



UTKAL INSTITUTE OF ENGINEERING & TECHNOLOGY

DISCIPLINE:	SEMESTER:			
MECHANICAL	6TH Sem	NAME OF THE TEACHING FACULTY: Er.Snehasis das		
SUBJECT:	No of Days/Per week class allotted: 4 Class P/W(60)	Semester From Date:16/01/2024		
INDUSTRIAL ENGINEERING & MANAGEMENT		To Date:26/04/2024		
		No. Of Weeks: 15		
WEEK	CLASS DAY	THEORY TOPICS	REMARKS	
1 st	1 st	Selection of Site of Industry.	Date	Dean/Principal
	2 nd	Define plant layout.		
	3 rd	Describe the objective and principles of plant layout.		
	4 th	Explain Process Layout, Product Layout and Combination Layout.		
2 nd	1 st	Techniques to improve layout.		
	2 nd	Principles of material handling equipment. 1.7 Plant maintenance.		
	3 rd	Importance of plant maintenance		
	4 th	Break down maintenance		
	5 th	Preventive maintenance.		
3 rd	1 st	Scheduled maintenance		
	2 nd	1 Introduction to Operations Research and its applications.		
	3 rd	1 Introduction to Operations Research and its applications.		
	4 th	Define Linear Programming Problem,		
4 th	1 st	Define Linear Programming Problem,		
	2 nd	Solution of L.P.P. by graphical method.		
	3 rd	Solution of L.P.P. by graphical method.		
	4 th	Evaluation of Project completion time by Critical Path Method and PERT (Simple problems)-		
5 th	1 st	Evaluation of Project completion time by Critical Path Method and PERT (Simple problems)-		
	2 nd	Explain distinct features of PERT with respect to CPM.		
	3 rd	Explain distinct features of PERT with respect to CPM.		
	4 th	Classification of inventory.		
6 th	1 st	Objective of inventory control.		
	2 nd	Describe the functions of inventories.		

	3 rd	Benefits of inventory control.		
	4 th	Costs associated with inventory.		
7 th	1 st	DOUBT CLEAR CLASS		
	2 nd	Terminology in inventory control		
	3 rd	Terminology in inventory control		
	4 th	Explain and Derive economic order quantity for Basic model. (Solve numerical)		
8 th	1 st	Define and Explain ABC analysis.		
	2 nd	Describe planning of inspection		
	3 rd	Describe types of inspection		
	4 th	Advantages and disadvantages of quality control.		
9 th	1 st	Study of factors influencing the quality of manufacture.		
	2 nd	Doubt Clear Class		
	3 rd	Explain the Concept of statistical quality control, Control charts (X, R, P and C - charts).		
	4 th	Methods of attributes.		
10 th	1 st	Concept of ISO 9001-2008.		
	2 nd	Quality management system, Registration /certification procedure.		
	3 rd	Benefits of ISO to the organization.		
	4 th	JIT, Six sigma, 7S, Lean manufacturing		
11 th	1 st	Solve related problems		
	2 nd	Solve related problems		
	3 rd	Doubt Clear Class		
	4 th	Doubt Clear Class		
12 th	1 st	Introduction Introduction		
	2 nd	Major functions of production planning and control		
	3 rd	Methods of forecasting		
	4 th	Routing		
13 th	1 st	Scheduling		
	2 nd	Scheduling		
	3 rd	Dispatching		
	4 th	Controlling		
14 th	1 st	Types of production		
	2 nd	Types of production		
	3 rd	DOUBT CLEAR CLASS		
	4 th	Mass production		
15 th	1 st	Batch production		
	2 nd	Batch production		
	3 rd	Job order production		
	4 th	Principles of product and process planning.		

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HOD

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DEAN

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PRINCIPAL