

Name of the Programme - MBA

Course Code - MGA-507

Title of the Course - Production and Operations Management

Number of Credits - 2 Credits

Effective from – 2022-2023

Prerequisites for the course:	Nil	
Objective:	To create an awareness of the functions of Production and Operations Management	
Contents:	Unit I Production & Operations Management Classification of operations, Responsibilities of Operations Manager, Process types in manufacturing and Services, Plant layout & Location, Production Planning and Control, Quality Management, Quality Control, Tools for improving Quality, Total Quality Management, Quality Assurance, Six Sigma, Maintenance policies for facilities and equipment, Preventive versus breakdown maintenance, Procedure for maintenance, Total Productive Maintenance (TPM)	15hours
	Unit II Productivity Improvement Techniques Work study and Time Study, Lean Manufacturing: Concept and Types, Introduction to Operations Research and Linear Programming, Transportation and Assignment Models, Network Analysis including PERT and CPM. Decision Theory and Decision Tree Model	15hours
Pedagogy	Lectures/ tutorials/laboratory work/ field work/ outreach activities/ project work/ vocational training/viva/ seminars/ term papers/assignments/ presentations/ self-study/ Case Studies etc. or a combination of some of these. Sessions shall be interactive in nature to enable peer group learning.	
Readings/ References	<ol style="list-style-type: none">1. Adam Jr Everet E. R J; Production and Operations Management; Prentice-Hall, latest Edition.2. Krajewski, Lee J. and Larry P. Ritzman; 'Operations Management: Strategy and Analysis'; Pearson Education India; Latest Edition.3. Taha H, Operations Research- An Introduction; Prentice-Hall India, Latest Edition4. Krishnaswamy, K. N. 'Cases in production / Operations Management'; Prentice Hall of India Private Ltd., New Delhi, Latest edition	
Course Outcomes	An ability to take basic decisions in production and operations in a Manufacturing and Service setup.	

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