

No. of lectures: 18

MEHRAN UNIVERSITY OF ENGINEERING AND TECHNOLOGY JAMSHORO Department of Civil Engineering

LESSON PLAN

COURSE TITLE. Mechanics of Solids-II				COUR CE25	RSE CO 1		CREDIT HOURS: 03		MINIMUM CONTACT HOURS: 48		
COURSE	EINSTR	UCTER: Engr. N	Manoj Kumar(A)	/Engr.	Rabind	ler Kuma	r(B+C+D)				
Batch: 21CE Semester: 4 th Semester Starting Date			g Date:	: 03-07-2	2023 S	Semester Suspension Date: 20			: 20-10-2023		
COURS	E LEAR	NING OUTCOM	/IES:								
CLO No.	Description								onomy evel	Associated PLO	
1	ANALYZE plane stress and strain in the members subjected to various C4 2 loading conditions						2				
2	ANALYZE the horizontal shear stress / force in thin-walled sections and circular sections within the elastic limits, and describe unsymmetrical bending, curved beams, theories of failure, creep, fatigue and inelastic materialsC42								2		
LESSON CONTENTS AND ASSOCIATED CLO(s) Contents				(s)	CLO No.	Marks Assigne		•		sessment ods (Marks)	
• Str o	Analys stress (.	Analytically and g	es including princ graphically)	cipal			• Class	 Mid Exa Class Class Class /Qui Discussion nt-I Design Class Class /Qui 		semester n (20)	
0			ns in (Analytically	and	1	30	• Discus			 Class Test/ /Quiz/Assignme nt-I (05) Class Test/ /Quiz/Assignme nt-II (05) 	
0	Strain r Stresser and tor	s due to combin	ned loading (ben	ding			Ŭ				

 Horizontal Shear Stress / Force: Horizontal shear stress in beams Stress in built-up beams Shear Flow and Shear center General Topics: Unsymmetrical bending Analysis of curved beams Theories of Failure Creep and Fatigue fracture Introduction to inelastic materials Limit torque Limit moment Position of neutral axis Residual stresses 	2	70	 Class Lecture Discussion Design practice 	 Final Exam (60) Class Test/ /Quiz/Assignme nt-III (05) Class Test/ /Quiz/Assignme nt-IV (05)
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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/ /Quiz/Assignment	4	1,2			
2	Mid Semester Exam	20	1		1			
3	Final Semester Exam	60	1		2			

Reviewed by: Curriculum Review Committee Approved by: Chairman, CED Prepared by: Engr Mano Kum (K) fin Signature: Signature: Signature: Dated: 12-04-2023 Dated: 18-04-2023 Dated: 18-04-2023