

III Year - II Semester
20CE6204

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FOUNDATION ENGINEERING LAB

COURSE OBJECTIVES:

Students will have to

- learn the design of Isolated Square footing (Axial)
- learn the design of Isolated Stepped Footing
- learn the design of Strap Footing
- learn the design of eccentric footing
- learn the design of Combined Footing

COURSE OUTCOMES:

After the completion of the course, students will be able to

- Design Isolated Square footing (Axial)
- Design Isolated Stepped Footing
- Design Strap Footing
- Design Eccentric Footing
- Design Combined Footing

EXERCISES:

1. Design of Isolated Square Footing- Sample-1
2. Design of Isolated Square Footing-Sample-2
3. Design of Stepped Footing-Sample-1
4. Design of Stepped Footing-Sample-2
5. Design of Strap Footing
6. Design of Eccentric Footing
7. Design of Combined Footing
8. Design of Multistoried Building with Footing Design

Software Tool:

STAAD Foundation or Equivalent

1. Reinforced Concrete Structures, S. Unnikrishna Pillai & Devdas Menon, Tata Mc.Graw Hill, New Delhi.

References:

1. R C C Design, B.C Punmia, A. K. Jain and A. K Jain. Lakshmi Publications
2. Reinforced Concrete Structures, N. Krishna Raju & R. N. Pranesh, New Age Publications.

IS Codes:

1. IS -456-2000 Code of practice for Reinforced Concrete Structures (Permitted to use in examination hall)
2. IS – 875, SP-16

	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