

LESSON PLAN

Discipline: Civil Engineering	Name of The Teaching Faculty: JYOTIRMAYEE SAMAL
Subject: Construction Management (TH2)	Semester From Date:04-02-2025 To Date 17-02-2025
SEMESTER-6th (SUMMER 2025)	No. Of Weeks:17
4P/WEEK	
No. of Days/week class allotted: 04 period per week (Monday , Wednesday 1 Period each & Friday 2 Period)	
TOTAL PERIOD-60	

MONTH	WEEK	DATE	DAYS/PERIOD	SYLLABUS TO BE COVERED	NOS. OF PERIODS AVAILABLE
F R E B U A R Y				1. Introduction To Construction Management(4P)	4
	2ND	05-02-2025	Wed	1.1 Aims and objectives of construction management.	1
		07-02-2025	Fri	1.2 Functions of construction management. 1.3 The construction team components-owner,engineer,architect,contractor-their functions and interrelationship and jurisdiction.	2
	3RD	10-02-2025	Mon	1.4 Resources for construction management-men,machines,materials,money	1
				2. Constructional Planning (7P)	7
		12-02-2025	Wed	2.1 Importance of Construction Planning	1
		14-02-2025	Fri	2.2 Developing work breakdown structure for construction work 2.3 Construction Planning stages-Pre-tender stage, Post-tender stage.	2
	4TH	17-02-2025	Mon	2.4 Construction scheduling by Bar charts-preparation of Bar Charts for simple construction works.	1
		19-02-2025	Wed	2.5 Preparation of schedules for labour materials,machinery, finance for small works	1
				2.6 Limitation of Bar charts.	2
		21-02-2025	Fri	2.7 Construction scheduling by 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 in sample construction works.	
	5TH			3. Materials and Stores Management (4P)	4
		24-02-2025	Mon	3.1 Classification of Stores-storage of stock.	1
		28-02-2025	Fri	3.1 Classification of Stores-storage of stock.	2

M A R C H	2ND	03-03-2025	Mon	3.2 Issue of materials-indent.	1
				3.2 Issue of materials-invoice, bin card.	5
				4. Construction Site Management (5P)	1
		05-03-2025	Wed	4.1 Job Lay out-Objectives, Review plans,	2
		07-03-2025	Fri	4.2 Specifications, Lay out of equipments. 4.3 Location of equipment, organizing labour at site.	
				4.4 Job lay out for different construction sites.	1
	3RD	10-03-2025	Mon		1
		12-03-2025	Wed	4.5 Principle of storing material at site.	6
				5. Construction Organization (6P)	1
	4TH	17-03-2025	Mon	5.1 Introduction – Characteristics, Structure, importance.	1
		19-03-2025	Wed	5.2 Organization types-line and staff, functions and their characteristics.	2
		21-03-2025	Fri	5.3 Principles of organization- meaning and significance of terms- control, authority, responsibility, job & task.	
				5.4 Leadership-necessity, styles of leadership, role of leader.	
	5TH	24-03-2025	Monday	5.5 Human relations-relations with subordinates, peers, Supervisors, characteristics of group behavior, mob psychology, handling of grievances, absenteeism, labour welfare.	1
		26-03-2025	Wed	5.6 Conflicts in organization-genesis of conflicts, types-intrapersonal, interpersonal, intergroup, resolving conflicts.	1
				6. Construction Labour and Labour Management (6P)	6
		28-03-2025	Fri	6.1 Preparing Labour schedule	2
				6.2 Essential steps for optimum labour output	
A P R I L	1ST	02-04-2025	Wed	6.3 Labour characteristics	1
		04-04-2025	Fri	6.4 Wages & their payment 6.5 Labour incentives.	2
		07-04-2025	Mon	6.6 Motivation- Classification of motives, Different approaches to motivation.	1
	2ND			7. Equipment Management (6P)	6
		09-04-2025	Wed	7.1 Preparing the equipment schedule	1
		11-04-2025	Fri	7.2 Identification of different alternative equipment	2
				7.3 Importance of Owning & operating costs.	
	3RD	16-04-2025	Wed	7.4 Importance of Owning & operating costs in making decisions for hiring & purchase of equipment	1
		21-04-2025	Mon	7.5 Inspection and testing of equipment.	1

M A Y	4TH	23-04-2025	Wed	7.6 Equipment maintenance.	1
				8. Quality Control (5P)	5
		25-04-2025	Fri	8.1 Concept of quality in construction 8.2 Quality Standards- during construction.	2
	5TH	28-04-2025	Mon	8.3 Quality Standards- After construction	1
		30-04-2025	Wed	8.4 Quality Standards- destructive methods. 8.5 Quality Standards- destructive methods.	1
	1ST	02-05-2025	Fri	8.6-Quality standard-non destructive methods.	2
				9. Monitoring Progress (6P)	6
	2ND	05-05-2025	Mon	9.1 Programme and progress of work	1
		07-05-2025	Wed	9.2 Programme and progress of work.	1
		09-05-2025	Fri	9.3 Work study.	2
				9.4 Work study.	1
	3RD	14-05-2025	Wed	9.5 Analysis and control of physical and financial progress corrective measures.	1
		16-05-2025	Fri	9.6 Analysis and control of physical and financial progress corrective measures.	1
				10. Safety Management In Construction (5P)	5
		16-05-2025	Fri	10.1 Importance of safety	1
E X T R A C L A S S			10.2 causes and effects of accidents in construction works	1	
			10.3 Safety measures in worksites for excavation, scaffolding, formwork, fabrication and erection, demolition.	1	
			10.4 Development of safety consciousness.	1	
			10.5 Safety legislation- Workman's compensation act, contract labour act.	1	
			11. Role of Vulnerability Atlas of India in construction projects (6P)	6	
			11.1 Introduction to Vulnerability Atlas of India, Concepts of natural hazards and disasters and vulnerability profile of India. Definition of disaster related terms.	1	
			11.2 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.	1	
			11.3 Wind / Cyclone hazard and vulnerability, wind speed and pressures, wind hazard and cyclone occurrence maps, storm surveys and cyclone resistant measures.	1	
			11.4 Flood hazard and vulnerability, Flood hazard and Flood prone areas of the country, General protection of habitants and flood resistant construction.	1	

	11.5 Landslides, Tsunamis and Thunderstorm hazards and vulnerability, Landslide & Thunderstorm incidence maps, Measures against Tsunami hazards..	1
	11.6 Housing vulnerability risk tables and usage of vulnerability atlas of India, Inclusion of vulnerability atlas in Tender documents.	1