

WORKSHOP ON STAAD-PRO

Date: 15/09/2021
Semester: 5th (Civil)



Civil Engineering Department

Workshop Report

Objective-

The main objective was to go beyond the textbooks of DOS and explore how the theoretical concepts are applied in STAAD.Pro. It mainly focuses on role of it in designing of building.

Summary:

In the first session, basic information regarding STAAD.Pro was explained and was given to find reactions of some simple standard cases like simply supported beam subjected to udl, point load, etc. Then they were taught to draw SFD and BMD for beams and 2-D frames. After break they were given a plan of an existing building and they were how different loads are calculated and different combinations are made while designing a building. Then they were given a brief about frame analysis of building and the trapezoidal load distribution from slab to beams. At the end, they were taught how to read the report generated after performing analysis. A brief overview of how to calculate the reinforcement in STAAD.Pro itself for different components of building was explained.

Feedback Analysis

The content was as described by title	9.4
The instructor was good communicator	9.2
The workshop was applicable to my respective subject	9.8
The material was presented in an organized manner	8.9
I will recommend this workshop to outside students	9.5
The programme was well placed within allotted time	8.6
The instructor was knowledgeable on the topic	9.0
Given the topic, the workshop was	Right length

<u>Level</u>	<u>Description</u>	<u>Achieved</u>
1	Definition & connection of nodes	> 95 %
2	Load application (udl, uvl, etc)	> 85 %
3	Analysis of beams (SFD, BMD)	> 80%
4	Analysis of 2-D frames	< 50%
5	Analysis of 3-D frames	< 20 %
6	Reinforcement calculation	< 5 %



Course Participant:

Workshop was organized for the students of 5th Semesters, Civil Engineering. Total of 42 participants participated and each one was explained the importance of STAAD PRO, technicalities involved, its importance and the need to focus our shift to structural analysis & designing software.

Workshop In charge: PROF. ANKIT JAIN