

"PVC" NSSK G.P. BILASPUR at KALOL		Department :- Electrical Engg. (6 th sem)		Subject- PPC (ME0E304)		Remarks
SYLLABSE COVERRAGE		Course- Diploma		Duration -3 Years		
		Total Periods -56 (L - 42 , DCS - 14)		Theory-56		
Sr no.	Period No's	Topic	Details	Instruction Reference	Additional Study Recommended	
1	1-13	Introduction Plant Location and Layout	Types of production. - Job, batch and mass production; Concept of planning, scheduling, routing, dispatching and follow up; Break even analysis Factors affecting the site selection of plant; Factors affecting plant layout; Types of layout - Process, product, combination and fixed position.	Industrial Engineering and Management by O.P. Khanna; Dhanpat Rai and Sons, New Delhi	Industrial Engineering and Management by T.R. Banga and SC Sharma; Khanna Publishers, Delhi	
2	14-25	Inventory Control	Material purchasing; store keeping; functions and duties of store department; Definition of inventory; Types of inventory; ABC analysis; Procurement cost; carrying charges; lead-time; reorder point; Economic ordering quantity; simple direct numerical problems; Concept of JIT	-----do-----	-----do-----	
3	26-36	Inspection and Quality Control	Inspection needs; types of inspection; stages of inspection; Statistical quality control; Process capability; Control charts for variables - X and R chart; control chart for fraction defectives (P chart); control chart for number of defects (C chart).	-----do-----	-----do-----	
4	37-47	Material Handling Repair and maintenance	Principles of material handling; Hoisting equipment - Fork lift truck, cranes; Conveying equipment - Package conveyor, gravity roller conveyors, screw conveyors, flight or scraper conveyors, bucket conveyors, belt conveyors, and pneumatic conveyors. Objectives and importance of maintenance; Different types of maintenance; Nature of maintenance problem; Range of maintenance activities; Procedure of preventive maintenance; Schedules of preventive maintenance; Advantages of preventive Maintenance	-----do-----	A Text Book of Reliability and Maintenance Engineering by A Manna, Prentice Hall of India	

5	48-56	Cost estimation and control	Functions of cost estimation; Estimation procedure; Elements of cost; ladder of costs; Depreciation-concept and methods of calculating depreciation; Overhead expenses; Cost control - capital cost control (planning and scheduling) operating cost control.	Mechanical Costing, Estimation and Project Planning by CK Singh; Standard Publishers. New Delhi		
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Approved	HOD Sign
Date : 27/01/25	<i>Chavara</i>