

LESSON PLAN FOR 6TH SEMESTER (SESSION-2023)
INDUSTRIAL ENGINEERING & MANAGEMENT (Th-1)

NAME OF LECTURER : DEEPAK RANJAN JENA

BRANCH:MECHANICAL

SERIAL NO.	MONTH	DATE	CHAPTERS TO BE COVERED	NO. OF CLASSES	% OF COURSE COVERED
1	FEB	20/02/23	UNIT-1:PLANT ENGINEERING 1.1 Selection of Site of Industry.	8	20
2		21/02/23	1.2 Define plant layout. 1.3 Describe the objective and principles of plant layout		
3		22/02/23	1.4 Explain Process Layout, Product Layout and Combination Layout		
4		23/02/23	1.5 Techniques to improve layout.		
5		24/02/23	1.6 Principles of material handling equipment.		
6		25/02/23	1.7 Plant maintenance. 1.7.1 Importance of plant maintenance.		
7		27/02/23	1.7.2 Break down maintenance. 1.7.3 Preventive maintenance.		
8		28/02/23	1.7.4 Scheduled maintenance		

SERIAL NO.	MONTH	DATE	CHAPTERS TO BE COVERED	NO. OF CLASSES	% OF COURSE COVERED
1	MARCH	01/03/23	UNIT-3:INVENTORY CONTROL 3.1 Classification of inventory. 3.2 Objective of inventory control.	7	20
2		02/03/23	3.3 Describe the functions of inventories.		
3		03/03/23	3.4 Benefits of inventory control. 3.5 Costs associated with inventory.		
4		04/03/23	3.6 Terminology in inventory control		
5		06/03/23	3.7 Explain and Derive economic order quantity for Basic model.		
6		09/03/23	Solve numerical		
7		10/03/23	3.8 Define and Explain ABC analysis.		
8		11/03/23	UNIT-4: INSPECTION AND QUALITY CONTROL 4.1 Define Inspection and Quality control. 4.2 Describe planning of inspection.	8	15
9		13/03/23	4.3 Describe types of inspection.		
10		14/03/23	4.4 Advantages and disadvantages of quality control		
11		15/03/23	4.5 Study of factors influencing the quality of manufacture.		
12		16/03/23	4.6 Explain the Concept of statistical quality control, Control charts (X, R, P and C - charts).		
13		17/03/23	4.7 Methods of attributes.		

14		18/02/03	4.8 Concept of ISO 9001-2008.	4	5
15		20/02/03	4.9.1 Quality management system, Registration /certification procedure. 4.9.2 Benefits of ISO to the organization.		
16		21/02/03	4.9.3 JIT, Six sigma, 7S, Lean manufacturing		
17		22/02/03	4.9.4 Solve related problems		
18		23/02/03	UNIT-5: PRODUCTION PLANNING AND CONTROL 5.1 Introduction 5.2 Major functions of production planning and control	7	10
19		24/02/03	5.3 Methods of forecasting		
20		25/02/03	5.3 Methods of forecasting		
21		27/02/03	5.3.1 Routing		
22		28/02/03	5.3.2 Scheduling		
23		29/02/03	5.3.2 Scheduling		
24		31/02/03	5.3.3 Dispatching		

SERIAL NO.	MONTH	DATE	CHAPTERS TO BE COVERED	NO. OF CLASSES	% OF COURSE COVERED
1	APRIL	03/04/23	5.3.3 Dispatching	14	15
2		03/04/23	5.3.4 Controlling		
3		04/04/23	5.3.4 Controlling		
4		05/04/23	5.4 Types of production 5.4.1 Mass production		
5		06/04/23	5.4.1 Mass production		
6		08/04/23	5.4.2 Batch production		
7		10/04/23	5.4.2 Batch production		
8		11/04/23	5.4.2 Batch production		
9		12/04/23	5.4.3 Job order production		
10		13/04/23	5.4.3 Job order production		
11		15/04/23	REVISION		
12		24/04/23	5.5 Principles of product and process planning	3	5
13		25/04/23	5.5 Principles of product and process planning		
14		26/04/23	5.5 Principles of product and process planning		
15		27/04/23	UNIT-2: OPERATIONS RESEARCH 2.1 Introduction to Operations Research and its applications.		
16		28/04/23	2.1 Introduction to Operations Research and its applications.		
17		29/04/23	2.2 Define Linear Programming Problem		

SERIAL NO.	MONTH	DATE	CHAPTERS TO BE COVERED	NO. OF CLASSES	% OF COURSE COVERED
1	MAY	01/05/23	2.2 Define Linear Programming Problem	12	10
2		02/05/23	2.3 Solution of L.P.P. by graphical method.		
3		03/05/23	2.3 Solution of L.P.P. by graphical method.		
4		04/05/23	2.3 Solution of L.P.P. by graphical method.		
5		05/05/23	2.4 Evaluation of Project completion time by Critical Path Method and PERT (Simple problems)		
6		06/05/23	2.4 Evaluation of Project completion time by Critical Path Method and PERT (Simple problems)		
7		07/05/23	2.4 Evaluation of Project completion time by Critical Path Method and PERT (Simple problems)		
8		08/05/23	2.4 Evaluation of Project completion time by Critical Path Method and PERT (Simple problems)		
9		09/05/23	2.5 Explain distinct features of PERT with respect to CPM		
10		10/05/23	2.5 Explain distinct features of PERT with respect to CPM		
11		11/05/23	REVISION		
12		12/05/23	REVISION		

MONTHS	TOPICS COVERED	% COVERED
FEB.	UNIT-1	20
MARCH	UNIT-3, UNIT-4, UNIT-5 CONT.	50
APRIL	UNIT-5, UNIT-2 CONT.	20
MAY	UNIT-2	10
TOTAL		100

[Signature]
3/3/23

[Signature]
3/3/23