CVE 401: DESIGN OF CONCRETE STRUCTURE I (3 Units)

Limit state design – general assumptions, code BS 8110: material and loads. Serviceability limit states. Rules for arrangements of reinforcements. Singly reinforced beams, rectangular and flanged sections. Doubly reinforced beams. Curtailment of reinforcement. Shear in beams; torsion and shear. Columns. Interaction of bending and compression. One way spanning slabs. One way ribbed slabs. Students project.