

GOVT. POLYTECHNIC MAYURBHANJ

ACADEMIC SESSION-2022-23

LESSON PLAN

Discipline : Mechanical Engg		Semester: 6th Sem	Name of the Teaching Faculty : Mihir mohanta
Subject :Industrial Engg & Management		No. of Days / per week class allotted : 04	Semester From date : 13.02.2023 To Date : 23.05.2023
MONTH	Week	Day	Topics
FEBRUARY	3rd	1ST	1.PLANT ENGINEERING: Discuss about plant Engineering and Selection of Site of Industry
		1ST	Define plant layout.Describe the objective and principles of plant layout
		2ND	Explain Process Layout, Product Layout and Combination Layout.
		4TH	Techniques to improve layout
	4th	1ST	Principles of material handling equipment
		1ST	Plant maintenance: Importance of plant maintenance ,Break down maintenance.
		2ND	Preventive maintenance.
		4TH	Scheduled maintenance
	5th	1ST	Revision
		1ST	2. OPERATIONS RESEARCH : Describe about operation research
		2ND	Introduction to Operations Research and its applications.
		2ND	Revision
MARCH	1st	4TH	Define Linear Programming Problem,
	2nd	1ST	Solution of L.P.P. by graphical method. Problem Solve
		1ST	Problem Solve
		4TH	Problem Solve
	3rd	1ST	Problem Solve
		1ST	Evaluation of Project completion time by Critical Path Method and PERT
		2ND	Problem Solve
		4TH	Problem Solve
	4th	1ST	Problem Solve
		1ST	Explain distinct features of PERT with respect to CPM.
		2ND	Revision
		4TH	Classtest-1
	5th	1ST	3. INVENTORY CONTROL: Classification of inventory and Objective of inventory control.
		1ST	Describe the functions of inventories and Benefits of inventory control.
		2ND	Costs associated with inventory.Terminology in inventory control
2ND	1ST	Explain and Derive economic order quantity for Basic model. (Solve numerical)	
	1ST	Problem Solve	
	2ND	Define and Explain ABC analysis.	
	4TH	Revision	

APRIL	3RD	1ST	4. INSPECTION AND QUALITY CONTROL :Define Inspection and Quality control. Describe planning of inspection. Describe types of inspection
		1ST	Advantages and disadvantages of quality control. Study of factors influencing the quality of manufacture
		2ND	Explain the Concept of statistical quality control, Control charts (X, R, P and C - charts).
		4TH	Problem Solve
	4TH	1ST	Problem Solve
		1ST	Problem Solve
		2ND	Problem Solve
		4TH	Revision
	5TH	1ST	Internal
		1ST	Internal
		2ND	Internal
		4TH	Methods of attributes Concept of ISO 9001-2008.
	MAY	1ST	1ST
1ST			Quality management system, Registration /certification procedure, Benefits of ISO to the organization.
2ND			JIT, Six sigma,7S, Lean manufacturing,
4TH			Solve related problems
2ND		1ST	Revision
		1ST	5.PRODUCTION PLANNING AND CONTROL , Introduction , Major functions of production planning and
		2ND	Methods of forecasting,Routing,Scheduling,Dispatching,Controlling
		4TH	Types of production ,Mass production,Batch Production ,Job order production
3RD		1ST	Principles of product and process planning
		1ST	Revision
		2ND	previous year question discussion
		4TH	previous year question discussion
4TH		1ST	previous year question discussion
		1ST	Classtest-2
		2ND	Classtest-2

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Govt. Polytechnic Mayurbhanj

Subject Expert
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Academic Co-Ordinator
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