



# STAAD.Pro

CONNECT Edition



**W E B F L E X**  
C O N S U L T A N C Y  
Service Private Limited

# TRAINING SUMMARY

**TOTAL DURATION :-144 HOURS**

**48 HOURS LIVE PRACTICAL TRAINING  
WITH**

**96 HOURS LIVE PRACTICAL TRAINING SUPPORT  
VIA MICROSOFT TEAM, REMOTE ACCESS,  
WHATSAPP,MOBILE ,EMAIL ETC**

**STUDENT WILL ALSO GET SOFTCOPY OF STUDY  
MATERIALS,SESSION WISE VIDEO TUTORIALS,DAY TO  
DAY CLASS VIDEO RECORDING ON DEMAND.**

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The best just got better.

# STAADPRO SYLLABUS

Created by industry Experts, Students learn by doing actual drawings with Official Certified Instructors. Students are taught many commands and tools to create drawings fast and easy. Our Certified Instructors will make sure no one is left behind.

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# STUDENT WILL LEARN

## Chapter 1:

Before you start using Bentley STAAD.Pro a. Understanding Unit Conversion Tables b. Overview of Structural Design & Analysis c. Stresses and Strains d. Shear Force & Bending Moment Diagrams e. Introduction to Types of Structures f. Overview of Steel, Concrete and Foundation Design g. Introduction to Finite Element Analysis .

## Chapter 2:

Introduction to STAAD.Pro,About Bentley STAAD.Pro,Starting STAAD.Pro,Graphical User Interface,Starting a New Project,Working with User Interface:-Menu Bars/Tool Bars/Tabs/Snap Node/Beam /Window/Data Area/Main Window,Opening and Existing Project, Saving a Project,Configuring Units,Keyboard Shortcuts,Importing Model in STAAD.Pro,Coordinate Systemes

# STUDENT WILL LEARN

## Chapter 3:

Structural Modeling-Adding Beams using Tools/Creating Beams (Colinear, Along Axes)/Creating Plates/Creating Surfaces/Creating Solid Elements/Creating Structure/Stretching and Intersecting Members/Merging Members and Nodes/Renumbering Nodes, Members and Elements/Splitting and Breaking Beams/Cutting Sections

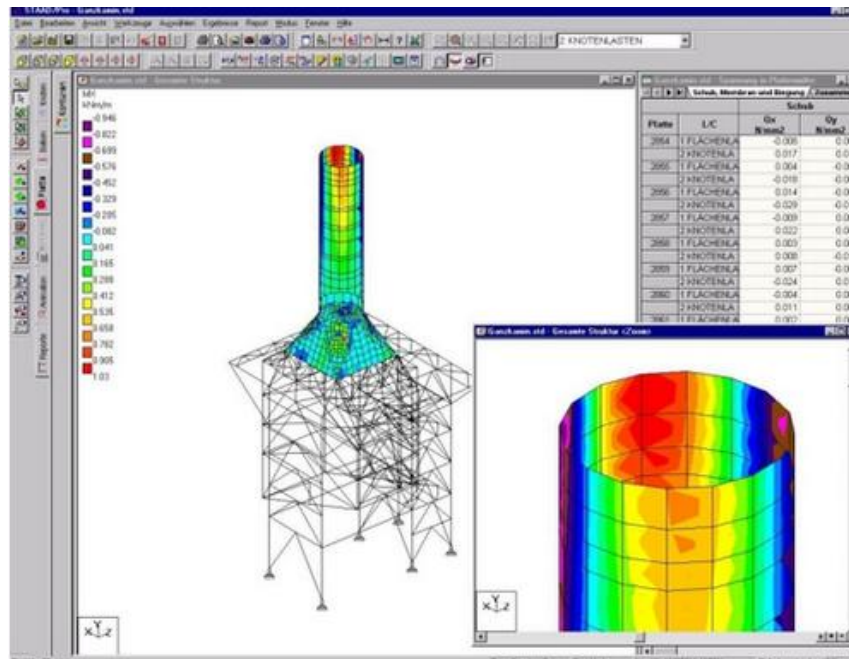
## Chapter 4:

Material Constants and Section Properties- Material Constants/Creating and Editing Material Properties/Assigning Materials to the Structure/Orthotropic Materials/Section Properties-Prismatic Sections /Tapered Sections/Steel Sections/Steel Joist and Joist Girders/Plate/Surface Thickness

# STUDENT WILL LEARN

## Chapter 5:

Member Specifications and Supports-Node Specification/Member Specifications/Release/Offset/Property Reduction factors/Cable/Truss/Compression/Tension/Inactive,Plate Specifications-Release /Ignore Inplane Rotation/Plane Stress,Supports:-Fixed/Pinned/Fixed But/Enforced/Enforced But/Multilinear Spring/Foundation/ Inclined/Tension/Compression Only Springs

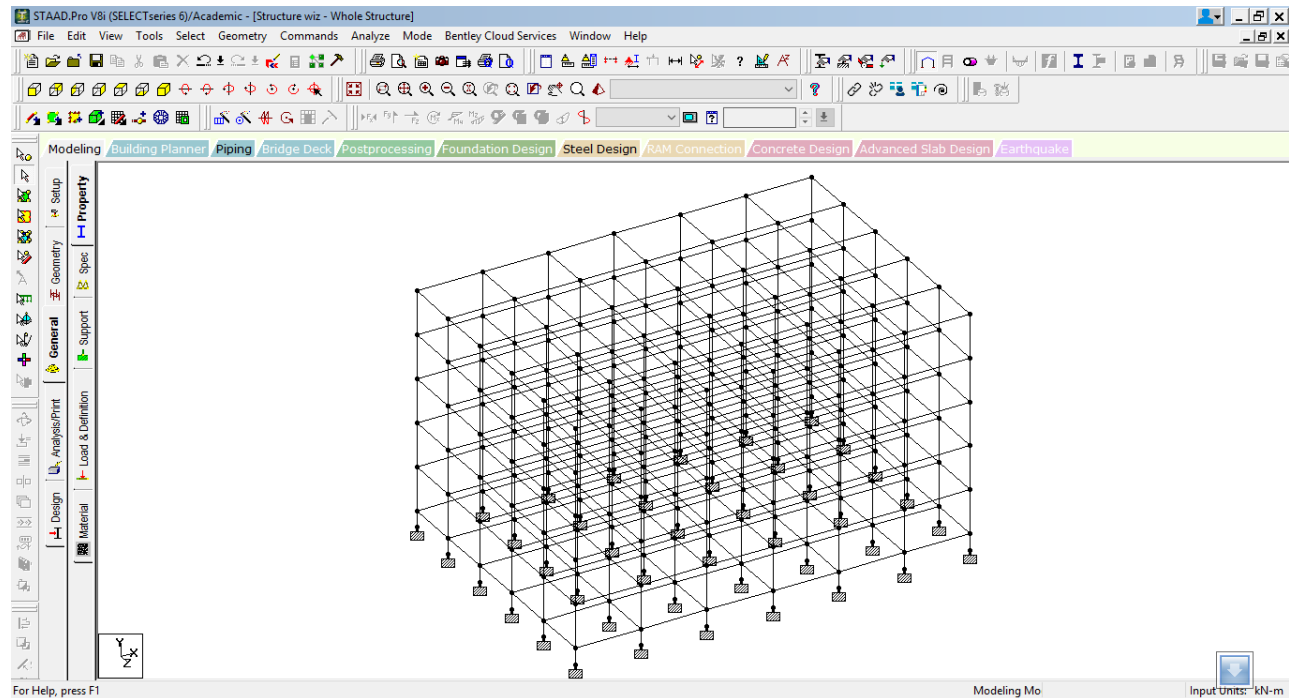


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# STUDENT WILL LEARN

## Chapter 6:

Loads-Types of Loads: Selfweight, Nodal, Member, Area, Floor, Plate, Surface and Solid, Load Generation ,Load Combinations

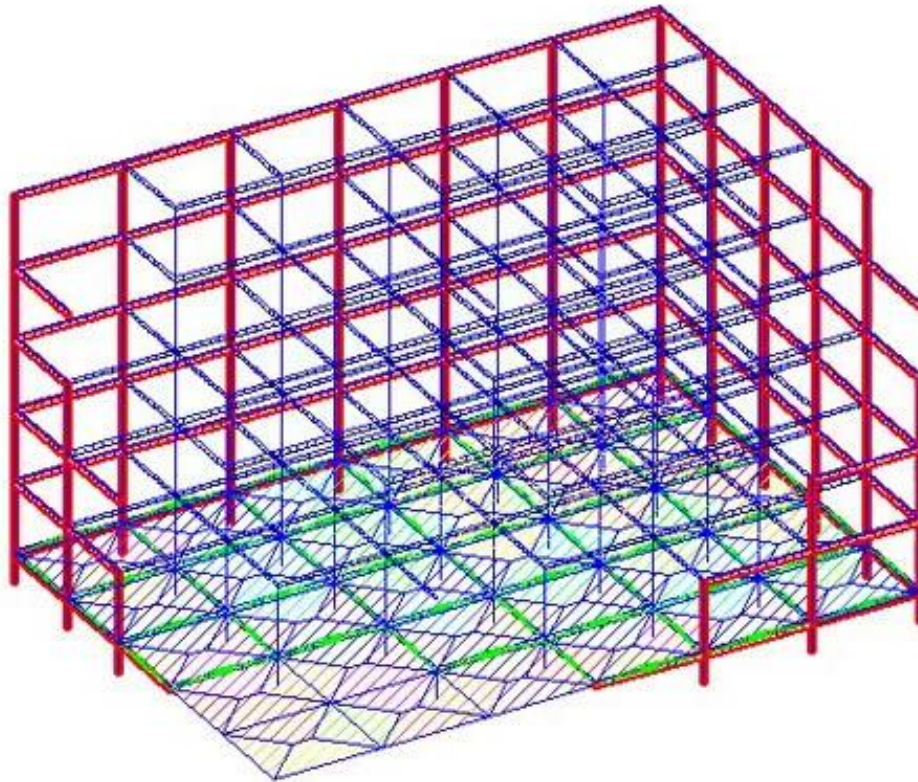


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## Chapter 7:

Performing Analysis -Pre Analysis:Problem Statistics/Joint  
Coordinates/Member Information/Material Properties/Support  
Information/Element & Solid Information,Performing Analysis



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# STUDENT WILL LEARN

## Chapter 8:

Post Processing & Report Creation-

Post Analysis Print-Load

Lists/Joint

Displacement/Member

Forces/Support

Reactions/CG/Mode

Shapes/Section

Displacement/Analysis

Results/Member

Stresses/Element

Forces/Stresses

Viewing Results, Output File

Post Processing Mode

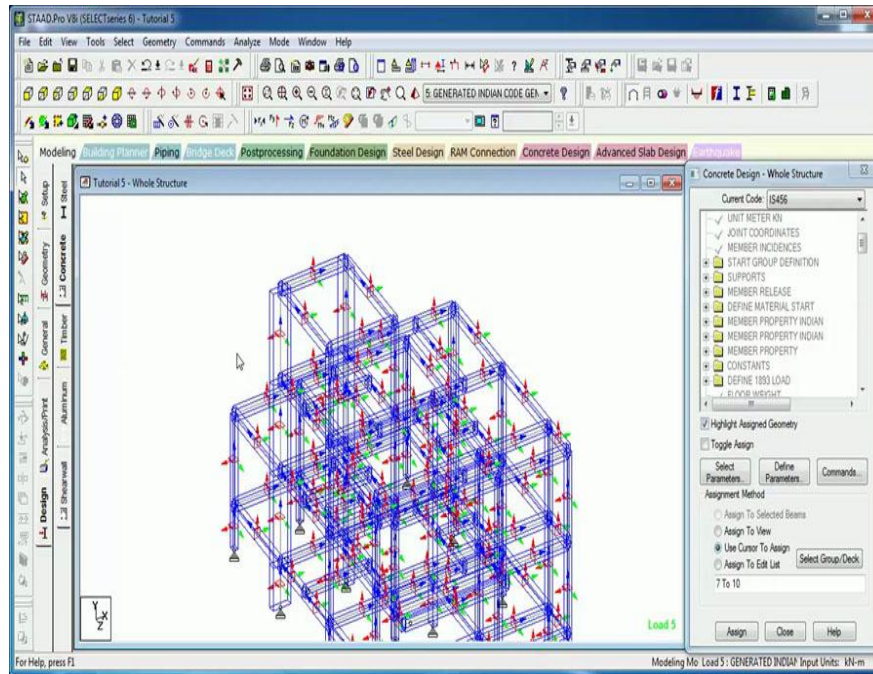
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# STUDENT WILL LEARN

## Chapter 9:

Analysis Case Studies / Workshops,RCC Design & Analysis (Beams and Columns),Steel Design & Analysis (Frames and Trusses),Miscellaneous Analysis,Practice examples for Students

## Project



**STUDENT WILL BE ELIGIBLE FOR COURSE COMPLETION CERTIFICATE AFTER SUCCESSFUL COMPLETION OF TRAINING.**