

AB Lab-62
Completed

BHUBANANANDA ODISHA SCHOOL OF ENGINEERING, CUTTACK
DEPARTMENT OF MECHANICAL ENGINEERING



LESSON PLAN

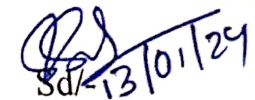
SUBJECT: INDUSTRIAL ENGG & MANAGEMENT(TH-1)

FACULTY: PRIYADARSINI MALLICK

ACADEMIC SESSION: 2023-24

SEMESTER: 6TH

SECTION-A


Sd/-13/10/24

H O D (Mechanical Engg.)



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Discipline- Mechanical Engg	Semester :- 6 th		Name of the teaching faculty :- Priyadarsini Mallick
Subject- Industrial Engg & Management	No of periods Allotted per Week- 04 (Monday Tuesday Thursday Friday)		Semester from Date - 16/01/2024 To Date - 26/04/2024 No. of Weeks: 15
Week	Class	No Of Periods available	Theory Topics
1st	16/01/2024	1	Syllabus Discussion
	18/01/2024	1	1.1 Selection of Site of Industry.
	19/01/2024	1	1.2 Define plant layout.
	19/01/2024	1	1.3 Describe the objective and principles of plant layout.
2nd	22/01/2024	1	1.4.1 Explain Process Layout
	25/01/2024	1	1.4.2 Product Layout 1.4.3 Combination Layout.
3rd	29/01/2024	1	1.5 Techniques to improve layout
	30/01/2024	1	1.6 Principles of material handling equipment.
	01/02/2024	1	1.7 Plant maintenance. 1.7.1 Importance of plant maintenance.
	02/02/2024	1	1.7.2 Break down maintenance. 1.7.3 Preventive maintenance.
4th	05/02/2024	1	1.7.4 Scheduled maintenance.
	06/02/2024	1	2.1 Introduction to Operations Research and its applications.

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	08/02/2024	1	2.2 Define Linear Programming Problem,
	09/02/2024	1	2.3 Solution of L.P.P. by graphical method
5th	12/02/2024	1	Simple problems on LPP
	13/02/2024	1	2.4.1 Evaluation of Project completion time by Critical Path Method
	15/02/2024	1	Simple problems on CPM
	16/02/2024	1	2.4.2 Evaluation of Project completion time by PERT
6th	19/02/2024	1	Simple problems on PERT
	20/02/2024	1	2.5 Explain distinct features of PERT with respect to CPM.
	22/02/2024	1	CLAS TEST -1
	23/02/2024	1	3.1 Classification of inventory.
7th	25/02/2024	1	3.2 Objective of inventory control. 3.3 Describe the functions of inventories
	26/02/2024	1	3.4 Benefits of inventory control.
	29/02/2024	1	3.5 Costs associated with inventory
	01/03/2024	1	3.6 Terminology in inventory control
8th	04/03/2024	1	3.7 Explain and Derive economic order quantity for Basic model.
	07/03/2024	1	3.8 Define and Explain ABC analysis
9th	11/03/2024	1	4.1 Define Inspection and Quality control. 4.2 Describe planning of inspection.
	12/03/2024	1	4.3 Describe types of inspection.

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			4.4 Advantages and disadvantages of quality control.
	14/03/2024	1	4.5 Study of factors influencing the quality of manufacture.
	15/03/2024	1	4.6 Explain the Concept of statistical quality control, Control charts (X, R chart).
10th	18/03/2024	1	4.6.2 Control charts(P and C – charts) 4.7 Methods of attributes.
	19/03/2024	1	4.8 Concept of ISO 9001-2008
	21/03/2024	1	4.9.1 Quality management system, Registration /certification procedure.
	22/03/2024	1	4.9.2 Benefits of ISO to the organization.
11 TH	28/03/2024	1	4.9.3 (a) JIT, Six sigma,
12 TH	02/04/2024	1	4.9.3(b)7S, Lean manufacturing
	04/04/2024	1	5.1 Introduction 5.2 Major functions of production planning and control
	05/04/2024	1	5.3 Methods of forecasting
13 TH	08/04/2024	1	5.3.1 Routing
	09/04/2024	1	5.3.2Scheduling
	12/04/2024	1	5.3.3 Dispatching
14 TH	15/04/2024	1	5.3.4 Controlling
	16/04/2024	1	5.4.1 Mass production
	18/04/2024	1	5.4.2 Batch production

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	19/04/2024	1	5.4.3 Job order production
15 TH	22/04/2024	1	5.5 Principles of product and process planning
	23/04/2024	1	CLASS TEST-2
	25/04/2024	1	REVISION
	26/04/2024	1	REVISION

