be able to demonstrate decision making for capacity management as well as procurement and production Planning
2. Critical and logical thinking

**Gap identified from University Curriculum:**

<b>S. no.</b>	<b>Gap Identified</b>	<b>Action taken to bridge the gap</b>
1	APP AND MRP introduction are considered. Detailed calculation and decision making is not expected	Covered the detailed formulating of APP/MRP and decision making
2	University has not considered types of profiles in industry and relevant skills sets for the same	Covred detailed understanding of different profiles in Industry and topic wise skills sets will be



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explored to the learners

**Prepared by:**  
**Faculty**

**Approved by:**  
**Specialisation Head**

**Date:**

**Date:**

**A. Execution:**

Se ssi on No.	Plann ed Dates as per TLP	Planned Topic/ Contents as per TLP	Cours e Outco mes (Write Numb er)	Actual Date	Actual Topic / Content covered	Numbe r of Student s Present	CR Signature Remark with Deviation (If Any)
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							

**B. Evaluation:**

Component	Details	Marks
Presentations	Mandatory	10
Class Tests	Mandatory (MCQ, Descriptive, etc)	20
Attendance & Active Participation	Mandatory	5
Overall Conduct	Mandatory	5
Final Exam	Mandatory	60



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**Comments / Suggestions / Recommendations:**

**Suggestions (if any) to students on subject related Certificate/Diploma or Add-on program: -**

**Signature of Faculty**

**Signature of Co-ordinator**