UMA CHARAN PATNAIK ENGINEERING SCHOOL, BERHAMPUR

DEPARTMENT OF MECHANICAL ENGINEERING (2024-2025) LESSONPLAN

_	1	LEGOUPLAIN
Discipline: Mechanical engg.	Semester: 6th	Name of the Teaching faculty: DEBASHISH BISI
Subject: INDUSTRIAL ENGG.AND MANAGEME NT (Th-1)	No of Days /Week class alloted:4	No of weeks: 15
1\$T	1st	1. PLANT ENGINEERING (Chapter-1):
		Selection of Site of Industry. 1.2Defineplantlayout.
		1.3Describetheobjectiveandprinciplesofplant layout.
	2nd	445 1: 5
	3rd	1.4ExplainProcessLayout,ProductLayoutandCombinationLayout.
		1.5Techniquestoimprovelayout.
	4th	1.6Principles of material handling equipment.
	1st	1.7Plantmaintenance.
		1.7.1Importanceofplantmaintenance.
2ND	2nd	1.7.2Breakdownmaintenance.
	3rd	1.7.3Preventivemaintenance.
	4th	1.7.4Scheduledmaintenance.
	1st	Classtest-1
	2nd	OPERATIONSRESEARCH:(chapter-2) IntroductiontoOperationsResearchanditsapplications.
	3rd	2.2DefineLinearProgrammingProblem,
3RD	4th	2.3SolutionofL.P.P.bygraphicalmethod.
4TH	1st	2.3SolutionofL.P.P.bygraphicalmethod.
	2nd	2.4 EvaluationofProjectcompletiontimebyCriticalPathMethod
	3rd	Solve numerical
	4th	2.4EvaluationofProjectcompletiontimebyPERT (Simple problems)-
	1st	Solve numerical
5TH	2nd	2.5ExplaindistinctfeaturesofPERTwithrespecttoCPM.
	3rd	Classtest-2
	4th	4. INVENTORYCONTROL:(chapter-3)

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		Classificationofinventory.
6ТН	1st	3.20bjectiveofinventorycontrol.
	2nd	3.3Describethefunctionsof inventories.
		3.4Benefitsofinventorycontrol.
	3rd	
		3.5Costsassociatedwithinventory
	4th	3.6Terminologyininventorycontrol
7ТН		3.7ExplainandDeriveeconomicorderquantityforBasicmodel
	1st	3.7 Explainand betwee continuor dei quantity for basicinodei
		Solve numerical
	2nd	3.8DefineandExplainABCanalysis
		Classtest-3
		Classicsi-3
	3rd	4. INSPECTIONANDQUALITYCONTROL:(chapter-4)
		4. INOI EO HOW WE GOVERN TOOM THOSE (Grapter 4)
	4th	Define Inspection and Qualitycontrol.
		4.2Describe planning of inspection
8ТН	1st 2nd	
	Zilu	4.3Describetypesof inspection.
	3rd	4.3Describetypesof inspection.
	4th	4.40 december of the advantage of the adv
	1st	4.4Advantagesanddisadvantagesofqualitycontrol.
		4.5Studyoffactorsinfluencingthequalityof manufacture.
	2nd	4.6ExplaintheConceptof statistical quality control,
оты	3rd	Control charts (X, R, P and C - charts).
9ТН	4	4.7Methodsof attributes
	4th	
	1st	4.00 4.000004.0000
	.30	4.8ConceptofISO9001-2008.
	2nd	4.9.1Qualitymanagementsystem,Registration/certificationprocedure.
10TH	3rd	4.9.2BenefitsofISOtotheorganization.
	4th	4.9.3JIT,
	1st	4.9.3 Six sigma,7S,Leanmanufacturing
11TH	131	4.9.4Solverelatedproblems.
	2nd	
	3rd	Classtest-4
	4th	PRODUCTIONPLANNINGANDCONTROL(chapter-5)

		Introduction
12th	1st	Major functions of production planning and control
	2nd	5.3Methodsofforecasting
	3rd	5.3.1Routing
	4th	5.3.2Scheduling
13th	1st	5.3.3Dispatching
	2nd	5.3.4Controlling
	3rd	5.4Typesof production
	4th	5.4.1Massproduction
14th	1st	5.4.2Batchproduction
	2nd	5.4.3Joborderproduction
	3rd	5.5Principlesofproductandprocessplanning.
	4th	Classtest-5
15th	1st	Doubt clearing class.
	2nd	Doubt clearing class.
	3rd	Previous year question discussion
	4th	Previous year question discussion