GOVERNMENTPOLYTECHNICJAJPUR

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DEPARTMENTOFCIVILENGINEERING LESSONPLAN

Discipline: Civil Engg.	Semester: 6th	Name of the Teaching faculty: Rajashree Nayak
Subject: Construction Management Th-2	No of Days/Week class alloted: 4	Semester from Date: 04.02.2025 To Date:17.05.2025 Noofweeks:15
Week	ClassDay	Topics
	1st	Introduction To Construction Management Aims and objectives of construction management.
	2nd	Functions of construction management.
1st	3rd	The const ructionteamcomponents- owner,engineer,architect,contractor-theirfunctionsand interrelationship and jurisdiction.
	4th	Resourcesforconstructionmanagement- men,machines,materials,mone
	1st	ConstructionalPlanning ImportanceofConstructionPlanning
2nd	2nd	Developingworkbreakdownstructureforconstructionwork
ZIIU	3rd	ConstructionPlanningstages-Pre-tenderstage,Post-tenderstage.
	4th	ConstructionschedulingbyBarcharts-preparationofBarChartsfor simpleconstructionworks.
	1st	Preparationofschedulesforlabourmaterials,machinery,financefor small works
	2nd	LimitationofBarcharts
3rd	3rd	Constructionschedulingbynetworktechniques-definationofterms ,PERTandCPMtechniques,advantagesanddisadvantagesoftwo techniques,networkanalysis,estimationoftimeandcriticalpath, applicationofPERTandCPMtechniquesinsampleconstruction works.
	4th	MaterialsandStoresManagement ClassificationofStores-storageofstock.
	1st	Classification of Stores-storage of stock.
4th	2nd	Issueofmaterials-indent,invoice,bincard
	3rd	Issueofmaterials-indent,invoice,bincard
	4th	ConstructionSiteManagement JobLayout-Objectives,Reviewplans
	1st	specifications,Layoutofequipments.
5th	2nd	Locationofequipment,organizinglabouratsite.
	3rd	Joblayoutfordifferentconstructionsites.
	4th	Principleofstoringmaterialatsite.
6th	1st	ConstructionOrganization: Introduction—Characteristics,Structure,importance.
	2nd	Organizationtypes-lineandstaff,functionsandtheircharacteristics

	3rd	Principlesoforganization-meaningandsignificanceofterms-control, authority, responsibility, job & task.
	4th	Leadership-necessity,stylesofleadership,roleofleader
7th	1st	Humanrelations-relationswithsubordinates, peers, Supervisors, characteristics of group behavior, mobpsychology, handling of grievances, absentee is m, labour welfare.
	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 Preparingtheequipmentschedule
9th	2nd	Identificationofdifferentalternativeequipment
3 111	3rd	ImportanceofOwning&operatingcostsinmakingdecisionsforhiring& purchase of equipment
	4th	ImportanceofOwning&operatingcostsinmakingdecisionsfor hiring&purchaseofequipment
	1st	Inspectionandtestingofequipment
	2nd	Equipmentmaintenance
10th	3rd	QualityControl Conceptofqualityinconstruction
	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 &nondestructive methods.
	4th	MonitoringProgress Programmeandprogressofwork
	1st	Workstudy
12th	2nd	Analysisandcontrolofphysicalandfinancialprogresscorrective measures.
	3rd	Analysisandcontrolofphysicalandfinancialprogresscorrectivemeasures.
	4th	Analysisandcontrolofphysicalandfinancialprogresscorrective measures.
13th	1st	Analysisandcontrolofphysicalandfinancialprogresscorrective measures.
	2nd	SafetyManagementInConstruction Importanceofsafety
	3rd	causesandeffectsofaccidentsinconstructionworks
	4th	Safetymeasuresinworksitesforexcavation,scaffolding,formwork,

		fabricationanderection,demolition.
14th	1st	Developmentofsafetyconsciousness
	2nd	Safetylegislation-Workman'scompensationact,contractlabouract.
	3rd	RoleofVulnerabilityAtlasofIndiainconstructionprojects IntroductiontoVulnerabilityAtlasofIndia,Conceptsofnatural hazardsanddisastersandvulnerabilityprofileofIndia.Definitionof disaster related
	4th	Earthquake hazard and vulnerability, Magnitude and intensity scalesofearthquake, seismiczones, earthquake hazardmaps, typesofstructures and damage classification, effects inhousing and resistant measures.
15th	1st	Wind/Cyclonehazardandvulnerability,windspeedand pressures,windhazardandcycloneoccurrencemaps,storm surveysandcycloneresistantmeasures.
	2nd	Floodhazardandvulnerability,FloodhazardandFloodprone areasofthecountry,Generalprotectionofhabitantsandflood resistant construction.
	3rd	Landslides, Tsunamisand Thunderstormhazards and vulnerability, Landslide & Thunderstormincidence maps, Measures against Tsunami hazards.
	4th	Housingvulnerabilityrisktablesandusageofvulnerability atlasofIndia,InclusionofvulnerabilityatlasinTender documents.
16th	1st	PREVIOUSYEARQUESTIONS & ANS PRACTICE.

LearningResources:

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

RajashreeNayak FACULTYSIGNATURE