INSTITUTE OF MANAGEMENT & TECHNOLOGY

INNOVATION • MOTIVATION • TRANSFORMATION

DESIGN OF RC ELEMENT LAB (BCEP-501)

Course Outcomes:

1. Students will understand the general mechanical behavior of reinforced concrete.
2. Students will be able to analyze and design reinforced concrete flexural members.
3. Student will be able to analyze and design reinforced concrete compression members.
4. Students will be able to analyze and design for deflection and crack control of reinforced concrete members.
5. Students will be able to identify and apply the applicable industry. design codes relevant to the design of reinforced concrete members.

List of Experiments:

1. Singly and Doubly reinforced rectangular & Flanged Beams.
2. Slabs spanning in one direction, Slabs spanning in two directions, Circular slabs
3. Staircases with waist slab having equal and unequal flights with different support conditions, Slabless tread-riser staircase. Design of staircases.
4. Square, Rectangular and Circular columns
5. Isolated and combined footings, Strap footing.
6. Retaining walls and basement walls

Department of Civil Engineering