

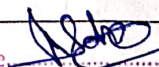
6th Semester  
Summer - 2024

Sub:- Industrial Engineering & Management

AJAYA KUMAR SAHOO

Discipline	Semester	Name of the teaching faculty
Mechanical	6th	AJAYA KUMAR SAHOO
Subject	No. of days/week class	Semester From 16-01-24 to 24-04-24
Industrial Engineering management	04	No. of weeks

Week	Class/day	Theory TOPICS
1st	1st	X
	2nd	Selection of site of Industry
	3rd	Define plant Layout
	4th	Describe objective of plant layout
	5th	X
	6th	X
2nd	1st	Describe principle of plant layout
	2nd	X
	3rd	Explain process Layout
	4th	Explain product layout and Combination layout
	5th	X
	6th	X
3rd	1st	principles of material handling equipment
	2nd	plant maintenance, Important of plant maintenance
	3rd	Breakdown maintenance
	4th	preventive maintenance
	5th	X
	6th	X

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1st Scheduled maintenance  
 2nd Introduction to operation Research  
 4th Application of operation Research  
 4th Define Linear programming problem  
 5th \*  
 6th \*


1st solution of LPP by graphical method  
 2nd Evaluation of project Completion time by es  
 5th 3rd \*  
 4th Sample problems on above  
 5th \*  
 6th \*

1st Explain features of PERT and CPM  
 2nd Classification of Inventory  
 6th 3rd objective of Inventory Control  
 4th Describe the functions of Inventories  
 5th \*  
 6th \*

1st Benefits of Inventory Control  
 2nd Costs associated with Inventory  
 7th 3rd Terminology in Inventory Control  
 4th Explanation of economic order quantity  
 5th \*  
 6th \*

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	1st	Numerical in EOQ, Define and Explain ABC analysis
	2nd	x
8th	3rd	Define Inspection and Quality Control
	4th	Describe planning of Inspection
	5th	x
	6th	x
	1st	Describe types of Inspection
	2nd	Advantages and disadvantages of Quality Control
9th	3rd	Study of factors influencing the quality of manufacturing <sup>Control</sup>
	4th	Explain the concept of statistical quality control <sup>of manufacturing</sup> chart.
	5th	x
	6th	x
	1st	x, R, P and c-charts
	2nd	Methods of attributes, Concept of ISO 9001-2008
10th	3rd	Quality management System, Registration
	4th	Certification procedure
	5th	x
	6th	x
	1st	Benefits of ISO to the organisation
	2nd	x
11th	3rd	JIT, Six Sigma, TS, lean manufacturing
	4th	Solve related problems
	5th	Introduction of production planning and control
	6th	x

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12th  
1st X  
2nd Function of production planning and Control  
3rd methods of Forecasting  
4th Routing, scheduling  
5th X  
6th X

13th  
1st Despatching  
2nd Controlling  
3rd Types of production  
4th X  
5th X  
6th X

14th  
1st mass production  
2nd Batch production  
3rd X  
4th Job order production  
5th X  
6th X

15th  
1st principle of product planning  
2nd principle of product planning  
3rd Numerical problems  
4th Numerical problems  
5th X  
6th X

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