Discipline:	Semester :	Name of the Teaching Faculty: SHARMISTHA DAS
Civil Engg.	6TH	(Guest Lecturer)
Subject:	No. of	Semester From date :
СМ	days/per	16/01/2024 To Date: 26/04/2024
	week class	
	allotted:	No. of Weeks: 15
	04	
Week	Class Day	Theory
	1 st	Introduction To Construction Management:
		Aims and objectives of construction management. 1.2 Functions of
		construction management.
1^{ST}	2 nd	The construction team component owner, engineer, architect,
-		contractor-their functions and interrelationship and jurisdiction
		Resources for construction management-men, machines, materials,
	3 rd	money.
	4 th	Constructional Planning:
	4	Importance of Construction Planning, Developing
		work breakdown structure for construction work
	1 st	Construction Planning stages-Pre-tender stage, Post-tender stage.
	1 st	
OND	and	Construction scheduling by Bar charts-preparation of Bar
2^{ND}	2 nd	Charts for simple construction works, Limitation of Bar
		charts
	3 rd	Preparation of schedules for labour materials, machinery, finance
		for small works
	4 th	Construction scheduling by network techniques-defination
		of terms ,PERT and CPM techniques, advantages and
		disadvantages of two techniques, network analysis
	1 st	estimation of time and critical path, application of PERT
		and CPM techniques in sample construction works
	2^{nd}	Materials and Stores Management: Classification of Stores-storage of stock
3 RD		Issue of materials-indent , invoice, bin card
	3 rd	issue of materials-modelt, myoree, om caru
	4.41-	Construction Site Management:
	4 th	Job Lay out-Objectives, Review plans, specifications, Lay out of
		equipments
	1 st	Location of equipment, organizing labour at site
	2nd	Job lay out for different construction sites
4 TH	3rd	Principle of storing material at site
		Construction Organization:
	4 th	Introduction – Characteristics, Structure, importance
	1 st	Organization types-line and staff, functions and their
	1	characteristics
5 TH	2 nd	Principles of organization- meaning and significance of terms-
5		control, authority, responsibility, job & task
	3 rd	Leadership-necessity, styles of leadership, role of leader
		Human relations-relations with subordinates, peers,
	4 th	
		Supervisors, characteristics of group behavior, mob

		psychology, handling of grievances, absenteeism, labour
		welfare
	1 st	Conflicts in organization-genesis of conflicts, types-intrapersonal, interpresonal, intergroup, resolving conflicts
6 th	2 nd	Class Test 1
	3 rd	Construction Labour and Labour Management: Preparing Labour schedule, Essential steps for optimum labour output
	4 th	Labour characteristics, Wages & their payment, Labour incentives
7 TH	1 st	Motivation- Classification of motives, different approaches to motivation
	2 nd	Equipment Management Preparing the equipment schedule
	3 rd	Identification of different alternative equipment
	4 th	Importance of Owning & operating costs in making decisions for hiring & purchase of equipment
	1 st	Inspection and testing of equipment
8^{TH}	2 nd	Equipment maintenance
U U	3 rd	Class test question discussion & distribution of evaluated answer sheet to the student for the student for their references
	4 th	Quality Control: Concept of quality in construction
	1 st	Quality Standards- during construction
	2 nd	Quality Standards-after construction
9 TH	3rd	Quality Standards- destructive methods
		Quality Standards- nondestructive methods
	1 st	Monitoring Progress: Programme and progress of work
10^{TH}	2 nd	Methods of recording progress of work
	3 rd	Analysis of progress
	4 th	Productivity analysis & work study
	1 st	Time study of work measurements
11 TH	2 nd	Safety Management In Construction: Importance of safety ,causes and effects of accidents in construction works
	3 rd	Safety measures in worksites for excavation, scaffolding
	4 th	Safety measures in worksites for formwork, fabrication

12 TH	1 st	Safety measures in worksites for erection, demolition
	2 nd	Development of safety consciousness
	3 rd	Safety legislation- Workman's compensation act
	4 th	Safety legislation-contract labour act
13 TH	1 st	Role of Vulnerability Atlas of India in construction projects : Introduction to Vulnerability Atlas of India, Concepts of natural hazards and disasters and vulnerability profile of India. Definition of disaster related terms
	2 nd	Earthquake hazard and vulnerability, Magnitude and intensity scales of earthquake, seismic zones, earthquake hazard maps, types of structures and damage classification, effects in housing and resistant measures.
	3 rd	Wind / Cyclone hazard and vulnerability, wind speed and pressures, wind hazard and cyclone occurrence maps, storm surveys and cyclone resistant measure
	4 th	Flood hazard and vulnerability, Flood hazard and Flood prone areas of the country, General protection of habitants and flood resistant construction
14 TH	1 st	Landslides, Tsunamis and Thunderstorm hazards and vulnerability, Landslide & Thunderstorm incidence maps, Measures against Tsunami hazards.
	2 nd	Housing vulnerability risk tables and usage of vulnerability atlas of India
	3 rd	Inclusion of vulnerability atlas in Tender documents.
	4 th	Discussion of Assignment Questions
	1 st	Previous semester Question Discussion
15 TH	2 nd	Previous semester Question Discussion
	3 rd	OMR Test
	4 th	Class Test Question Discussion & Distribution of Evaluated Answer Sheet to the student for their references