



MEHRAN UNIVERSITY OF ENGINEERING AND TECHNOLOGY JAMSHORO

Department of Civil Engineering

LESSON PLAN

COURSE TITLE: Traffic Engineering and Pavement Design	COURSE CODE: CE451	CREDIT HOURS: 02	MINIMUM CONTACT HOURS: 32
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COURSE INSTRUCTOR(s): Dr. Rizwan A. Memon (A+B) / Dr. Naeem Aziz Memon (C+D)

Batch: 20CE	Semester: 8th	Semester Starting Date: 15-07-2024	Semester Suspension Date: 06-11-2024
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COURSE LEARNING OUTCOMES:

CLO No.	Description	Taxonomy level	Associated PLO
1	APPLY basics of traffic engineering for effective traffic management	C3	3
2	DESIGN Rigid and Flexible pavements.	C6	4

LESSON CONTENTS AND ASSOCIATED CLO(s)

Contents	CLO No.	Marks Assigned	Delivery Methods	Assessment Methods (Marks)
<ul style="list-style-type: none"> • Traffic Engineering: - Introduction, - Highway Safety, - Traffic Control Devices - Traffic Signs - Traffic Signals - Capacity Analysis - Traffic Management - Level of Safety <p>No. of lectures Required: 13</p>	1	21	<ul style="list-style-type: none"> • Class Lecture • Discussion 	<ul style="list-style-type: none"> • Assignment/ Quiz (05) • Mid semester Exam (10) • Final Exam (06)
<ul style="list-style-type: none"> • Pavement Design: - Introduction, - Types of Pavements, - Wheel loads, Equivalent Single Axle load, Repetition & impact factors, - Design of flexible & Rigid pavements, - Maintenance of pavement. <p>No. of lectures Required: 13</p>	2	19	<ul style="list-style-type: none"> • Class Lecture • Discussion • Design practice 	<ul style="list-style-type: none"> • Class Test-1 (03) • Final Exam (16)
<ul style="list-style-type: none"> • Asphalt Mix Design - Importance of Asphalt mix design, Conventional and Performance based techniques and Design of Asphalt with Marshal Mix design method. <p>No. of lectures Required: 6</p>	2	10	<ul style="list-style-type: none"> • Class Lecture • Discussion Design practice 	<ul style="list-style-type: none"> • Class Test-2 (02) • Final Exam (08)

ASSESSMENT DETAILS

S. No.	Assessment Activities	Marks	Activities		CLO(s) to be assessed
1	Class Test/Assignment/Quiz	10	Assignment/Quiz	1	1
			Class test(s)	2	2
2	Mid Semester Exam	10	1		1
3	Final Semester Exam	30	1		1,2

Prepared by: **Prof. Dr. Rizwan A. Memon**

Signature:

Dated: 29-05-2024

Reviewed by: **Curriculum Review Committee**

Signature:

Dated: 30-05-2024

Approved by: **Chairman, CED**

Signature:

Dated: 30-05-2024