

Lesson Planning (Practical)

Branch : Civil Engineering

Semester : 3rd

Subject : Construction Materials Lab

Session : August-December 2026

Teacher: Er. Saibal Bharti

S.No.	No. of WEEKS	Chapter/ Unit Description	Detail of Contents	Remarks
1	Week 1	Practical 1	Identify various sizes of available coarse aggregates from sample of 10 kg in laboratory and prepare report (60,40, 20,10 mm)	
2	Week 2			
3	Week 3	Practical 2 Practical 3	- Identify the available construction materials in the laboratory based on their sources. - 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)	
4	Week 4	Practical 4	Prepare the lime putty by mixing lime (1 kg) with water in appropriate proportion and pre-prepare report on slaking of lime.	
5	Week 5	Practical 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	
6	Week 6	Practical 6	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	
7	Week 7	Practical 7 Practical 8	- Select first class, second class and third-class bricks from the stake of bricks - and prepare report on the basis of its properties.	
8	Week 8	Practical 9	Measure dimensions of 10 bricks and find average dimension and weight. Perform	
9	Week 9	Practical 10	field tests- dropping, striking, and scratching by nail and correlate the results obtained.	
10	Week 10	Practical 11	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.	
11	Week 11	Practical 12 Practical 13	- Apply the relevant termite chemical on given damaged sample of timber. - Identify the type of glasses from the given samples.	
12	Week 12	Practical 14	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	
13	Week 13	Practical 15	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	
14	Week 14	Practical 16	Prepare the cement mortar of proportion 1:3 or 1:6 using artificial sand as a special processed construction material.	

		Practical 17	• Prepare mortar using cement and Fly ash or Granite/marble polishing waste in the proportion 1:6 or 1:3.	
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Signature of Teacher

Signature of H.O.D/OIC