GOVERNMENTPOLYTECHNICJAJPUR A/P:Ragadi,Block:Korei,Dist.:Jajpur,Odisha-755019 Website:https://www.gpjajpur.orgE-mail:principalgpjajpur@yahoo.co.inContact:9437155107

DEPARTMENT OF CIVIL ENGINEERING

LESSONPLAN

Discipline: CivilEngg.	Semester: 6th	Name of the Teaching faculty: Rajashree Nayak	
Subject: Construction Management Th-2	No of Days/Week class alloted: 4	Semester from Date: 16/01/2024 To Date:26/04/2024 No of weeks:15	
Week	Class Day	Topics	
	1st	IntroductionToConstructionManagement Aimsandobjectivesofconstructionmanagement.	
	2nd	Functionsofconstruction management.	
1st	3rd	Theconstructionteamcomponents- owner,engineer,architect,contractor-theirfunctionsand interrelationship and jurisdiction.	
	4th	Resourcesforconstructionmanagement- men,machines,materials,mone	
	1st	ConstructionalPlanning ImportanceofConstructionPlanning	
2nd	2nd	Developingworkbreakdownstructureforconstructionwork	
2110	3rd	ConstructionPlanningstages-Pre-tenderstage,Post-tenderstage.	
	4th	ConstructionschedulingbyBarcharts-preparationofBarChartsfor simpleconstructionworks.	
	1st	Preparationofschedulesforlabourmaterials,machinery,finance for small works	
	2nd	LimitationofBar charts	
3rd	3rd	Constructionschedulingbynetworktechniques-definationofterms ,PERTandCPMtechniques,advantagesanddisadvantagesoftwo techniques, network analysis, estimation of time and critical path, application of PERT and CPM techniques in sample construction works.	
	4th	MaterialsandStoresManagement ClassificationofStores-storageofstock.	
	1st	ClassificationofStores-storageofstock.	
	2nd	Issueofmaterials-indent,invoice,bincard	
4th	3rd	Issueofmaterials-indent,invoice,bincard	
	4th	ConstructionSiteManagement JobLayout-Objectives,Reviewplans	
	1st	specifications,Layoutofequipments.	
C+h	2nd	Locationofequipment, organizing labouratsite.	
5th	3rd	Joblayoutfordifferentconstruction sites.	
	4th	Principleofstoringmaterialatsite.	
6th	1st	ConstructionOrganization: Introduction–Characteristics,Structure,importance.	
	2nd	Organizationtypes-lineandstaff,functionsandtheircharacteristics	

	3rd	Principlesoforganization-meaningandsignificanceofterms- control, authority, responsibility, job & task.
	4th	Leadership-necessity, styles of leadership, role of leader
7th	1st	Humanrelations-relationswithsubordinates,peers,Supervisors, characteristics of group behavior, mob psychology, handling of grievances,absenteeism,labourwelfare.
	2nd	Conflictsinorganization-genesisofconflicts,types-intrapersonal, interpersonal, intergroup, resolving conflicts.
	3rd	ConstructionLabourandLabourManagement: PreparingLabourschedule
	4th	Essentialstepsforoptimumlabouroutput
	1st	Labourcharacteristics
	2nd	Wages&theirpayment
8th	3rd	Labourincentives
	4th	Motivation-Classificationofmotives, different approaches to motivation.
	1st	placingofconcrete,compactionofconcrete(vibrators) EquipmentManagement Preparingtheequipment schedule
9th	2nd	Identificationofdifferentalternativeequipment
501	3rd	Importanceof Owning&operatingcostsinmakingdecisionsfor hiring & purchase of equipment
	4th	ImportanceofOwning&operatingcostsinmakingdecisionsfor hiring&purchaseofequipment
	1st	Inspectionandtestingofequipment
	2nd	Equipmentmaintenance
10th	3rd	QualityControl Conceptofqualityin construction
	4th	QualityStandards-duringconstruction,afterconstruction, destructive&nondestructivemethods.
	1st	QualityStandards-duringconstruction,afterconstruction, destructive & non destructive methods.
44.1	2nd	QualityStandards-duringconstruction,afterconstruction, destructive&nondestructivemethods.
11th	3rd	QualityStandards-duringconstruction,afterconstruction, destructive & non destructive methods.
	4th	MonitoringProgress Programmeandprogressofwork
	1st	Workstudy
	2nd	Analysisandcontrolofphysicalandfinancialprogress corrective measures.
12th	3rd	Analysisandcontrolofphysicalandfinancialprogresscorrective measures.
	4th	Analysisandcontrolofphysicalandfinancialprogresscorrective measures.
	1st	Analysisandcontrolofphysicalandfinancialprogresscorrective measures.
13th	2nd	SafetyManagementInConstruction Importanceof safety
	3rd	causesandeffectsofaccidentsinconstruction works
	4th	Safetymeasuresinworksitesforexcavation,scaffolding,formwork,

		fabricationanderection, demolition.
14th	1st	Developmentofsafetyconsciousness
	2nd	Safetylegislation-Workman'scompensationact,contractlabour act.
	3rd	RoleofVulnerabilityAtlasofIndiainconstructionprojects IntroductiontoVulnerabilityAtlasofIndia,Conceptsofnatural hazardsanddisastersandvulnerabilityprofileofIndia.Definitionof disaster related
	4th	Earthquake hazard and vulnerability, Magnitude and intensity scales of earthquake, seismic zones, earthquake hazard maps, typesofstructuresanddamageclassification, effects inhousing and resistant measures.
15th	1st	Wind/Cyclonehazardandvulnerability,windspeedand pressures,windhazardandcycloneoccurrencemaps,storm surveys and cyclone resistant measures.
	2nd	Floodhazardandvulnerability,FloodhazardandFloodprone areasofthecountry,Generalprotectionofhabitantsand flood resistant construction.
	3rd	Landslides, Tsunamisand Thunderstormhazards and vulnerability, Landslide & Thunderstormincidence maps, Measures against Tsunami hazards.
	4th	Housingvulnerabilityrisktablesandusageofvulnerability atlasofIndia,InclusionofvulnerabilityatlasinTender documents.
16th	1st	CLASSTEST, PREVIOUSYEARQUESTIONS, QUIZ

LearningResources:

SINo.	AuthorName	NameoftheBook
1	M.R.Samal&R.L. Sahoo	ConstructionManagement
2	PSGahlot&BMDhir	Constructionplanningandmanagement
3	RobertLPeurifoy& WilliumBLedbetter	ConstructionPlanningequipmentandmethods

Rajashree Nayak FACULTYSIGNATURE