

GOVT. POLYTECHNIC MAYURBHANJ			
ACADEMIC SESSION-2023-24		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 : 16.01.2024 To Date : 26.04.2024
MONTH	Week	Day	Topics
JANUARY	3RD	2ND	1. PLANT ENGINEERING: Selection of Site of Industry
		3RD	Define plant layout.Describe the objective and principles of plant layout
	4TH	1ST	Explain Process Layout, Product Layout and Combination Layout.
		1ST	Techniques to improve layout
		3RD	Principles of material handling equipment
	5TH	1ST	Plant maintenance ,Importance of plant maintenance, Break down maintenance.
		1ST	Preventive maintenance.
		2ND	Scheduled maintenance
		3RD	Revision
	FEBRUARY	2ND	1ST
1ST			Define Linear Programming Problem,
2ND			Solution of L.P.P. by graphical method. Problem Solve
3RD			Problem Solve
3RD		1ST	Problem Solve
		1ST	Problem Solve
		2ND	Evaluation of Project completion time by Critical Path Method and PERT
4TH		1ST	Problem Solve
		1ST	Problem Solve
		2ND	Problem Solve
		3RD	Explain distinct features of PERT with respect to CPM.
5TH		1ST	Revision
		1ST	3. INVENTORY CONTROL: Classification of inventory ,Objective of inventory control.
		2ND	Describe the functions of inventories ,Benefits of inventory control.
		3RD	Costs associated with inventory. Terminology in inventory contro
MARCH		2ND	1ST
	1ST		Problem Solve
	3RD		Define and Explain ABC analysis.
	3RD	1ST	Revision
		1ST	4. INSPECTION AND QUALITY CONTROL: Define Inspection and Quality control, Describe planning of inspection. Describe types of inspection
		2ND	Advantages and disadvantages of quality control, Study of factors influencing the quality of manufacture
		3RD	Explain the Concept of statistical quality control, Control charts (X, R, P and C - charts).
	4TH	1ST	Problem Solve
		1ST	Problem Solve

	7TH	2ND	Problem Solve
		3RD	Methods of attributes 4.8 Concept of ISO 9001-2008.
	5TH	3RD	Quality management system, Registration /certification procedure, Benefits of ISO to the organization.
APRIL	1ST	2ND	JIT, Six sigma,7S, Lean manufacturing
		3RD	Solve related problems
	2ND	1ST	Solve related problems
		1ST	Revision
		2ND	5. PRODUCTION PLANNING AND CONTROL: Introduction , Major functions of production planning and control
	3RD	3RD	Methods of forecasting , Routing ,Scheduling , Dispatching , Controlling
		1ST	Types of production:Mass production , Batch Production ,Job order production
		1ST	Principles of product and process planning
		2ND	Revision
	4TH	1ST	Revision
		1ST	Previous year question discussion
		2ND	Previous year question discussion
		3RD	Classtest-2

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Govt. Polytechnic Mayurbhanj

Subject Expert
Govt. Polytechnic Mayurbhanj

Academic Co-Ordinator
Govt. Polytechnic Mayurbhanj