



UTKAL INSTITUTE OF ENGINEERING & TECHNOLOGY

DISCIPLINE: CIVIL	SEMESTER: 6TH Sem	NAME OF THE TEACHING FACULTY: Er.Rehebari	
SUBJECT: Th 2. CONSTRUCTION MANAGEMENT	No of Days/Per week class allotted: 5 Class P/W(75)	Semester From Date:16/01/2024 To Date:26/04/2024 No. Of Weeks: 15	
WEEK	CLASS DAY	THEORY TOPICS	REMARKS
1 st	1 st	Introduction To Construction Management ,Aims and objectives of construction management	Date
	2 nd	Functions of construction management.	Dean/Principal
	3 rd	componentsowner,engineer ,architect,contractor-their functions and interrelationship and jurisdiction	
	4 th	management- men,machines,materials,mo ney	
2 nd	1 st	Constructional Planning,Importance of Construction Planning	
	2 nd	structure for construction work	
	3 rd	stages-Pre-tender stage, Post-tender stage.	
	4 th	Construction scheduling by Bar charts-preparation of Bar Charts for simple	
	1 st	Preparation of schedules for labour materials,machinery, finance for small works	
	2 nd	Limitation of Bar charts	

3 rd	3 rd	network techniques- defination of terms ,PERT and CPM techniques, advantages and disadvantages of two techniques, network analysis, estimation of time and critical path, application of PERT and CPM techniques		
	4 th	Materials and Stores Management : Classification of Stores-storage of stock.		
4 th	1 st	Classification of Stores- storage of stock.		
	2 nd	Issue of materials-indent , invoice, bin card		
	3 rd	Issue of materials-indent , invoice, bin card		
	4 th	Management , Job Lay out- Objectives, Review plans, specifications.		
5 th	1 st	Lay out of equipments.		
	2 nd	Location of equipment, organizing labour at site		
	3 rd	Job lay out for different construction sites.		
	4 th	Principle of storing material at site.		
6 th	1 st	Introduction – Characteristics, Structure, importance		
	2 nd	Organization types-line and staff, functions and their		
	3 rd	Principles of organization- meaning and significance of terms- control, authority, responsibility, job & task.		
	4 th	Leadership-necessity, styles of leadership, role of leader with subordinates, peers, Supervisors, characteristics		
	1 st	of group behavior, mob psychology, handling of grievances, absenteeism, labour welfare.		

7 th	2 nd	genesis of conflicts, types- intrapersonal, interpersonal, intergroup, resolving conflicts.		
	3 rd	Preparing Labour schedule		
	4 th	Essential steps for optimum labour output		
	1 st	Labour characteristics		
8 th	2 nd	Wages & their payment		
	3 rd	Labour incentives		
	4 th	Motivation- Classification of motives, different approaches to motivation		
	1 st	Preparing the equipment schedule		
9 th	2 nd	Identification of different alternative equipment		
	3 rd	Importance of Owning & operating costs in making decisions for hiring		
	4 th	purchase of equipment		
	1 st	Inspection and testing of equipment		
10 th	2 nd	Equipment maintenance		
	3 rd	Quality Control :Concept of quality in construction		
	4 th	Quality Standards- during construction		
	1 st	destructive		
11 th	2 nd	Non destructive methods		
	3 rd	ASSIGNMENT		
	4 th	Progress:Programme and progress of work		
	1 st	:Programme and progress of work		
12 th	2 nd	Work study		
	3 rd	physical progress corrective measures		
	4 th	financial progress corrective measures		
	1 st	REVISSION		
	2 nd	Safety Management In Construction:Importance of safety		

13 th	3 rd	accidents in construction works		
	4 th	worksites for excavation, scaffolding, formwork, fabrication and erection, demolition		
14 th	1 st	Development of safety consciousness		
	2 nd	Safety legislation- Workman's compensation act, contract labour act.		
	3 rd	Introduction to Vulnerability Atlas of India, Concepts of natural hazards and disasters and vulnerability profile of India. Definition of disaster related terms		
	4 th	Earthquake hazard and vulnerability, Magnitude and intensity scales of earthquake, seismic zones, earthquake hazard maps, types of structures and damage classification,		
15 th	1 st	Wind / Cyclone hazard and vulnerability, wind speed and pressures, wind hazard and cyclone occurrence maps, storm surveys and cyclone resistant measures.		
	2 nd	Flood hazard and vulnerability, Flood hazard and Flood prone areas of the country, General protection of habitants and		
	3 rd	Landslides, Tsunamis and Thunderstorm hazards and vulnerability, Landslide & Thunderstorm incidence maps, Measures against Tsunami hazards		
	4 th	Housing vulnerability risk tables and usage of vulnerability atlas of India, Inclusion of vulnerability		

Tejaswini Das

HOD

Chittaranjan Parida

DEAN

Das

PRINCIPAL