Course Type	Course Code	Name of the course	L	T	P	Credit
DP	CEC307	Structural Detailing Laboratory	0	0	2	2

Course Objective

To acquire exhaustive knowledge on design and detailing of various structural components of civil infrastructures.

Learning Outcomes

After studying this course, students should be able to:

- Understand the design and detailing of various members of concrete structures.
- Develop knowledge on design and detailing of connections and components of steel structures.

Unit No.	Topics to be Covered	Laboratory	Learning Outcome
1	Sessional-1 Design and detailing of singly and doubly reinforced concrete beams.	2	Understand the detailing of reinforced concrete beams
2	Sessional -2 Detailing of one way and two- way concrete slabs	1	Acquire knowledge on detailing of one- way and two-way slabs
3	Sessional -3 Detailing of staircase	1	Familiar with detailing of staircase
4	Sessional -4 Detailing of RC columns and footings	1	Comprehend the detailing of columns and footings
5	Sessional -5 Detailing of retaining walls	1	Understand the detailing of retaining wall
6	Sessional -6 Detailing of bolted and welded connections of steel structures	1	Knowledge on detailing of various connections of steel structures
7	Sessional-7 Detailing of tension and compression members	1	Understand the detailing of tension and compression members
8	Sessional -8 Detailing of laced and battened columns	1	Comprehend the detailing of steel columns with lacing and batten
9	Sessional -9 Detailing of steel beams and beam- column connections	1	Knowledge on detailing of steel beams and beam-column connections
10	Sessional -10 Detailing of column base and gusset base	1	Understand the detailing of column base and gusset base
11	Sessional -11 Detailing of roof truss with purlins	1	Grasp the detailing of roof truss with purlins
12	Revision and Evaluation	2	

Text Books:

1. Relevant Indian and International Standard codes of practices