



In Association with Mahavir Traders

# BASIC TO ADVANCED TRAINING FOR STAAD.PRO

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**ONLINE COURSE ID : STAAD-STR-001**

email address :  
[onlinecourses@sqveconsultants.com](mailto:onlinecourses@sqveconsultants.com)

## INTRODUCTION

- Structural engineering related design is becoming increasingly complex as the Indian standard codes are gradually migrating towards the global design practices. It is utmost important for the engineer to know limitations of the software and overall methodology adopted towards compliance of different clauses of the codes.
- With this objective, this course is specifically designed for the **students & working professionals** who do not have much prior exposure to **STAAD.Pro** software and they want to learn the software from scratch.
- In the training module, from the **basic to advanced functions** of STAAD.Pro will be covered. It will include geometry generation, placement of columns & beams, application of loads, interpretation of the analysis results, design of major elements, etc. for RCC & Steel structures. The course will cover the advance topics like structural dynamics, FEM using STAAD.Pro.
- Along with the software training, we will also discuss briefly **important clauses of IS codes** wherein generally the practicing engineers are facing difficulties and how the same may be considered in the software.
- We will also discuss the methodology for verification of the results as well as for validation of the software.
- Recording will be shared with the registered participants so that they can practice after the training program.

## WHAT IS UNIQUE ABOUT THE COURSE?

- ✓ The course is designed by the **experienced engineer** Bhavin Shah who has hands on experience of 20+ years using STAAD.Pro.
- ✓ The entire course is designed from the **practical aspects** which can be readily used in the real projects.
- ✓ The course duration is **1 month** and there are ample opportunity of interaction with the mentor.
- ✓ Mahavir Traders shall provide **training license to registered participants/students** for the duration of the training.
- ✓ The tutorial / exercise will be given to the participant during each session so that they get the hands-on experience related to software.
- ✓ The course is designed to have an **interactive mode** so that the problems / doubts of the participants can be addressed effectively.
- ✓ Certificate for participation will be issued through **Bentley Institute** in association with **Mahavir Traders** on successful completion of the online course (minimum 80% of attendance is required).

## WHO SHOULD ATTEND?

This course will be useful for following :

- ✓ **Students of Civil Engineering**
- ✓ **Students of Structural Engineering**
- ✓ **Working professionals in Civil / Structural Engineering**

(who do not have much exposure of STAAD.Pro and want to learn the software from scratch...)

## COURSE FACULTY

### ABOUT THE FACILITATOR



**Mr. Bhavin Shah** is passionate about Engineering profession with two decades of experience. He is having a dream for enhancing the engineering profession in different organisations. He completed graduation in Civil Engineering and Masters in Structures from Sardar Patel University. He is having unique experience of working in the specialized firm of civil / structural consultancy which grew as multidisciplinary firm (VMS), large multidisciplinary firm (L&T Chiyoda Ltd.) and owner based engineering set up (Adani Infra (I) Ltd.). He worked in different organisations at different levels, starting from junior design engineer to CEO. He is Founder & CEO of **SQVe Consultants**. He is pursuing Ph.D. in Structural Engineering.

## METHODOLOGY

- ✓ The entire course is designed in the **ONLINE** mode.
- ✓ The course will spread over **FOUR WEEKS** with **approximate 21+ contact hours**.
- ✓ Four weeks are considered so that the participants have ample opportunities for raising their **doubts / queries** related to the subject.
- ✓ The course includes few **tutorials** wherein the participants will get hands on experience for usage of the STAAD.Pro.
- ✓ The online sessions will be conducted using **ZOOM software**.

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## COURSE STARTS FROM...

The course will commence on **1-JULY-2021**. The detailed schedule is mentioned in the following page.

## FEES FOR THE COURSE\*\*

<b>For practicing structural engineers &amp; Faculty members</b>	Cost per participant shall be <b>10,500 INR</b> (inclusive of 18% GST).
<b>For students</b>	Cost per participant shall be <b>8,750 INR</b> (inclusive of 18% GST).

\*\*Attractive discount will be offered for the group registration. For three nos. of registrations in a group, 10% discount will be offered. For six nos. of registrations in a group, 15% discount will be offered. For group registrations, the participants need not be from same institute / company.

The discount value will increase with more number of participants in a group. Please contact us at the email address for more details : [onlinecourses@sqveconsultants.com](mailto:onlinecourses@sqveconsultants.com)

## HOW TO REGISTER FOR THE COURSE?

- 1) Please click on the following link:  
<https://sqveconsultants.com/staad-str-001/>
- 2) Click on “**Register Now**” button at bottom of the page
- 3) You will be directed to the payment page.
- 4) For group registration and discount, please contact us. We will share an invoice and the payment details separately.

*Kindly note that there are **limited seats**. Also, please register as early as possible since there are **few formalities** to be completed for **installation of the official license** in computer of the participant for training period.*

Your any queries/ doubts related to the course shall be addressed to the email address : [onlinecourses@sqveconsultants.com](mailto:onlinecourses@sqveconsultants.com)

## SCHEDULE OF THE COURSE : STAAD-STR-001

The following table shows schedule of the course along with the brief details of each session.

Session no.	Brief details	Date	Time
1	Overall approach to the software - Introduction	1-JUL-21	7:30PM TO 8:30 PM
2	Getting started : Overview of the STAAD.Pro environment, Keyboard shortcuts, Documentation, Member local and global axis, etc.	2-JULY-21	7:30PM TO 8:30 PM
3	Modelling : Creating model objects, Properties and specifications, Supports, etc.	5-JUL-21	7:30PM TO 8:30 PM
4	Overview of the IS Codes : IS 875 (Part 1 & 2) – For calculation of Dead load and Live load – Application of load in STAAD.Pro	6-JUL-21	7:30PM TO 8:30 PM
5	Overview of the IS Codes : IS 875 (Part 3) : 2015 – For wind force estimation for low rise and tall structures – Application of load in STAAD.Pro	7-JUL-21	7:30PM TO 8:30 PM
6	Overview of the IS Codes : Limit state design as per IS 800:2007 – part 1	8-JUL-21	7:30PM TO 8:30 PM
7	Overview of the IS Codes : Limit state design as per IS 800:2007 – part 2 – Features available in STAAD.Pro	12-JUL-21	7:30PM TO 8:30 PM
8	Overview of the IS codes : IS 1893 (Part 1) :2016, IS 13920, IS 1893 (Part 4) : 2015 - Part 1 and features available in STAAD.Pro	13-JUL-21	7:30PM TO 8:30 PM

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Session no.	Brief details	Date	Time
9	Overview of the IS codes : IS 1893 (Part 1) :2016, IS 13920, IS 1893 (Part 4) : 2015 - Part 2 and features available in STAAD.Pro	<b>14-JUL-21</b>	7:30PM TO 8:30 PM
10	Loads : Load application for Dead load, Live load, Wind load, Seismic load, etc., Create load list, load combinations, etc. in STAAD.Pro	<b>15-JUL-21</b>	7:30PM TO 8:30 PM
11	Technical references of few important STAAD commands Analysis : Types of analysis, Pre-analysis commands, To check for soft stories and seismic code irregularities, etc.	<b>19-JUL-21</b>	7:30PM TO 8:30 PM
12	Interpretation of the results – Statics check, deflected shape, mode shapes, etc.	<b>20-JUL-21</b>	7:30PM TO 8:30 PM
13	Understanding the basics of Structural Dynamics from the perspective of earthquake engineering and wind engineering – Features available in STAAD.Pro	<b>21-JUL-21</b>	7:30PM TO 8:30 PM
14	Design - Steel design and Concrete design in STAAD.Pro – Understanding of each design parameter and its impact on the design	<b>22-JUL-21</b>	7:30PM TO 8:30 PM
15	FEM design in STAAD.Pro – basics of finite elements, understanding of plate and solid elements, Simple examples to understand interpretation of the results	<b>26-JUL-21</b>	7:30PM TO 8:30 PM
16	Example -1 : RCC buildings – Starting from geometry creation to design of main elements – PART 1	<b>27-JUL-21</b>	7:30PM TO 8:30 PM
17	Example -1 : RCC buildings – Starting from geometry creation to design of main elements – PART 2	<b>28-JUL-21</b>	7:30PM TO 8:30 PM

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Session no.	Brief details	Date	Time
18	Example -2 : Steel structure – Starting from geometry creation to design of main elements – PART 1	<b>29-JUL-21</b>	7:30PM TO 8:30 PM
19	Example -2 : Steel structure – Starting from geometry creation to design of main elements – PART 2	<b>2-AUG-21</b>	7:30PM TO 8:30 PM
20	Importance of conceptual thinking while performing the analysis and design using the software	<b>3-AUG-21</b>	7:30PM TO 8:30 PM
21	Introduction to OpenSTAAD : How efficiency can be increased by automating the routine task?	<b>4-AUG-21</b>	7:30PM TO 8:30 PM

## About SQVe Consultants

**SQVe Consultants** is a recently established innovative company with a vision of enhancing the engineering profession. The name of the company is derived from first letters of goals of engineering, i.e. **S**chedule adherence, **Q**uality assurance & **Ve** -Value Engineering.

Our ALL services are designed to have maximum of ONLINE interaction with the least OFFLINE interaction.

We look forward for long term association with different organisations for enhancement of engineering profession through our unique services.

For more details, please refer website : <https://sqveconsultants.com>

You may contact us at email address : [contact@sqveconsultants.com](mailto:contact@sqveconsultants.com)

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