

Ch. Ranbir Singh State Institute Of Engineering & Technology, Jhajjar (Hr.)

Lecture Plan (Session – July – Dec 2020)

Name of the Faculty- SUVIDHA

Deptt.-CIVIL ENGG

Subject –DSS-II

Subject Code-CE-401-F

S No.	Lecture No.	Topics Covered	Date	Remarks
1	1	Elementary Plastic Analysis and Design: Introduction		
2	2	Scope of plastic analysis		
3	3	ultimate load carrying capacity of tension members		
4	4	ultimate load carrying capacity of tension members and compression members		
5	5	flexural members, shape factor, mechanisms		
6	6	plastic collapse, analysis		
7	7	plastic analysis applied to steel beams and simple portal frames and design		
8	8	plastic analysis applied to steel beams and simple portal frames and design		
9	9	Design examples		
10	10	Design examples		
11	11	Industrial Buildings: Loads		
12	12	general arrangement and stability, design considerations		
13	13	design of purlins		
14	14	design of roof trusses		
15	15	industrial building frames		
16	16	bracings and stepped columns		
17	17	Design of Water Tanks: Introduction		
18	18	permissible stresses, design of circular		
19	19	design of rectangular tank		
20	20	pressed steel tanks including staging		
21	21	Design of Steel Stacks: Introduction		
22	22	design of rectangular tank		
23	23	pressed steel tanks including staging		

24	24	various loads to be considered for the design of steel stacks		
25	25	design of steel stacks including foundation		
26	26	Towers: Transmission line towers, microwave towers		
27	27	Design loads, classification		
28	28	design procedure and specification		
29	29	Cold Formed Sections: Introduction		
30	30	brief description of various type of cold-formed sections		
31	31	local buckling, concepts of effective width		
32	32	effective sections,		
33	33	elements with stiffeners		
34	34	design of compression and bending elements		
35	35	Design examples		

Signature:

Date: