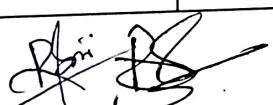


PNS SCHOOL OF ENGINEERING & TECHNOLOGY, MARSHAGHAI, KENDRAPARA
LESSON PLAN

Discipline : Mechanical	Semester: 6th	Name of the Teaching Faculty : Er. RAMESH CHANDRA PRADHAN & Er. RAMAKANT SWAIN	
Subject : IE & M(TH1)	No. of Days / per week class allotted : 5	Semester From date : 22.12.2025 to Date : 18.04.2026 No. of Weeks : 12	
Week	Class Day	Topics	
1st	1st	CHAPTER-1 Selection of Site of Industry.	
	2nd	Define plant layout	
	3rd	Describe the objective and principles of plant layout.	
	4th	Explain Process Layout, Product Layout and Combination Layout.	
	5th	Techniques to improve layout.	
2nd	1st	Principles of material handling equipment	
	2nd	Plant maintenance.	
	3rd	Importance of plant maintenance.	
	4th	Break down maintenance.	
	5th	Preventive & SCHEDULE maintenance.	
3rd	1st	CHAPTER-2 Introduction to Operations Research and its applications.	
	2nd	Define Linear Programming Problem,	
	3rd	NUMERICALS SOLVED	
	4th	Solution of L.P.P. by graphical method	
	5th	Solution of L.P.P. by graphical method	
4th	1st	Solution of L.P.P. by graphical method	
	2nd	Evaluation of Project completion time by Critical Path Method	
	3rd	PERT	
	4th	Explain distinct features of PERT with respect to CPM.	
	5th	Explain distinct features of PERT with respect to CPM.	
5th	1st	CHAPTER-3 INVENTORY CONTROL:	
	2nd	Classification of inventory	
	3rd	Objective of inventory control.	
	4th	Describe the functions of inventories.	
	5th	Benefits of inventory control	
6th	1st	Costs associated with inventory.	
	2nd	Terminology in inventory control	
	3rd	Explain and Derive economic order quantity for Basic model	
	4th	Define and Explain ABC analysis	
	5th	NUMERICALS SOLVED	
7th	1st	CHAPTER- 4 INSPECTION AND QUALITY CONTROL:	
	2nd	Define Inspection and Quality control	
	3rd	Describe planning of inspection	
	4th	Describe types of inspection	
	5th	Advantages and disadvantages of quality control.	

8th	1st	Study of factors influencing the quality of manufacture.
	2nd	Concept of statistical quality control, Control charts
	3rd	Methods of attributes
	4th	Concept of ISO 9001-2008
	5th	Quality management system, Registration /certification procedure.
9th	1st	Benefits of ISO to the organization.
	2nd	JIT, Six sigma, 7S, Lean manufacturing
	3rd	Solve related problems.
	4th	NUMERICALS SOLVED
	5th	NUMERICALS SOLVED
10th	1st	CHAPTER-5 PRODUCTION PLANNING AND CONTROL
	2nd	Major functions of production planning and control
	3rd	Major functions of production planning and control
	4th	Methods of forecasting
	5th	Routing
11th	1st	SCHEDULING
	2nd	DISPATCHING
	3rd	ROUTING
	4th	CONTROLLING
	5th	NUMERICALS SOLVED
12th	1st	TYPES OF PRODUCTION
	2nd	MASS PRODUCTION
	3rd	BATCH PRODUCTION
	4th	Job order production
	5th	Principles of product and process planning.



Signature of Lecturer



Signature of H.O.D.



Signature of Principal

HEAD OF THE DEPARTMENT
Department of Mechanical Engineering
PNS School of Engg. & Tech.