

Lesson Planning (Practical)

Branch : Civil Engineering

Semester : 3rd

Subject : Concrete Technology 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	• Determine fineness of cement by Blaine's air permeability apparatus or by sieving.	
2	Week 2			
3	Week 3	Practical 2	• Determine specific gravity, standard consistency, initial and final setting times of cement.	
4	Week 4	Practical 3	• Determine compressive strength of cement.	
5	Week 5	Practical 4	• Determine silt content in sand.	
6	Week 6	Practical 5	• Determine bulking of sand.	
7	Week 7	Practical 6	• Determine bulk density of fine and coarse aggregates.	
8	Week 8	Practical 7	• Determine water absorption of fine and coarse aggregates.	
9	Week 9	Practical 8	• Determine Fineness modulus of fine aggregate by sieve analysis.	
10	Week 10	Practical 9	• Determine elongation and flakiness index of coarse aggregates	
11	Week 11	Practical 10	• Determine workability of concrete by slump cone test.	
12	Week 12	Practical 11	• Determine workability of concrete by compaction factor test.	
13	Week 13	Practical 12	• To prepare concrete mix of a particular grade and determine compressive strength of concrete for 7 and 28 days.	
14	Week 14	Practical 13	• Demonstration of NDT equipment.	

Signature of Teacher

Signature of H.O.D/OIC