



MEHRAN UNIVERSITY OF ENGINEERING AND TECHNOLOGY JAMSHORO
Department of Civil Engineering


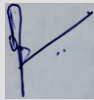
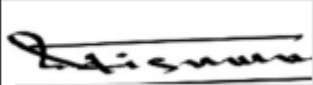
LESSON PLAN

COURSE TITLE: Structural Principles		COURSE CODE: CET208	CREDIT HOURS: 02	MINIMUM CONTACT HOURS: 32
COURSE INSTRUCTOR: Eng. Muhammad Shaheer				
Batch: 23BS CET	Semester: 4th	Semester Starting Date: 09-12-2024	Semester Suspension Date: 18-04-2025	
COURSE LEARNING OUTCOMES:				
CLO No.	Description	Taxonomy level	Associated PLO	
1	Analyze beams, frames and trusses	C2	2	
2	Compute deflections and slopes in determinate and indeterminate structures	C3	2	
LESSON CONTENTS AND ASSOCIATED CLO(s)				
Contents	CLO No.	Marks Assigned	Delivery Methods	Assessment Methods (Marks)
<ul style="list-style-type: none"> • Introduction to structure analysis • Types of Structures, structural idealization, loads • Free body concept • Condition of supports and attachments to other bodies • Support Reaction under different types of loading • Introduction to shear force and bending moment diagram • Determinacy and Stability of structures • Analysis of beams, frames and trusses • Coplanar trusses • Method of joints • Method of sections and graphical methods for analysis <p>No. of lectures Required : 14</p>	1	23	<ul style="list-style-type: none"> • Class Lecture • Discussion • Design practice 	<ul style="list-style-type: none"> • Assignment (08) • Mid semester Exam (15)

<ul style="list-style-type: none"> • Analysis of Statically rigid jointed plane frames: • Determinacy and stability of plane frames • Analysis (sign convention etc) • Shear & Bending moment diagrams of Frames • Deflection in beams and frames: • Deflection diagrams and Elastic curves • Various method to compute deflection in beams and frames by: <ol style="list-style-type: none"> 1. Double integration 2. Moment area 3. Conjugate beam 4. Unit method methods and theory of catigijliano. <p>No of lectures Required : 18</p>	2	27	<ul style="list-style-type: none"> • Class Lecture • Discussion • Design practice 	<ul style="list-style-type: none"> • Class Test (07) • Final Exam (20)
--	---	----	--	--

ASSESSMENT DETAILS

S. No.	Assessment Activities	Marks	Activities		CLO(s) to be assessed
1	Class Test/Assignment/Project Design/Presentation/Quiz/Field Report	15	Assignment(s)	1	1
			Class test(s)	1	2
2	Mid Semester Exam	15	1		1
3	Final Semester Exam	20	1		2

Prepared by: Engr.Muhammad Shaheer  Signature : Dated: 14-12-2024	Reviewed by: Curriculum Review Committee  Signature: Dated: 20-12-2024	Approved by: Chairman, CED  Signature: Dated: 20-12-2024
---	---	---