REINFORCED CONCRETE DETAILING LAB

Course Code: 20CE1121

L T P C 0 0 3 1.5

Pre-requisites: Engineering Drawing

Course Outcomes:

At the end of the course, the student will be able to detail the:

- **CO1:** R.C Cantilever beam and slab (L3)
- **CO2:** Two- span R.C continuous beam (L3)
- CO3: Three- span continuous slab and sunken slab (L3)
- **CO4:** R.C isolated and combined footing (L3)
- **CO5:** Cantilever retaining wall (L3)

(Any 12 out of 14 experiments)

LIST OF EXERCISES:

(Drawings should be prepared in standard template)

- 1. Detailing of R.C Cantilever beam and slab.
- 2. Detailing of single span simply supported Beam
- 3. Detailing of two span simply supported R.C continuous beam.
- 4. Detailing of two span fixed R.C continuous beam.
- 5. Detailing of three span continuous slab.
- 6. Detailing of Sunken slab cross section.
- 7. Detailing of Isolated footing.
- 8. Detailing of Combined Footing.
- 9. Detailing of Raft foundation.
- 10. Detailing of under reamed Pile.
- 11. Detailing of Pile cap (Two & Three pile group)
- 12. Detailing of R.C Portal Frame.
- 13. Detailing of Cantilever retaining wall.
- 14. Prepare Bar Bending schedule and estimate reinforcement.

References:

- 1. SP: 34, "Hand book on concrete reinforcement and detailing."
- 2. SP: 24, "Explanatory handbook on Indian standard code of practice for plain & reinforced concrete".