

WELCOME TO GURURAYAR ASSOCIATES









Overall Contents Of Practical RCC Structural Design Application Course (RCC) Syllabus:-

- Structural design basics & concepts Theory in practical way.
- Practical Loading Calculation f(Gravity &Lateral) or RCC & STEEL Structures.
- Manual Design of RCC Superstructure (Slab,Beam,Column) in XL.
- Manual Design of RCC Sub-structure (Shallow & Deep Foundations) in XL.
- Etabs software design of RCC G+9 building.
- RCDC software automated detail drawings generation.
- SAFE software combined and MAT footing design.

GENERAL PART:-

- Conceptual Application of Structures in Residential, Commercial and Industrial fields.
- Introduction of Basics of Structures & Technical terms
- IS codes for various analysis, design and detailing & Small Frame Analysis Load transfer concept in in XL sheet.
- Gravity Load manual calculations (DL,LL,FF,EQPL) in XL sheet.
- Wind & Seismic load manual calculations in XL sheet.

RCC DESIGN PART:-

- One Way Slab manual Design in XL sheet.
- Two Way Slab manual Design in XL sheet.
- Beam manual Design (Singly and Doubly reinforced beams) in XL sheet.
- Column manual design(Axial Gravity, Uniaxial, Biaxial Bending types) in XL sheet.
- Staadpro OR Etabs analysis and design software intoduction, input through Various tab, modelling.

(Contd..)

RCC DESIGN PART:- (Contd..)

- Staadpro OR Etabs analysis and design of slabs, beams and columns.
- Staadpro OR Etabs result extraction and minor manual exceptional checks that are not covered in software.
- Ductile & Non-ductile frame design.
- > Footing manual Design in XL sheet.
- Footing design in RCDC software
- Pile cap manual conceptual design in XL sheet.
- Pile reinforcement manual Design in XL sheet.

- Pile cap design in RCDC software.
- Combined & Mat Foundation design SAFE software. (This is special inclusion for timely fee-paying persons only)

PROJECT WORK:-

RCC:-

Design of G+9 building

Project submission, Review and Q&A.