

FYMMS  
Sem I

**I> Course Content:**

<b>Semester</b>	:	<b>I - Core</b>		
<b>Title of the Subject / course</b>	:	<b>Operations Management</b>		
<b>Course Code</b>	:	<b>MMSC104</b>		
<b>Credits</b>	:	<b>4</b>	<b>Duration in Hrs.</b>	<b>: 40</b>

**Learning Objective:**

1. To expose a student of Management to operations principles.
2. To understand basic operating principles in product and service industry
3. To be able to apply different analytical techniques of operations Management in different industry sectors like hotel, hospital, mall, BPO, Airlines, manufacturing, consulting etc

**Module**

<b>Sr. No</b>	<b>Content</b>	<b>Activity</b>	<b>Learning outcomes</b>
1	Introduction to Operations Management, applications in product and service industry, use of competitive advantage	Lecture, examples	Understand the basic concepts and learn how to apply the same.
2	Process analysis in Industry	Lectures, cases	Understand the physical processes
3	Facility location	Lecture, examples	Understand characteristics of equipment, machines and workflow
4	Facility layout	Lecture, examples	Understand characteristics of equipment, machines and workflow
5	Inventory Management, EOQ,ABC analysis, Discount policy	Lecture, examples, cases	Understand how, when, what and how much to order, stock and cost implications
6	Capacity and introduction to aggregate planning, PPC	Lecture, examples, cases	Understand capacity utilization, overall production planning and control
7	Basics of MRP	Lecture, examples, cases	Understand concept of dependency
8	Sequencing techniques	Lecture, examples,	Understand and implement optimal ordering of jobs
9	Introduction to Service Operation management	lecture, examples, cases	Understand application of operation to services
10	Work study and method study	lecture, examples	Understand measurement of time management

FYMMS  
Sem I

11	QC and SQC	lecture, examples	Understand quality and control methods, understand sources of variation and identify them on charts, process improvement
12	ISO systems, Value engineering and analysis	lecture	Understand global standards, cost reduction
13	Introduction to supply chain management	Lecture	Understand basic concept of supply chain
Cases and presentation			

**II> Course Outcomes**

<u>Course Code</u>	<u>Course Outcomes</u> Students will be able to..	<u>Cognition</u>
<b>MMSC104.1</b>	Infer the concept of processes, facility location and layout in service and manufacturing industry	Understand
<b>MMSC104.2</b>	classify the implication of variations in stock, order and cost	Understand
<b>MMSC104.3</b>	estimate optimal ordering of jobs and sequencing techniques	Understand
<b>MMSC104.4</b>	Apply statistical tools, control charts and operational models	Apply

**Text books**

- 1 Theory & Problems in Production & Operations Management- S N Chary, Tata McGraw Hill
- 2 Production & Operations Management -Kanishka Bedi , Oxford University Press

**Reference books**

- 1 Production and Operations Management-S N Chary, Tata McGraw Hill
- 2 Production and Operations Management- Chunawalla & Patel, Himalaya Publishing
- 3 Operations Management for competitive advantage-Chase & Jacob, McGraw-Hill/Irwin