

# EZ – RCC STRUCTURE CONCEPTS

- ✓ **Basic Fundamentals**
  - Location of Main reinforcement, anchor bars, stirrups, hooks
  - One way & Two way
  - Under & Over Reinforcement, Balanced Section
  - Singly & Doubly Beams
  
- ✓ **RCC Foundation**
  - Stability Checks
  - Base Pressure including Direct & Bending Theory
  - Net SBC, Gross SBC
  
- ✓ **Soil and Water Pressure**
  - Active & Passive Pressure, Pressure at Rest
  - Hydro Static Pressure
  - Calculation of Force and Moments due to above pressures
  - Retaining Wall
  
- ✓ **Governing cases of different types of footings**
- ✓ **Development Length**
- ✓ **Flexibility of footing (redistribution)**
- ✓ **Pile Foundation**
- ✓ **Footing Excel Sheets**
- ✓ **Shear key in Footing**
  
- ✓ **Limit State Theory**
  - Basic Parameters
  - Design of RCC Beam
  - Reinforcement Percentage :  $p_{tact}$ ,  $p_{lim}$ ,  $p_{trequired}$
  - Shear Design
  - Design of Column
  - Design of Footing including Shear Checks
  
- ✓ **Loads & load combination**
- ✓ **Excel Design Templates, Codes IS 456, Tables from SP 16, SP-34, IS 1904, RCC Standard Drawings and Project Drawings**
- ✓ **Rebar location for all type of structures (inside/outside, Main/Distribution)**
- ✓ **Tang Chart & Moody's Chart**
  
- ✓ **Miscellaneous**
  - Base Plate, Anchor bolt & Shear key
  - Suspended and Grade Slab
  - Limit State & Working Stress
  - Items Which need to be Finalize before Foundation Design
  - Type of Company/owner/EPC/PMC/Vendors, Work philosophy for Steel & RCC structure
  
- ✓ **Visit**