



TENTATIVE TEACHING PLAN (THEORY)

Department: **Civil Engineering**

Name of Teacher: **Prof. Dr. Rizwan Ali Memon**

Subject: **Geometric Design of Highways and Airports** Course Code: **CE366** Batch: **21CE (A+B)** Year: **3rd** Semester: **5th**

Semester Starting Date: **20/11/2023**

Semester Suspension Date: **29/03/2024**

Course Learning Outcomes (CLOs):

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

CLO No.	Description	Taxonomy Level	Linking to PLOs
1	DISCUSS design controls for geometric elements of highways and airports.	C2	1
2	DESIGN geometric parameters of Highways and airports.	C6	3

S #	Topic	CLO's	No: of lec. hrs reqrd
1.	Introduction to Subject	1	1
2.	Evolution of Transportation	1	1
3.	Highway Engineering: Highway Planning	1	1
4.	Introduction to Design controls	1	2
5.	Functional classification of roads	1	1
6.	Design vehicle and Design Driver	1	1
7.	Design speed	1	1
8.	Design Volume	1	1
9.	Sight Distances	1	1
10.	Cross section elements	1	2
11.	Airport Engineering: Introduction	1	1
12.	Factors affecting airport site selection	1	2
13.	Highway Alignment: Horizontal Alignments	2	1
14.	Horizontal curves	2	2
15.	Transition curve	2	2
16.	Super-elevation	2	2
17.	Vertical Alignments	2	1
18.	Grades	2	1
19.	Vertical curves	2	2
20.	Airport Engineering: Airport Classification and Runway Configuration	2	2
21.	Geometric Design of Runway	2	2
22.	Airport Drainage System	2	2
		Total Lecture Hrs	32

Signature of Teacher:

Dated: 12/12/2023

Remarks of DMRC:

APPROVED

Signature of Chairman:

Dated: 24-02-2023
Dated: 21/12/2023