MEHRAN UNIVERSITY OF ENGINEERING & TECHNOLOGY FRM-001/00QSP-004

Dec. 01, 2001

TENTATIVE TEACHING PLAN (THEORY)

Department: CIVIL ENGINEERING

Name of Teacher: Engr. Azizullah Jamali
Subject: Steel Structures
Semester Starting Date: 15-07-2024

Course Code: CE316

Batch: **21CE-C** Year: **3**rd Semester: **2**nd Semester Suspension Date: **06-11-2024**

Course Learning Outcomes:

After Completing the "Steel Structures" course, each student will be able to:

	CLO No.	D Description	Taxo level	nomy	Linking to PLO	
	1	DISCUSS the properties of steel and basic concepts related to design of steel structures along with design loads.	C2		1	
	2	ANALYZE and design main structural members and connection of steel structures.	C4	C4 3		
S. 7	#	Торіс	CLOs	CLOs No. of Lectures (Hrs.) Required		
1		ntroduction, properties of steel and stress-strain diagram	1		1	
3	A	Advantages and disadvantages of Steel Structures as compared to R.C.C & Timber	1		2	
4	V	Various steel sections used in design of steel structures. Use of Steel Table	1		1	
5	H	Basic concepts related to design methods used in steel structures (ASD versus LRFD)	1		2	
6	A	AISC manual and design specifications	1		1	
7	(Consideration of gravity dead, live load and environmental loads in design	1		1	
8	Ι	ntroduction to lateral loads (wind and earthquake load)	1		1	
9	(Calculation of earthquake load for high rise structures	1		2	
10	I	Design loads on bridges and Load factors considered in LRFD method	1	2		
13	Ι	Design procedure for beams	2	2 1		
14	· I	Design of beams with different loading conditions	2		4	
15	I	Design of beams with additional flange plates	2		3	
16	5 V	Web buckling and web crippling in steel beams	2	2		
17	I	mportance of plate girder	2		2	
18	I	Design of plate girder	2	4		
19	S	Significance of stiffeners in plate girder design	2	1		
20	I	Euler's column theory, slenderness ratio, effective length, buckling of columns	2	2		
21	Ι	Design procedure for column	2	1		
22	I	Design of column using different steel sections	2		4	
23]	Types and strength of steel connections, significance and design of steel connection	2		4	
24	· I	Design of purlin	2		2	
25	S	Significance of truss design in steel structures and design of tension member	2		3	
26	F	Fabrication and erection methods involved in steel structure construction	2		2	
		Total Lecture hrs.			48	

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Signature of Teacher

Remarks by DMRC: APPROVED

Dated: 15-07-24



Dated: 18-09-2024