

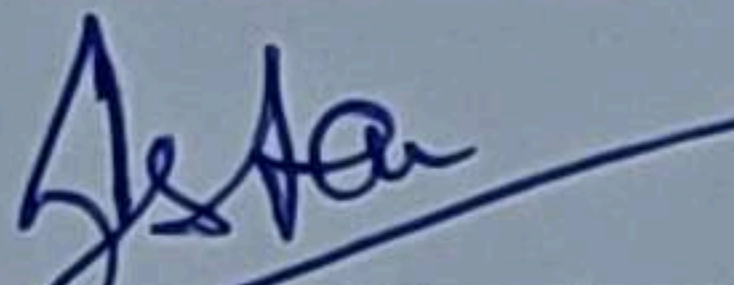
**DEPARTMENT OF CIVIL ENGINEERING**  
**GOVERNMENT POLYTECHNIC SUNDERNAGAR**

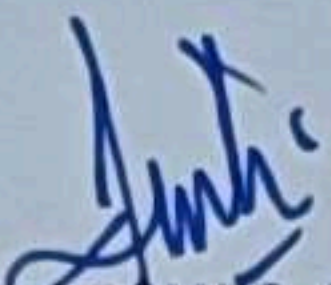
**LESSON PLAN FOR Construction Materials Lab. (SEMESTER-3rd)SESSION: (Aug-Dec 2025)**

S.No.	MONTH	WEEK	CONTENTS	REMARKS
1	August	Week 1	Identify various sizes of available coarse aggregates from sample of 10 kg in laboratory and prepare report (60,40, 20,10 mm)	
		Week 2	Identify the available construction materials in the laboratory based on their sources.	
		Week 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)	
		Week 4	Prepare the lime putty by mixing lime (1 kg) with water in appropriate proportion and prepare report on slaking of lime.	
		Week 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	
2	September	Week 1	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	
		Week 2	Select first class, second class and third-class bricks from the stake of bricks and prepare report on the basis of its properties.	
		Week 3	Measure dimensions of 10 bricks and find average dimension and weight.	
		Week 4	Perform field tests- dropping, striking, and scratching by nail and correlate the results obtained.	
		Week 5	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.	
3	October	Week 1	Apply the relevant termite chemical on given damaged sample of timber.	
		Week 2	Identify the type of glasses from the given samples.	
		Week 3	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	
		Week 4	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	
		Week 5	Viva Voce on Practicals	



4	November	Week 1	Prepare the cement mortar of proportion 1:3 or 1:6 using artificial sand as a special processed construction material.	
		Week 2	Prepare mortar using cement and Fly ash or Granite/marble polishing waste in the proportion 1:6 or 1:3.	
		Week 3	Viva Voce on Practicals	
		Week 4	Viva Voce on Practicals	
		Week 5	Doubt Clearing Sessions on Practicals Performed.	

  
 Signature of Teacher  
 (Er Ishan Sharma)

  
 Signature of H.O.D  
 (Er Anita Joshi)