Course Outline

Introduction to STAAD.Pro V8i

- What is STAAD.Pro v8i
- Why, Where & Who Can use STAAD.Pro
- Overview of Structural Analysis and Design
- STAAD.Pro V8i
- STAAD Editor
- STAAD Editor
- Co-ordinate Systems
- Repeat and Repeat all method

Model Generation and Editing

- Creating Nodes
- Creating Members
- Model Generation
- Assign support in STAAD Editor
- Assign Property in STAAD Editor
- Loading in STAAD Editor
- Creating Models by using Structure Wizard
- Assign Support from Home Page
- Assign Support in Home Page
- Model Editing Tools
- Stair Case
- Translational Repeat, Circular Repeat

Introduction to Loading

- Creating a Primary Load
- Adding Selfweight
- Member Load
- Perform Analysis
- Pre-analysis Print
- Post-analysis Print
Automatic load generation

- Wind Load
- Moving Load
- Area Load
- Floor Load
- Load Combinations

Concrete Design

- Introduction to Concrete Design
- Adding Parameters
- Column and Beam Design
- Finding Quantity of Steel and Concrete
- Continues Beam

Seismology

- Seismology
- Introduction
- Standards for Earthquake Design
- General Principals for Earthquake Design
- Finding the Lateral Force by using STAAD.Pro

FEM/FEA

- Introduction
- Rectangular Water Tank Design
- Circular Water Tank Design
- Shearwall Design
- Staircase Design
- BEAVA
- Retaining Wall Design

Steel Design

- Introduction
- Steel Structure Design
- Transmission Tower
- Member Select
Report Generation

- Importing CAD Models
- Report Setup
- Plotting from STAAD.Pro
- Final Report
- Print Out