

Department of Civil Engg.
Govt. Polytechnic for Women Rehan
Distt. – Kangra (H.P.) - 176022



LESSON PLAN

Program Name	Civil Engineering
Subject Name	Elective-I (Construction Management)
Subject Code	CEPE210 - (I)
Semester	4th
Subject Teacher Name	Namish Rana

Evaluation Scheme

Sr. No	Subject Name	Study scheme (Hrs/Week)		Marks in Evaluation Scheme					
				Internal Assessment			External Assessment		
		Th	Pr	Th	Pr	Total	Th	Pr	Total
1.	Construction Management & Accounts	3	-	40	-	40	60	-	60
Reference Books		(1) Shrinath, LS, "PERT and CPM-Principles and Applications", New Delhi, East West Press (2) Gahlot PS; Dhir, BM; "Construction Planning and Management", Wiley Eastern Limited, New Delhi and Tru Edu publications							

Course Outcomes (COs)

CO – 1	Understand the contract management and associated labour laws
CO – 2	Prepare and understand the nuances of executing the site layout
CO – 3	Prepare networks and bar charts for the given construction project
CO – 4	Understand the intricacies of disputes, related arbitration and settlement laws
CO – 5	Apply safety measures at construction projects

Teaching Plan

	Name of Topic	Proposed Date	Actual Date	Remarks
UNIT-I Construction industry and management	Organization-objectives, principles of organization	27/01/2026		
	Types of organization: government/ and private, construction industry	30/01/2026		
	Role of various personnel in construction organization	31/01/2026		
	Agencies associated with construction work- owner, promoter, builder, designer, architects	03/02/2026		
	Role of consultant for various activities	06/02/2026		
	Preparation of Detailed Project Report (DPR)	07/02/2026		
	Monitoring of progress and quality, settlement of disputes	10/02/2026		
UNIT-II Site Layout	Principles governing site layout	13/02/2026		
	Factors affecting site layout	17/02/2026		
	Preparation of site layout	20/02/2026		
	Preparation of site layout	21/02/2026		
	Land acquisition procedures and providing compensation	24/02/2026		
	Land acquisition procedures and providing compensation	27/02/2026 28/02/2026		

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UNIT-III Planning and scheduling	Identifying broad activities in construction work & allotting time to it	03/03/2026		
	Methods of Scheduling	06/03/2026		
	Development of bar charts, Merits & limitations of bar chart.	07/03/2026		
	Elements of Network: Event, activity, dummy activities	10/03/2026		
	Class Test-1	13/03/2026		
	Precautions in drawing Network, Numbering the events	17/03/2026		
	CPM networks, Activity time estimate	20/03/2026		
	Event Times by forward & backward pass calculation, Start and finish time of activity, project duration.	24/03/2026		
	Floats: Types of Floats-Free, independent, and total floats	27/03/2026 28/03/2026		
	Critical activities and critical path	31/03/2026		
	Purpose of crashing a network, Normal Time and Cost, Crash Time and Cost, Cost slope	04/04/2026		
	Optimization of cost and duration	07/04/2026		
	Material Management- Ordering cost, inventory carrying cost, Economic Order Quantity Store management, various records related to store management, inventory control by ABC technique	10/04/2026, 17/04/2026		
		Class Test-II	18/04/2026	
UNIT-IV Construction Contracts and Specifications	Introduction to material procurement through portals (e.g. www.inampro.nic.in)	21/04/2026		
	Types of Construction contracts	24/04/2026		
	Contract documents, specifications	25/04/2026		
	Specifications, general special conditions	28/04/2026		
	Contract Management	28/04/2026		
UNIT-V Safety in Construction	Procedures involved in arbitration and settlement (Introduction only)	02/05/2026		
	Safety in Construction Industry—Causes of Accidents	03/05/2026		
	Remedial and Preventive Measures	05/05/2026		
	House test	08/05/2026		
	Labour Laws and Acts pertaining to Civil construction activities (Introduction only)	12/05/2026 15/05/2026		
	Labour Laws and Acts pertaining to Civil construction activities (Introduction only)	16/05/2026 19/05/2026		
		Labour Laws and Acts pertaining to Civil	22/05/2026	

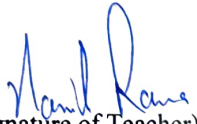
	construction activities (Introduction only)	26/05/2026		
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Assignments


Assignment No	Contents of Syllabus Covered	Proposed Date	Actual Date	Remarks
A-1	Unit-1, Unit-2	20/03/2026		
A-2	Unit-3	27/04/2026		

House Test/Class Test

Name of test	Syllabus for Tests	Proposed Date	Actual Date	Remarks
Class Test -1	Unit-1,Unit-2	As per HPTSB Academic Schedule		
Class Test -2	Unit-3			
House Test	Unit-1 to Unit-4			


(Signature of Teacher)


(Signature of HOD)

Approved

Principal
Govt. Polytechnic for Women
Rehan Distt. Kangra (H.P.)