

LESSON PLAN

SUBJECT : CONSTRUCTION MANAGEMENT (TH 4)

NAME OF FACULTY: SIPHON KUMAR PANDEY & SMITARANI PATEL

SEMESTER: 4TH

YEAR: 2025-26

MONTH	CHAPTER/UNIT	COURSE TO BE COVERED	CLASSES REQUIRED (HOURS)	REMARKS
	Unit-1	Construction industry and management	6	
	1.1	Organization-objectives, principles of organization, types of organization: government/public and private construction industry, Role of various personnel in construction organization Agencies associated with construction work- owner, promoter, builder, designer, architects.	3	
	1.2	Role of consultant for various activities: Preparation of Detailed Project Report (DPR), monitoring of progress and quality, settlement of disputes.	3	
	Unit -2	Site Layout	8	
	2.1	Principles governing site layout.	2	
	2.2	Factors affecting site layout.	2	
	2.3	Preparation of site layout.	2	
	2.4	Land acquisition procedures and providing compensation.	2	
	Unit -3	Planning and scheduling	15	
	3.1	Identifying broad activities in construction work & allotting time to it, Methods of Scheduling, Development of bar charts, Merits & limitations of bar chart.	2	
	3.2	Elements of Network: Event, activity, dummy activities, Precautions in drawing Network, Numbering the events.	2	
	3.3	CPM networks, activity time estimate, Event Times by forward & backward pass calculation, start and finish time of activity, project duration. Floats: Types of Floats Free, independent and total floats, critical activities and critical path,	4	
	3.4	Purpose of crashing a network, Normal Time and Cost, Crash Time and Cost, Cost slope, Optimization of cost and duration.	3	

	3.5	Material Management- Ordering cost, inventory carrying cost, Economic Order Quantity	2	
	3.6	Store management, various records related to store management, inventory control by ABC technique, Introduction to material procurement through portals	2	
	Unit - 4	Construction Contracts and Specifications	8	
	4.1	Types of Construction contracts	3	
	4.2	Contract documents, specifications, general special conditions	2	
	4.3	Contract Management, procedures involved in arbitration and settlement	3	
	Unit - 5	Safety in Construction	8	
	5.1	Safety in Construction Industry—Causes of Accidents, Remedial and Preventive Measures.	4	
	5.2	Safety in Construction Industry—Causes of Accidents, Remedial and Preventive Measures.	4	

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