

## Department of Civil Engineering Govt. Polytechnie for Women Rehan Distt. – Kangra (H.P.) – 176022 LESSON PLAN

						LESSON PLAN	Mandi	Common Co		
	Program Name					Civil Engi				
	Subject Name					Construction Materials				
	Subject Code					CEPC	201			
	Semester				3rd Semester					
	Subject To	nacher N	ame							
	Subject Name	Study scheme				Marks in Evaluation Sc	heme			
Sr. No.		ect Name (Hrs/Wee	(Hrs/Week)		Internal Assessment		En	External Assessment		
				Th	DCS	Th	Pr	Total	Th	Pr.
1		-	1	40	8	40	60		50	
eference D	ference Books		ala, S.C.,	Engineeri	ng Materials, Char	rator publisher, Ahmedabad.				
rerence Bo						national, New Delhi				

CO - 1	To learn about various construction materials and understand their relevant characteristics	
CO – 2	To be able to identify suitability of various materials for different construction purposes.	
CO – 3	To know about natural, artificial, and processed materials available for various purposes of construction activities	

	-	Name of Topic	Proposed Date	Actual Date	Remarks
11	Unit -1: Overview of Construction Materials	Scope of construction materials in Building Construction	01-08-2024		
2		Transportation Engineering, Environmental Engineering, Irrigation Engineering (applications only).	03-08-2024		
3		Selection of materials for different civil engineering structures based on strength	06-08-2024		
4		Durability, Eco friendly and economy.	08-08-2024		
5		Broad classification of materials - Natural, Artificial, special, finishing and recycled	13-08-2024		
6	= -	Requirements of good building stone; general characteristics of stone; quarrying and dressing methods and tools for stone.	17-08-2024		
7		Structure of timber, general properties and uses of good timber,	20-08-2024		
8		different methods of seasoning for preservation of timber, defects in timber, use of bamboo in construction.	22-08-2024		
9		Asphalt, bitumen, and tar used in construction, properties and uses	24-08-2024		
10		Properties of lime, its types and uses	27-08-2024		
11		Types of soil and its suitability in construction	29-08-2024		
12		Properties of sand and uses	31-08-2024		
3		Classification of coarse aggregate according to size	03-09-2024		



4	÷	Constituents of brick earth, Conventional / Traditional bricks, Modular and Standard bricks, Special bricks –fly ash bricks,	05-09-2024	
5	Construction Mat	Characteristics of good brick, Field tests on Bricks, Classification of burnt clay bricks and their suitability	07-09-2024	
16		Manufacturing process of burnt clay brick, fly ash bricks, Aerated concrete blocks.	10-09-2024	
17		Class Test	12-09-2024	
18		Flooring tiles – Types, uses	19-09-2024	
19		Manufacturing process of Cement - dry and wet (only flow chart), types of cement and its uses. Field tests on cement	21-09-2024	
20		Pre-cast concrete blocks- hollow, solid, pavement blocks, and their uses	24-09-2024	-
21		Plywood, particle board, Veneers, laminated board and their uses.	26-09-2024	
22		Types of glass: soda lime glass, lead glass and borosilicate glass and their uses.	28-09-2024	
22		Types of glass: soda time glass, lead glass and botosmeate g	01-10-2024	
24	Unit- IV: Special Construction Materials	Types of material and suitability in construction works of following materials	03-10-2024	
25		Water proofing, Termite proofing; Thermal and sound insulating materials.	05-10-2024	
26		Fibers - Types -Jute, Glass, Plastic Asbestos Fibers, (only uses).	08-10-2024	
27	Aate		10-10-2024	
	- S. V	Class Test	15-10-2024	
28	1 -	20 - 20 - 20 - 20 - 20 - 20 - 20 - 20 -	17-10-2024	
29	5	Geo polymer cement: Geo-cement: properties, uses.	19-10-2024	
30	-		22-10-2024	
31	-	Constituents and uses of POP (Plaster of Paris), POP finishing boards, sizes, and uses	24-10-2024	
32	Materials	Paints- whitewash, cement paint, Distempers, Oil Paints and Varnishes with their uses. (Situations	26-10-2024	
		where used).	02-11-2024	
34	ction	Industrial waste materials- Fly ash, Blast furnace slag, Granite and marble polishing waste and their	05-11-2024	
36	- Litte	uses.	07-11-2024	
37	ڭ		12-11-2024	
	Pass	House test	14-11-2024	
38	Unit-V; Processed Construction Materials	D. J. D. and gair fibers and their uses	16-11-2024	
39		Agro waste materials - Rice husk, Bagasse, coir fibers and their uses	19-11-2024	
40		Control Force Crate Artificial timber. Artificial sand	21-11-2024	
41	ž	Special processed construction materials; Geo synthetic, Ferro Crete, Artificial timber, Artificial sand	23-11-2024	
42	1 -	and their uses	26-11-2024	
43	-	Doubt Session	28-11-2024	
44		Doubt Session	30-11-2024	

		S 100 Wash	Actual Date	Remarks
Name of Test	Syllabus for Tests	Proposed Date		
Class Test -1	Unit-1	12-09-2024		
The second second	Unit 2 and 3(till	15-10-2024		
Class Test -2	date)	12-13-14 nov		
e e	Unit 1-4	12-13-14 1101		

Approved

Principal View

Rehan Disti Kangra (H.P.)