



**Dr. V. N. Bedekar Institute of Management, Thane**  
**Teaching Plan (MMS)**  
**Academic Year (2017-2018)**

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**Programme Name: MMS**

**Name of the Course: Industrial Engineering Applications and Management**

**Maximum marks: 100**

**Name of the Faculty: Prof Hemant Kale**

**No. of Sessions: 13**

**Mobile No: 98201 17489**

**Email: hemantkale@yahoo.co.in**

**Weblink: -**

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**Learning Objectives:**

**To take through the Operations Management students of III semester MMS subject : Industrial Engineering Applications and Management.**

**To elaborate and make them understand fundamentals in Industrial Engineering in relation to Manufacturing or Operations Functions.**

**To make them understand Industrial Engineering Basics, Fundamentals, Needs and Advantages.**

**To take them through Work Study, Method Study and Measurement techniques**

**To Emphasis on the importance of Process and Processes in manufacturing set up for consistent results.**

**To teach optimisation in Manufacturing Resources.**

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**Reference Books:**

1. **Work Study – ILO**
  2. **Industrial Engineering Applications and Management – Philip Hicks**
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**Plan:**

DR VN BRIMS/REC/ACA/05



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<b>Session No</b>	<b>Topics to be covered</b>	<b>Books referred/ Recommended/ References- Print/Articles/ News/Research papers/ Online database/ Software /Simulations used</b>	<b>Learning outcomes</b>	<b>Evaluation of Students understanding by MCQs, Quiz, Short Test</b>
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1	Current SCM Introduction on set ups and expectations  Productivity – Definition , Need ,  Implementation	Video, Power point, Industry Examples , Work Study ILO.	Understanding and  Enhancing the  understanding on  SCM and  Productivity.	
2	Introduction to Industrial Engineering –  Need and Scope.	PPT. Success stories and Examples from Industry	Industrial  Engineering  Awareness	
3	Introduction and Scope to Work Study ,  Method Study and Work Measurement	Talk , PPT , Actual Work Activity on Measurements	Implementations of  Work Study for  Resource Utilisation  within Industry	Home work on Method  Studies thro individual  activities.
4	Day to Day Time and Motion Studies, Its  advantages and relation with resource  utilisation and operational costs.	Actual work activity , Examples , PPT	Cost / Time /  Productivity	
5	Process , Process flow diagrams and its  importance and usage in Industrial  Engineering and Operations	Process Flow Diagrams, Actual Problems on Process Flow  Diagrams.  Role Play and activity.	Importance of Shop  Floor and Office  activity processes	
6	Indian Juggad , Basic Mechanisation ,  Automation....	Talk , PPT	Indian and Global  views on Design ,  Mechanisation...	
7	PQRST Method Study	PPT and examples.		
8	Plant Lay outs and Material Handling  Equipment.	PPT , pictorial representations	Importance of  Layouts its relation	



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			to productivity.	
9	Case Studies	Short and Long Case Study Analysis , Discussion and Learnings.		
10	Individual Presentations topic wise.			
11	Internal Written Test			
12	Need based – Industry Visit To be discussed,			
13				
14				

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

Sr. No.	Activity Name	Topic Covered	Learning outcomes	Source
1	Role Play			
2	Industry Visit			
3	Academic Projects			
4	Book Review			
5	Group Discussion			
6	Business Quiz / Business News sharing			
7	Videos / Simulation			



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8	Use of Softwares and Labs			
9	Any other activity			



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**Evaluation:**

**I) Internal:**

<b>Component</b>	<b>Details</b>	<b>Marks</b>
Class Test		
Presentation		
Case Study		
Participation		
Others		

**Signature of Faculty**

**Signature of the Co-ordinator**

**Signature of the HOD**