



MEHRAN UNIVERSITY OF ENGINEERING AND TECHNOLOGY JAMSHORO

Department of Civil Engineering

LESSON PLAN

COURSE TITLE: Structural Design and Drawing		COURSE CODE: CE406	CREDIT HOURS: 03	MINIMUM CONTACT HOURS: 48	
COURSE INSTRUCTOR: Prof. Dr. Fareed Ahmed Memon (A+C) / Engr. Azizullah Jamali (B+D)					
Batch: 20CE	Semester: 7th	Semester Starting Date: 20-11-2023	Semester Suspension Date: 29-03-2024		
COURSE LEARNING OUTCOMES:					
CLO No.	Description	Taxonomy level	Associated PLO		
1	DESIGN various reinforced concrete structural members.	C6	3		
2	DISCUSS design requirements and techniques of RCC bridges and Tall buildings.	C2	3		
LESSON CONTENTS AND ASSOCIATED CLO(s)					
Contents		CLO No.	Marks Assigned	Delivery Methods	Assessment Methods (Marks)
<ul style="list-style-type: none">• DESIGN OF REINFORCED CONCRETE MEMBERS:- Slender columns, design considerations- Analysis and design of slender columns- Shear walls, advantage of shear walls, design considerations- Analysis and design of shear walls- Two-way slabs, types of two-way slabs- Methods for the design of two-way slabs- Analysis and design of two-way slabs- Flat plate and flat slabs- Design of flat plate and flat slabs- Waffle slabs, design of waffle slabs- Retaining walls, types of retaining walls, analysis and design of retaining walls- Water tanks, types of water tanks, design of water tanks <p>➤ No. of lectures required: 35</p>		1	72	<ul style="list-style-type: none">• Class Lecture• Discussion• Design practice	<ul style="list-style-type: none">• Mid semester Exam (20)• Assignment (05)• Class test (05)• Final Exam (42)
<ul style="list-style-type: none">• PRELIMINARY DESIGN OF RCC BRIDGES AND TALL BUILDINGS:- Bridges, types of bridges, preliminary design of RCC bridges- Seismic design of RCC structures, design considerations- High rise buildings, design considerations for high-rise buildings <p>➤ No. of lectures required: 13</p>		2	28	<ul style="list-style-type: none">• Class Lecture• Discussion• Design practice	<ul style="list-style-type: none">• Assignment (05)• Class test (05)• Final Exam (18)

ASSESSMENT DETAILS

S. No.	Assessment Activities	Marks	Activities		CLO(s) to be assessed
1	Class Test/Assignment/Project Design/Presentation/Quiz/Field Report	20	Class test	1	1,2
			Assignment	1	1,2
2	Mid Semester Exam	20	1		1
3	Final Semester Exam	60	1		1, 2

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

Signature:

Dated: 13.11.2023



Reviewed by: **Curriculum Review Committee**

Signature:

Dated: 12-12-2023



Approved by: **Chairman, CED**

Signature:

Dated: 12-12-2023

