LESSON PLAN

ACADEMIC SESSION - SUMMER 2024 6th SEMESTER W.E.F-16/01/2024 Total Period :- 48

Subject:- INDUSTRIAL ENGINEERING & MANAGEMENT

Teacher:- ER. ABHOY MOHANTA (GUEST FACULTY, MECHANICAL ENGINEERING DEPT.)

Month	Week	Class Day	UNIT NO/PE RIOD ALLOT ED	Topic to be covered as per Syllabus	Topic actually covered as per Syllabus	Short fall if any/syll abus	Rema rks
J A N U A R	1st	1st	8	1.0 Plant Engineering			
		2nd		1.1 Selection of site of industry			
		3rd		1.2 Define plant layout			
		4th		1.3 Describe the objective & principles of plant layout			
	2nd	1st		1.4 Explain process, product & combination layout			
		2nd		1.5 Techniques of improve layout			
		3rd		1.6 Principles of material handling equipment			
		4th		1.7 Plant, break down, preventive, scheduled maintenance & its importance, Doubt clearing class on above chapter			
		1st		2.0 Operations Research			
	3rd	2nd		2.1 Introduction to operations research			
		3rd]	2.2 Applications of operation research			
		4th	7	2.3 Define linear programming problem			
	4th	1st		2.4 Evaluation of project completion time by critical path method & PERT			
		2nd		2.5 Explain distinct features of PERT w.r.t CPM			
		3rd		2.6 Simple Problems, Doubt clearing class on above chapter			
		4th		3.0 Inventory Control			
	5th	1st		3.1 Classification of inventory			
		2nd		3.2 Objective of inventory control			
		3rd		3.3 Describe the functions of inventories			
		4th		3.4 Benefits of inventory control			
F	6th	1st		3.5 Costs associated with inventory			
E B R U A R Y		2nd		3.6 Terminology in inventory control			
		3rd		3.7 Explain & derive economic order quantity for basic model.internal examination			
		4th		3.8 Define & explain ABC analysis, revision on internal exam question.			
	7th	1st		3.9 Solve numericals, Doubt clearing class on above chapter			
		2nd		4.0 Inspection & Quality Control			
		3rd		4.1 Define inspection & quality control			
		4th		4.2 Describe planning of inspection			
		1st		4.3 Decribe types of inspection			

	8th	2nd	13	4.4 Advantages & Disadvantages of quality control	
		3rd		4.5 Study of factors influencing the quality of manufacture	
		4th		4.6 Explain the concept of statistical quality control, control charts (X,R,P&C-charts	
	9th	1st		4.7 Methods of attributes	
		2nd		4.8 Concept of ISO 9001-2008	
		3rd		4.9.1 Quality management system, registration/certification procedure	
		4th		4.9.2 Benefits of ISO to the organisation	
М		1st		4.9.3 JIT, Six sigma, 7S, Lean manufacturing	
A R C H	10th	2nd		4.9.4 Solve related problems, Doubt clearing class on above chapter	
		3rd	10	5.0 Production Planning & Control	
		4th		5.1 Introduction	
	11th	1st		5.2 Major functions of production planning & control	
		2nd		5.3 Methods of forecasting	
		3rd		5.3.1 Routing, Scheduling, Dispatching, Controlling	
		4th		5.4 Types of production	
Α		1st		5.4.1 Mass production	
P		2nd		5.4.2 Batch production	
R	12th	3rd		5.4.3 Job order production	
l L		4th		5.5 Principles of product & process planning , Doubt clearing class on above chapter	

