

GOVT. POLYTECHNIC MAYURBHANJ			
ACADEMIC SESSION-2021-22		LESSON PLAN	
Discipline : Mechanical Engg.		Semester: 6th Sem	Name of the Teaching Faculty : Mihir mohanta
Subject : IE&M		No. of Days / per week class allotted : 04	Semester From date :10.03.2022 To Date : 10.06.2022
MONT	Week	Day	Topic
MARCH	2ND	6TH	<b>1. PLANT ENGINEERING:</b> Selection of Site of Industry, Define plant layout , Describe the objective and principles of plant layout.
	3RD	1ST	Explain Process Layout, Product Layout and Combination Layout, Techniques to improve layout
		1ST	Principles of material handling equipment ,Plant maintenance. Importance of plant maintenance , Break down maintenance, Break down maintenance,Preventive maintenance, Scheduled maintenance
		2ND	Revision
	4TH	1ST	<b>2. OPERATIONS RESEARCH :</b> Introduction to Operations Research and its applications.
		1ST	Define Linear Programming Problem.
		2ND	Solution of L.P.P. by graphical method. Problem Solve
		6TH	Problem Solve
	5TH	1ST	Problem Solve
		1ST	Problem Solve
		2ND	Evaluation of Project completion time by Critical Path Method and PERT
	APRIL	1ST	6TH
2ND		1ST	Problem Solve
		1ST	Problem Solve
		2ND	Explain distinct features of PERT with respect to CPM.
		6TH	Revision
3RD		1ST	Class test-1
		1ST	Class test-1
		2ND	Class test-1
		6TH	<b>3. INVENTORY CONTROL:</b> Classification of inventory , Objective of inventory control.
4TH		1ST	Describe the functions of inventories, Benefits of inventory control.
		1ST	Costs associated with inventory. Terminology in inventory contro
		2ND	Explain and Derive economic order quantity for Basic model. (Solve numerical)
		6TH	Problem Solve
5TH		1ST	Define and Explain ABC analysis.
		1ST	Revision
		2ND	<b>4. INSPECTION AND QUALITY CONTROL:</b> Define Inspection and Quality control,Describe planning of inspection. Describe types of inspection
		6TH	Advantages and disadvantages of quality control , Study of factors influencing the quality of manufacture
		1ST	Explain the Concept of statistical quality control, Control charts (X, R, P and C - charts).

<b>MAY</b>	<b>1ST</b>	1ST	Problem Solve
		6TH	Problem Solve
	<b>2ND</b>	1ST	Problem Solve
		1ST	Methods of attributes , Concept of ISO 9001-2008.
		2ND	Quality management system, Registration /certification procedure,Benefits of ISO to the organization.
		6TH	JIT, Six sigma,7S, Lean manufacturing
	<b>3RD</b>	2ND	Solve related problems
		6TH	Revision
	<b>4TH</b>	1ST	<b>5. PRODUCTION PLANNING AND CONTROL:</b> Introduction , Major functions of production planning and
		1ST	Methods of forecasting
		2ND	Routing Scheduling , Dispatching , Controlling
		6TH	Mass production Batch Production Job order production
	<b>5TH</b>	2ND	Principles of product and process planning
<b>JUNE</b>	<b>1ST</b>	6TH	Revision
	<b>2ND</b>	1ST	Previous Year Question Discussion
		1ST	Previous Year Question Discussion
		2ND	Previous Year Question Discussion

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