

LESSON PLAN

Semester:6th		Year: 2024-25	Course: B.Tech
Branch : CE		Sub: Design of Steel Structures	Total Credit:03
		Sub Code :	
Name of the Faculty:		Anjana Khamari	
Designation :		Assistant Professor	
Department :		Civil Engineering	
Session		2024-25	
Recommended Books		<u>Text book:</u>	
		1. Design of Steel Structures- Limit State Method by N. Subramanian, Oxford University Press	
		2. Limit State Design of Steel structures by S.K. Duggal, Mc-Graw Hill	
		<u>Reference Books:</u>	
		1. Design of steel structures by S.S.Bhavikatti, I.K. International Publishing house.	
		2. Design of Steel Structures by K. S. Sairam, Pearson	
Sl. No.	Lecture No.	Topics to be covered	No. of Classes
MODULE-1			
1	Lecture-01	Tension members	8
2	Lecture-02	types	
3	Lecture-03	net cross-sectional area	
4	Lecture-04	types of failure	
6	Lecture-06	design of tension members	
7	Lecture-07	gusset plate.	
8	Lecture-08		
MODULE-2			
9	Lecture-09	Compression members	10
10	Lecture-10	effective length	
11	Lecture-11	slenderness ratio	
12	Lecture-12	types of cross-section	
13	Lecture-13	classification of cross section	
14	Lecture-14	Design of axially loaded compression members	
15	Lecture-15	lacing, battening	
16	Lecture-16	design of column bases	
17	Lecture-17	foundation bolts	
18	Lecture-18	Problem practice	
MODULE-3			
19	Lecture-19	Design of beams, types of c/s	9
20	Lecture-20	lateral stability of beams	
21	Lecture-21	lateral stability of beams	
22	Lecture-22	Problem practice	
23	Lecture-23	lateral torsional buckling	
24	Lecture-24	bending shear strength	
25	Lecture-25	web buckling and web crippling	
26	Lecture-26	deflection	
27	Lecture-27	design procedure	

MODULE-4			
28	Lecture-28	Plate girders- various elements and design of components Eccentric and moment connections,	8
29	Lecture-29	roof trusses	
30	Lecture-30	Problem practice	
31	Lecture-31	Problem practice	
32	Lecture-32	Problem practice	
33	Lecture-33	Problem practice	
34	Lecture-34	Problem practice	
35	Lecture-35	Problem practice	

Signature of Faculty Member

Signature of HOD

PRINCIPAL