

Course Code	MB18OM05	Course Name	SALES AND OPERATIONS PLANNING	Course Category		L	T	P	C
						3	0	2	4

Pre-requisite Courses	Successfully completed, a minimum test score achieved, or a specified condition satisfied before a student can enroll in the this course.	Co-requisite Courses		Progressive Courses	Certificate in Sales Management and Operations Planning and Control, etc.,
Course Offering Department	College of Management	Data Book / Codes/Standards			

Course Learning Rationale (CLR): The purpose of learning this course is to:

CLR-1:	Gain detailed knowledge on nature and concepts of Sales and Operations Planning
CLR-2:	Study the main areas of demand forecasting methods
CLR-3:	They will have insight of Capacity Planning and MRP
CLR-4:	Sustainable Master Production Scheduling and Service Operations
CLR-5:	Students will also be empowered to apply the ERP in Operations

Learning

	1	2	3
Level of Thinking (Bloom)			
Expected Proficiency (%)			
Expected Attainment (%)			

Program Learning Outcomes (PLO)

	1	2	3	4	5	6	7	8
Business Environment & Domain Knowledge (BEDK)								
Critical Thinking, Business Analysis, Problem Solving and Innovative Solutions (CBPI)								
Global Exposure and Cross-cultured understanding (GECCU)								
Social Responsiveness and Ethics (SRE)								
Effective Communication (EC)								
Leadership and Team Work(LT)								
							PSO - 1	
								PSO - 2

Course Learning Outcomes (CLO): At the end of this course, learners will be able to:

CLO-1:	Understand the process and information required for preparing the Sales and Operations Planning	1	60	40
CLO-2:	Understand the insights on demand forecasting methods	1	60	40
CLO-3:	Enhance the Capacity Planning and MRP	2	50	50
CLO-4:	Understand the Master Production Scheduling and Service Operations	2	50	50
CLO-5:	Analyze the ERP Solutions in Operations			

Duration (hour)	9		9		9		9	
S-1	SLO-1	Introduction – Nature and concepts of SOP	Objective of Forecasting in operations	Capacity Planning Classification	Master Production Scheduling (MPS) – Meaning and Concepts	Introduction of ERP		
	SLO-2							
S-2	SLO-1	Relationship between Sales and Operations Planning	Elements of a good forecast	Measuring Capacity, Determining Capacity Requirements	MPS Model	Evolution of ERP		
	SLO-2							
S-3	SLO-1	Applications of SOP	Factors that Influence the Demand Forecast	Forecasting v/s Capacity Planning	Purpose of Scheduling	need for ERP		
	SLO-2							
S-4	SLO-1	Need for operation planning and control	Classification of Forecasting Methods	Aggregate Operations planning	Scheduling Methods: Forward Scheduling, Backward Scheduling	ERP Implementation methodology		
	SLO-2							
S-5	SLO-1	Functions of operation planning and control	Qualitative Methods, Time series and Quantitative Models	Factors Affecting Aggregate Planning	Scheduling Activities: Routing, Loading, Dispatching	Benefits of an ERP System		
	SLO-2							
S-6	SLO-1	Applications of OPC	Forecasting Accuracy and its measures	Aggregate Planning Goals	Scheduling by Type of Operations	Factors affecting ERP Implementation		

	SLO-2					
S-7	SLO-1	Types of Supply Chain	Mean Absolute Deviation	Forecasts of Aggregate Demand	Sc Job Operations Repetitive Operations	Role of ERP in Operations planning and control
	SLO-2					
S-8	SLO-1	Different phases of operation planning and control	Mean Square Error (MSE)	Aggregate Planning Techniques	Labor-Intensive Operations, Service Operations	Operations planning Insights from the TOC school of thought
	SLO-2					
S-9	SLO-1	Comparison of operations planning and control activities in manufacturing and service organizations	Mean Forecast Error (MFE)	Materials Requirement Planning (MRP) Elements and Methods	Case Study	Case Study
	SLO-2					

Learning Resources	1. Ajay K Garg, Production and Operations Management, McGraw Hill Education (India) Pvt. Ltd., 2012, Reprint 2017.
	2. William J Stevenson, Operations Management, Twelfth Edition, McGraw Hill Education (India) Pvt. Ltd., 2017, Reprint 2018.
	3. R. Panneerselvam, Production & operations management, Prentice Hall India private limited, 2017.
	4. Aswathappa, K., ShridharaBhat, K., Production and Operations Management , Himalaya Publishing House, 2014

		Learning Assessment													
Bloom's Level of Thinking		Continuous Learning Assessment (50% weightage)								Final Examination (50% weightage)					
		CLA -1 (5marks)		CLA -2 (5marks)		CLA-3 (10marks)		CLA -4 (15marks)		CLA -5(15marks)		Marks -100 which will be weighted at 50%			
		Theory	Practice	Theory	Practice	Theory	Practice	Theory	Practice			Theory	Practice		
Level 1	Remember Understand	50						35		35		35			
Level 2	Apply Analyze	25						35		35			35		
Level 3	Evaluate Create	25						30		30		30			
	Total	100 %		100 %		100 %		100 %		100%		100 %			

CLA – 1-5: can be from any combination of these: Class Participation, Surprise Test, Cycle test, Model Examination, Mini-Projects etc.,

Course Designers		
Experts from Industry	Experts from Higher Technical Institutions	Internal Experts
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