

LESSON PLAN

Discipline: Civil Engineering			Name of The Teaching Faculty: Bijaya kumar rout		
Subject: Construction Management (TH2)			Semester From Date:22-12-2025 To Date 18-04-2026		
SEMESTER-6th (SUMMER 2026)			No. Of Weeks:17		4P/WEEK
No. of Days/week class allotted: 04 period per week (Monday , Tuesday, Thursday & Friday 1 Period each)					TOTAL PERIOD-60
MONTH	WEEK	DATE	DAYS/PERIOD	SYLLABUS TO BE COVERED	NOS. OF PERIODS AVAILABLE
D E C E M B E R				1. Introduction To Construction Management(4P)	4
	4th	22-12-2025	Mon	1.1 Aims and objectives of construction management.	1
		23-12-2025	Tue	1.2 Functions of construction management.	1
		26-12-2025	Fri	1.3 The construction team components-owner,engineer,architect,contractor-their functions and interrelationship and jurisdiction.	1
	5th	29-12-2025	Mon	1.4 Resources for construction management-men,machines,materials,money	1
				2. Constructional Planning (7P)	7
		30-12-2025	Tue	2.1 Importance of Construction Planning	1
J A N U A R Y	1st	01-01-2026	Thu	2.2 Developing work breakdown structure for construction work	1
		02-01-2026	Fri	2.3 Construction Planning stages-Pre-tender stage, Post-tender stage.	1
	2nd	05-01-2026	Mon	2.4 Construction scheduling by Bar charts-preparation of Bar Charts for simple construction works.	1
		06-01-2026	Tue	2.5 Preparation of schedules for labour materials,machinery, finance for small works	1
		08-01-2026	Thu	2.6 Limitation of Bar charts.	1
		09-01-2026	Fri	2.7 Construction scheduling by network techniques-definition 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.	1
	3rd			3. Materials and Stores Management (4P)	4
		12-01-2026	Mon	3.1 Classification of Stores-storage of stock.	1
		13-01-2026	Tue	3.1 Classification of Stores-storage of stock.	1
		15-01-2026	Thu	3.2 Issue of materials-indent.	1
		16-01-2026	Fri	3.2 Issue of materials-invoice, bin card.	1
				4. Construction Site Management (5P)	5
	4th	19-01-2026	Mon	4.1 Job Lay out-Objectives, Review plans,	1
		20-01-2026	Tue	4.2 Specifications, Lay out of equipments.	1
		22-01-2026	Thu	4.3 Location of equipment, organizing labour at site.	1
	5th	27-01-2026	Tue	4.4 Job lay out for different construction sites.	1
		29-01-2026	Thu	4.5 Principle of storing material at site.	1
			5.Construction Organization (6P)	6	
30-01-2026		Fri	5.1 Introduction – Characteristics, Structure, importance.	1	
		02-02-2026	Mon	5.2 Organization types-line and staff, functions and their characteristics.	1

F E B R U A R Y	1st	03-02-2026	Tue	5.3 Principles of organization- meaning and significance of terms- control, authority, responsibility, job & task.	1
		05-02-2026	Thu	5.4 Leadership-necessity, styles of leadership, role of leader.	1
		06-02-2026	Fri	5.5 Human relations-relations with subordinates, peers, Supervisors, characteristics of group behavior, mob psychology, handling of grievances, absenteeism, labour welfare.	1
	2nd	09-02-2026	Mon	5.6 Conflicts in organization-genesis of conflicts, types-intrapersonal, interpersonal, intergroup, resolving conflicts.	1
				6. Construction Labour and Labour Management (6P)	6
		10-02-2026	Tue	6.1 Preparing Labour schedule	1
		12-02-2026	Thu	6.2 Essential steps for optimum labour output	1
		13-02-2026	Fri	6.3 Labour characteristics	1
	3rd	16-02-2026	Mon	6.4 Wages & their payment	1
		17-02-2026	Tue	6.5 Labour incentives.	1
		19-02-2026	Thu	6.6 Motivation- Classification of motives, Different approaches to motivation.	1
				7. Equipment Management (6P)	6
	4th	20-02-2026	Fri	7.1 Preparing the equipment schedule	1
		23-02-2026	Mon	7.2 Identification of different alternative equipment	1
		24-02-2026	Tue	7.3 Importance of Owning & operating costs.	1
		26-02-2026	Thu	7.4 Importance of Owning & operating costs in making decisions for hiring & purchase of equipment	1
27-02-2026		Fri	7.5 Inspection and testing of equipment.	1	
M A R C H	1st	02-03-2026	Mon	7.6 Equipment maintenance.	1
				8. Quality Control (5P)	5
		05-03-2026	Thu	8.1 Concept of quality in construction	1
		06-03-2026	Fri	8.2 Quality Standards- during construction.	1
	2nd	09-03-2026	Mon	8.3 Quality Standards- After construction	1
		10-03-2026	Tue	8.4 Quality Standards- destructive methods.	1
		12-03-2026	Thu	8.5 Quality Standards- destructive methods.	1
		13-03-2026	Fri	8.6-Quality standard-non destructive methods.	1
	3rd			9. Monitoring Progress (6P)	6
		16-03-2026	Mon	9.1 Programme and progress of work	1
		17-03-2026	Tue	9.2 Programme and progress of work.	1
		19-03-2026	Thu	9.3 Work study.	1
		20-03-2026	Fri	9.4 Work study.	1
	4th	23-03-2026	Mon	9.5 Analysis and control of physical and financial progress corrective measures.	1
		24-03-2026	Tue	9.6 Analysis and control of physical and financial progress corrective measures.	1
				10. Safety Management In Construction (5P)	5
26-03-2026		Thu	10.1 Importance of safety	1	
5th	30-03-2026	Mon	10.2 causes and effects of accidents in construction works	1	
	31-03-2026	Tue	10.3 Safety measures in worksites for excavation, scaffolding,formwork, fabrication and erection, demolition.	1	
1st	02-04-2026	Thu	10.4 Development of safety consciousness.	1	
	06-04-2026	Mon	10.5 Safety legislation- Workman's compensation act, contract labour act.	1	

APRIL	2nd		11.Role of Vulnerability Atlas of India in construction projects (6P)	6	
		07-04-2026	Tue	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
		09-04-2026	Thu	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
		10-04-2026	Fri	11.3 Wind / Cyclone hazard and vulnerability, wind speed and pressures, wind hazard and cyclone occurrence maps, storm surveys and cyclone resistant measures.	1
	3rd	13-04-2026	Mon	11.4 Flood hazard and vulnerability, Flood hazard and Flood prone areas of the country, General protection of habitants and flood resistant construction.	1
		16-04-2026	Thu	11.5 Landslides, Tsunamis and Thunderstorm hazards and vulnerability, Landslide & Thunderstorm incidence maps, Measures against Tsunami hazards..	1
		17-04-2026	Fri	11.6 Housing vulnerability risk tables and usage of vulnerability atlas of India, Inclusion of vulnerability atlas in Tender documents.	1