

SUDDHANANDA ENGINEERING AND RESEARCH CENTER, BBSR

Discipline : Mechanical ENGG.		Semester:6thSem	Name of the Teaching Faculty: Pulin Gantayat
Subject:IE&M		No.ofDays/ perweekclassallotted:04	
MONTH	Week	Day	Topics
FEBRUARY	3rd	2nd	PLANTENGINEERING:
		3rd	1.1Selectionof Siteof Industry
		4th	1.2Defineplantlayout.
	4th	1st	1.3Describetheobjectiveandprinciplesofplantlayout
		2nd	1.4ExplainProcessLayout,ProductLayoutandCombinationLayout.
		3rd	1.5Techniques toimprove layout
		4th	1.6Principlesofmaterialhandlingequipment
	5th	1st	1.7Plantmaintenance.
		2nd	1.7.1Importanceofplantmaintenance
	MARCH	1st	3rd
2nd		4th	1.7.3Preventivemaintenance.
3rd		1st	1.7.4Scheduled maintenance
		2nd	2.OPERATIONS RESEARCH
		3rd	2.1IntroductiontoOperationsResearchanditsapplications.
		4th	2.2DefineLinearProgrammingProblem,
		1st	2.3SolutionofL.P.P.bygraphicalmethod.
	2ND	2.4EvaluationofProjectcompletiontimebyCriticalPathMethodandPERT	

	4th	3rd	2.5 Explain distinct features of PERT with respect to CPM.
		5th	3. INVENTORY CONTROL:
	5th	1st	3.1 Classification of inventory
		2nd	3.2 Objective of inventory control.
		3rd	3.3 Describe the functions of inventories
APRIL	2nd	1st	3.4 Benefits of inventory control.
		2nd	3.5 Costs associated with inventory.
		3rd	3.6 Terminology in inventory control
		4th	3.7 Explain and Derive economic order quantity for Basic model. (Solve numerical)
	3rd	1st	3.8 Define and Explain ABC analysis.
		2nd	REVISION
		3rd	4. INSPECTION AND QUALITY CONTROL
	4TH	4th	4.1 Define Inspection and Quality control.
		1st	4.2 Describe planning of inspection.
		2nd	4.3 Describe types of inspection
		3rd	4.4 Advantages and disadvantages of quality control.
		4th	4.5 Study of factors influencing the quality of manufacture
	5th	1st	4.6 Explain the Concept of statistical quality control, Control charts (X, R, P and C- charts).
		2nd	4.7 Methods of attributes
		3rd	4.8 Concept of ISO 9001-2008.
		4th	4.9.1 Quality management system, Registration/certification procedure
1ST	1st	4.9.2 Benefits of ISO to the organization.	
	2nd	4.9.3 JIT, Six sigma, 7S, Lean manufacturing	
	3rd	4.9.4 Solve related problems	
	4th	REVISION	
2ND	1st	5.0 PRODUCTION PLANNING AND CONTROL	
	2nd	5.1 Introduction, 5.2 Major functions of production planning and control	

MAY		3rd	INTERNAL
		4th	5.3Methodsofforecasting
	3rd	1st	5.3.1Routing
		3rd	5.3.2Scheduling
		4th	5.3.3Dispatching
		4th	5.3.4Controlling
	4TH	1st	5.4.1Massproduction
		2nd	5.4.2BatchProduction
		3rd	CLASSTEST-2
		4th	5.4.3Joborder production

