

BHADRAK ENGINEERING SCHOOL AND TECHNOLOGY(BEST), ASURALI, BHADRAK

INDUSTRIAL ENGG. & MANAGEMENT (Th.-01)

CHAPTER-WISE DISTRIBUTION OF PERIODS & EXPECTED MARKS

Sl. No.	Name of the Chapter	Periods as per Syllabus	Required period	Expected Marks
01	Plant Engineering	10	13	15
02	Operation Research	10	10	25
03	Inventory Control	10	11	25
04	Inspection and Quality Control	15	19	15
05	Production Planning and Control	15	12	20
TOTAL		60	65	100

Sign of Lect.

Sign of HOD.

Sign of AIC

Sign of Vice Principal

LESSON PLAN

Discipline: Mechanical Engg.	Semester: Sixth(6 th)	Name Of The Faculty: Er Ashok kumar Bhuyan
Subject: Industrial Engg & Management	No of days/ week class allotted: Six(6)	Semester from date: 14. 02.2023 to Date: 23. 05.2023 No of weeks: 15
WEEK	CLASS DAY	THEORY TOPICS
1 st	1 st	Chapter No.- 01 (Plant Engineering) Selection of Site of Industry.
	2 nd	Define plant layout.
	3 rd	Describe the objective of plant layout.
	4 th	Describe the principles of plant layout.
	5 th	Explain Process Layout & Product Layout
	6 th	Explain Combination Layout.
2 nd	1 st	Techniques to improve layout.
	2 nd	Principles of material handling equipment.
	3 rd	Plant maintenance.
	4 th	Importance of plant maintenance.
	5 th	Break down maintenance.
	6 th	Preventive maintenance.
3 rd	1 st	Scheduled maintenance
	2 nd	Review Class
	3 rd	Possible question answer discussion
	4 th	Chapter No.- 02 (Operations Research) Introduction to Operations Research and its applications.
	5 th	Define Linear Programming Problem,
	6 th	Solution of L.P.P. by graphical method.
4 th	1 st	Problem 1
	2 nd	Problem 2
	3 rd	Monthly test 01
	4 th	Evaluation of Project completion time by Critical Path Method
	5 th	Evaluation of Project completion time by PERT
	6 th	Problem
5 th	1 st	Explain distinct features of PERT with respect to CPM
	2 nd	Review Class
	3 rd	Possible question answer discussion
	4 th	Chapter No.- 03 (Inventory Control) Classification of inventory.
	5 th	Objective of inventory control.
	6 th	Describe the functions of inventories.
6 th	1 st	Benefits of inventory control.
	2 nd	Costs associated with inventory.
	3 rd	Terminology in inventory control

	4 th	Explain economic order quantity for Basic model.
	5 th	Derive economic order quantity for Basic model.
	6 th	Solve numerical
7 th	1 st	Define and Explain ABC analysis
	2 nd	Graph of ABC analysis
	3 rd	Monthly test 02
	4 th	Review Class
	5 th	Possible question answer discussion
	6 th	Chapter No.- 04 (Inspection and Quality control) Define Inspection and Quality control
8 th	1 st	Describe planning of inspection.
	2 nd	Describe types of inspection.
	3 rd	Advantages and disadvantages of quality control.
	4 th	Study of factors influencing the quality of manufacture
	5 th	Explain the Concept of statistical quality control, Control charts (X, R - charts).
	6 th	Explain the Control charts (P - charts).
9 th	1 st	Explain the Control charts (C - charts).
	2 nd	Methods of attributes.
	3 rd	Concept of ISO 9001-2008.
	4 th	Quality management system,
	5 th	Registration /certification procedure
	6 th	Benefits of ISO to the organization.
10 th	1 st	JIT, Six sigma
	2 nd	7S
	3 rd	Monthly test 03
	4 th	Lean manufacturing
	5 th	Solve related problems
	6 th	Solve related problems
11 th	1 st	Solve related problems
	2 nd	Review Class
	3 rd	Possible question answer discussion
	4 th	Chapter No.- 05 (Production Planning and control) Introduction
	5 th	Major functions of production planning and control
	6 th	Methods of forecasting
12 th	1 st	Routing
	2 nd	Scheduling
	3 rd	Dispatching
	4 th	Controlling
	5 th	Types of production
	6 th	Mass production
13 th	1 st	Monthly test 04
	2 nd	Batch production

	3 rd	Job order production
	4 th	Principles of product and process planning
	5 th	Possible question answer discussion
	6 th	Revision ch 1
14 th	1 st	Revision ch 1
	2 nd	Revision ch 2
	3 rd	Revision ch 2
	4 th	Revision ch 2
	5 th	Revision ch 3
	6 th	Revision ch 3
15 th	1 st	Revision ch 3
	2 nd	Revision ch 4
	3 rd	Revision ch 5
	4 th	Revision ch 5
	5 th	Previous year question discussion
	6 th	Previous year question discussion