

LESSON PLAN

Discipline: Mechanical Engg.	Semester: 6 th Sem	Name of the Teaching Faculty: Suprava Behera
Subject: Industrial Engg. & Management	No. of Days/Week Class Allotted	Semester From Date: 14.02.23 To Date: 23.05.2023 No. of Weeks: 15
Week	Class Day	Theory/Practical Topics
1st	1st	PLANT ENGINEERING (Ch.1) - Definition Plant and Plant location, Selection of Site of Industry.
	2nd	Definition plant layout. Describe the objective and principles of plant layout.
	3rd	Types of plant layout, Explain Process Layout
	4th	Product Layout and Combination Layout.
2nd	1st	Techniques to improve layout.
	2nd	Principles of material handling equipment.
	3rd	Definition and importance of Plant maintenance.
	4th	Break down maintenance, Preventive maintenance
3rd	1st	Scheduled maintenance
	2nd	Assignment Evaluation/ Class Test
	3rd	OPERATION RESEARCH (Ch.2) Introduction to Operations Research and its applications.
	4th	Definition Linear Programming Problem
4th	1st	Solution of L.P.P. by graphical method
	2nd	Solved previous year related problems of L.P.P. by graphical method
	3rd	Evaluation of Project completion time by Critical Path Method
	4th	Solved previous year related problems of L.P.P. by Critical Path Method
5th	1st	Evaluation of Project completion time by PERT
	2nd	Solved previous year related problems of L.P.P. by PERT
	3rd	Explanation of distinct features of PERT with respect to CPM.
	4th	Assignment Evaluation/ Class Test
6th	1st	INVENTORY CONTROL (Ch.3) - Classification of inventory.
	2nd	Objective of inventory control.
	3rd	Description of the functions of inventories.

	4th	Benefits of inventory control and Costs associated with inventory.
7th	1st	Terminology in inventory control, Assignment Evaluation
	2nd	Explanation and Derivation economic order quantity for Basic model.
	3rd	Solve related problems
	4th	Define and Explain ABC analysis.
8th	1st	Review Class
	2nd	Solved previous year related problems
	3rd	INSPECTION AND QUALITYCONTROL (Ch.4) Definition of Inspection and Quality control.
	4th	Description of planning of inspection, and types of inspection.
9th	1st	Advantages and disadvantages of quality control and factors influencing the quality of manufacture.
	2nd	Explanation of the Concept of statistical quality control,
	3rd	Control charts (X,R –Charts)
	4th	Solve related problems
10th	1st	P and C-charts
	2nd	Solve related problems
	3rd	Methods of attributes, Concept of ISO 9001-2008
	4th	Quality management system, Registration/certification procedure.
11th	1st	Benefits of ISO to the organization.
	2nd	JIT, Six sigma
	3rd	Solve related problems
	4th	7S, Lean manufacturing, Solve related problems
12th	1st	Review class
	2nd	PRODUCTIONPLANNING AND CONTROL (Ch.5) Introduction and major functions of production planning
	3rd	Functions of production control
	4th	Methods of forecasting: Routing
13th	1st	Methods of forecasting: Scheduling
	2nd	Methods of forecasting: Dispatching
	3rd	Methods of forecasting: Controlling
	4th	Types of production, Mass production
14th	1st	Batch production
	2nd	Job order production

	3rd	Principles of product planning.
	4th	Principles of process planning.
15th	1st	Review Class
	2nd	Assignment Evaluation/Class Test
	3rd	Previous year questions discussion
	4th	Semester probable questions discussion


13.02.23
Signature of the Faculty