

LESSON PLAN-WINTER-2022
SWAMI VIVEKANANDA SCHOOL OF ENGG & TECH, BBSR

Discipline- CIVIL DEPARTMENT	Semester- 5TH	Name of teaching faculty- PRATIVA MANJARI BARIK		
Subject- SD-II	No class allotted/ per week -5	SEM From date- 15/09/2022 to 22/12/2022 No of weeks- 17		
Week	Class day	Theory Topics		
3RD	9/15/2022	Introduction:		
	9/16/2022	1.1 Common steel structures, Advantages & disadvantages of steel structures.		
4TH	9/19/2022	1.2 Types of steel, properties of structural steel.1.3 Rolled steel sections, special considerations in steel design.		
	9/20/2022	1.4 Loads and load combinations.		
	9/21/2022	1.5 Structural analysis and design philosophy.		
	9/22/2022	Brief review of Principles of Limit State design.		
	9/23/2022	Structural Steel Fasteners and Connections.		
	9/24/2022	2.1 Bolted Connections		
5TH	9/26/2022	Classification of bolts, advantages and disadvantages of bolted connections.		
	9/27/2022	2.1.2 Different terminology, spacing and edge distance of bolt holes.		
	9/28/2022	2.1.3 Types of bolted connections.		
	9/29/2022	2.1.4 Types of action of fasteners, assumptions and principles of design.		
	9/30/2022	2.1.5 Strength of plates in a joint, strength of bearing type bolts (shear capacity& bearing capacity), reduction factors, and shear capacity of HSFG bolts.		
1ST	10/1/2022	2.1.6 Analysis & design of Joints using bearing type and HSFG bolts (except eccentric load and prying forces)		
3RD	10/10/2022	2.1.7 Efficiency of a joint.		
	10/11/2022	2.2 Welded Connections:2.2.1 Advantages and Disadvantages of welded connection		
	10/12/2022	2.2.2 Types of welded joints and specifications for welding		
	10/13/2022	2.2.3 Design stresses in welds.		
	10/14/2022	Strength of welded joints.		
	10/15/2022	Design of Steel tension Members		
4TH	10/17/2022	3.1 Common shapes of tension members.		
	10/18/2022	3.1 Common shapes of tension members.		
	10/19/2022	3.1 Common shapes of tension members.		
	10/20/2022	3.2 Maximum values of effective slenderness ratio.		
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	10/22/2022	3.2 Maximum values of effective slenderness ratio.		

5TH	10/24/2022	3.4 Analysis and Design of tension members.(Considering strength only and concept of block shear failure.)		
	10/25/2022	3.4 Analysis and Design of tension members.(Considering strength only and concept of block shear failure.)		
	10/26/2022	3.4 Analysis and Design of tension members.(Considering strength only and concept of block shear failure.)		
	10/27/2022	Design of Steel Compression members.		
	10/28/2022	4.1 Common shapes of compression members.		
	10/29/2022	4.1 Common shapes of compression members.		
6H	10/31/2022	4.2 Buckling class of cross sections, slenderness ratio		
1ST	11/1/2022	4.2 Buckling class of cross sections, slenderness ratio		
	11/2/2022	4.3 Design compressive stress and strength of compression members.		
	11/3/2022	4.3 Design compressive stress and strength of compression members.		
	11/4/2022	4.3 Design compressive stress and strength of compression members.		
	11/5/2022	4.4 Analysis and Design of compression members (axial load only).		
2ND	11/7/2022	4.4 Analysis and Design of compression members (axial load only).		
	11/8/2022	4.4 Analysis and Design of compression members (axial load only).		
	11/9/2022	Design of Steel beams:		
	11/10/2022	5.1 Common cross sections and their classification.		
	11/11/2022	5.1 Common cross sections and their classification.		
	11/12/2022	5.2 Deflection limits, web buckling and web crippling.		
3RD	11/14/2022	INTERNAL ASSESMENT		
	11/15/2022	INTERNAL ASSESMENT		
	11/16/2022	INTERNAL ASSESMENT		
	11/17/2022	5.2 Deflection limits, web buckling and web crippling.		
	11/18/2022	5.2 Deflection limits, web buckling and web crippling.		
	11/19/2022	5.3 Design of laterally supported beams against bending and shear.		
4TH	11/21/2022	5.3 Design of laterally supported beams against bending and shear.		
	11/22/2022	5.3 Design of laterally supported beams against bending and shear.		
	11/23/2022	5.3 Design of laterally supported beams against bending and shear.		
	11/24/2022	Design of Tubular Steel Structures:		

	11/25/2022	6.1 Round Tubular Sections, Permissible Stresses		
	11/26/2022	6.1 Round Tubular Sections, Permissible Stresses		
5TH	11/28/2022	6.2 Tubular Compression & Tension Members		
	11/29/2022	6.2 Tubular Compression & Tension Members		
	11/30/2022	6.2 Tubular Compression & Tension Members		
1ST	12/1/2022	Joints in Tubular trusses		
	12/2/2022	Joints in Tubular trusses		
	12/3/2022	Joints in Tubular trusses		
2ND	12/5/2022	Design of Masonry Structures:		
	12/6/2022	7.1 Design considerations for Masonry walls & Columns, Load Bearing & Non-Load Bearing walls, Permissible stresses, Slenderness Ratio, Effective Length, Height & Thickness		
	12/7/2022	7.1 Design considerations for Masonry walls & Columns, Load Bearing & Non-Load Bearing walls, Permissible stresses, Slenderness Ratio, Effective Length, Height & Thickness		
	12/8/2022	7.1 Design considerations for Masonry walls & Columns, Load Bearing & Non-Load Bearing walls, Permissible stresses, Slenderness Ratio, Effective Length, Height & Thickness		
	12/9/2022	7.1 Design considerations for Masonry walls & Columns, Load Bearing & Non-Load Bearing walls, Permissible stresses, Slenderness Ratio, Effective Length, Height & Thickness		
	12/10/2022	7.1 Design considerations for Masonry walls & Columns, Load Bearing & Non-Load Bearing walls, Permissible stresses, Slenderness Ratio, Effective Length, Height & Thickness		
3RD	12/12/2022	7.1 Design considerations for Masonry walls & Columns, Load Bearing & Non-Load Bearing walls, Permissible stresses, Slenderness Ratio, Effective Length, Height & Thickness		
	12/13/2022	7.1 Design considerations for Masonry walls & Columns, Load Bearing & Non-Load Bearing walls, Permissible stresses, Slenderness Ratio, Effective Length, Height & Thickness		
	12/14/2022	7.1 Design considerations for Masonry walls & Columns, Load Bearing & Non-Load Bearing walls, Permissible stresses, Slenderness Ratio, Effective Length, Height & Thickness		
	12/15/2022	7.1 Design considerations for Masonry walls & Columns, Load Bearing & Non-Load Bearing walls, Permissible stresses, Slenderness Ratio, Effective Length, Height & Thickness		

	12/16/2022	7.1 Design considerations for Masonry walls & Columns, Load Bearing & Non-Load Bearing walls, Permissible stresses, Slenderness Ratio, Effective Length, Height & Thickness		
	12/17/2022	Revision		
4TH	12/19/2022	Revision		
	12/20/2022	Revision		
	12/21/2022	Revision		
	12/22/2022	Revision		

H.O.D
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Fingh

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