



SRI VENKATESWARA COLLEGE OF ENGINEERING
DEPARTMENT OF CIVIL ENGINEERING



Report of the Faculty Development Program (FDP) on
“Structural Design and Analysis using STAAD.Pro”



10.07.2023

Coordinator

Mr. A. Vijay Vignesh
(AP/Civil Engg.)

Convenor

Dr. R. Kumutha
HoD/Civil Engg.



SRI VENKATESWARA COLLEGE OF ENGINEERING

(An Autonomous Institution affiliated to Anna University, Chennai)

Pennalur, Sriperumbudur Tk – 602 117



DEPARTMENT OF CIVIL ENGINEERING

Report of the FDP on “Structural Design and Analysis using STAAD.Pro”

Dates : 10.07.2023

Time : 08.30 A.M – 03.30 P.M

Mode : Offline

Venue: CADD Lab, SVCE

Speaker

Mr. R. Balamourougane

Structural Manager

STAAD Consultant

TechApps Consulting, Chennai

Convenor & Organizing Secretary

Dr. R. Kumutha, Professor & Head/Civil Engineering

Coordinator

Mr. A. Vijay Vignesh, Assistant Professor/Civil Engineering

Target Audience: Faculty members & Lab Instructor

Number of Participants benefited : 9

Faculty Members : 8

Lab Instructor : 1

Total No of Internal Participants – 9

Students – 0, Faculty Members – 8, Lab Instructor - 1

BROCHURE



S V C E | Sri Venkateswara
College of
Engineering



(Autonomous - Affiliated to Anna University)
Pennalur, Sriperumbudur Tk., - 602117, Tamil Nadu

Department of Civil Engineering

in association with

TechApps Consulting, Chennai

jointly invite you for

Faculty Development Program

on

Structural Design and Analysis using STAAD.Pro



Mr. R. Balamourougane

Structural Manager

STAAD Consultant

TechApps Consulting, Chennai



Scheduled on
10th July 2023

Venue: CADD Lab (14-102B)

Faculty Coordinator
Mr. A. Vijay Vignesh, AP/Civil

Convenor & Organizing Secretary
Dr.R.Kumutha
Head of the Department
Civil Engineering

FDP on "Structural Design and Analysis on STAAD.Pro" - SVCE - reg

1 message

Vijay Vignesh CVE <avijayvignesh@svce.ac.in>
To: Rajesh Kumar <sales@techappsconsulting.in>
Cc: HOD Civil SVCE <hodce@svce.ac.in>

Fri, Jul 7, 2023 at 3:10 PM

Sir,

Pl find the attached brochure for the Faculty Development Program (FDP) on "**Structural Design and Analysis on STAAD.Pro**" which is scheduled on July 10th (Monday).
Venue: CADD Lab, SVCE

--- *Thanks and Regards* ---

Vijay Vignesh

Assistant Professor - Civil Department,
Sri Venkateswara College of Engineering,
Sriperumbudur

**FDP on Structural Design & Analysis using STAAD.Pro.pdf**

4582K

PROFILE OF THE SPEAKER

Mr.R.Balamourougane who is currently designated as the Structural Manager in TechApps Consulting, Chennai. He is a strong consulting professional graduated from Pondicherry Engineering College. He is experienced Consultant with a demonstrated history of working in the civil engineering industry. He is also a Certified trainer in Bentley systems. He is skilled in Structural Engineering, Bridge, Structural Analysis, Retaining Walls, and Steel Design.

BRIEF REPORT OF THE WORKSHOP

Mr. A. Vijay Vignesh, Assistant Professor, Department of Civil Engineering, Sri Venkateswara College of Engineering has delivered the welcome address and introduced the speaker Mr. R. Balamourougane, to all the participants.

The speaker welcomed the gathering and gave a brief overview on STAAD Pro software and its importance in construction projects. The following topics were covered during the hands-on session on Analysis and design of Multistorey Building using STAAD Pro software,

- a. Introduction to STAAD.Pro
 - About Bentley STAAD.Pro
 - Starting STAAD.Pro
 - Graphical User Interface
 - Starting a New Project - Working with User Interface: Menu Bars, Tool Bars, Tabs, Snap Node / Beam Window, Data Area, Main Window
 - Opening and Existing Project
 - Saving a Project
 - Configuring Units
 - Keyboard Shortcuts
 - Importing Model in STAAD.Pro
 - Coordinate Systems
- a. Structural Modeling - Adding Beams using Tools, Creating Beams (Colinear, Along Axes), Creating Plates, Creating Surfaces, Creating Solid Elements, Creating Structure.
- b. Material Constants and Section Properties - Material Constants, Creating and Editing Material Properties, Assigning Materials to the Structure

- c. Member Specifications and Supports - Node Specification, Member Specifications, Plate Specifications, Supports
- d. Loads - Types of Loads: Self weight, Nodal, Member, Area, Floor, Plate, Surface and Solid; Load Generation, Load Combinations as per IS code.
- e. Performing Analysis - Pre-Analysis, Problem Statistics, Joint Coordinates, Member Information, Material Properties, Support Information, Element & Solid Information; Performing Analysis
- f. Post Processing & Report Creation - Output File, Post Processing Mode.

The speaker concluded the session and discussed on the queries/doubts raised by the participants.

The session was interactive, and the questions raised by the students were answered by the speaker. The session ended with a vote of thanks delivered by Mr. A. Vijay Vignesh, Assistant Professor, Department of Civil Engineering, Sri Venkateswara College of Engineering. The participants also had appreciated the workshop.

Program Objectives

The objectives of the FDP are:

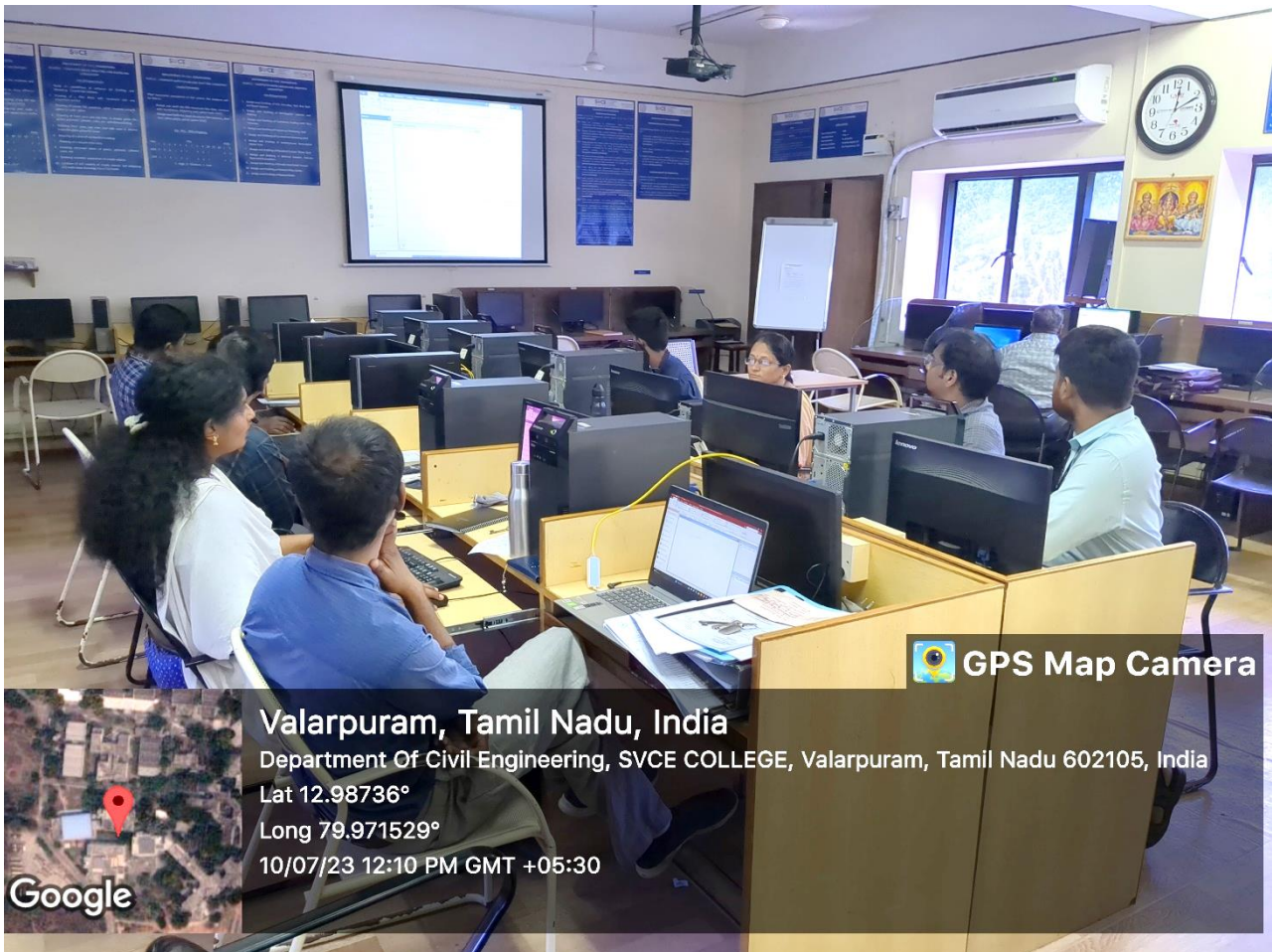
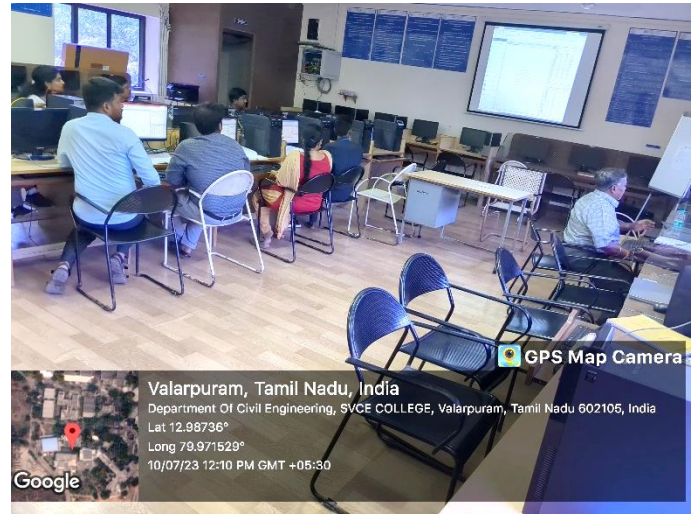
- To provide hands on training on design and analysis of Multistorey building using STAAD Pro software for the faculty members.

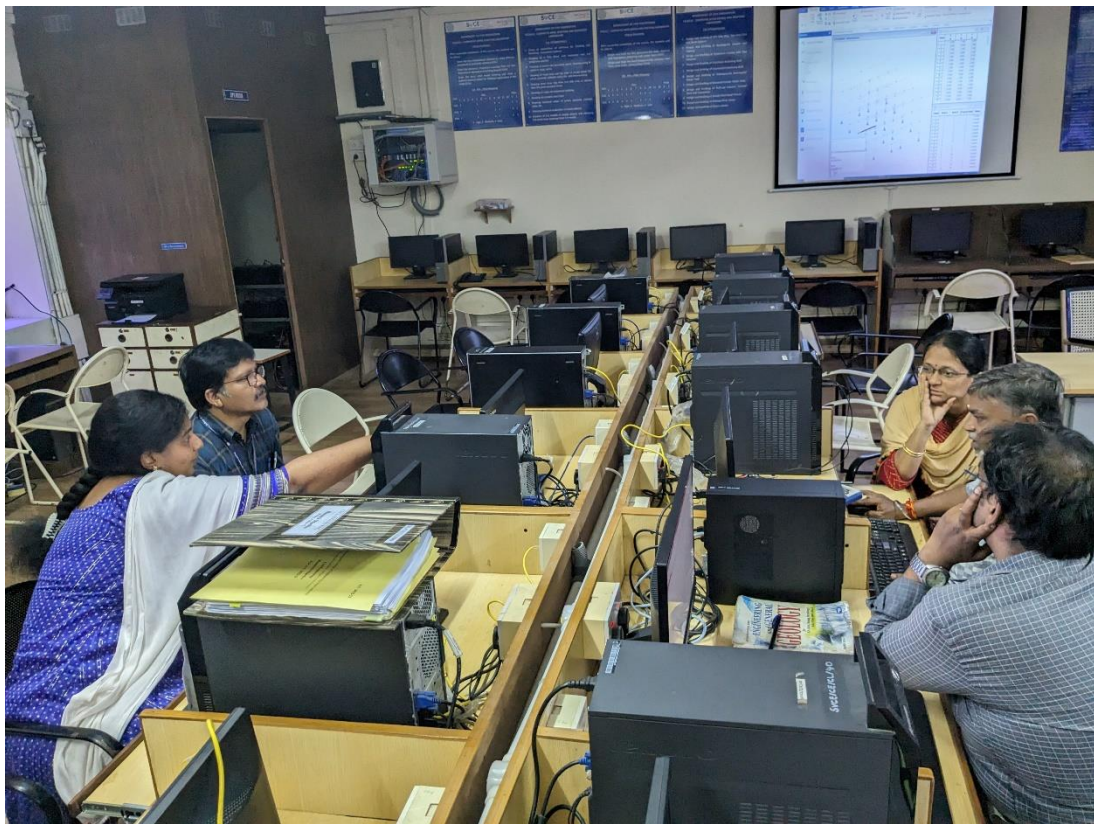
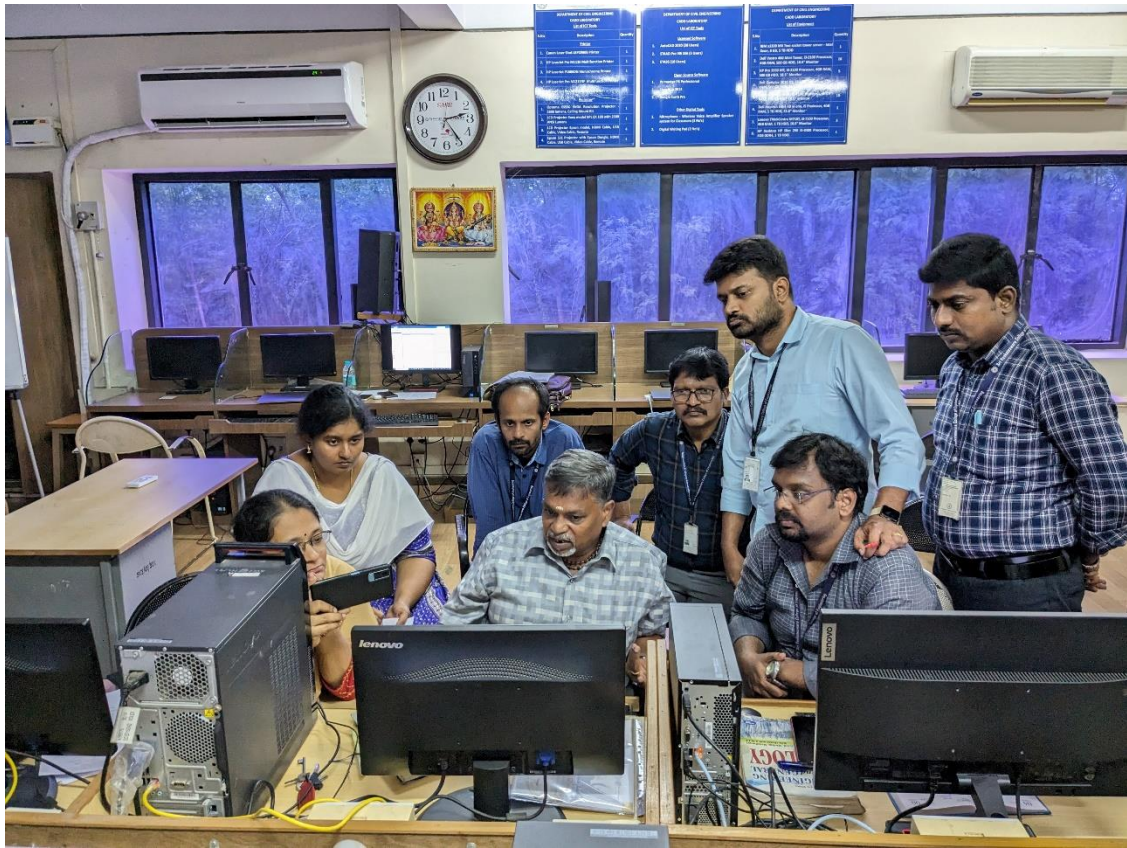
The following Program Outcomes (POs) and Program Specific Outcomes (PSOs) are addressed for the FDP on “**Structural Design and Analysis using STAAD.Pro**”

Particulars	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
Structural Design and Analysis using STAAD.Pro	✓	✓	✓	✓	✓			✓				✓	✓	✓

Feedback Link: <https://forms.gle/wi4ZcYmmKuGBd8z77>

SNAPSHOTS OF THE FDP






LIST OF PARTICIPANTS

S.No.	Name of the Faculty	Name of the College
1	Dr. P. Venkateswara Rao	Sri Venkateswara College of Engineering
2	Dr. R. Sathia	Sri Venkateswara College of Engineering
3	Ms. Ruby Freya	Sri Venkateswara College of Engineering
4	Mr.G. Arun	Sri Venkateswara College of Engineering
5	Mr.R. Mathiyazhagan	Sri Venkateswara College of Engineering
6	Mr.R. Kalaiyannan	Sri Venkateswara College of Engineering
7	Mr.S. Hariswaran	Sri Venkateswara College of Engineering
8	Mr.A. Vijay Vignesh	Sri Venkateswara College of Engineering
9	Mr.M. Venkatakrishnan	Sri Venkateswara College of Engineering

PARTICIPATION CERTIFICATE



Bentley[®]
Advancing Infrastructure

Certificate of Accomplishment

THIS CERTIFICATE IS PRESENTED TO

A. VIJAY VIGNESH

upon successful completion of
Faculty Development Program - STAAD.Pro CONNECT Edition | EN | EN

Product: STAAD.Pro Version: CONNECT Edition

Course Date: July 10, 2023 Learning Units: 6

Training Partner: Techapps Consulting

Amit Trehan

Amit Trehan
Director, User Learning
Bentley Systems Inc.

Certificate ID: 1675021692

Bentley
Advancing Infrastructure

Participants can download their certificates from the Bentley website.

Link: <https://learn.bentley.com/app/Public>

Feedback link - Faculty Development Program (FDP) on “**Structural Design and Analysis using STAAD.Pro**” - Civil Department - SVCE

Feedback Form
Department of Civil Engineering

Faculty Development Program (FDP) on “**Structural Design and Analysis using STAAD.Pro**”

Date : **10.07.2023**

Speaker Name:
Mr. R. Balamourougane
Structural Manager
STAAD Consultant
TechApps Consulting, Chennai

Kindly provide your valuable feedback.

Email ID *

hariswarans@svce.ac.in

Name of the Participant *

Hariswaran S

Name of the Department *

Civil Engineering

Mobile number (Whatsapp)

9965028892

Please rate your satisfaction with the content of the Lecture delivered by the speaker by indicating your level of agreement or disagreement with each of the following statements. *

	Strongly agree	Agree	Neutral	Disagree
The session delivered the information I expected to receive.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The subject matter was presented effectively.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
The pace and duration of the FDP was satisfactory.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
The resource person is knowledgeable.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The resource person presented the information in a clear and logical manner	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sufficient time was given for interaction	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
The FDP was well organized	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
As a result of this FDP, I gained new knowledge	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Are you interested in attending such programs organized in future by the Department of Civil Engineering of SVCE *

Yes

No

Additional Comments/Feedback *

Nil

This form was created inside of Sri Venkateswara College of Engineering.

Google Forms

SUMMARY OF FEEDBACK

Total Number of respondents: 9

Feedback	Strongly Agree	Agree	Neutral	Disagree
The session delivered the information I expected to receive.	9	0	0	0
The subject matter was presented effectively.	7	2	0	0
The pace and duration of the FDP was satisfactory.	8	1	0	0
The resource person is knowledgeable.	8	1	0	0
The resource person presented the information in a clear and logical manner	9	0	0	0
Sufficient time was given for interaction	7	2	0	0
The FDP was well organized	8	1	0	0
As a result of this FDP, I gained new knowledge	9	0	0	0

SUMMARY OF FEEDBACK

As a result of this FDP, I gained new knowledge

The FDP was well organized

Sufficient time was given for interaction

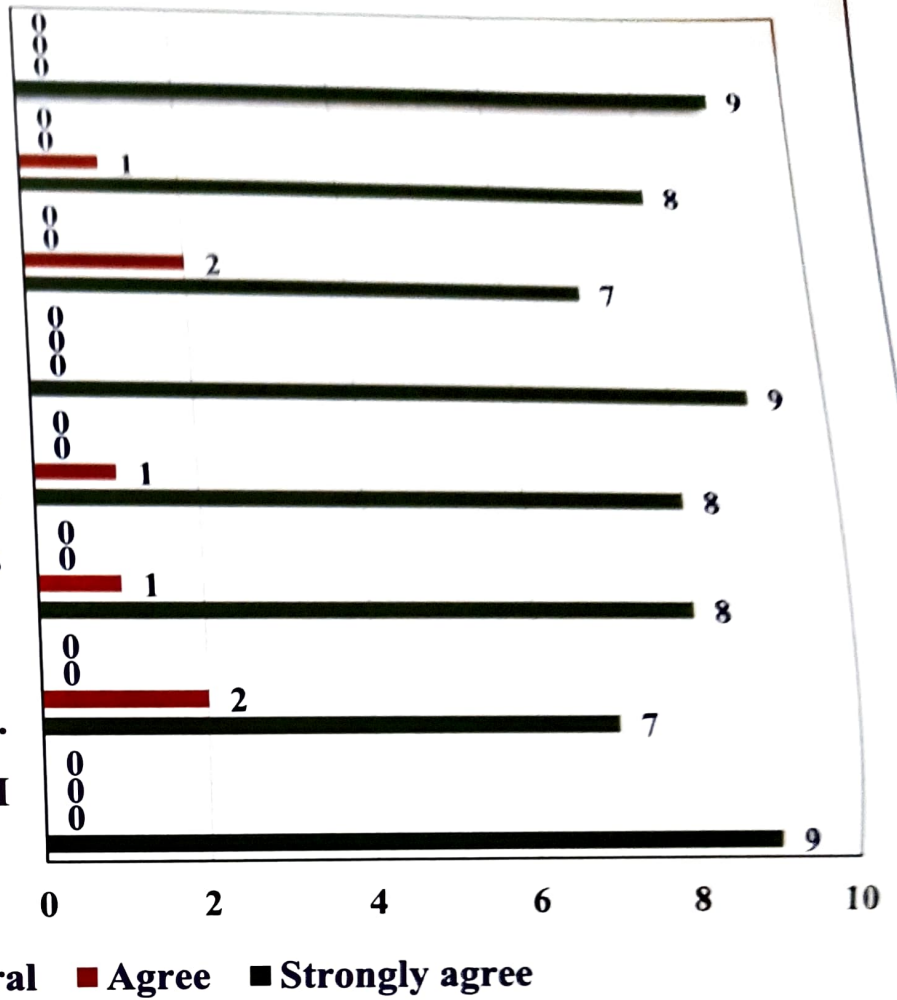
The resource person presented the information in a clear and logical manner

The resource person is knowledgeable.

The pace and duration of the FDP was satisfactory.

The subject matter was presented effectively.

The session delivered the information I expected to receive.



Prepared by
A. Vijay Vignesh (AP/Civil Engg.)
 Coordinator

Approved by
Dr. R. Kumutha (HoD/Civil Engg.)
 Convenor & Organizing secretary