

## DEPARTMENT OF CIVIL ENGINEERING

Date: 29-05-2019

### A report on 5 day virtual workshop

### “Analysis & Design of Structural Elements Using Staad Pro ”

The department of civil Engineering organized a virtual five day workshop on “**Analysis & Design of Structural Elements Using Staad Pro**” for III year civil engg students from 25/05/2021 to 29/05/2021

Mr. K.SURESH KUMAR, Asst. professor welcomed the trainers of Canter CADD, Habsiguda, Hyderabad. The trainer Mr P. Sai Charan started the session by introducing about the STADD Pro and he spoke the importance of Structural Engineering.

The trainer taught to create a structural model from the plan. Then, the different load combinations and their application on the structure is shown in the software. Usage of various codes viz., Indian Standard, European Codes, American codes for taking different load combination and the structure behavior is studied.

STAAD.Pro is one of the most widely used structural analysis and design software products worldwide. It supports over 90 international steel, concrete, timber & aluminium design codes.

It can make use of various forms of analysis from the traditional static analysis to more recent analysis methods like p-delta analysis, geometric non-linear analysis, Pushover analysis (Static-Non Linear Analysis) or a buckling analysis. It can also make use of various forms of dynamic analysis methods from time history analysis to response spectrum analysis. The response spectrum analysis feature is supported for both user defined spectra as well as a number of international code specified spectra.

Additionally, STAAD.Pro is interoperable with applications such as RAM Connection, AutoPIPE, SACS and many more engineering design and analysis applications to further improve collaboration between the different disciplines involved in a project. STAAD can be used for analysis and design of all types of structural projects from plants, buildings, and bridges to towers, tunnels, metro stations, water/wastewater treatment plants and more.

After creating model, the trainer explained how to design and analyse the RCC and Steel structure in STADD Pro Software. Then a report is generated and the trainer explained the students how to study the report in a brief manner.

A Valedictory Session was held on the 29/05/2021 at 1 PM under the Chairmanship of Dr .C.V. Krishna Reddy , Director, NNRESGI

Mrs P. Kameswari i/c Hod ,CE, briefed about the importance of the latest softwares in civil engineering and thanked trainer Mr P. Sai Charan for sharing knowledge with students of NNRG .



**NALLA NARASIMHA REDDY**

Education Society's Group of Institutions - Integrated Campus

(Approved by AICTE, PCI, New Delhi. Affiliated to JNTU-Hyderabad)

**DEPARTMENT OF CIVIL ENGINEERING**

**A report on 5 day virtual workshop**

Accredited by



**“Analysis & Design of Structural Elements Using Staad Pro ”**



**NALLA NARASIMHA REDDY**

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**A Five Day Virtual Workshop on**



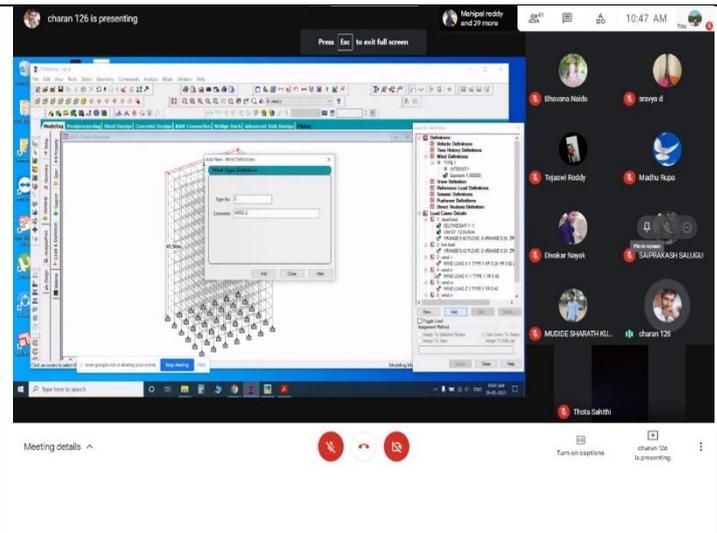
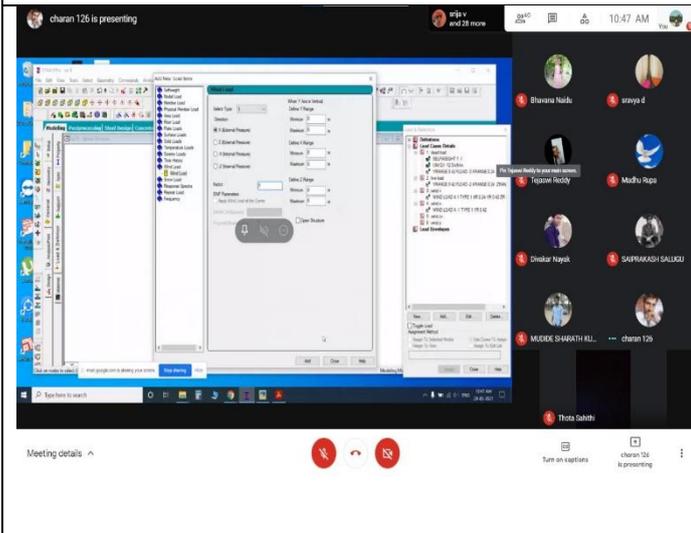
**Analysis & Design of Structural Elements using StaadPro**



In Association with  
**Canter Cadd India Pvt Ltd., Habsiguda**

**From 25/05/2021 to 29/05/2021**

A Five Day Virtual workshop poster



Trainer Mr P Sai Charan explaining the STADD ProSoftware in online mode