



**MECHANICAL ENGINEERING DEPARTMENT
LESSON PLAN**

Summer - 23

Discipline :- MECHANICAL	Semester:- 6TH	Name of the Teaching Faculty: SWAGATIKA BABU
Subject:- INDUSTRIAL ENGINEERING & MANAGEMENT	No of Days/per Week Class Allotted :-04	Semester From date: 13.02.23 To Date: 23.05.23 Semester :15 WEEKS
Week	Class Day	Theory/ Practical Topics
1st	1st	Selection of Site of Industry.
	2nd	Define plant layout.
	3rd	Describe the objective of plant layout.
	4th	principles of plant layout.
2nd	1st	Explain Process Layout
	2nd	Explain Product Layout
	3rd	Explain Combination Layout
	4th	Techniques to improve layout
3rd	1st	Principles of material handling equipment.
	2nd	Plant maintenance.
	3rd	Importance of plant maintenance
	4th	Break down maintenance
4th	1st	Preventive maintenance
	2nd	Scheduled maintenance
	3rd	Introduction to Operations Research
	4th	its applications
5th	1st	Define Linear Programming Problem.
	2nd	Solution of L.P.P. by graphical method
	3rd	Solution of L.P.P. by graphical method
	4th	Evaluation of Project completion time by Critical Path Method
6th	1st	Evaluation of Project completion time by Critical Path Method
	2nd	PERT
	3rd	Simple problems
	4th	Simple problems
7th	1st	Explain distinct features of PERT with respect to CPM
	2nd	Classification of inventory
	3rd	Objective of inventory control
	4th	Describe the functions of inventories
8th	1st	Benefits of inventory control

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


 SIGN OF FACULTY
 11/02/23


 SIGN OF HOD
 11/02/23