

STAAD Pro

Staad pro is the structural analysis and designing software for developing the 2D models. Professional's first choice is Staad pro for model generation, analysis, visualization & result verification. Even you could design your dream home using Staad pro!

Introduction

- Introduction to STAAD Pro
- Introduction to Structural Analysis
- Role of Structural Analysis in Civil Engineering
- Types of Structures

Model Generation by Using

- STAAD Editor
- Snap/Node Beam Tool
- Structure Wizard

Model Optimization

- Material Constants
- Supports
- Member Specifications
- Grouping Members

Reviewing Structures

- Structure Analysis Methods
- Pre-print and Post-print analysis commands
- Performing analysis
- Viewing Results
- STAAD Output file
- SFD, BMD, Deflections
- Creating Report

Design Structures

- Concrete Design
- Beam and Column Design as per IS 456 /13920
- RC Designer
- Steel Design as per IS 800 /801
- One way and Two way slab load generators

Advanced Topics

- Shear Wall Modelling
- Flat Slab Modelling
- Raft Modelling
- Rigid Diaphragm
- Modelling using FEM

- Foundation Design using Spreadsheets
- Detail drafting using AutoCAD

Projects

- G+7 Commercial Building
- G+5 Residential Building
- Placing columns, beams, defining loads, supports, performing analysis and generating report.

Reviewing Codes

- Introduction to IS Codes: IS 456, IS 1893 IS 875, IS 800

Query Session

After completing workshop there will be a query session which will help students to clear all their doubts.

Competition

After the hand on theory and practical experience from the workshop, Competition will be conducted for the participants.

Certificate Distribution

Participants will get Participation Certificate and winners will get winning Certificates.