

Types of steel, properate of structural steel, Rolled steel sections, special considerations in steel design. Loads and load combinations. Structural analysis and design philosophy. Brief review of Principles of Limit State design. Chapter 2 Structural steel fastners and connections; Bolted Connections,
STRUCTURAL DESIGN II , 5TH SEMESTER (WINTER 2021) Lesson Plan Chapter 1 Introduction; Introduction to Common steel structures, Advantages & disadvantages of steel at uctures. Types of steel, proper also of structural steel, Rolled steel sections, special considerations in steel design. Loads and load combinations. Structural analysis and design philosophy. Brief review of Principles of Limit State design.
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Classification of bolts, advantages and disadvantages of bolted
connections.
Different terminology, spacing and edge distance of bolt holes, Types of
bolted connections.
Types of action of fasceners, assumptions and principles of design. week 2
Strength of plates in a joint, strength of bearing type bolts (shear capacity&
bearing capacity), reduction factors, numericals practice
she ir capacity of HSF 3 polts, Analysis & design of Joints using bearing type bolts
week 3
Analysis & design of Joints using HSFG bolts, efficiency of joints
Numericals practice
Numericals practice
Welded Connections: Definition, Advantages and Disadvantages of welded
connection week 4
Types of welded joint, and specifications for welding, Design stresses in
welds.
Strength of welded joints.
Numericus practice week 5
Numericals practice
Chapter 3
Design of Steel tension wembers; Common shapes of tension members

	Applies and Dusing and Spring mambres / Considering strength and applied
	Analysis and Design to this ion members. (Considering strength only and concept of block she
week 7	Numericals practice nthly test(october)
week 8	Analysis and Design Councilon members.(Considering strength only and
	concept of block shear salure.)
1.0	Numericals practice
week 9	Questimand Answer Ascussion
	Chapter 4
week 10	Design of steel compression member; Common shapes of compression members, Buckling class of cross sections, slenderness ratio
is	Design compressive sites and strength of compression members, Analysis and Design of compression members (axial load only).
week 11	Design compressive (1.2.2.5 and strength of compression members, Analysis and Design of compression members (axial load only). Numericals practice (1.2.5 anthly test(november)
week 12	Nume: cos practice
Week 12	Question and Answer Flocussion
	Chapter 5
week 13	Design of Steel beams, common cross sections and their classifications
	Deflection limits, web buckling and web crippling.
wee k 14	Design of laterally supported beams against bending and shear. Numericals
al. 15	Numericals
week 15	Question and Answers discussion
	Chapter 6
	Design of Tubular Stell Structures; Round Tubular Sections, Permissible
week 16	Stress
	fubultion compression, reamber
	ubular tension mentage
	oints in Lubular trust at
week 17	lumer5
	Question and Answer . > scussion and Monthly test (December)
	Chapter 7
week 18	Design Considerations for masonry walls and coulumns
1	oad bearing and non-toad bearing wall
	ermissible stress , slouderness ratio
week 19	Ifective length, height and thickness, Numericals
week 20	ezision crasses and mock test

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