

## MEHRAN UNIVERSITY OF ENGINEERING AND TECHNOLOGY JAMSHORO Department of Civil Engineering

## LESSON PLAN

			COURSE C CE212	JRSE CODE: 12			CREDIT HOURS: <b>02</b>		MINIMUM CONTACT HOURS: <b>32</b>				
COURSI	E INSTRU	JCTER: Dr. Mu	hammad Rehan Hakro	0 (A+B+]	D) / Eng	gr. A	li Raza L	asha	ri (C)				
Batch: 22	Batch: 22CESemester: 3 <sup>rd</sup> Semester Starting Date					te: 20-11-2023 Semester Su				spension Date: 29-03-2024			
COURS	E LEARN	NING OUTCON	/IES:										
CLO No.	No. Description							Taxonomy level		Associated PLO			
1	SOLVE axial for		rain in materials subjected to			ected to	C3		1				
2	ANALYZE simple beams subjected to simple beams subjected to simple beams and energy theory.				ending loads and explain			C4		2			
LESSO			OCIATED CLO(s)										
	Contents			CLO No.	Mar Assig		Delive Methe						
- Defe activ - Prind - Defe - Stres - Ther - Elast	<ul> <li>Stress, strain and Hooks Law</li> <li>Deformation of a body due to self-weight and force acting on it</li> <li>Principle of superposition</li> <li>Deformation in the bars of different sections</li> <li>Stresses in determinate and indeterminate structures</li> <li>Thermal stress in simple and composite bars</li> <li>Elastic Constants and their relations</li> <li>No. of lectures: 16</li> </ul>			1	25		<ul> <li>Class Lecture</li> <li>Discussion</li> </ul>		<ul> <li>Class Test (05)</li> <li>Assignment (05)</li> <li>Mid semester Exam (15)</li> </ul>				
- Cent (Syn - Seco diffe - Prind - Theo - Bend	<ul> <li>STRESSES IN BEAMS:</li> <li>Centre of gravity / Centroid of plane figures (Symmetrical and Unsymmetrical sections)</li> <li>Second moment of area/Moment of inertia of different composite sections; Product of Inertia</li> <li>Principal stresses and Principal Moment of Inertia</li> <li>Theory of simple bending</li> <li>Bending stress and determination of flexural formula</li> </ul>			2	25	• Clas Lect • Disc		s		Exam (25)			
	RAIN EN												
and - Theo	impact loa ory of tors	ads ion of solids and	due to gradual, sudden hollow circular shafts										
> No	o. of lectur	res: 16											

ASSESSMENT DETAILS												
S. No.	Assessment Activitie	Marks	Activities		CLO(s) to be assessed							
1	Assignment and Test	10	Test	1	1							
1	Assignment and Test	10	Assignment	1	1							
2	Mid Semester Exam	15	1	1								
3	Final Semester Exam	25	1	2								
Prepared Hakro		Reviewed by: Curriculum Review Committee Signature: Dated: 12-12-2023			Approved by: Chairman, CED							
Dated:13-		Dated. 12-12-2023			Dated: 12-12-2023							
Dutca.15												