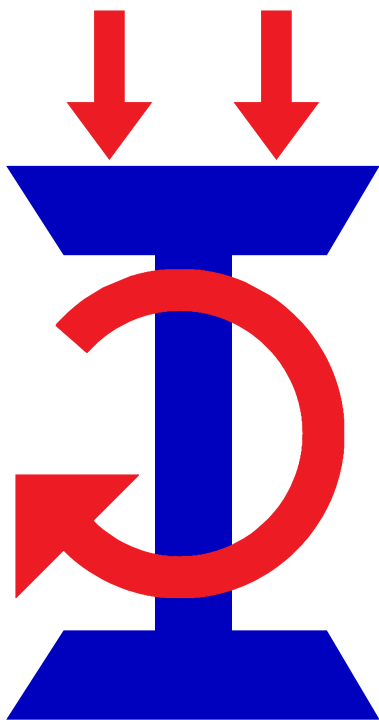


# WINTER TRAINING 2018-19



# STAAD. PRO

# STAAD<sub>pro</sub>

## Geometry

- Understanding STAAD Pro Way
- What are Nodes, Beams and Plates?
- How things are done in the Input file?
- Geometry Creation methods
- Method 1: Using Structure Wizard
- Things you can do in Structure Wizard
- Method 2: Drafting the Geometry using Snap/Grid
- Viewing
- Selecting
- Using Selecting While Viewing 3D Geometry
- Method 3: Using Copy/Cut with Paste
- Method 4: Using Spreadsheet (Excel) Copy and Paste
- Method 5: Using DXF importing file function
- Workshop
- Module Review

## Useful Function to Complete the Geometry

- Introduction
- Translational Repeat
- Circular Repeat
- Mirror
- Rotate
- Move
- Insert Node
- Add Beam Between Mid-Points
- Add Beam by Perpendicular Intersection
- Connect Beams along an Axis
- Intersect Selected Members
- Cut Section
- Renumber
- Delete
- Undo/Redo
- Zooming/Panning
- Dimensioning
- Pointing to Nodes, Beams, and Plates
- Global and Local Coordinate System
- Workshop
- Module Review

## Properties

- Introduction
- Property Types
- Type 1: Prismatic
- Viewing Cross-Section
- Type 2: Built-In Steel Table
- Type 3: Thickness

- General Notes about Property Assigning
- Workshop
- Module Review

## Constants, Supports, and Specifications

- Introduction
- Material Constants
- Geometry Constant
- Supports
- How to Assign Supports
- Editing supports
- Specifications
- Workshop
- Module Review

## Loading

- Introduction
- How to Create Primary Load
- Individual Loads: Introduction
- Individual Loads: Selfweight
- Individual Loads: Members Loads
- Individual Loads: Area Load
- Individual Loads: Floor Load
- Individual Loads: Plate Loads
- Individual Loads: Node Load
- Individual Loads: Viewing & Editing
- How to Create Manual Combinations
- How to Create Automatic combinations
- Workshop
- Module Review

## Analysis

- Introduction
- Perform Analysis Command
- P-Delta Analysis Command
- Non-Linear Analysis Command
- The Execution Command
- Workshop
- Module Review

## Post Processing

- Introduction
- First Step
- Node Displacement
- Node Reactions
- Beam Forces
- Beam Stresses
- Beam Graphs
- Plate Contour
- Plate Results Along Line
- Animation
- Reports