Fifteen Days Workshop on STAAD Pro Software

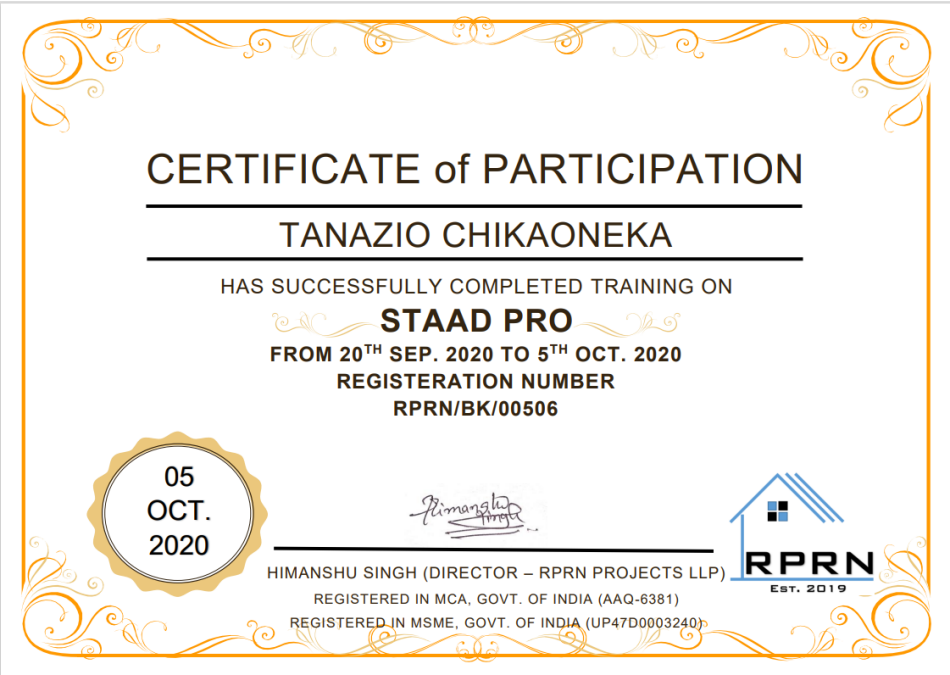
Department of Civil Engineering organized a workshop on STAAD Pro Software from September 20, 2020 to October 5, 2020 in online mode. Workshop was conducted by Mr. Himanshu Singh, Director of RPRN Projects LLP company. He has a wide experience in construction industry and software training. In total, **87 participants** attended the workshop.

The program was successfully completed under the auspices of:

- Prof. Ashok Kumar Gupta – HOD, Department of Civil Engineering, JUIT Waknaghat.
- Mr. Chandra Pal Gautam – Assistant Professor, Department of Civil Engineering, JUIT Waknaghat and Program Convener.

Salient Features

- Video Recording of all lectures given by the speaker of the Workshop is available with the organizing committee to be shared with participants if requested.
- Hands-on sessions were conducted and participants were given assignments.
- After the completion of workshop, each participant was provided a digital certificate.



Workshop Schedule

20/09/20	• Overall approach to the software – Introduction • Getting started: Overview of the STAAD.Pro environment, Keyboard shortcuts, Documentation, Member local and global axis, etc.
20/09/20	• Modelling: Creating model objects, Properties and specifications, Supports, etc.
22/09/20	• Overview of the IS Codes: IS 875 (Part 1 & 2) – For calculation of Dead load and Live load – Application of load in STAAD.Pro
23/09/20	• 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
24/09/20	• Overview of the IS Codes: Limit state design as per IS 800:2007 – part 1
25/09/20	• Overview of the IS Codes: Limit state design as per IS 800:2007 – part 2 Features available in STAAD.Pro
26/09/20	• 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
27/09/20	• 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
28/09/20	• Loads: Load application for Dead load, Live load, Wind load, Seismic load, etc., Create load list, load combinations, etc. in STAAD.Pro
29/09/20	• Technical references of few important STAAD commands Analysis: Types of analysis, Pre-analysis commands, to check for soft stories and seismic code irregularities, etc.
30/09/20	• Interpretation of the results – Statics check, deflected shape, mode shapes, etc.
01/10/21	• Understanding the basics of Structural Dynamics from the perspective of earthquake engineering and wind engineering – Features available in STAAD.Pro
02/10/21	• Design - Steel design and Concrete design in STAAD.Pro – Understanding of each design parameter and its impact on the design
03/10/21	• FEM design in STAAD.Pro – basics of finite elements, understanding of plate and Solid elements, Simple examples to understand interpretation of the results
04/10/21	• Examples RCC buildings – Starting from geometry creation to design of main elements
05/10/21	• Doubt session and closing of workshop