



Dr. V. N. Bedekar Institute of Management, Thane
Teaching Plan (MMS/PGDM)
Academic Year (2018-2019)

Programme Name: MMS

Semester: I

Name of the Course: Operations Management

Maximum marks: 100

No. of Sessions: 13

Name of the Faculty: Mr. Mahesh M Bhanushali

Mobile No: 8237102541

Email: mbhanushali@vpmthane.org

Weblink:-

Learning Objectives:

- 1) To make student understand the importance of Operations in businesses**
- 2) To make student basic concepts and principles, evolution of operations Management**
- 3) To understand basic operating principles in product and service industry**
- 4) To develop the decision making skills and analytical techniques in different industry sectors**
- 5) To understand quality aspects, SQC and Inventory Principles in operations management**

Reference Books:

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



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Plan:

| Session No | Topics to be covered | Books referred/ Recommended/ References- Print/Articles/ News/Research papers/ Online database/ Software /Simulations used | Learning outcomes | Evaluation of Students understanding by MCQs, Quiz, Short Test |
|-------------------|--|---|---|--|
| 1 | Introduction to Operations Management, Efficiency vs Effectiveness, Concept of Productivity, Pokayoke, Competitive advantage, Evolution of operations, concept bottle neck, Assembly line, KANBAN, value, JIT, accountability, Goods vs Services, Time and Motion Study Concepts | Chunawalla & Patel : Production and Operations Management, Himalaya Publishing, sixth edition 2006 (Pages 1-22) | Understand the basic concepts and learn how to apply the same | Case let, Automobile manufacturing System, Question Answers on video Source: https://www.youtube.com/watch?v=dRSbrXfC6Io |
| 2 | Mass/Job/Batch/Project/Continuous Production Systems. Concept Introduction of Quality. Facility layout, Types of Layouts | S N Chary: Theory & Problems in Production & Operations Management, Tata McGraw Hill, Edition 4 (Pages 29.3-29.9) | To Understand characteristics of equipment, machines and workflow | Discussions on News article. Source: http://economictimes.ind |



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|---|---|---|--|--|
| | Product, Process, Hybrid, Group technology. | | | iatimes.com/markets/stocks/news/rils-backward-integration-to-boost-petrochemical-margins/articleshow/60201824.cms |
| 3 | 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. | S N Chary: Theory & Problems in Production & Operations Management, Tata McGraw Hill, Edition 4 (Pages 31.1 to 31.16) | To understand Factors affecting the decision making in facility location | Case Study Tata Nano |
| 4 | Process analysis in Industry Introduction to all business processes. Concept of BPR. | B.Mahadevan, Operations Management, Pearson Publication (page 57-60) | Understand the physical processes, importances | Quiz |



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|----|--|---|--|---|
| 5 | 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) | To understand the techniques and tools for calculating EOQ, and importance of inventory management | Examples Sources: B.Mahadevan, Operations Management, Pearson Publication (page 57-60) |
| 6 | Capacity and introduction to aggregate planning, Excel sum of aggregate planning and capacity strategies such as level strategy, outsourcing | Chunawalla & Patel : Production and Operations Management, Himalaya Publishing (Pages 118-127) | Understand capacity utilization, overall production planning and control | Short Test |
| 7 | Basics of MRP. | B.Mahadevan, Operations Management, Pearson Publication (page 489-500) | Understand concept of dependency | Quiz |
| 8 | Introduction to Service Operation management | Kanishka Bedi: Production & Operations Management, Oxford University Press (Pages 35-60) | Understand application of operation to services | Discussions |
| 9 | Work study and method study | Kanishka Bedi: Production & Operations Management, Oxford University Press (Pages 491-580) | Understand measurement of time management | Quiz |
| 10 | QC and SQC , Definition of Quality, Dimensions of quality, TQM, Juran's | Kanishka Bedi: Production & Operations Management, Oxford University Press (Pages 559-570) | Understand quality and control methods, understand sources of | Discussions |



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|----|---|--|---|--------------------------------------|
| | Trilogy, Deming's Philosophy | | variation and identify them on charts, process improvemen | |
| 11 | Sequencing techniques | Kanishka Bedi: Production & Operations Management, Oxford University Press (Pages 531) | Understand and implement optimal ordering of jobs | Examples for practice and evaluation |
| 12 | ISO systems, Value engineering and analysis, Process of value engineering | Chunawalla & Patel : Production and Operations Management, Himalaya Publishing, sixth edition 2006 (Pages 285-340) | Understand global standards, Value, Analysis | Discussions |
| 13 | Introduction to supply chain management | Janat Shah, Supply Chain Management, Pearson Publications (pages 2-10) | Understand basic concept of supply chain | Quiz |

2. Practical Approach : Other activities (Atleast 4 distinct activities)

| Sr. No. | Activity Name | Topic Coverd | Learning outcomes | Source |
|---------|---|---------------------------|---|--|
| 1 | Case Study on IBM Credit Process Modification | <u>Process Management</u> | <u>Importance of Processes</u> | <u>Michel hammer, Business Process Reengineering</u> |
| 2 | Industry Visit | <u>NA</u> | | |
| 3 | Academic Projects | <u>NA</u> | | |
| 4 | Book Review | <u>NA</u> | | |
| 5 | Group Discussion | Facility Location | To understand the principles and factors Affecting Facility | NA |



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| | | | Location | |
|---|---------------------------------------|--|---|---|
| 6 | 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 | http://highered.mheducation.com/sites/0072983906/student_view0/chapter16/multiple_choice_quiz.html |
| 7 | Videos / Simulation | Supply chain/Distribution | To understand the basic concepts | https://www.youtube.com/watch?v=NvSpuQJ2CDw |
| 8 | Use of Softwares and Labs | Inventory Management | To understand the inventory planning systematically | Inventoria software |
| 9 | | | | |

Evaluation:

I) Internal:

| Component | Details | Marks |
|---------------|--|-------|
| Class Test | Class Test Surprise | 20 |
| Presentation | Group Wise Presentations on selected topics | 10 |
| Case Study | | |
| Participation | Interactions and timely completing assignments | 5 |
| Others | Punctuality | 5 |

Signature of Faculty

DR VN BRIMS/REC/ACA/05

Signature of the Co-ordinator



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