

## ADVANCED REINFORCED CONCRETE DESIGN

### Module I:

Limit state design concepts in flexure, shear, torsion and combined stresses. Slender column

### Module II:

Safety and serviceability, control of cracks and deflections.

### Module III:

Yield line theory analysis of slabs, work and equilibrium methods.

### Module IV:

Introduction to limit design of beams and frames. General principles and philosophies of design with special references to the codal provisions. Serviceability and stability requirements.

### Books:

- 1) Park & Paunlay, "Reinforced Concrete Structures".
- 2) Ramakrishna & Arthur, "Ultimate strength design for structural concrete".
- 3) B.I.S. Codes