
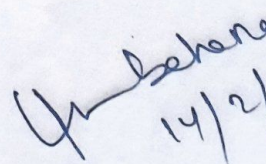
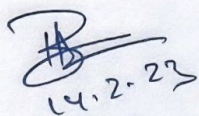


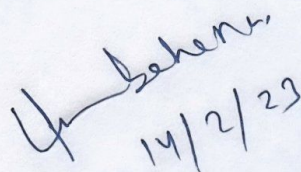
Discipline: <u>MECHANICAL</u>	Semester: <u>6th</u>	Name of the Teaching Faculty: <u>ER. LITU BEHERA</u> <u>Lecturer Mechanical</u>
Subject: INDUSTRIAL ENGINEERING & MANAGEMENT	No. of days/ per week class allotted: 4	Semester From date: 14/02/2023 To date: No of weeks: 15
Week	Class Day	Theory Topics:
1st	1st	PLANT ENGINEERING: 1.1 Selection of Site of Industry.
	2nd	1.2 Define plant layout.
	3rd	1.3 Describe the objective of plant layout.
	4th	1.2 Describe the principles of plant layout.
2nd	1st	1.4 Explain Process Layout.
	2nd	1.4 Explain Product Layout.
	3rd	1.4 Explain Combination Layout.
	4th	1.5 Techniques to improve layout.
3rd	1st	1.6 Principles of material handling equipment.
	2nd	1.7 Plant maintenance.
	3rd	1.7.1 Importance of plant maintenance.
	4th	1.7.2 Break down maintenance.
4th	1st	1.7.3 Preventive maintenance.
	2nd	1.7.4 Scheduled maintenance.
	3rd	Revision of Chapter-2
	4th	Previous year question solutions
5th	1st	OPERATIONS RESEARCH: 2.1 Introduction to Operations Research and its applications.
	2nd	2.2 Define Linear Programming Problem, 2.3 Solution of L.P.P. by graphical method.
	3rd	2.4 Evaluation of Project completion time by Critical Path Method and PERT (Simple problems)
	4th	2.5 Explain distinct features of PERT with respect to CPM.


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6 th	1 st	Revision of Chapter-2
	2 nd	Previous year question solutions
	3 rd	INVENTORY CONTROL: 3.1 Classification of inventory.
	4 th	3.2 Objective of inventory control.
7 th	1 st	3.3 Describe the functions of inventories.
	2 nd	3.4 Benefits of inventory control.
	3 rd	3.5 Costs associated with inventory.
	4 th	3.6 Terminology in inventory control
8 th	1 st	3.7 Explain and Derive economic order quantity for Basic model. (Solve numerical)
	2 nd	3.8 Define and Explain ABC analysis.
	3 rd	Revision of Chapter-3
	4 th	Previous year question solutions
9 th	1 st	INSPECTION AND QUALITY CONTROL: 4.1 Define Inspection and Quality control.
	2 nd	4.2 Describe planning of inspection.
	3 rd	4.3 Describe types of inspection.
	4 th	4.4 Advantages and disadvantages of quality control.
10 th	1 st	4.5 Study of factors influencing the quality of manufacture.
	2 nd	4.6 Explain the Concept of statistical quality control, Control charts (X, R, P and C - charts).
	3 rd	4.7 Methods of attributes.
	4 th	4.8 Concept of ISO 9001-2008.


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11 th	1 st	4.9.1 Quality management system, Registration /certification procedure.
	2 nd	4.9.2 Benefits of ISO to the organization.
	3 rd	4.9.3 JIT, Six sigma, 7S, Lean manufacturing
	4 th	4.9.4 Solve related problems.
12 th	1 st	Revision of Chapter-4
	2 nd	Previous year question solutions
	3 rd	PRODUCTION PLANNING AND CONTROL 5.1 Introduction
	4 th	5.2 Major functions of production planning and control
13 th	1 st	5.3 Methods of forecasting
	2 nd	5.3.1 Routing
	3 rd	5.3.2 Scheduling
	4 th	5.3.3 Dispatching
14 th	1 st	5.3.4 Controlling
	2 nd	5.4 Types of production
	3 rd	5.4.1 Mass production
	4 th	5.4.2 Batch production
15 th	1 st	5.4.3 Job order production
	2 nd	5.5 Principles of product and process planning.
	3 rd	Revision of Chapter-5
	4 th	Previous year question solutions


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