LESSON PLAN FOR WINTER SESSION (2024-25)

	AE : CIVIL			OHANTY	
		CTURAL	DESIGNAT	SESSION: 2024-25	
DURSE CO			DATE: 01/07/24 To 8/11/24		
MESTER					
ERIODS/W					
OTAL PER			TOPICS	A STREET, SQUARE, SQUA	
VEEK P	ERIODS	UNITS			
ULY. 1st Week	1	1	1. Introduction:		
			1.1 Common steel structures, Advantages & disadvantages of steel structures,		
	2		Types of steel, properties of structural steel. Rolled steel sections, special considerations in steel design.		
	3	1	1.4 Loads and load combinations.		
	4	2	1.4 Loads and lead combinations. 1.5 Structural analysis and design philosophy.		
JULY 2nd Week	5	2	1.6 Brief review of Principles of Limit State design.		
	7	2	2. Structural Steel Fasteners and Connections.		
		2	2.1 Bolted Connections		
	8	2	2.1.1 Classification of bolts, advantages and disadvantages of bolted connections,		
JULY 3rd Week	9	2	2.1.2 Different terminology, spacing and edge distance of bolt holes.		
	10	2	2.1.3 Types of bolted connections.		
	11	2	2.1.4 Types of action of fasteners, assumptions and principles of design.	ring capacity), reduction	
	12	2	2.1.5 Strength of plates in a joint, strength of bearing type bolts (shear capacity& bear	amb enhanced by	
			factors, and shear capacity of HSFG bolts.		
JULY. 4th	1.3	BOR CE	Monthly Test-1	ic load and prving forces	
	14	2	2.1.6 Analysis & design of Joints using bearing type and HSFG bolts (except eccentry)	to touc und promise	
Week	15	2	2.1.7 Efficiency of a joint.	TERMSON SINCE	
	16	2	2.2 Welded Connections:		
	17	2	2.2.1 Advantages and Disadvantages of welded connection		
AUG. 1st	18	2	2.2.2 Types of welded joints and specifications for welding		
Week	19	2	2.2.3 Design stresses in welds.	NOTE OF TAXABLE PARTY.	
	20	2	2.2.4 Strength of welded joints. 3. Design of Steel tension Members		
9888	21	3	3.1 Common shapes of tension members.		
AUG. 2nd				THE RESERVE OF THE PARTY OF THE	
Week	22	3	Common shapes of tension members.		
THE CO.	23	3	3.2 Maximum values of effective slenderness ratio. 3.2 Maximum values of effective slenderness ratio.		
2 8 THE	24	3	3.4 Analysis and Design of tension members		
	25	3	3.4 Analysis and Design of tension members 3.4 Analysis and Design of tension members		
ATIG 3rd	26	3	3.4 Analysis and Design of tension members 3.4 Analysis and Design of tension members		
AUG. 3rd Week	27	3	4. Design of Steel Compression members.		
	28	4	4.1 Common shapes of compression members		
			4.1 Common snapes of compression members	THE PROPERTY OF	
	29	4	Common shapes of compression members. 4.2 Buckling class of cross sections, slenderness ratio		
AUG. 4th		4	4.2 Buckling class of cross sections, stenderness ratio 4.2 Buckling class of cross sections, slenderness ratio		
Week	31	4			
The state of	32		Monthly Test-2 4.3 Design compressive stress and strength of compression members.		
SEPT. 1st	33	4	4.4 Analysis and Design of compression members (axial load only).		
		4	4.4 Analysis and Design of compression members (axial load only). 4.4 Analysis and Design of compression members (axial load only).	THE PARTY OF PARTY	
Week	35	4	4.4 Analysis and Design of compression members (axial load only).	THE RESERVE THE TREE	
1000	36	4	4.4 Allalysis and Design of Comp.		
1000	37	Interna	S. Design of Steel beams:		
132	38	5	5.1 Common cross sections and their classification.	Control of the second s	
SEPT.			Common cross sections and their classification.		
2nd Weel		5	6.2 Deflection limits web buckling and web crippling.	A LOS AND ASSESSMENT OF THE PARTY OF THE PAR	
10000	40	5	2 Deflection limits web buckling and web crippling.		
3439	41	5	flaterally supported beams against bending and shear.		
MARKET BE	42	5 5	5.3 Design of laterally supported beams against bending and shear.		
SEPT 3r	d 43	_	Problem solving		
Week		5	Problem solving Problem solving	The state of the s	
Trook	45	5	Problem solving		

WEEK	PERIODS	UNITS	TOPICS
SEPT. 4th Week			6. Design of Tubular Steel Structures:
			Monthly Test-3
			6.2 Tubular Compression & Tension Members
			6.2 Tubular Compression & Tension Members
			6.3 Joints in Tubular trusses
OCT. 1st Week	47	6	6.3 Joints in Tubular trusses
	48		Problem solving
	49	6	Problem solving
	50	6	7. Design of Masonry Structures:
	51	6	Design considerations for Masonry walls & Columns
OCT. 2nd Week	52	6	
	53	6	Puja Holidays
	54	6	Pula Hulluavs
	55	7	
OCT. 3rd Week	57	7	Design considerations for Masonry walls & Columns
	58	7	7.2 Load Bearing & Non-Load Bearing walls.
	59	7	7.2 Load Bearing & Non-Load Bearing walls.
	60	7	7.3 Permissible stresses, Slenderness Ratio
	61	7	7.3 Permissible stresses, Slenderness Ratio
OCT.4th	62	7	7.4 Effective Length, Height & Thickness.
	63	7	7.4 Effective Length, Height & Thickness.
	11		REVISION
	64	4.43.33	LEVISION
Week	65	14.08173	Problem solving
	65		Problem solving
Week	65		Problem solving Problem solving Problem solving Monthly Test-4
Week	65 66 67		Problem solving Problem solving Problem solving Problem solving Monthly Test-4 Doubt Clearing Class & Previous year question Paper discussion.
	65 66 67 68		Problem solving Problem solving Problem solving Monthly Test-4

Concern faculty

HOD Civil engineering

Academic Coordinator
GP Nabarangpur

Principal GP Nabarangpur