


SYNERGY POLYTECHNIC, BBSR

The Lesson Plan

Discipline: Mechanical Engg	Semester: 6th	Name of the Teaching Faculty: Soumikh Roy
Subject: INDUSTRIAL ENGINEERING & MANAGEMENT	No of Days/per week class allotted:	Semester from Date: 16/01/2024 to Date: 31/01/2024 No of Weeks:
Week	Class Day	
3rd	1st	Selection of Site of Industry
	2nd	Define plant layout
	3rd	Define the objective and principles of plant layout
	4th	
	5th	
4th	1st	Explain Process Layout
	2nd	Explain Product Layout and Combination Layout
	3rd	Techniques to improve layout
	4th	Principles of material handling equipment
	5th	
5th	1st	Study of Plant maintenance
	2nd	Importance of plant maintenance
	3rd	Break down maintenance
	4th	
	5th	


Sign of Faculty

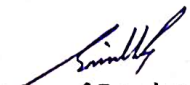

HOD


Principal 16/1/24

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Discipline: Mechanical Engg	Semester: 6th	Name of the Teaching Faculty: Soumikh Roy
Subject: INDUSTRIAL ENGINEERING & MANAGEMENT	No of Days/per week class allotted:	Semester from Date: 01/02/2024 to Date: 29/02/2024 No of Weeks:
Week	Class Day	Theory/Practical Topics
1st	1st	Study Preventive maintenance
	2nd	Study Scheduled maintenance
	3rd	
	4th	
	5th	
2nd	1st	Study Linear programming Problem
	2nd	Solution of L.P.P. by graphical method
	3rd	Study distinct features of PERT
	4th	Study distinct features of CPM
	5th	
3rd	1st	Solutions on PERT and CPM
	2nd	Classification of inventory
	3rd	Objective of inventory control
	4th	Describe the functions of inventories
	5th	
4th	1st	Benefits of inventory control
	2nd	Costs associated with inventory
	3rd	Terminology in inventory control
	4th	Derive economic order quantity for Basic model
	5th	
5th	1st	Define and Explain ABC analysis
	2nd	Solve numericals on ABC analysis
	3rd	
	4th	
	5th	


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Week	Class Day	Theory/Practical Topics
1st	1st	Define Inspection and Quality control
	2nd	Describe planning of inspection
	3rd	
	4th	
	5th	
2nd	1st	Describe types of inspection
	2nd	Advantages and disadvantages of quality control
	3rd	Study of factors influencing the quality of manufacture
	4th	Study of Control charts (X, R, P and C - charts)
	5th	
3rd	1st	Methods of attributes
	2nd	Concept of ISO 9001-2008
	3rd	Quality management system
	4th	Benefits of ISO to the organization
	5th	
4th	1st	Study Just in Time Manufacturing
	2nd	Learn Six sigma technique
	3rd	Study 7S
	4th	Learn Lean manufacturing
	5th	
5th	1st	Solve problems related to JIT, Six sigma
	2nd	Introduction to Process planning and Control
	3rd	Major functions of production planning and control
	4th	
	5th	


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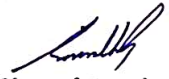

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Discipline: Mechanical Engg	Semester: 6th	Name of the Teaching Faculty: Soumikh Roy
Subject: INDUSTRIAL ENGINEERING & MANAGEMENT	No of Days/per week class allotted:	Semester from Date: 01/04/2024 to Date: 26/04/2024 No of Weeks:
Week	Class Day	Theory/Practical Topics
1st	1st	Methods of forecasting
	2nd	Study of Routing
	3rd	Study of Scheduling
	4th	Study of Dispatching
	5th	
2nd	1st	Controlling in production planning and control
	2nd	Study the types of production
	3rd	Learn Mass production
	4th	Learn Batch production
	5th	
3rd	1st	Comparison on Mass production and Batch production
	2nd	Study the Job order production
	3rd	Learn the Principles of product Planning
	4th	Learn the Principles of process planning
	5th	
4th	1st	Revision of the important topics
	2nd	Revision of the important topics
	3rd	Solving of previous 5 year Semester questions
	4th	Solving of previous 5 year Semester questions
	5th	
5th	1st	
	2nd	
	3rd	
	4th	
	5th	


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