

Dicipline:	Civil	Semester:	6th	Name of the Teaching Faculty	Mousumi Pahan.
Subject:	Construction Management	No of Days/Week Class Allotted:	04	Semester From date: _____ To date _____	No. of Weeks: 06
WEEK	Class Day	Theory Topics			
1st	1st	Introduction to CM Aims & Objectives of CM			
	2nd	Functions of construction management.			
	3rd	The construction team components - Owner, engineer			
	4th	Architect & Contractor - Functions			
	5th				
2nd	1st	Resources for construction management - men, machines, materials, money			
	2nd	Construction Planning - Importance of Const <sup>n</sup> Planning, Breakdown structure			
	3rd	Developing work breakdown structure for construction work.			
	4th	Construction scheduling by Bar chart - Preparation of Bar chart for construction works.			
	5th				
3rd	1st	Construction Planning stages - Pre-tender stage post tender stage			
	2nd	Preparation of schedules for labour materials machinery, finance for small works.			
	3rd	Limitation of Bar charts, Construction scheduling by network techniques - Definition of terms PERT & CPM techniques.			
	4th	Advantages & disadvantages of two techniques. Network analysis.			
	5th				



WEEK	Class Day	Theory Topics
4th	1st	Estimation of time and critical path, application of PERT and CPM techniques in sample construction works.
	2nd	Materials & Store management - classification of stores - storage of stock
	3rd	classification of stores - storage of stock
	4th	Issue of materials - indent, invoice Bin card.
	5th	
5th	1st	Construction site management - Job layout - Objectives, Review plans. Specification
	2nd	Layout of equipments, specifications
	3rd	Location of equipment, Organizing labour at site.
	4th	Job layout for different const sites
	5th	
6th	1st	Principle of storing material at site.
	2nd	Construction Organization - Introduction - Characteristics, structure, importance.
	3rd	Organization types - line and staff, Functions, characteristics
	4th	Principles of organization - meaning and significance of terms - control.
	5th	



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WEEK	Class Day	Theory Topics
	1st	Principles of organization - authority, responsibility, Job & Desk
	2nd	Leadership - necessity, styles of leadership, role of leader.
	3rd	Human relations - relations with sub-ordinates, peers, supervisors.
	4th	Characteristics of group behaviour, mob psychology, handling of grievances
	5th	
	1st	Absenteeism, labour welfare. Conflicts in organization - genesis of conflicts
	2nd	Types - intrapersonal, interpersonal, intergroup, resolving conflicts.
	3rd	Construction Labour and Labour management Preparing Labour schedule
	4th	Essential steps for optimum Labour output
	5th	
	1st	Labour characteristics
	2nd	Wages & their payments, labour incentives
	3rd	Motivation - Classification of motives, diff <sup>n</sup> . approaches to motivation.
	4th	Equipment management - Preparing the equipment schedule.
	5th	



WEEK	Class Day	Theory Topics
	1st	Identification of diff <sup>n</sup> alternative equipment.
	2nd	Importance of owning & operating costs in making decision for hiring
	3rd	Purchase of equipment. Inspection and testing of equipment.
	4th	Equipment maintenance.
	5th	
	1st	Quality Control - Concept of quality in construction.
	2nd	Quality standards - during construction after construction
	3rd	Quality standards - destructive & non-destructive methods.
	4th	Monitoring Progress - Programme and Progress of work
	5th	
	1st	Analysis and control of physical and financial progress corrective <del>pro</del> measures.
	2nd	Safety Management in construction - Importance of safety
	3rd	Causes and effects of accidents in construction works.
	4th	Safety Management measures in work sites for excavation, scaffolding, formwork
	5th	



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WEEK	Class Day	Theory Topics
	1st	Fabrication and erection, demolition
	2nd	Developement of safety consciousness
	3rd	Safety legislation - Workman's compensation act, contract labourer act.
	4th	Class test
	5th	
	1st	Role of Vulnerability Atlas of India in cost <sup>n</sup> Projects - Introduction to vulnerability Atlas of India, Concepts of natural hazards & disaster
	2nd	Earthquake hazard and vulnerability, Wind speed & pressures, wind hazard.
	3rd	Cyclone occurrence maps, storm surveys & cyclone resistant measures.
	4th	Wind/cyclone hazard & flood hazard & vulnerability.
	5th	
	1st	General Protection of habitants and flood resistant construction.
	2nd	Land slides, Tsunami's and thunderstorm hazards & vulnerability
	3rd	Thunderstorm incidence maps, measures, against Tsunami hazards.
	4th	Housing vulnerability risk tables, usage of vulnerability atlas of India.
	5th	