



TENTATIVE TEACHING PLAN (PRACTICAL)

Department: **Civil Engineering**

Name of Teacher: **Engr. Muhammad Saleem Raza**

Subject: **Civil Engineering Materials**

Batch: **23CE (A+B+C+D)**

Year: **1st**

Course Code: **CE106**

Semester: **1st**


Semester Starting Date: **15-08-23**

Semester Suspension Date: **24-11-2024**

Course Learning Outcomes (CLOs): Upon successful completion of the course, the student will be able to:

CLO	Description	Taxonomy Level	PLO
CLO-3	PRACTICE various laboratorial and field tests to obtain physical properties of different materials	P3	4

S #	Topic	CLO's	No: of lecture/hrs. required
01	a) Introduction to the "Material Testing Laboratory" and HSE (Health, Safety and Environment) measures. b) To introduce the Civil Engineering Materials which are most commonly used for construction.	3	3
02	To Determine the Particle Size Distribution of Coarse Aggregates by Sieve Analysis Method and to determine Fineness Modulus of Coarse Aggregates	3	3
03	To Determine the Particle Size Distribution of Fine Aggregates by Sieve Analysis Method and to determine Fineness Modulus of Fine Aggregates	3	3
04	To determine Specific Gravity and Water Absorption of Coarse Aggregate.	3	3
05	To determine the Bulking of Sand.	3	3
06	To determine the Efflorescence of a Burnt Clay Brick by Efflorescence test.	3	3
07	To determine the "Water Absorption" percent by mass of Burnt Clay Bricks.	3	3
08	To determine the Compressive Strength of a Burnt Clay Brick Using Universal Testing Machine (UTM).	3	3
09	To determine the Dimension Tolerance Test of a Burnt Clay Brick.	3	3
10	To determine the Fineness of Ordinary Portland Cement (OPC) by Sieving Through IS.75 / BS.200 / ASTM.200 Sieve.	3	3
11	To determine the Normal Consistency of Ordinary Portland Cement (O.P.C) by Using Vicat's Apparatus (VA) With Plunger Attachment	3	3
12	To determine the Initial and Final Setting Time of Cement Paste by Vicat's Apparatus With Different Needle Attachment.	3	3
13	To determine the Diameter, Unit Weight and Bending of Steel bar.	3	3
14	To determine the Yield Strength, Proportional Limit, and Ultimate Strength for Steel Bar.	3	3
15	To determine the impact resistance of tiles.	3	3
16	To perform an open ended lab	3	3
TOTAL			48

Signature of Teacher: 

Dated: 10-10-2023

Remarks of DMRC: **APPROVED**

Signature of Chairman: 

Dated: 20-10-2023