

VGERI,BAHANAGA,BALASORE
Department of Mechanical Engineering
LESSON PLAN FOR SUMMER-2026

Discipline :MECHANICAL ENGG	Semester: 6 TH	NameoftheTeachingFaculty: Er. Chandaneswar Patra
Subject:INDUSTRIAL ENGG & QUALITY CONTROL	No. of days/per weekclass allotted: 04	Semester From date : 22.12.2025 To Date: 18.04.2026 No. of Weeks: 15
Week	Class Day	Theory/PracticalTopics
1 ST	1 ST	IntroductiontoIndustrialEngg.andQualitycontrol Introduction
	2 ND	to Plant location & Layout
	3 RD	Defineplantlocationandlayout
	4 TH	Describe the features governing plant location
2 ND	1 ST	Describethefeaturesgoverningplantlocationcontd.
	2 ND	Describe the objectives of a good plant layout
	3 RD	Describe the principles of a plant layout
	4 TH	Explainprocess&productlayout
	1 ST	
3 RD	2 ND	Explain combination layout
	3 RD	Previous year question discussion, Assignment
	4 TH	Introductiontooperationsresearch&itsapplications
	1 ST	Define LPP, formulation of LPP
4 TH	2 ND	ExplaintheprocedureofsolutionofLPPbygraphical method
	3 RD	Problem solving
	4 TH	Problem
	1 ST	solvingDefinePERTan
5 TH	2 ND	dCPM
	3 RD	Explain the terms associated with PERT and CPM
	4 TH	Evaluationofproject completiontimebyPERTandCPM
	1 ST	Problem solving
6 TH	2 ND	Problemsolving
	3 RD	Problemsolving
	4 TH	Differentiate between PERT and CPM
7 TH	1 ST	Previousyearquestiondiscussion,Assignment
	2 ND	Introduction to inventory control
	3 RD	Defineandclassifyinventory
	4 TH	Explainthe functionsandobjectivesofinventorycontrol Define
8 TH	1 ST	economic order quantity
	2 ND	DeriveEOQforbasicmodel Problem
	3 RD	
	4 TH	solving

	1 ST	Problemsolving
	2 ND	DefineandexplainABCanalysis
9 TH	3 RD	Previousyearquestiondiscussion,Assignment
		Introduction to plant maintenance
	4 TH	Explaintheobjectivesofplantmaintenance Describetheduties,functionsandresponsibilitiesofplant
	1 ST 2 ND	maintenance department Describetheduties,functionsandresponsibilitiesofplant
10 TH	3 RD	maintenance department contd.
	4 TH	Describe the types of plant maintenance
		Describethetypesofplant maintenancecontd.
	2 ND	Previousyearquestiondiscussion, Assignment
11 TH	3 RD	Explainthefactorsinfluencing thequalityofmanufacture
	4 TH	Explaintheconceptofstatisticalqualitycontrol
		Explainthe different typesofcontrolcharts
12 TH	1 ST	Explainthe differenttypesofcontrolchartscontd.
	2 ND	Problemsolving
	3 RD	Problemsolving
	4 TH	Previousyearquestiondiscussion, Assignment
13 TH	1 ST	Introductiontoqualitymanagement
	2 ND	ExplaintheconceptofTQM
	3 RD	ExplaintheconceptofISO9000/14000,itsevolution and implications
	4 TH	ExplaintheconceptofISO9000/14000,itsevolution and implicationscontd
14 TH	1 ST	ExplaintheconceptofJITmanufacturing
	2 ND	Explaintheconceptofsixsigma,7S
	3 RD	Explaintheconceptofleanmanufacturing
	4 TH	Previousyearquestiondiscussion, Assignment
15 TH	1 ST	Importantquestiondiscussion
	2 ND	Importantquestiondiscussion
	3 RD	Revision
	4 TH	Revision