



**Dr. V. N. Bedekar Institute of Management, Thane**  
**Teaching Plan (MMS)**  
**Academic Year (2019-2020)**

Programme: MMS - Operations  
 Course Code: MMS-3-OP-C-04

Semester: III

Period: July'19 – Nov'19

Name of the subject: **Manufacturing Resource Planning & Control**

Maximum marks: 100 (60+40)

No. of Sessions: 13 (total 40 hrs)

Name of the Faculty: Sekhar Velagaleti

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Program Outcomes (PO)	Course Outcomes (CO)
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.	1. Apply various tools and techniques for resource Planning & Control in operations 2. Analyse different case studies in Operations Planning & Control for effective performance 3. Design the Optimum operation layouts 4. Understand the application of MRP & ERP systems

**Reference Books:**

1. Operations Management—B. Mahadevan
2. Production Operations Management – Chase and Jacob

**A. Plan:**

Session No.	Pl. Date	Topic	Ref. Study Material	Course Outcomes
1	1-7-19	Overview of Operations Planning & Control, Present Business Environment	Ppt- Self & Ref Book-1	Basic understanding
2	8-7-19	Various Manufacturing Resources, importance of their planning & control	Ppt- Self & Ref Book-1	Basic understanding
3	15-7-19	Functions of Operations Planning & Control	Ppt- Self & Ref Book-1	Basic understanding
4	22-7-19	Hierarchy of Production Planning Overview and linkage to business plans. <b>Internal Test- I</b>	Ppt- Self & Ref Book-1	Basic understanding
5	29-7-19	Concepts of aggregation and APP Master production scheduling (MPS) module (I) Need objectives functions flow of materials in different manufacturing scenarios.	Ppt- Self & Case study, Internet Ref will be given later	Analysis & Application of Tools & Techniques
6	5-8-19	MPS module (II), planning horizon time periods, order management, safety and hedges, effect of changing MPS.	Ppt- Self & Case study, Internet Ref will be given later	Analysis & Application of Tools & Techniques
7	12-8-19	Line Balancing, Quantitative models for layout.	Ppt- Self & Case study	Analysis & Application of Tools & Techniques
8	19-8-19	<b>Internal Test- II</b> Capacity Management: Introduction to capacity, capacity management, 1) Capacity expansion strategies 2) Rough out capacity planning RCCP 3) CRP- Capacity requirement Planning 4) Scheduling strategies 5) Production smoothly policies	Ppt- Self & Case study, Internet Ref will be given later	Analysis & Application of Tools & Techniques
9	26-8-19	MRP systems, Dependent and Independent Demands, Types of BoM Manufacturing Resource planning MRP: Introduction, Roles	Ppt- Self & Case study, Internet Ref	Understanding MRP sys



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		functions frame work of information flow in MRP , Relation of MRP with demand management and capacity management manufacturing calendar.	will be given later	
10	2-9-19	<b>Internal Test- III</b> Transition of MRPI to MRPII closed loop MRP, comparison between MRP1 & MRP II benefits.	Ppt- Self & Case study, Internet Ref will be given later	Understanding MRP sys
11	9-9-19	MRP II, relationship to demand management and capacity management, comparison of MRP I and MRP II	Ppt- Self & Case study, Internet Ref will be given later	Understanding MRP sys
12	16-9-19	ERP systems, need, functions and utility to business, use in decision making ERP – Need, function & utility to business ERP-SAP-PPC modules. Reports, Interpretation variance. Analysis – use in decision making.	Ppt- Self & Case study, Internet Ref will be given later	Understanding ERP sys
13	23-9-19	Presentations		<b>Student Evaluation</b>

**B. Practical Approach: Other activities**

Sr. No.	Activity Name	Topic Covered	Learning outcomes	Source
1	Case study (current affairs, Industry context)	Yes	Analytical Abilities	Internet
2	Academic Projects	Yes	Application	Self generated
3	Group Discussion	Yes	Communication	Literature
4	Role Play			
5	Industry Visit			
6	Business Quiz / Business News sharing			
7	Videos / Simulation	Yes	Awareness	Internet
8	Use of Software and Labs			
9	Any other activity	Presentations		

**C. Innovative pedagogy adopted: Nil**

Interactive sessions and practical oriented (general practice)

**Prepared by:**

**Reviewed by:**

**Approved by:**



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**Faculty**

**Specialisation**

**ADC**

**Date:**

**Date:**

**Date:**

**A. Execution:**

<u>Session No.</u>	<u>Actual Date</u>	<u>Topic Covered</u>	<u>Attendance %</u>	<u>Evaluation Method</u>	<u>Case Study Ref.</u>	<u>Quiz Ref.</u>	<u>CR Sign</u>

**B. Evaluation:**

<b>Component</b>	<b>Details</b>	<b>Marks</b>
Presentations & Viva	Mandatory	5+5
Class Test (3 for MMS )	Mandatory (MCQ, Descriptive, . Etc)	20
Assignments / Others	Mandatory	5
Participation/Attendance	Mandatory	5
Final Exam	Mandatory	60

**C. Student Performance Analysis:**

<u>Avg. Attendance</u>	<u>Avg. Internal Marks</u>	<u>% Failed in Internals</u>	<u>Avg. Final Marks</u>	<u>% Failed in Final</u>	<u>No. of best students &gt; 80%</u>	<u>No. of students needs improvement</u>



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**D. Attainment:**

	<b>CO1</b>	<b>CO2</b>	<b>CO3</b>		
<b>PO1</b>					
<b>PO2</b>					
<b>PO3</b>					

**Comments / Suggestions / Recommendations:**

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

**Signature of Faculty**

**Signature of the Co-ordinator / ADC**