

Dicipline: <u>Mechanical</u>	Semester: <u>6th.</u>	Name of the Teaching Faculty: <u>Diprampun Paltanayak</u>	
Subject: <u>Industrial Engg & Management</u>	No of Days/Week Class Allotted: <u>4</u>	Semester From date: <u>18-03-22</u> To date: <u>18-06-22</u>	No. of Weeks: <u>15</u>

WEEK	Class Day	Theory Topics
1st	1st	Plant Engineering. 1. Selection of site of industrial
	2nd	Define plant layout
	3rd	Describe the objective & principle of plant layout.
	4th	Explain process layout, product layout & combination layout.
	5th	
2nd	1st	Principle of material handling equipment.
	2nd	Plant maintenance,
	3rd	Importance of plant maintenance.
	4th	Breakdown maintenance.
	5th	
3rd	1st	Preventive maintenance.
	2nd	Scheduled maintenance.
	3rd	Introduction to operation research & its application.
	4th	Define Linear programming problems.
	5th	

WEEK	Class Day	Theory Topics
4th	1st	Continuing Linear programming problem
	2nd	Solution of LPP by graphical method.
	3rd	Continuing graphical method.
	4th	Evaluation of project completion time by critical path method.
	5th	
5th	1st	Continuing CPM & PERT method.
	2nd	Solve problems on above.
	3rd	Explain distinct features of PERT with respect to CPM.
	4th	Doubt clearing class.
	5th	
6th	1st	Classification of inventory.
	2nd	Objective of inventory control.
	3rd	Describe the functions of inventories.
	4th	Benefits of inventory control.
	5th	

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Subject:	Industrial Engg & Management	No of Days/Week Class Allotted:	4	Semester From date:	10-08-22 To date: 18-06-22
					No. of Weeks: 15

WEEK	Class Day	Theory Topics
7th	1st	Costs associated with inventory.
	2nd	Terminology in inventory control.
	3rd	Explain & derive economic order quantity for basic model.
	4th	Solve numericals on EOQ.
	5th	
8th	1st	Define & explain ABC analysis.
	2nd	Class test -1, Question answer discussion.
	3rd	Define inspection & Quality Control.
	4th	Describe planning of inspection.
	5th	
	1st	Describe types of inspection.
	2nd	Continue types of inspection.
	3rd	Advantages & disadvantages of quality control.
	4th	Continue advantages & disadvantages of quality control.
	5th	

WEEK	Class Day	Theory Topics
10 th	1st	Study of factors influencing the quality of manufacture.
	2nd	Explain the concept of statistical quality control, control charts.
	3rd	Continued control charts & quality control
	4th	Methods of attributes.
	5th	
11 th	1st	Concept of ISO 9001-2008.
	2nd	Quality management system.
	3rd	Benefits of ISO to organization.
	4th	JIT, Six sigma, 7s, lean manufacturing
	5th	
12 th	1st	Solve numerical problems.
	2nd	Introduction to production planning
	3rd	Major function of prod ⁿ planning
	4th	Methods of forecasting.
	5th	

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Subject: <u>Industrial Engg & Management</u>	No of Days/Week Class Allotted: <u>4</u>	Semester From date: <u>10-02-22</u> To date: <u>18-06-22</u>	No. of Weeks: <u>15</u>

WEEK	Class Day	Theory Topics
13th	1st	Continue methode of forecasting.
	2nd	Routing
	3rd	@ Scheduling
	4th	Dispatching
	5th	
14th	1st	Controlling
	2nd	Types of production
	3rd	Mass production
	4th	Batch production
	5th	
15th	1st	Job order production
	2nd	Principles of product & process planning
	3rd	Doubt clearing class
	4th	Class fest. (Question answer discussion)
	5th	