



**SWARNANDHRA  
COLLEGE OF ENGINEERING & TECHNOLOGY  
(AUTONOMOUS)**

Accredited by National Board of Accreditation, AICTE, New Delhi, Accredited by  
NAAC with "A" Grade – 3.32 CGPA, Recognized under 2(f) & 12(B) of UGC Act 1950,  
Approved by AICTE, New Delhi, Permanent Affiliation to JNTUK, Kakinada  
Seetharampuram, W.G.D.T., Narsapur-534280, (Andhra Pradesh)

**DEPARTMENT OF MASTER OF BUSINESS ADMINISTRATION**

**TEACHING PLAN**

Course Code	Course Title	Semester	Branches	Contact Periods /Week	Academic Year	Date of commencement of semester
24MB2 T03	Operations Management	II	MBA	5	2025-26	05-02-2026
<b>COURSE OUTCOMES</b>						
1	Understand the basic concepts of operations management and some of the key issues which confront operations management in a business organization (K2)					
2	Analyze the factors that need to be considered for site location, different types of facility layout and their characteristics, optimization of product/process layout. (K4)					
3	Determine the elements that constitute the aggregate plan, preparation of aggregate demand, and specification of organizational policies for smoothing capacity utilization. (K3)					
4	Determine the basic concepts of productivity and its role in the organization, (K3)					
5	Understand the concept of quality and identify requirements of quality improvement programs. [K2]					
UNIT	Out Comes / Bloom's Level	Topics No.	Topics/Activity	Text Book / Reference	Contact Hour	Delivery Method
I	Understand		<b>Introduction</b>			



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the basic concepts of operations management and some of the key issues which confront operations management in a business organization (K2)	1.1	Introduction of Production/Operations mgt	T1, R1	1	Chalk & Talk, PPT, Active Learning & Tutorial
	1.2	Nature of Operation/ Production Management	T1, R1	1	
	1.3	Scope of Operation/ Production Management	T1, R1	1	
	1.4	Relationship with other functional areas	T1, R1	1	
	1.5	Recent trend in Operation Management	T1, R1	1	
	1.6	Manufacturing & Theory of Constraint	T1, R1	1	
	1.7	Types of Production System	T1, R1	1	
	1.8	Continuous production System/ Non-Continuous production System	T1, R1	2	
	1.9	Just in Time (JIT) & lean	T1, R1	1	
<b>Total</b>				<b>10</b>	
II	CO2:	Product design & Process Selection			



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	Analyze the factors that need to be considered for site location, different types of facility layout and their characteristics, optimization of product/process layout. (K4)	2.1	Product Design	T1, R2	1	Chalk & Talk, PPT  Tutorial, Active Learning & Case Study
		2.2	Stages in Product Design process	T1, R2	2	
		2.3	Factors affecting product design	T1, R2	2	
		2.4	Process Design	T1, R2	2	
		2.5	Factors, Types of Process Design	T1, R2	1	
		2.6	Value Analysis	T1, R2	1	
		2.7	Facility location	T1, R2	1	
		2.8	Plant Lay out	T1, R2	1	
		2.9	Types of Plant layout	T1, R2	1	
		2.10	Job Design	T1, R2		
<b>Total</b>					<b>10</b>	
<b>III</b>	<b>CO3:</b> Determine the elements that constitute the aggregate plan, preparation of aggregate demand, and specification	<b>Forecasting &amp; Capacity Planning</b>				Chalk & Talk, PPT, Tutorial
		3.1	Methods of forecasting	T2, T3, R3	1	
		3.2	Aggregate Production Planning	T2, T3, R3	1	
		3.3	Production strategies	T2, T3, R3	1	
		3.4	Capacity Requirement Planning	T2, R3	1	



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of organization al policies for smoothing capacity utilization. (K3)	3.5	Material Requirement planning	T1	1		
	3.6	Scheduling	T2	1		
	3.7	Supply Chain Management	T2, T3, R3	1		
	3.8	Purchase Management	T1	1		
	3.9	Inventory management	T1	1		
	3.10	Inventory Control techniques	T2, T3, R3	1		
	3.11	Production Planning and Control	T2R3	1		
<b>Total</b>				<b>13</b>		
<b>Productivity</b>						
IV	CO4: Determine the basic concepts of productivity and its role in the organization, (K3) J	4.1	Productivity-Meaning ,Formula	T2, T3, R3	1	Chalk & Talk, PPT Tutorial, Active Learning & Case Study
		4.2	Measurement of productivity	T2, R3	1	
		4.3	Factors Affecting Productivity	T1	1	
		4.4	Work study/ Method Stud	T2, T3, R3	2	
		4.5	Techniques in method Study	T2, T3, R3	1	
		4.6	Work measurement Techniques	T2, T3, R3	1	
		4.7	Engineering and Behavioral Approaches	T2, T3, R3	1	



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		4.8	Work sampling	T2, R3	1	
<b>Total</b>					<b>9</b>	
<b>Quality Management</b>						
<b>V</b>	<b>CO5:</b> Understand the concept of quality and identify requiremen ts of quality improvement programs. [K2]	5.1	Concept of Quality Definition	T2, T3, R3	1	Chalk & Talk, PPT, Tutorial
		5.2	Dimensions of Quality	T2, T3, R3	1	
		5.3	Cost of Quality	T2, T3, R3	1	
		5.4	Quality Circles	T2, T3, R3	1	
		5.5	Continuous improvement (Kaizen)	T2, T3, R3	1	
		5.6	ISO (9000&14000 series)	T2, T3, R3	1	
		5.7	Statistical Quality Control/six sigma		2	
		5.8	Variable & Attribute, Process Control		1	
		5.9	Control Charts		2	
		5.10	Acceptance Sampling Operating Characteristic Curve (AQL, LTPD, Alpha & Beta risk)		1	
<b>Total</b>					<b>12</b>	
<b>Revision</b>					<b>08</b>	
<b>CUMULATIVE PROPOSED PERIODS</b>					<b>60</b>	
<b>Text Books:</b>						



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S. NO.	AUTHORS, BOOK TITLE, EDITION, PUBLISHER, YEAR OF PUBLICATION
T1	k.Aswathappa and Sridhar Bhatt, production & operations management, Himalaya, New Delhi, 2012
T2	UpendraKrchu, Production & Operations Management, Excel Books, New Delhi, 2013.
T3	Deepak Kumar Battacharya, , Production & Operations Management, University Presss, New Delhi, 2012.

**Reference Books:**

S. NO	AUTHORS, BOOK TITLE, EDITION, PUBLISHER, YEAR OF PUBLICATION
R1	Ajay .K.Garg, , Production & Operations Management, TMH, New Delhi, 2012.
R2	L.C.Jhamb, , Production & Operations Management, Everest Publishing House, New Delhi, 2013.
R3	Kaushal, Case studies solutions in Production & Operations Management, Mc.Millan, New Delhi, 2012.

**Web Details**

1	<a href="https://www.bigcommerce.com/blog/inventory-management">https://www.bigcommerce.com/blog/inventory management</a>
2	<a href="https://www.slideshare.net/ismatullahzai/operationmanagementnotes">https://www.slideshare.net/ismatullahzai/operationmanagementnotes</a>

	Name	Signature with Date
i	Faculty	P. Suchitra P. Suchitra 4/2/26
ii	Course Coordinator	P. Suchitra P. Suchitra 4/2/26
iii	Module Coordinator	D. Haleena D. Haleena 4/2/26
iv	PROGRAMME COORDINATOR	Dr. G. Grace. G. Grace 12/3/2026

  
Principal