



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

Program Name				Civil Engineering					
Subject Name				Construction Materials Lab					
Subject Code				CEPC213					
Semester				3rd Semester					
Subject Teacher Name									
Sr. No.	Subject Name	Study scheme (Hrs/Week)		Marks in Evaluation Scheme					
				Internal Assessment			External Assessment		
		Th	DCS/PR	Th	Pr	Total	Th	Pr	Total
1		0	2+2	0	40	40	0	60	60
Reference Books		Duggal, S. K. Building Materials, New International, New Delhi.							
		Rangwala, S.C., Engineering Materials, Charator publisher, Ahemdabad							

CO - 1	Identify relevant construction materials.
CO - 2	Identify relevant natural construction materials
CO - 3	Select relevant artificial construction materials.
CO - 4	Select relevant special type of construction materials.
CO -5	Identify and use of processed construction materials.

	Name of Practical	Proposed Date G1	Actual Date	Proposed Date G2	Actual Date	Remarks
1	Identify various sizes of available coarse aggregates from sample of 10 kg in laboratory and prepare report (60,40, 20,10 mm)	05-08-2024		03-08-2024		
2	Identify the available construction materials in the laboratory based on their sources.	12-08-2024		17-08-2024		
3	Identify the grain distribution pattern in given sample of teak wood in the laboratory and draw the various patterns. (Along and perpendicular to the grains)	19-08-2024		24-08-2024		
4	Prepare the lime putty by mixing lime (1 kg) with water in appropriate proportion and pre-pare report on slaking of lime	09-09-2024		31-08-2024		
5	Identify various layers and types of soil in foundation pit by visiting at least 3 construction sites in different locations of city and prepare report consisting of photographs and samples. Part I Identify various layers and types of soil in foundation pit by visiting at least 3 construction sites in different locations of city and prepare report consisting of photographs and samples. Part II	16-09-2024		07-09-2024		
6	Select first class, second class and third-class bricks from the stake of bricks and prepare report on the basis of its properties	23-09-2024		21-09-2024		

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7	Measure dimensions of 10 bricks and find average dimension and weight. Perform field tests- dropping, striking, and scratching by nail and correlate the results obtained.	30-09-2024	28-09-2024		
8	Identify different types of flooring tiles such as vitrified tiles, ceramic tiles, glazed tiles, mosaic tiles, anti- skid tiles, checkered tiles, paving blocks and prepare report about the specifications.	07-10-2024	05-10-2024		
9	Apply the relevant termite chemical on given damaged sample of timber	14-10-2024	19-10-2024		
10	Identify the type of glasses from the given samples.	21-10-2024	26-10-2024		
11	Apply two or more coats of selected paint on the prepared base of a given wall surface for the area of 1m x 1m using suitable brush/rollers adopting safe practices. Part I	04-11-2024	02-11-2024		
12	Apply two or more coats of selected paint on the prepared base of a given wall surface for the area of 1m x 1m using suitable brush/rollers adopting safe practices. Part II	11-11-2024	16-11-2024		
13	Prepare the cement mortar of proportion 1:3 or 1:6 using artificial sand as a special processed construction material	18-11-2024	23-11-2024		
14	Prepare mortar using cement and Fly ash or Granite/marble polishing waste in the proportion 1:6 or 1:3.	25-11-2024	30-11-2024		
15	Doubt Session	02-12-2024			

(Signature of Faculty)

(Signature of HOD)

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