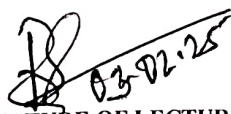


PNS SCHOOL OF ENGG. & TECH., MARSHAGHAI, KENDRAPARA

LESSON PLAN

BRANCH: Mechanical ENGINEERING	SEMESTER : 6th	NAME OF TEACHING FACULTY : ER.Ramesh Chandra Pradhan
SUBJECT : Industrial Engineering & Management	NO. OF DAYS/ PER WEEK CLASS ALLOTTED : 05	SEMESTER FROM DATE : 04.02.2025 TO 17.05.2025 NO. OF WEEKS : 12
WEEK	CLASSDAY	THEORY TOPICS
1ST	1st	Ch-1.Plant Engineering Selection of site of Industry
	2nd	Define Plant layout
	3rd	<u>Describe objective of plant layout</u>
	4th	Describe Principles of plant layout
	5th	Explain process layout and product layout
2ND	1st	Explain combination layout
	2nd	Techniques to improve layout
	3rd	Principle of material handling equipment
	4th	Plant maintenance
	5th	Importance of Plant maintenance
3RD	1st	Breakdown maintenance
	2nd	Preventive maintenance
	3rd	Scheduled maintenance
	4th	Ch-2:Operation Research Introduction to Operation Research and it's application
	5th	Define Linear Programming Problem
4TH	1st	Solution of LPP by Graphical method
	2nd	Problem 1
	3rd	Problem 2
	4th	Problem 3
	5th	Evaluation of Project completion time by Critical path method
5TH	1st	Evaluation of Project completion time by PERT Method
	2nd	Explain distinct features of PERT w.r.t CPM
	3rd	PROBLEM SOLVED
	4th	Ch-3.Inventory Control Classification of Inventory
	5th	Objective of Inventory control
6TH	1st	Describe the functions of Inventories
	2nd	Benefits of Inventory control
	3rd	Costs associated with Inventory
	4th	Terminology in Inventory control
	5th	Explain economic order quantity for basic model

7TH	1st	Derive economic order quantity for basic model
	2nd	Solve Numericals
	3rd	Define and Explain ABC Analysis
	4th	Graph of ABC Analysis
	5th	Ch-4. Inspection and Quality control: Define Inspection and quality control
8TH	1st	Describe planning of Inspection
	2nd	Describe types of Inspection
	3rd	Advantages and disadvantages of quality control
	4th	Study of factors influencing the quality of manufacture
	5th	Explain the concept of statistical quality control, Control charts (X, R-arts)
9TH	1st	Explain the control charts (P-charts)
	2nd	Explain the control charts (C-charts)
	3rd	Methods of attributes
	4th	Concept of ISO 9001-2008
	5th	Quality management system
10TH	1st	Registration/certification procedure
	2nd	Benefits of ISO to the organization
	3rd	JIT, Six sigma, 7S
	4th	CLASS TEST
	5th	Lean manufacturing
11TH	1st	Solve related Problem
	2nd	Solve related Problem
	3rd	Ch-5: Production Planning and Control: Introduction
	4th	Major functions of production planning and control
	5th	Methods of Forecasting
12TH	1st	Routing, Scheduling, Dispatching, Controlling
	2nd	Types of Production, Mass Production, Batch production, Job order production
	3rd	Principles of product and process planning
	4th	Revision
	5th	Revision

 03-02-25
SIGNATURE OF LECTURER

 03.02.25
SIGNATURE OF H.O.D

 03/02/25
SIGNATURE OF PRINCIPAL