

BHUBANANANDA ODISHA SCHOOL OF ENGINEERING, CUTTACK
DEPARTMENT OF MECHANICAL ENGINEERING



LESSON PLAN

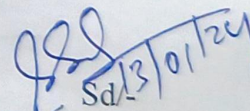
SUBJECT: INDUSTRIAL ENGINEERING AND MANAGEMENT

ACCADEMIC SESSION: 2023-24

FACULTY: MRS. SUSHREE PRIYADARSHINI

SEMESTER: 6TH

SEC: B


Sd/-
H O D (MechEngg.)

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LESSON PLAN

Discipline: Mechanical Engg.	Semester: 6TH (B)		Name of the teaching faculty: Sushree Priyadarshini
Subject: Industrial Engineering and management	No of days/per week class allotted: 4		Semester from date: 16/01/2024 to date: 26/04/2024 No. of weeks- 15
Week	Days	No of periods available	Theory/practical topics
1 st	16/01/2024	1	Plant Engineering 1.1 selection of site of industry
	17/01/2024	1	1.2 define plant layout 1.3 describe the objectives and principles of plant layout
	18/01/2024	1	1.3.1 explain process layout, product layout and combination layout
2 nd	22/01/2024	1	1.5 techniques to improve plant layout
	24/01/2024	1	1.6 principles of material handling equipment 1.7 plant maintenance
	25/01/2024	1	1.7.1 importance of plant maintenance
3 rd	29/01/2024	1	1.7.2 breakdown maintenance

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	30/01/2024	1	1.7.3 preventive maintenance 1.7.4 scheduled maintenance
	31/01/2024	1	2 .operation research 2.1 introduction to operation research and its application
	01/02/2024	1	2 .operation research 2.1 introduction to operation research and its application
4 th	05/02/2024	1	2.2 define linear programming problem
	06/02/2024	1	2.3 solution of L.P.P by graphical method 2.3 solution of L.P.P by graphical method
	07/02/2024	1	2.4 evaluation of project completion time by CPM and PERT
	08/02/2024	1	2.5 explain distinct feature of PERT with respect to CPM
5 th	12/02/2024	1	Class test-1
	13/02/2024	1	3.0 Inventory control 3.1 classification of inventory 3.2 objectives of inventory control
	15/02/2024	1	3.3 describe the functions of inventory
6 th	19/02/2024	1	3.4 benefits of inventory control
	20/02/2024	1	3.5 costs associated with inventory
	21/02/2024	1	3.6 terminology of inventory control
	22/02/2024	1	3.7 explain and derive EOQ for basic model, Solve numerical
7 th	26/02/2024	1	Solve numerical 3.8 define and explain ABC analysis

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8 th	27/02/2024	1	4.0 Inspection and quality control 4.1 Define inspection and quality control 4.2 describe planning of inspection
	28/02/2024	1	4.3 describe types of inspection
	29/02/2024	1	4.4 advantage and disadvantages of quality control
	04/03/2024	1	4.5 study of factors influencing the quality of manufacture
	06/03/2024	1	4.6 explain the concept of statistical quality control, control charts 4.7 methods of attributes
9 th	07/03/2024	1	4.8 concept of ISO 9001-2008
	11/03/2024	1	4.9.1 quality management system
	12/03/2024	1	4.9.2 benefits of ISO to the organisation
	13/03/2024	1	4.9.3 JIT, six sigma, 7S, Lean manufacturing
10 th	14/03/2024	1	4.9.3 JIT, six sigma, 7S, Lean manufacturing
	18/03/2024	1	4.9.4 solve related problems
	19/03/2024	1	4.9.4 solve related problems
	20/03/2024	1	5.0 production planning and control
	21/03/2024	1	5.1 introduction
11 th	27/03/2024	1	5.2 Major functions of production planning and control
	28/03/2024	1	5.3 Methods of forecasting
12 th	02/04/2024	1	5.3.1 Routing

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13 th	03/04/2024	1	5.3.2 Scheduling
	04/04/2024	1	5.3.3 Dispatching
	08/04/2024	1	5.3.4 controlling
	09/04/2024	1	5.4 types of production 5.4.1 mass production
	10/04/2024	1	5.4.2 Batch production
14 th	15/04/2024	1	5.4.3 job order production
	16/04/2024	1	5.5 principles of product and process planning
	18/04/2024	1	Class test-2
15 th	22/04/2024	1	revision
	23/04/2024	1	revision
	24/04/2024	1	revision
	25/04/2024	1	revision
16 th	26/4/2024	1	Previous year Question discussion
	27/4/2024	2	Previous year Question discussion
	29/4/2024	1	Previous year Question discussion
	30/4/2024	2	Previous year Question discussion
	01/5/2024	1	Previous year Question discussion