



MEHRAN UNIVERSITY OF ENGINEERING AND TECHNOLOGY

TENTATIVE TEACHING PLAN

DEPARTMENT/INSTITUTE/DIRECTORATE: CIVIL ENGINEERING

Name of Teacher: **Prof. Dr. Naeem Aziz Memon/Engr. Umair Hussain Memon**

Subject: **Traffic Engineering and Pavement Design (Practical)** Course Code: **CE451**

Batch: **20CE (A+B+C+D)** Year: **4th**

Semester: **8th**

Semester Starting Date: **15-07-2024**

Semester Suspension Date: **06-11-2024**

Course Learning Outcomes (CLOs):

Upon successful completion of the course, the student will be able to:

CLO No.	Description	Taxonomy level	Linking to PLO
3	PRACTICE to investigate properties of asphalt mix and capacity analysis of road segments	P3	4

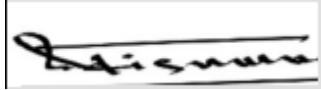
Sr. #	Description of Topic	No. of practical hours. Required
1.	INTRODUCTION TO LABORATORY AND HSE MEASURES.	3
2.	TO ANALYSE THE SPOT SPEED ON SELECTED ROAD USING DIFFERENT METHODS.	3
3.	TO CARRY OUT INTERSECTION TRAFFIC COUNT INCLUDING TURNING MOVEMENT ON AN INTERSECTION USING MANUAL AND CAMERA TECHNIQUE.	3
4.	TO CALCULATE PEAK HOUR FACTOR, ADT, AADT OF ANY SELECTED ROAD SECTION.	3
5.	TO CALCULATE INTERSECTION DELAY AT ANY SELECTED SIGNALISED INTERSECTION.	3
6.	TO CARRY OUT PARKING STUDY IN ANY PARKING LOT.	3
7.	TO DETERMINE THE LOS ANGELES ABRASION VALUE (% WEAR) OF AGGREGATE SAMPLE.	3
8.	TO DETERMINE THE FLAKINESS AND ELONGATION INDEX OF AGGREGATE.	3
9.	TO DETERMINE THE STRIPPING VALUE OF THE GIVEN AGGREGATE SAMPLE BY STATIC IMMERSION METHOD.	3
10.	TO DETERMINE THE AGGREGATE IMPACT VALUE OF THE GIVEN AGGREGATE SAMPLE.	3
11.	TO DETERMINE THE SOUNDNESS OF THE AGGREGATE USING DIFFERENT CHEMICALS.	3
12.	TO DETERMINE SPECIFIC GRAVITY, FLASH & FIRE POINT AND DUCTILITY OF BITUMEN.	3
13.	TO DETERMINE PENETRATION GRADE AND SOFTENING POINT OF BITUMEN.	3
14.	DETERMINATION OF AGGREGATE GRADATION FOR JOB MIX FORMULA.	6
15.	VOLUMETRICS OF ASPHALT MIX (OPEN ENDED LAB).	3
	Total	48

Signature of Teacher:

Dated: 06-09-2024

Remarks of DMRC: APPROVED

Signature of Chairman:

A rectangular box containing a handwritten signature in black ink. The signature is cursive and appears to be 'S. S. S.' or similar, written over a horizontal line.

Dated: 18-09-2024