Discipline:	Semester: Name of the Teaching Faculty: PRAVAT KUMAR SW			
MECHANICALENGG	6 TH			
Subject: INDUSTRIAL	No. of days/per	SemesterFromdate:14.03.2023 To Date: 23.05.2022		
ENGG.	week			
&MANAGET(TH-1)	classallotted:04	No.ofWeeks:15		
Week	Class Day	Theory/Practical Topics		
	1 ST	CHAPTER-1		
	aND	Selection of site of industry		
1 ST	2 ND	Introduction to Plant location Layout		
	3 RD	Describe the objectives & the principles of a plant layout		
	4 TH	Explain process & product layout, product layout, combination		
	1ST	layout, Techniques to improve layout		
2 ND	2ND	Principal of material handling equipment		
	3 RD	Plant maintenance		
	4 TH	Importance of plant maintenance		
	1 ST	Breakdown maintenance		
	2^{ND}	Preventive maintenance		
3 RD	3 RD	Scheduled maintenance		
	3100	CHAPTER-2		
		OPERATION RESERCH Introduction to operation research and its application		
	4 TH	Define linear programming problem		
4 TH	1 ST	Solved numerical		
	2 ND	Solved numerical		
	3 RD			
	4 TH	Solution of LPP by graphical method Solved numerical		
	1 ST	Solved numerical		
5 TH	2 ND			
	3 RD	Evaluation of project completion time by CPM and PERTEvaluation of project completion time by CPM and PERT contd.		
	4 TH	Explain features of PERT with respect to CPM		
	1 ST	CHAPTER-3		
6 TH	1	INVENTORY CONTROL		
		Classification of inventory		
	2 ND	Objective of inventory control		
	3 RD	Describe the functions of inventory		
	4 TH	Benefits of inventory control		
	1 ST	Costs associated with inventory control		
7 TH	2 ND	Terminology in inventory control		
,	3 RD	Explain and derive economic order quantity for basic model		
	4 TH	Solve numerical		
	1 ST	Solve numerical		
	2 ND	Define and explain ABC analysis		
8 TH	3 RD	CHAPTER-4		
	-	INSPECTION AND QUALITY CONTROL		
		Define inspection and quality control		
	4 TH	Describe planning inspection		
	1 ST	Describe types of inspection		
	2 ND	Advantage and dis advantage of quality control.		

9 TH	3 RD	Study of factors influencing the quality of manufacture	
4 TH		Explain the concepts of statistical quality control	
	1 ST	Control charts(X,R,P,C)	
10 TH	2 ND	Method of attributes	
	3 RD	Concepts of ISO 9001-2008	
	4 TH	Quality management system	
	1 ST	Registration/certificate procedure	
	2 ND	Benefits of ISO to the organization	
11 TH	3 RD	JIT, SIX sigma	
	4 TH	7s, lean manufacturing	
	1 ST	Solve related problems	
	2^{ND}	Probable question answer discussion	
12 TH	3 RD	CHAPTER-5	
		PRODUCTION PLANNING AND CONTROL	
	- TH	Introduction	
	4 TH	Major function s of production planning and control	
	1 ST	Methods of forecasting	
	2 ND	Routing	
13 TH	3 RD	Scheduling	
	4 TH	Dispatching	
	1 ST	Controlling	
	2 ND	Types of production	
14 TH	3 RD	Mass production	
AT	4 TH	Batch production	
	1 ST	Job order production	
	2 ND	Principles of product and process planning	
15 TH	3 RD	Principles of product and process planning contd.	
10	4 TH	Probable question answer discussion	

Learning Resources:

Sl. No.	Name of Authors	Title of the Book	Name of the Publisher
1	O.P.KHANNA	INDUSTRIAL ENGINEERING & MANAGEMENT	DHANPAT RAI & SONS
2	MARTAND TELSANG	INDUSTRIAL ENGG & PRODUCTION MANAGEMENT	S.CHAND
3	M.MAHAJAN	STATISTICAL QUALITY CONTROL	DHANPAT RAI &SON