

DISCIPLINE CIVIL ENGINEERING	SEMESTER 5th	NAME OF THE TEACHING FACULTY SUMAN PRADHAN
SUBJECT STRUCTURAL DESIGN-II	NO. OF PERIOD PER WEEK CLASS ALLOWED 4	SEMESTER FROM DATE - 10/03/2023 TO DATE - 30/06/2023 NO. OF WEEK

MONTH	WEEK	CLASS DAY	THEORY TOPIC
		1st	* Introduction
			**
	1st	2nd	* Define steel structure, common steel structure
OCT		3rd	* Advantage & disadvantage of steel structure
	2nd	1st	* Type of steel structure steel properties of structural steel

MONTH	WEEK	CLASS DAY	THEORY OF TOPIC
	3rd	1st	* Rolled steel section
		2nd	* Special consideration in steel design
		3rd	* Loads and load combination
		4th	* Structural Analysis + A
	4th	1st	* Design Philosophy
		2nd	* Loads and combination
		3rd	* Structural analysis & design philosophy
		4th	* Principles of limit state design Briefly
			<u>chapter-2</u>
		1st	* Introduction + A
		2nd	* Explain Bolted connection
NOV	1st	3rd	* Classification of bolts
		4th	* Advantages and disadvantages of bolted connections

11/11/11

WATER

PLANTS

CHARACTER OF TOWNS

bird

1st

of elements from locality of habitat construction

2nd

of ability and edges, distance of total holes

3rd

of types of holes, direction

4th

of types of total connection

end

1st

of types of order of landscape, assumptions and principles of design

2nd

of strength of pattern hole

3rd

of strength of forming type, holes, particles, features and, strength capacity of 11/11/11 hole

4th

of analysis and design of holes, very heavy type and 11/11/11 hole, concept, accuracy, hole and energy force

of efficiency of a hole and interaction with connection

MONTH	WEEK	CLASS DAY	THEORY OF TOPIC
		1st	* Advantages and disadvantages of welded connection
		2nd	* TYPE of welded connection
		3rd	* specification for welding
		4th	* Design stress in weld and strength of welded joint
NOV			
			Chapter-3
		1st	* Introduction - Tension member
			+B
		2nd	* Tension member:
		3rd	* common shapes of tension member
		4th	* maximum value of effective slenderness ratio
			X ^B
		1st	* Maximum value of effective slenderness ratio

MONTH	WEEK	CLASS DAY	THEORY OF TOPIC
		2nd	* Analysis and design of tension member
		3rd	* Analysis and design of tension member (considering strength only)
DEC		4th	* Analysis and design of tension member (concept of block shear failure)
		1st	* Analysis and design of tension member (concept of block shear)
			<u>Chapter-4</u>
		2nd	* Introduction - Compression member +A
		3rd	* Common shape of compression member
		4th	* Buckling class of cross-section +A
		5th	* Buckling class of cross-section

MONTH	WEEK	CLASSTAY	THEORY OF TOPIC
			* BUCKLING class of cross-section, slenderness ratio
DEC	1st	1st	* Design compressive stress and strength of compression member +A
		2nd	* Design of compressive stress and strength of compression member
		3rd	* Analysis and design of compression member
		4th	* Analysis and design of compression member (axial load)
		5th	* Analysis and design of compression member (axial load)
			*
	2nd	1st	* Analysis and design of compression member (axial load)

MONTH	WEEK	CLASSDAY	THEORY OF TOPIC
			<u>Chapter - 5</u>
		2nd	* Introduction + A
		3rd	* Common cross section and their classification
		4th	* Common cross-section and their classification
		5th	* Deflection limits of steel beam
a	3rd	1st	* web buckling of steel beam
		2nd	* web crippling of steel beam
		3rd	* Design of laterally supported beams against bending & shear
		4th	* Design of laterally supported beams against bending & shear

MONTH	WEEK	CLASS DAY	THEORY OF TOPIC
		1st	* Design of laterally supported beam against bending and shear
			+A
	4th	2nd	* Design of laterally supported beam against bending and shear
			<u>Chapter - 6</u>
		3rd	* Introduction, Round tubular sections
		4th	* Round tubular section Possible stress
		5th	* Round tubular section
		1st	* Tubular compression & tension member
		2nd	* Tubular compression & tension member
		3rd	* Joints in Tubular Trusses
		4th	* Joints in Tubular Trusses

MONTH

WEEK

CLASS DAY

THEORY OF TOPIC

Chapter-7

1st

1st

* Design consideration for masonry walls and column

2nd

* Design consideration for load bearing wall

3rd

* Design consideration for non-load bearing wall

JAN

4th

* Design consideration for permissible stresses

2nd

1st

* Permissible stress & slenderness ratio

2nd

* Design consideration for effective length

3rd

* Design consideration for Height & Thickness

4th

* Design consideration for Height & thickness