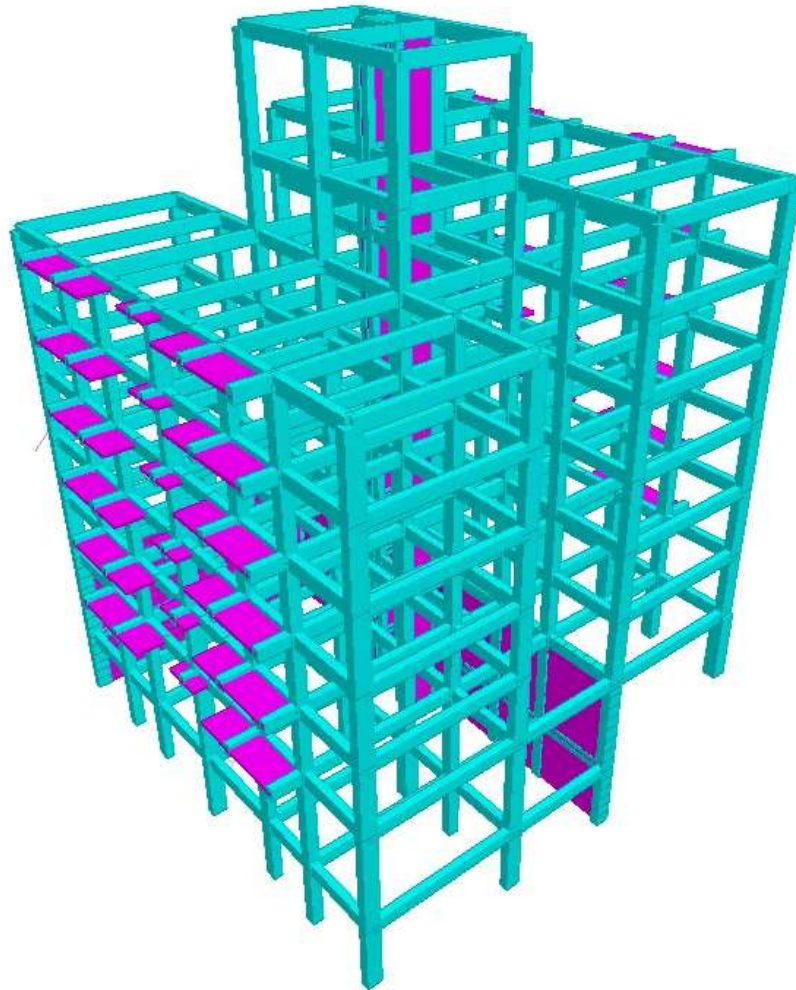


# STAAD PRO Workshop

Robotech Labs Private Limited





## **Staad Pro Workshop**

STAAD stands for Structural Analysis And Design. STAAD.Pro software is widely used in analyzing and designing structures – buildings, bridges, towers, transportation, industrial and utility structures. Designs can involve building structures including culverts, petrochemical plants, tunnels, bridges, piles; and building materials like steel, concrete, timber, aluminum, and cold-formed steel.

STAAD.Pro helps structural engineers automate their tasks by removing the tedious and long procedures of the manual methods.

Students are introduced to the concepts of structure modelling, analysis, design and documentation. This course offers hands-on exercises representing real-world structural design scenarios.

### **Topics to be covered in the workshop:**

- Introduction to STAAD PRO
- General Features of STAAD PRO
- Introduction to Structural Analysis
- Role of Structural Analysis in Civil Engineering Projects
- Classification of Structures
- Analytical Models
- Analysis of Continuous Beams
- Analysis of Plane Truss
- Analysis of Portal Frame
- Modelling of 3D Portal Frame from 2D Portal Frame
- How to Merge Two Structures
- Modelling Technique Using Cut and Paste and User Tables
- Analysis of Grillage Structures
- Analysis of Plate Structures
- Analysis and Design of Reinforced Concrete Structures
- Simply Supported Beam with Full Lateral Restraint
- Simply Supported Beam with Lateral Restraint at Point Loads
- Simply Supported Beam without Intermediate Restraints
- Column with Pinned Ends and Intermediate Support
- Super Structure Design – Covers both Steel and Concrete Members.



- Assigning Code to Structure.
- Assigning Various Parameters to Structure.
- Slenderness and Unsupported Length Commands.
- Assigning Commands to Structure.
- Performing Analysis after Design.
- Working with Editor Input file of Staad.
- Familiarity with Various Commands used in Staad Input File.
- Using Post Processing Command in the Structure.
- Analyzing various Analysis Results at various members and
- Joints.
- Viewing Staad Output File – Design File of Structure.

Every Topic will be discussed using a practical approach.

### **Charges:**

**Rs1100 per person.**

### **Duration**

2 Days( 14-16 Hours)

### **Certification:**

**Certificate of Excellence from Robotech Labs Private Limited and our associates.**

### **Requirements:**

**Seminar Hall, Projector, Sound System and Internet Connection.**