

GOVERNMENT POLYTECHNIC, KORAPUT

Im a	DEPARTMENT OF MECHANICAL ENGINEERING		
Discipline: MECHANICAL ENGG	Semester: 6 TH	Name of the Teaching Faculty: M. KRISHNA PAO	
Subject: INDUSTRIAL ENGG. & MANAGEMENT	No. of days/per week class allotted: 4	Semester From date: 20/4/21. To Date: 03/8/21. No. of Weeks:	
COURSE OUTCOMES	CO1: UNDERSTAND THE BASIC CONCEPT ABOUT PLANT SETUP & MACHINES. CO2: OPTIMIZING RESOURCE UTILIZATIONS & IMPROVING PRODUCTIVITY. CO3: UNDERSTAND STOCK MANAGEMENT & MAINTENANCE OF PLANT. CO4: USE CHARTS TO RECORD THE QUALITY OF PRODUCTS. CO5: HOW TO ELIMINATE UNPRODUCTIVE ACTIVITIES & UNDERSTANDING DESIGN OF PRODUCTS & PROCESSES.		
Week	Class Day	Theory/Practical Topics	
1ST	1 ST	SELECTION OF INDUSTRY SITE, PLANT LAYOUT-OBJ. & PRINCIPLES	

Week	Class Day	Theory/Practical Topics
1ST	1 ST	SELECTION OF INDUSTRY SITE, PLANT LAYOUT-OBJ. & PRINCIPLES
	2 ND	EXPLAIN PROCESS, PRODUCT & COMBINATION LAYOUT
	3 RD	TECHNIQUES TO IMPROVE LAYOUT
	4 TH	PRINCIPLES OF MATERIAL HANDLING EQUIPMENT
2 ND	1 ST	PLANT MAINTENANCE
	2 ND	PLANT MAINTENANCE (CONTD)
	3 RD	IMPORTANCE OF PLANT MAINTENANCE
	4 TH	BREAK DOWN MAINTENANCE
3 RD	1 ST	PREVENTIVE MAINTENANCE & SCHEDULED MAINTENANCE
	2 ND	QUIZ & ASSIGNMENT - 1
	3RD	INTRODUCTION TO OPERATIONS RESEARCH & ITS APPLICATIONS
	4 TH	DEFINE LINEAR PROGRAMMING PROBELM
470	1 ST	SOLUTION OF LPP BY GRAPHICAL METHOD
4 TH	2 ND	SOLUTION OF LPP BY GRAPHICAL METHOD (CONTD)
	3 RD	EVALUATION OF PROJECT COMPLETION TIME BY CPM & PERT
	7	EVALUATION OF PROJECT COMPLETION TIME BY CPM & PERT
	4 TH	(CONTD)
5 TH	1ST	EXPLAIN DISTINCT FEATURES OF PERT W.R.T CPM
	2 ND	EXPLAIN DISTINCT FEATURES OF PERT W.R.T CPM
	310	REVISION
	4"	QUIZ & ASSIGNMENT - II
6 ^{тн}	1 ST	CLASSIFICATION OF INVENTORY
	2 ND	OBJECTIVE OF INVENTORY CONTROL
	3RD	DESCRIBE THE FUNCTIONS OF INVENTORIES
	4TH	BENEFITS OF INVENTORY CONTROL
7 ^{тн}	1sr	COSTS ASSOSCIATED WITH INVENTORY
	2 ND	TERMINOLOGY IN INVENTORY CONTROL
	3RD	EXPLAIN & DERIVE ECONOMIC ORDER QUANTITY (EOQ)
	4TH	EXPLAIN & DERIVE EOQ FOR BASIC MODEL (CONTD)
8тн	1st	DEFINE & EXPLAIN ABC ANALYSIS
	2 ND	QUIZ & ASSIGNMENT - III
The sections	3RD	DEFINE INSPECTION & QUALITY CONTROL
	4TH	DESCRIBE PLANNING OF INSPECTION

9тн	1 ST	DESCRIBE TYPES OF INSPECTION DESCRIBE TYPES OF INSPECTION DESCRIBE TYPES OF OUALITY CONTROL
	2 ND	DESCRIBE TYPES OF INSPECTION ADVANTAGES & DISADVANTAGES OF QUALITY CONTROL STRUNG OF FACTORS INFLUENCING QUALITY OF MANUFACTURE
	3RD	ADVANTAGES & DISADVANTAGES OF QUALITY CONTROL CHARTS STUDY OF FACTORS INFLUENCING QUALITY OF MANUFACTURI EXPLAIN STATISTICAL QUALITY CONTROL, CONTROL CHARTS
	4TH	STUDY OF FACTORS INFLUENCING QUALITY OF MAINTENANCE EXPLAIN STATISTICAL QUALITY CONTROL, CONTROL CHARTS (X. R. P.& C. CHARTS) (CONTD)
1014	1ST	CONTROL CHARTS (X, R, P & C CHARTS) (CONTD)
	2 ND	METHOD OF ATTRIBUTES
4 6	3RD	CONCEPT OF ISO 9001 - 2008
11 TH	4TH	QUALITY MANAGEMENT SYSTEM
11	187	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 81	QUIZ & ASSIGNMENT - IV
	2 ND	INTRODUCTION OF PRODUCTION PLANNING &
	3RD	CONTROL
	4TH	MAJOR FUNCTIONS OF PRODUCTION PLANNING & CONTROL
13 TH	1 ST	METHODS OF FORECASTING
13	2 ND	ROUTING
		SCHEDULING
	3 RD	DISPATCHING
	4 TH	CONTROLLING
14 TH	1 ST	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
	2 ND	QUIZ & ASSIGNMENT - V
Γ	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

WEBSITE RESOURCES:

Sign. Of Faculty

concerned

Sharemela Rati

Principal