



STAAD PRO





About Course

STAAD is the abbreviation for Structural Analysis and Design. STAAD.Pro is one of the popular software that is used for analysing & designing structures like – buildings, towers, bridges, industrial, transportation and utility structures.

It makes structural and design analysis easier for you. Compared to the manual analysis and design process, Staad Pro assists you to save a lot of time.

STAAD-PRO CURRICULUM

1 INTRODUCTION

STAAD Pro Introduction Starting Staad. Pro Creating New file Opening Existing File Closing a file Saving & Saving As Module Review Salient Features Hardware Requirements StaadPro Screen information Overview of Structural Analysis and Design Types of Structure Idealization of Structures Various Unit Systems Coordinate Systems Staad Commands And Input Instructions Command Formats

INTRODUCTION



Problem Initiation And Title
What are Nodes, Beams, and Plates
How things are done in the Input File
Geometry Creation Methods
Using Structure Wizard
Viewing
Selecting
Using Selecting While viewing 3D Geometry
Joint Coordinate Specification
Member Incidence Specification

OTHER USEFUL FUNCTION TO COMPLETE THE GEOMETRY

Introduction
Translation Repeat
Circular Repeat
Insert Node
Add Beams between midpoints
Connect beams along an Axis
Cut Section
Undo / Redo
Dimensioning

PROPERTY DETAILS



Material Specifications
Member Property Specification
User Table Specification
Member Orientation Specification

5) MEMBER

Inactive / Delete Specification
Listing of Members / Joints by Specifications of Groups
Member Offset
Member Release Specification
Member Truss Specification
Member Tension / Member Compression Specification
Global Support Specification
Curved Member Specifications
Member Cable Specifications

LOADING PARTICULARS

Loading Specification
Self weight Loading Specification
Member Load Specification
Area Load / Floor Load
Load Combination Specification

ANALYSIS



Analysis Specification
Print Specification
Load List Specifications

POST PROCESSING

Introduction
First Steps
Beam Graphs
Plate Contour
Plate Results Along line
Animation
Reports

R. C. DESIGN

Concrete Design As per IS:456
Design of Beams
Design of Columns
Concrete Design Specifications
Concrete Design Parameter Specifications
Concrete Design Command
Concrete Take Off
Concrete Design Terminator

STEEL DESIGN



Steel Design As per IS:800
Allowable Stresses
Parameter Specifications
Code Checking Specification
Member Selection Specification
Tabulated Results Of Steel Design
Interactive Designs

3 SEISMIC ANALYSIS

Introduction to Seismic analysis
Earthquake loading in high rise buildings
Implementation of various load combinations of
Earthquake analysis using IS:1893
Analysis and Design of building considering
Earthquakeloading

WIND LOAD ANALYSIS

Introduction to Wind load analysis
Calculation of wind forces in High rise building
Analysis and Design of building for Wind loading

























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