

CE372A: Reinforced Cement Concrete Design**2-0-0-0 [6]****Course Contents:**

Reinforced concrete (RC) structures, Loadings, analytical models for analysis and design of RC structures, Design Methodologies: Working Stress Method and Limit State Method; Behaviour of RC members under flexure; Working stress design for common flexural members; Limit state design of beams and slabs (one way and two way) for flexure; Singly and doubly reinforced sections; rectangular and flanged sections; Shear and torsion; Bond and anchorage; Short columns under axial compression, Short columns under axial compression with uni-axial bending, Short columns under axial compression with biaxial bending; Slender columns Types of footings; design of isolated /combined footing.