	LESSON PLAN
	Academic Session :- 2021-2022

Discipline: Civil.Engineering			ng	Name of teaching faculty: Swagatika Dani		
Subject: Structural Design-II(Th.2)				Semester from Date:01/10/2021 to 08/01/2022		
Semester	: 5th			No. of weeks: 14	4P/week	
No. of Days/ week class allotted: 04 period per week(Monday 2periods, Tuesday and Saturday 1 period each)					Total period: 60	
MONTH	Week	DATE	DAYS/P ERIOD	Syllabus to be covered	NO. OF PERIODS AVAILABLE	
				CHAPTER-1- Introduction (5P)		
		04/10/2021	Monday	1.1.Common steel structures, Advantages and disadvantages of steel structures; Types of steel, properties of structural steel	1	
		04/10/2021	Monday	1.2.Rolled steel sections, special considerations in steel design	1	
		05/10/2021	Tuesday	1.3.Loads and load combinations	1	
0	2ND	09/10/2021	Saturday	1.4.Structural analysis and design philosophy	1	
C T O B	3RD	23/10/2021	Saturday	1.5.Brief review of Principles of Limit State design	1	
				CHAPTER-2-Structural Steel Fasteners and connections(10P)		
				2.1.Bolted Connection		
ĸ		25/10/2021	Monday	of bolted connections	1	
		25/10/2021	Monday	2.1.2. Different terminology, Spacing and edge distance of bolt holes	1	
		26/10/2021	Tuesday	2.1.3.Types of bolted connections.	1	
	4TH	30/10/2021	Saturday	2.1.4. Types of action of fasteners, assumptions and principles of design	1	
		01/11/2021	Monday	2.1.5.Strength of plates in a joint, strength of bearing type bolts(shear capacity and bearing capacity), reduction factors, and shear capacity of HSFG bolts	1	
		01/11/2021	Monday	2.1.6.Analysis and design of joints using bearing type and HSFG bolts(expert eccentric load and prying forces)	1	
		02/11/2021	Tuesday	2.1.7.Efficiency of a joint	1	
N				2.2.Welded connections:		
	1ST	06/11/2021	Saturday	2.2.1. Advantages and Disadvantagew of welded connection	1	
		08/11/2021	Monday	2.2.2.Types of welded joints and specifications for welding	1	
		08/11/2021	Monday	2.2.3.Design stresses in welds, strength of welded joints	1	
0		09/11/2021	Tuesday	Class test	1	
V E				CHAPTER-3-Design of Steel tension Members(10P)		

М	2ND	13/11/2021	Saturday	3.1 .Common shapes of tension members.	1
В		15/11/2021	Monday	3.2.Common shapes of tension members	1
Е					
R		15/11/2021	Monday	3.3.Maximum values of effective slenderness ratio	1
			,		
		16/11/2021	Tuesday	3.4. Maximum values of effective slenderness ratio	1
	3RD	20/11/2021	Saturday	3.5.Analysis of tension member	1
		22/11/2021	Monday	3.6 Analysis of tension member	1
		22/11/2021	Monday	3.7 Design of tension members	1
		23/11/2021	Tuesday	3.8 Design of tension members	1
	атн	27/11/2021	Saturday	3.8 Design considering strength only	- 1
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		29/11/2021	Monday	3.9 Design considering concent of block shear failure	1
		23/11/2021	Monday		
		29/11/2021	Monday	3 10 Design considering concent of block shear failure	1
		25/11/2021	wonday		
				CHAPTER-4-Design of steel compression members.	
	5TH	30/11/2021	Tuesday	4.1.common shapes of compression members	1
	1ST	04/12/2021	Saturday	4.2. Bulking class of section	
		06/12/2021	Monday	4.3. Slenderness ratio	1
		06/12/2021	Monday	4.4. Design of compressive stress	1
		07/12/2021	Tuesday	4.5. Design of compressive stress	1
	2ND	11/12/2021	Saturday	4.6 Design strength of compression members	1
		13/12/2021	Monday	4.7. Design strength of compression member	1
D		14/12/2021	Tuesday	4.8 Analysis of compression member	1
Е	3RD	18/12/2021	Saturday	4 9 Design of compression members	1
С		20/12/2021	Monday	4 10 Design of compression members	1
Е		20/12/2021	wonday		-
М					
В				5.CHAPTER-5-Design of steel beams(10P)	
Е					1
R		20/12/2021	Monday	5.1.common cross sections	I
				5.2 Classification of steel cross section	1
		20/12/2021	Monday		
	4TH	21/12/2021	Tuesday	5.3.Classification of steel cross section	1
		27/12/2021	Monday	5.4.Deflection limits	1
		27/12/2021	Monday	5.5.Web buckling	1
	5TH	28/12/2021	Tuesday	5.6.web crippling	1
J		0.10.1000			1
A	1ST	01/01/2022	Saturday	5.7.Design of laterally supported beam against bending	
N		00/04/2022			1
U		03/01/2022	Nonday	5.8. Design of laterally supported beam against bending	
A					
ĸ					1
Ŷ		03/01/2022	Monday	5.9.Design of laterally supported beam against shear	
			L .		1
		04/01/2022	Tuesday	5.10.Design of laterally supported beam against shear	
		00/04/2025		CHAPTER-6-Design of Tubular steel structure(6P)	
	2ND	08/01/2022	Tuesday	b.1.Round tubular sections	1
				6.2.permissible stresses	1
				6.2.permissible stresses 6.3.Permissible stresses	1

E	6.4.Tubular compression members	1
X	6.5. Tubular tension members	1
Т	6.6.Joints in Tubular trusses	1
R	CHAPTER-7-Design of Masonry structures (9P)	
A	7.1.Design consideration of masonry walls	1
	7.2. Design consideration of masonry walls	1
C	7.3. Design consideration of masonry columns	1
L	7.4. Design consideration of masonry columns	1
A	7.5. Load bearing and non-load bearing walls	1
S	7.6. Permissible stresses	1
S	7.7.Slenderness ratio	1
E	7.8.Effective length	1
S	7.9. Effective height and effective thickness	1