

Lesson Planning (Practical)

Branch : Civil Engineering

Semester : 3rd

Subject : Mechanics Of Materials Lab

Session : August-December 2026

Teacher: Er. Harish Kumar

S.No.	No. of WEEKS	Chapter/ Unit Description	Detail of Contents	Remarks
1	Week 1	Practical 1	• Study and understand the use and components of Universal Testing Machine (UTM).	
2	Week 2			
3	Week 3	Practical 2	• Perform Tension test on mild steel as per IS:432(1).	
4	Week 4	Practical 3	• Perform tension test on Tor steel as per IS:1608, IS:1139	
5	Week 5	Practical 4	• Determine Water Absorption on bricks per IS:3495 (part II), IS:1077 or tile IS:1237.	
6	Week 6			
7	Week 7	Practical 5	• Determine Compressive strength of dry and wet bricks as per IS:3495(part I), IS:1077.	
8	Week 8	Practical 6	• Conduct Abrasion Test on flooring tiles (anyone) e.g., Mosaic tiles, Ceramic Tiles as per IS: 13630 (part7), Cement Tile as per IS: 1237.	
9	Week 9			
10	Week 10	Practical 7	• Perform Single Shear and double shear test on any two metals e.g., Mild steel/ brass/aluminium/copper / cast iron etc as per IS:5242.	
11	Week 11			
12	Week 12	Practical 8	• Plot Shear force and Bending Moment diagrams for simply supported beams.	
13	Week 13	Practical 9	• Conduct Flexural test on timber beam on rectangular section in both orientations as per IS:1708, IS:2408.	
14	Week 14	Practical 10	• Conduct Flexure test on floor tiles IS:1237, IS:13630 or roofing tiles as per IS:654, IS:2690.	

Signature of Teacher

Signature of H.O.D/OIC