III Year-II Semester
(20CE6110) Structural Design Lab

Int. Marks	Ext. Marks	Total Marks	L	T	P	C
15	35	50	-	-	3	1.5

Pre- Requisites: Fundamentals of DRCS

Course Objectives:
The objectives of this course are**:**

- To design2-Dframe analysis and 2-Dframe design
- To design steel tabular truss analysis and steel tabulartruss design
- To design3-Dframeanalysisand3-Dframe design
- To design retaining wall analysis and retaining wall design
- To design tower analysis and simple tower design

EXCERCISES:

1. 2-DFrameAnalysis
2. 2-DFrameDesign
3. Steel Tabular Truss Analysis
4. Steel Tabular Truss Design
5. 3-DFrameAnalysis
6. 3-DFrameDesign
7. Retaining Wall Analysis
8. Retaining Wall Design
9. Simple Tower Analysis
10. Simple tower Design
11. Analysis of Multi storeyed structure
12. Design of Multi storeyed structure

Software:
1. STAAD Pro or EQUIVALENT

Course Outcomes:

S.No	Course Outcomes	BTL
1	Analyze and Design 2D frame	L4
2	Analyze and Design steel tabular truss	L4
3	Analyze and Design 3-D frame	L4
4	Analyze and Design retaining wall	L4
5	Analyze and Design simple tower	L4

Correlation of Cos with POs & PSOs:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	2	-	3	-	-	-	-	-	-	1	2	-	2
CO2	3	2	2	-	3	-	-	-	-	-	-	1	2	-	2
CO3	3	2	2	-	3	-	-	-	-	-	-	1	2	-	2
CO4	3	2	2	-	3	-	-	-	-	-	-	1	2	-	2
CO5	3	2	2	-	3	-	-	-	-	-	-	1	2	-	2