ACADEMIC SESSION : SUMMER 2023

Discipline :civil Engg.	Semest er : 6 th	Name of the Teaching Faculty : SAIBALI MISHRA
Subject : CONSTRUCTI ON MANAGEME NT	No. of days / week class allotted	Semester From date: 14/02/2023 to 23/05/2023 Nos. of Weeks : 14
Week	Class Day	Theory/ Practical Topics
1	1 st	Aims and objectives of construction management Functions of construction management
	2 nd	The construction team component owner, engineer, architect, contractor- their functions and interrelations hip and jurisdiction
	3 rd	Resourcesforconstructionmanagement-men,machines,materials,Money
	4 th	ImportanceofConstructionPlanning,Developingwork breakdownstructure forconstructionwork
2	1 st	ConstructionPlanningstages-Pre-tenderstage,Post-tenderstage
	2 nd	ConstructionschedulingbyBarcharts-preparationofBar Chartsfor simple constructionworks, LimitationofBar charts
	3 rd	Preparationofschedulesforlabourmaterials, machinery, financeforsmallworks
	4 th	Constructionschedulingbynetworktechniques- definationofterms,PERTandCPMtechniques,advantagesanddisadvantagesoft wotechniques, networkanalysis
3	1 st	estimationoftime and critical path, application of PERT and CPM techniques insample construction works
	2 nd	Classification of Stores-storageofstock
	3 rd	Issueofmaterials-indent,invoice,bincard
	4 th	Job Layout-Objectives, Reviewplans, specifications, Layoutofequipments
4	1 st	Location of equipment, organizing labour atsite
	2 nd	Joblayoutfordifferentconstructionsites

	3 rd	Principleofstoringmaterialatsite
	4 th	Introduction–Characteristics,Structure,importance
5	1 st	Organizationtypes-lineandstaff, functions and their characteristics
	2 nd	Principlesoforganization-meaningandsignificance ofterms- control,
		authority,responsibility,job&task
	3 rd	Leadership-necessity, styles of leadership, role of leader
	4 th	Human relations-relations with subordinates, Supervisors,
		characteristics of group
		behavior, mobpsychology, handling of grievances, absentee is m, labourw
		elfare
		Conflictsinorganization-genesisofconflicts,types-
6	1 st	intrapersonal, interpersonal, intergroup, resolving conflicts
0	$\frac{1}{2^{nd}}$	ClassTest
	Ζ.	Classiest
	3 rd	PreparingLabourschedule,Essentialstepsforoptimumlabouroutput
	4 th	Labourcharacteristics, Wages & their payment, Labour incentives
7	1 st	Motivation-Classificationofmotives, different approaches to Motivation
	2 nd	Preparingtheequipmentschedule
	3 rd	Identification of differental ternative equipment
	4 th	ImportanceofOwning&operatingcosts inmakingdecisions forhiring
		&purchaseofequipment
8	1 st	Inspectionandtestingofequipment
	2 nd	Equipmentmaintenance
	3 rd	Conceptofqualityinconstruction
	4 th	QualityStandards-duringconstruction
9	1 st	QualityStandards-afterconstruction
	2^{nd}	QualityStandards-destructivemethods
	3 rd	QualityStandards-nondestructivemethods
	4 th	Programmeandprogressofwork
10	1 st	Methodsof recordingprogressof work
	2 nd	Analysisof progress
	3 rd	Productivityanalysis&workstudy

	4 th	Previous semesterQuestion Discussion
	3 rd	Discussion of AssignmentQuestions
	2 nd	ClassTest
		India,Inclusionofvulnerability atlasinTenderdocuments.
14	1 st	Housingvulnerability risktables and usage of vulnerability at lasof
		Tsunamihazards.
		&Thunderstormincidencemaps,Measuresagainst
		vulnerability,Landslide
	4 th	Landslides, Tsunamis and Thunderstorm hazards and
		construction
	5.0	Flood hazard and vulnerability, Flood hazard and Flood prone areas ofthecountry, General protection of habitants and flood resistant
	3 rd	resistantmeasure
		andcyclone
		pressures, windhazardandcycloneoccurrencemaps, storm surveys
	2^{nd}	Wind / Cyclone hazard and vulnerability, wind speed and
		measures.
		ofstructuresanddamageclassification, effects inhousing and resistant
		earthquake, seismic zones, earthquake hazard maps, types
13	1 st	Earthquake hazard and vulnerability, Magnitude and intensity scalesof
		disasterrelatedterms
		naturalhazardsanddisastersandvulnerability profileofIndia.Definitionof
	4 th	Introduction to Vulnerability Atlas of India, Concepts of
	3 rd	Safety legislation-contractlabouract
	2 nd	Safetylegislation-Workman'scompensationact
12	1 st	Developmentofsafetyconsciousness
	4 th	Safetymeasuresinworksites forerection, demolition
	3 rd	Safetymeasuresinworksites forformwork,fabrication
	2 nd	works Safetymeasuresinworksitesforexcavation,scaffolding
11	1 st	Importanceofsafety ,causes and effects of accident sinconstruction
11	1 st	