

**JEYPORE SCHOOL OF ENGINEERING & TECHNOLOGY
DEPARTMENT OF CIVIL ENGINEERING**

Discipline : CIVIL ENGG	Semester: 6TH Sem.	Name of the Faculty: Santosh Kumar Panda (Lect In Civil)
Subject: Construction Management		From Date: 22.12.2025 to date: 18.04.2026 No of Weeks: 15 Weeks
COURSE OUTCOMES	CO1: Develop schedules for construction project	
	CO2: Realize significance of organizational behavior towards successful functioning	
	CO3: Explain the important terminology related to materials management	
	CO4: Understand construction quality indicators and their measurement	
	CO5: Understand construction quality indicators and their measurement	
WEEK	CLASS DAY	THEORY TOPICS
1st	1st	Introduction To Construction Management : Aims and objectives of construction management.
	2nd	Functions of construction management.
	3rd	The construction team components
	4th	Owner,engineer,architect,contractor-their functions and interrelationship and jurisdiction.
2nd	5th	Resources for construction managementmen,machines,materials,money
	6th	Constructional Planning :Importance of Construction Planning
	7th	Developing work breakdown structure for construction work
	8th	Construction Planning stages-Pre-tender stage, Post-tender stage.
3rd	9th	Construction scheduling by Bar charts-preparation of Bar Charts for simple construction works
	10th	Preparation of schedules for labour materials,machinery, finance for small works
	11th	Limitation of Bar charts Construction scheduling by network techniquesdefination of terms ,PERT and CPM techniques,
	12th	Advantages and disadvantages of two techniques, network analysis
4th	13th	Estimation of time and critical path, application of PERT and CPM techniques in sample construction works.
	14th	Class Test
	15th	Materials and Stores Management
	16th	Classification of Stores-storage of stock. Issue of materials-indent , invoice, bin card
5th	17th	Construction Site Management
	18th	Job Lay out-Objectives, Review plans, specifications, Lay out of equipments.
	19th	Location of equipment, organizing labour at site
	20th	Job lay out for different construction sites. Principle of storing material at site
6th	21st	Construction Organization: Introduction – Characteristics, Structure, importance.
	22nd	Organization types-line and staff, functions and their characteristics
	23rd	Principles of organization- meaning and significance of terms- control, authority, responsibility, job & task
	24th	Leadership-necessity, styles of leadership, role of leader
7th	25th	Human relations-relations with subordinates, peers, Supervisors, characteristics of group behavior, mob psychology, handling of grievances, absenteeism, labour welfare.
	26th	Construction Labour and Labour Management:
	27th	Preparing Labour schedule , Essential steps for optimum labour output
	28th	Labour characteristics , Wages & their payment

8th	29th	Labour incentives Motivation- Classification of motives, different approaches to motivation
	30th	Class Test
	31st	Equipment Management
	32nd	Preparing the equipment schedule , Identification of different alternative equipment
9th	33rd	Importance of Owning & operating costs in making decisions for hiring & purchase of equipment
	34th	Inspection and testing of equipment Equipment maintenance
	35th	Quality Control
	36th	Concept of quality in construction
10th	37th	Quality Standards- during construction, after construction, destructive & non destructive methods
	38th	Monitoring Progress :
	39th	Programme and progress of work, Work study
	40th	Analysis and control of physical and financial progress corrective measures
11th	41st	Class Test
	42nd	Internal Exam
	43rd	Safety Management In Construction:
	44th	Importance of safety
12th	45th	causes and effects of accidents in construction works
	46th	Safety measures in worksites for excavation, scaffolding, formwork, fabrication and erection, demolition
	47th	Development of safety consciousness Safety legislation- Workman's compensation act, contract labour act
	48th	Role of Vulnerability Atlas of India in construction projects
13th	49th	Introduction to Vulnerability Atlas of India,
	50th	Concepts of natural hazards and disasters and vulnerability profile of India. Definition of disaster related terms.
	51st	Earthquake hazard and vulnerability,
	52nd	Magnitude and intensity scales of earthquake,
14th	53rd	seismic zones, earthquake hazard maps,
	54th	types of structures and damage classification,
	55th	effects in housing and resistant measures.
	56th	Flood hazard and vulnerability
15th	57th	Flood hazard and Flood prone areas of the country
	58th	General protection of habitants and flood resistant construction.
	59th	Class Test
	60th	Quiz & Viva Voice

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