



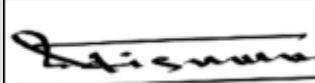


# MEHRAN UNIVERSITY OF ENGINEERING AND TECHNOLOGY JAMSHORO

## Department of Civil Engineering

### LESSON PLAN

COURSE TITLE: Concrete Technology		COURSE CODE: CET 103	CREDIT HOURS: 02	MINIMUM CONTACT HOURS: 32	
COURSE INSTRUCTOR: Prof. Dr. Ashfaq Memon/Engr. Ali Raza Lashari					
Batch: 24B.E. Tech. (Civil)	Semester: 2 <sup>nd</sup>	Semester Starting Date: 06-01-2025	Semester Suspension Date: 24-04-2025		
COURSE LEARNING OUTCOMES: Upon successful completion of the course, the student will be able to:					
CLO No.	Description	Taxonomy level	Associated PLO		
1	DISCUSS various properties of concrete and its constituent materials.	C2	1		
2	DEMONSTRATE the basics of concrete mix design considering various parameters using standard guidelines.	C3	3		
LESSON CONTENTS AND ASSOCIATED CLO(s)					
Contents	CLO No.	Marks Assigned	Delivery Methods	Assessment Methods (Marks)	
<ul style="list-style-type: none"><li>Cement, physical and chemical properties of cement, Type of cements and their use.</li><li>Aggregate, types of aggregate, various properties of aggregates.</li><li>Admixtures, various types of admixtures and their use in concrete.</li><li>Water, quality of water for the use in concrete.</li><li>Production of concrete, batching, mixing, transportation, placing, compaction and curing of concrete.</li><li>Properties of concrete in fresh state.</li><li>Properties of concrete in hardened state</li><li>Non-destructive testing of concrete samples</li></ul> <p>➤ (Total Classes: 26)</p>	1	40	<ul style="list-style-type: none"><li>Class Lecture</li><li>Discussion</li></ul>	<ul style="list-style-type: none"><li>Class Test-I (05)</li><li>Class Test-II (02)</li><li>Assignment-I (03)</li><li>Mid semester Exam (15)</li><li>Final Exam (15)</li></ul>	
<ul style="list-style-type: none"><li>Procedure for design of concrete mixes using DOE method,</li><li>Procedure for design of concrete mixes using ACI method</li></ul> <p>➤ (Total Classes: 06)</p>	2	10	<ul style="list-style-type: none"><li>Class Lecture</li><li>Discussion</li><li>Related Problems</li></ul>	<ul style="list-style-type: none"><li>Assignment-II (05)</li><li>Final Exam (05)</li></ul>	
ASSESSMENT DETAILS					
S. No.	Assessment Activities	Marks	Activities		CLO(s) to be assessed
1	Class Test/Assignment	15	Class Test(s)	2	1
			Assignment(s)	2	1,2
2	Mid Semester Exam	15	1		1
3	Final Semester Exam	20	1		1,2

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Prepared by: <b>Prof. Dr. Ashfaq Ahmed Memon</b>  Signature: Dated: 18-12-2024	Reviewed by: <b>Curriculum Review Committee</b>  Signature: Dated: 20/12/2024	Approved by: <b>Chairman, CED</b>  Signature: Dated: 20/12/2024