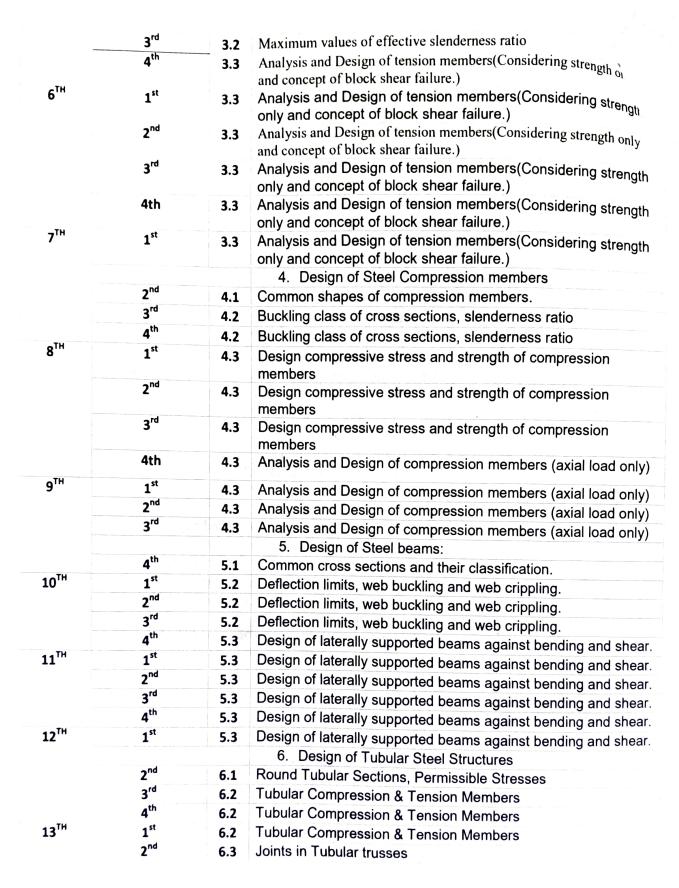
LESSON PLAN

(5 periods per week, total 60 periods in SEM)

DISCIPLINE: Civil Engineering SUBJECT: Structural Design-II			SEMESTER: 5 th Semester	NAME OF THE TEACHING FACULTY: Sima Chhatria PTGF (Civil Engg.)	
			NO. OF DAYS/PER WEEK CLASSES ALLOTTED: 4	SEMESTER FROM DATE:TO DATE: NO. OF WEEKS:15	
Week	Class Day		Theory Topic		
1 st			1. Introduction		
	1 st	1.1 1.2	Common steel structures, Advantages & disadvantages of steel structures, Types of steel, properties of structural steel.		
	2 nd	1.3	Rolled steel sections, special considerations in steel design.		
	3 rd	1.4	Loads and load combinations		
	4 th	1.5	Structural analysis and design philosophy.		
2 ND	1 st	1.6	Brief review of Principles of Limit State design		
			2. Structural Steel Fasteners and Connections.		
	2 nd	2.1 2.1.1	Bolted Connections, Classification of bolts, advantages and disadvantages of bolted connections,		
	3 rd	2.1.2	Different terminology, spacing and edge distance of bolt holes.		
	4 th	2.1.3 2.1.4	Types of bolted connections, Types of action of fasteners, assumptions and principles of design.		
3 RD	1 st	2.1.5		int, strength of bearing type bolts (shea city), reduction factors, and shear	
	2 nd	2.1.6	Analysis & design of Joi (except eccentric load a	nts using bearing type and HSFG bolts nd prying forces),	
	3 rd	2.1.7	Efficiency of a joint.		
	4 th	2.2	Welded Connections:		
		2.2.1	Advantages and Disadv	antages of welded connection	
4 TH	1 st	2.2.2	Types of welded joints a	and specifications for welding	
	2 nd	2.2.3	Design stresses in weld	S	
	3 rd	2.2.4	Strength of welded joint	S	
			3. Design of Steel to	ension Members	
	4 th	3.1	Common shapes of tensio	n members.	
5 TH	1 st	3.1	Common shapes of tensio		
	2 nd	3.2	Maximum values of effec		

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ICH EL	3 rd	6.2	Joints in Tubular trusses		
strength of the notion	5	6.3			
ST.			7. Design of Masonry Structures:		
. /	4 th	7.1	Design considerations for Masonry walls & Columns, Load Bearing & Non-Load Bearing walls, Permissible stresses, Slenderness Ratio, Effective Length, Height & Thickness.		
14 TH	1 st	7.1	Design considerations for Masonry walls & Columns, Load Bearing Non-Load Bearing walls, Permissible stresses, Slenderness Ratio,		
	2 nd	7.1	Effective Length, Height & Thickness. Design considerations for Masonry walls & Columns, Load Bearing & Non-Load Bearing walls, Permissible stresses, Slenderness Ratio, Effective Length, Height & Thickness.		
	3 rd	7.1	Design considerations for Masonry walls & Columns, Load Bearing & Non-Load Bearing walls, Permissible stresses, Slenderness Ratio, Effective Length, Height & Thickness. Design considerations for Masonry walls & Columns, Load		
	4 th	7.1	Bearing & Non-Load Bearing Walls, Permissible circles, Slenderness Ratio, Effective Length, Height & Thickness. Design considerations for Masonry walls & Columns, Load Bearing & Non-Load Bearing walls, Permissible stresses, Slenderness Ratio, Effective Length, Height & Thickness. Design considerations for Masonry walls & Columns, Load Bearing & Non-Load Bearing walls, Permissible stresses, Objective Length, Height & Thickness.		
15 TH	1 st	7.1			
	2 nd	7.1			
	3 rd	7.1	Design considerations for Masonry Walls & Columns, Load Bearing & Non-Load Bearing walls, Permissible stresses, Olympical Action of Effective Length, Height & Thickness.		
	4 th	7.1	Design considerations for Masonry walls & Columns, Load Bearing & Non-Load Bearing walls, Permissible stresses, Slenderness Ratio, Effective Length, Height & Thickness.		

Signature of Faculty

HOD

Civil Engineering Department

Principal Govt. Polytechnic Malkangiri