

SYLLABUS FOR PRACTICAL STEEL STRUCTURAL DESIGN APPLICATION COURSE

WELCOME TO GURURAYAR ASSOCIATES

GURURAYAR ASSOCIATES
Engineering Consultancy and Webinar Trainings
Your Design Success!

STEEL Super Structure & Connection manual design course in xl sheet

WhatsApp call: +91 9629121300

Basic Concepts, loading calc, deck plate, beam, column, shear & moment bolted and welded connection (beam-beam, col-col, bracing, truss, baseplate, endplate etc) designs in MS Excel.

Fee: Instalments

Certificate Course

2 Months Course

Mode: Webinar

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

- ▶ Structural design basics & concepts Theory in practical way .
- ▶ Practical Loading Calculation f(Gravity &Lateral) or RCC & STEEL Structures.
- ▶ Manual design of STEEL super structure (Deck plate, Beam, Column) in XL.
- ▶ Manual design of all types of steel structure connections in XL.
- ▶ Etabs software design of Ware house STEEL structure with 5 ton EOT crane.
- ▶ PEB steel structure conceptual design in Etabs software.

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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.

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STEEL DESIGN PART:-

- Introduction to steel Structures.
- Industrial Building Steel Truss conceptual design.
- Tension Member manual design in XL sheet.
- Compression Member manual design in XL sheet.

(Contd...)

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STEEL DESIGN PART:- (Contd..)

- Flexural Member manual design in XL sheets.
- Tension, Compression and Flexural members design in staadpro OR Etabs software.
- Various Connections in manual Design in XL sheets.
- Connections design in Etabs OR Staadpro.
- Lifting analysis of Padeye through FEM method in staadpro
- Built up beam in Staadpro OR Etabs.

SYLLABUS FOR PRACTICAL STEEL STRUCTURAL DESIGN APPLICATION COURSE

PROJECT WORK:-

STEEL:-

- Design of Industrial Storage Building

Project submission, Review and Q&A.