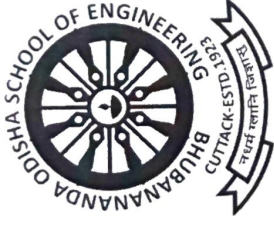


BHUBANANANDA ODISHA SCHOOL OF ENGINEERING, CUTTACK
DEPARTMENT OF MECHANICAL ENGINEERING



LESSON PLAN

SUBJECT: INDUSTRIAL ENGG & MANAGEMENT (TH-1)

FACULTY: PRIYADARSINI MALLICK

Priyadarsini Mallik, Lect, Mech

ACADEMIC SESSION: 2022-23

SEMESTER: 6TH

SECTION-A

[Signature]
18/12/23

H O D (Mechanical Engg.)

BHUBANANDA ODISHA SCHOOL OF ENGINEERING, CUTTACK
DEPARTMENT OF MECHANICAL ENGINEERING
LESSON PLAN

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 Wednesday Friday Saturday)		Semester from Date - 14/02/2023 To Date - 23/06/2023 No. of Weeks: 15	
Week	Class	No Of Periods available	Theory Topics	
1st	15/02/2023	1	Syllabus discussion 1.1 Selection of Site of Industry	
	17/02/2023	1	1.2 Define plant layout.	
	20/02/2023	1	1.3 Describe the objective and principles of plant layout. 1.4 Explain Process Layout, Product Layout and Combination Layout.	
2nd	22/02/2023	1	1.5 Techniques to improve layout.	
	24/02/2023	1	1.6 Principles of material handling equipment.	
	25/02/2023	1	1.7 Plant maintenance 1.7.1 Importance of plant maintenance.	
3rd	27/02/2023	1	1.7.2 Break down maintenance. 1.7.3 Preventive maintenance.	

SR

SHUBANANANDA ODISHA SCHOOL OF ENGINEERING, CUTTACK
DEPARTMENT OF MECHANICAL ENGINEERING
LESSON PLAN

	01/03/2023	1	1.7.4 Scheduled maintenance.
	03/03/2023	1	2.1 Introduction to Operations Research and its applications.
	04/03/2023	1	2.2 Define Linear Programming Problem,
4th	06/03/2023	1	2.3 Solution of L.P.P. by graphical method.
	10/03/2023	1	2.4.1 Evaluation of Project completion time by Critical Path Method
	11/03/2023	1	NUMERICALS ON CH- 2.4.1
	13/03/2023	1	2.4.2 Evaluation of Project completion time by PERT (Simple problems)
5th	15/03/2023	1	NUMERICAL ON CH-2.4.2
	17/03/2023	1	2.5 Explain distinct features of PERT with respect to CPM
	18/03/2023	1	CLASS TEST-1
	20/03/2023	1	3.1 Classification of inventory. 3.2 Objective of inventory control.
6th	22/03/2023	1	3.3 Describe the functions of inventories
	24/03/2023	1	3.4 Benefits of inventory control.
	25/03/2023	1	3.5 Costs associated with inventory.

BHUBANANDA ODISHA SCHOOL OF ENGINEERING, CUTTACK
DEPARTMENT OF MECHANICAL ENGINEERING
LESSON PLAN

7th	27/03/2023	1	3.6 Terminology in inventory control 3.7 Explain and Derive economic order quantity for Basic model. (Solve numerical) 3.8 Define and Explain ABC analysis.
	29/03/2023	1	
	31/03/2023	1	4.1 Define Inspection and Quality control. 4.2 Describe planning of inspection 4.3 Describe types of inspection.
8th	03/04/2023	1	4.4 Advantages and disadvantages of quality control.
	05/04/2023	1	
9th	10/04/2023	1	4.5 Study of factors influencing the quality of manufacture.
	12/04/2023	1	4.6.1 Explain the Concept of statistical quality control, Control charts (X, R charts).
	15/04/2023	1	4.6.2 Control charts (P and C - charts).
10th	17/04/2023	1	4.7 Methods of attributes.
	19/04/2023	1	4.8 Concept of ISO 9001-2008.
	21/04/2023	1	4.9.1 Quality management system, Registration /certification procedure.
	22/04/2023	1	4.9.2 Benefits of ISO to the organization.
11 TH	24/04/2023	1	4.9.3.1 JIT, Six sigma, 7S, Lean manufacturing
	26/04/2023	1	INTERNAL
	28/04/2023	1	5.1 Introduction

				5.2 Major functions of production planning and control
	29/04/2023	1		5.3 Methods of forecasting
12 TH	01/05/2023	1		5.3.1 Routing
	03/05/2023	1		5.3.2 Scheduling
	06/05/2023	1		5.3.3 Dispatching
13 TH	08/05/2023	1		5.3.4 Controlling
	10/05/2023	1		5.4.1 Mass production
	12/05/2023	1		5.4.2 Batch production
	13/05/2023	1		5.4.3 Job order production
14 TH	15/05/2023	1		5.5 Principles of product and process planning.
	17/05/2023	1		CLASSTEST-2
	20/05/2023	1		REVISION
15 TH	22/05/2023	1		REVISION