

Dicipline:	Mechanical	Semester: 6th	Name of the Teaching Faculty: Satyakam Acharya	
Subject: I. E 8M	No of Days/Week Class Allotted: 4	Semester From date: 13/02/23 To date 23/05/23		No. of Weeks:
WEEK	Class Day	Theory Topics		
1	1st	Selection of site of industry.		
	2nd	Define plant layout		
	3rd	Describe the objective & principles of plant layout		
	4th	Explain process layout, product layout & combination layout		
	5th			
2	1st	Techniques to improve layout		
	2nd	Principles of material handling equipment		
	3rd	Plant maintenance		
	4th	Importance of plant maintenance.		
	5th			
3	1st	Break down maintenance		
	2nd	Preventive maintenance		
	3rd	Scheduled maintenance		
	4th	Introduction to operation research & it's application.		
	5th			

WEEK	Class Day	Theory Topics
A	1st	Solution of L.L.P by geographical method
	2nd	Evaluation of project completion time by critical path method & PERT
	3rd	Explain distinct features of PERT w.r. to CPM
	4th	Classification of inventory.
	5th	
5	1st	Objective of inventory control
	2nd	Describe the function of inventories
	3rd	Benefits of inventory control
	4th	Cost associated with inventory.
	5th	
6	1st	Terminology of inventory control
	2nd	Explain & derive economic order quantity for basic model.
	3rd	Define & explain ABC analysis.
	4th	Define inspection & quality control.
	5th	

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WEEK	Class Day	Theory Topics		
7	1st	Describe planning of inspection		
	2nd	Describe types of inspection		
	3rd	Advantage & dis-advantages of quality control.		
	4th	Study of factors influencing the quality of manufacture.		
	5th			
8	1st	Explain the concept of SQC, control charts.		
	2nd	Methods of attributes.		
	3rd	Concepts of ISO 9001-2008		
	4th	Quality management system.		
	5th			
9	1st	Benefits of ISO to the organisation		
	2nd	JIT, 6-sigma, TS, lean manufacturing		
	3rd	Introduction to production planning & control		
	4th	Function of production planning & control.		
	5th			

WEEK	Class Day	Theory Topics
10	1st	Methods of forecasting
	2nd	Routing
	3rd	Scheduling
	4th	Dispatching
	5th	
11	1st	Controlling
	2nd	Types of production
	3rd	Mass production
	4th	Batch production
	5th	
12	1st	Job order production.
	2nd	Principle of product & process planning.
	3rd	Scheduled maintenance.
	4th	p-charts & c-charts.
	5th	

Dicipline:	Mech.	Semester: 6th	Name of the Teaching Faculty: Satyakam Acharya	
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WEEK	Class Day	Theory Topics		
10	1st	Quality management system		
	2nd	Registration system		
	3rd	Certification procedure.		
	4th	Lean manufacturing		
	5th			
11	1st	Solve related problems.		
	2nd	Method of forecasting		
	3rd	systems of process planning		
	4th	Revision on above classes.		
	5th			
15	1st	Objectives of implementing ISO		
	2nd	Quality control.		
	3rd	study of factors influencing the quality of manufacturing.		
	4th	Principles of production process.		
	5th			