

8ТН

1ST 2ND

3RD

4TH

GOVERNMENT POLYTECHNIC, KORAPUT

100 50	DEPARTMENT OF MECHANICAL ENGINEERING		
Discipline: MECHANICAL ENGG	Semester: 6 TH	Name of the Teaching Faculty: M. KRICHNA PAO	
Subject: INDUSTRIAL ENGG. & MANAGEMENT	No. of days/per week class allotted: 4	Semester From date: 20/14/21. To Date: 63/8/21. No. of Weeks:	
COURSE OUTCOMES	CO2: OPTIM CO3: UNDE CO4: USE C CO5: HOW T	RSTAND THE BASIC CONCEPT ABOUT PLANT SETUP & MACHINES. IIZING RESOURCE UTILIZATIONS & IMPROVING PRODUCTIVITY. RSTAND STOCK MANAGEMENT & MAINTENANCE OF PLANT. HARTS TO RECORD THE QUALITY OF PRODUCTS. TO ELIMINATE UNPRODUCTIVE ACTIVITIES & UNDERSTANDING OF PRODUCTS & PROCESSES.	
Week	Class Day	Theory/Practical Topics	
1 ST	1 ST 2 ND 3 RD	SELECTION OF INDUSTRY SITE, PLANT LAYOUT-OBJ. & PRINCIPLES EXPLAIN PROCESS, PRODUCT & COMBINATION LAYOUT TECHNIQUES TO IMPROVE LAYOUT PRINCIPLES OF MATERIAL HANDLING EQUIPMENT	
2 ND	4 TH	PLANT MAINTENANCE	
-	3 RD	PLANT MAINTENANCE (CONTD) IMPORTANCE OF PLANT MAINTENANCE BREAKDOWN MAINTENANCE	
3RD	aND	PREVENTIVE MAINTENANCE & SCHEDULED MAINTENANCE QUIZ & ASSIGNMENT - 1	
	3RD 4TH	INTRODUCTION TO OPERATIONS RESEARCH & ITS APPLICATIONS DEFINE LINEAR PROGRAMMING PROBELM	
4 TH	OND	SOLUTION OF LPP BY GRAPHICAL METHOD SOLUTION OF LPP BY GRAPHICAL METHOD (CONTD) EVALUATION OF PROJECT COMPLETION TIME BY CPM & PERT	
	4 TH	EVALUATION OF PROJECT COMPLETION TIME BY CPM & PERT	
5 TH	2 ND	EXPLAIN DISTINCT FEATURES OF PERT W.R.T CPM EXPLAIN DISTINCT FEATURES OF PERT W.R.T CPM	
	3 ¹⁰	REVISION QUIZ & ASSIGNMENT - II	
6 TH	2 ND 3 RD	CLASSIFICATION OF INVENTORY OBJECTIVE OF INVENTORY CONTROL DESCRIBE THE FUNCTIONS OF INVENTORIES BENEFITS OF INVENTORY CONTROL	
7 TH	187	COSTS ASSOSCIATED WITH INVENTORY TERMINOLOGY IN INVENTORY CONTROL	
		EXPLAIN & DERIVE ECONOMIC ORDER QUANTITY (EOQ)	
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EXPLAIN & DERIVE EOQ FOR BASIC MODEL (CONTD...)
DEFINE & EXPLAIN ABC ANALYSIS

DEFINE INSPECTION & QUALITY CONTROL

DESCRIBE PLANNING OF INSPECTION

QUIZ & ASSIGNMENT - III

9ТН	1ST	DESCRIBE TYPES OF INSPECTION OF OUALITY CONTROL
	2 ND	ADVANTAGES & DISADVANTAGES OF VANIJEACTURE
	3RD	ADVANTAGES & DISADVANTAGES OF QUALITY CONTROL STUDY OF FACTORS INFLUENCING QUALITY OF MANUFACTURI EXPLAIN STATISTICAL QUALITY CONTROL, CONTROL CHARTS
	4 TH	STUDY OF FACTORS INFLUENCING QUALITY OF MARCONING EXPLAIN STATISTICAL QUALITY CONTROL, CONTROL CHARTS CONTROL CHARTS (Y. P. P.& C. CHARTS) (CONTD)
10 TH	1 ST	CONTROL CHARTS (X, R, P & C CHARTS) (CONTD)
	2 ND	METHOD OF ATTRIBUTES
	3RD	CONCEPT OF ISO 9001 - 2008
11TH	4TH	QUALITY MANAGEMENT SYSTEM
11	181	REGISTRATION/CERTIFICATION PROCEDURE
	2 ND	BENEFITS OF ISO TO THE ORGANISATION
	3RD	JIT, 6 SIGMA, 7S, LEAN MANUFACTURING
12 ^m	4 TH	NUMERICALS
12	1 1 1	QUIZ & ASSIGNMENT - IV
	2 ND	INTRODUCTION OF PRODUCTION PLANNING &
	3RD	CONTROL MAJOR ELINCTIONS OF PROPRIETION AND PROPRIETION
	4 TH	MAJOR FUNCTIONS OF PRODUCTION PLANNING & CONTROL METHODS OF FORECASTING
13 TH	1 ST	ROUTING
	2 ND	SCHEDULING
	3 RD	DISPATCHING
4 17	4 TH	CONTROLLING
14 TH	1 ST	
14		TYPES OF PRODUCTION
_	2 ND	MASS PRODUCTION
_	3 RD	BATCH PRODUCTION
	4 TH	JOB ORDER PRODUCTION
15 TH	1 ST	PRINCIPLES OF PRODUCT & PROCESS PLANNING
Γ	2 ND	QUIZ & ASSIGNMENT - V
	3 RD	REVISION
	4 TH	REVISION

LEARNING RESOURCES:

INDUSTRIAL ENGINEERING & MANAGEMENT, O.P KHANNA, DHANPAT RAI & SONS.

INDUSTRIAL ENGINEERING & PRODUCTION MANAGEMENT, MART & TELSANG, S.CHAND

STATISTICAL QUALITY CONTROL, M. MAHAJAN, DHANPAT RAI & SONS

Principal

WEBSITE RESOURCES:

Sign. Of Faculty concerned

Sharemela Rat Sign. Of HOD I/C