



SRI VENKATESWARA COLLEGE OF ENGINEERING
DEPARTMENT OF CIVIL ENGINEERING



Report of the Workshop on
“Structural Analysis and Design of Multistorey
Building using STAAD Pro”



12.09.2023

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



TechApps

Report of the Workshop on “Structural Analysis and Design of Multistorey Building using STAAD Pro”

Dates : 12.09.2023

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: IV Year Students

Number of Participants benefited: 19

UG Students : 19

Total No of Internal Participants – 19

Students – 19

BROCHURE



SVCE | 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 a

Workshop

on

**Structural Analysis and Design of Multistorey
Building using STAAD Pro**



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



Scheduled on
12th September 2023

Venue: CADD Lab (14-102B)

Target Audience: III Year Students (2021-25 batch)

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

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



Vijay Vignesh CVE <avijayvignesh@svce.ac.in>

Invitation: Workshop on Structural Analysis and Design of Multistorey Building using STAAD Pro

1 message

Vijay Vignesh CVE <avijayvignesh@svce.ac.in>

Fri, Sep 8, 2023 at 12:05 PM

To: 2021 CE Students Group <2021cestudents@svce.ac.in>

Cc: "Dr.R.Sathia" <sathiamunish@svce.ac.in>, HOD Civil SVCE <hodce@svce.ac.in>, BHUVANESWARI S CVE <sbhuvana@svce.ac.in>

Dear Students,

Pl find the attached brochure for the Workshop on **"Structural Analysis and Design of Multistorey Building using STAAD Pro"** which is planned on 12th September 2023 (Tuesday).

Venue: CADD Lab**Timings: 8.30 a.m. - 4.30 p.m.**Participation Certificate will be issued to all the active participants from **Bentley Systems**.

This is a very good opportunity to learn the basics of STAAD.Pro software from the experts. Kindly request all the students to attend this workshop without fail.

Students can also bring their own laptop based on their convenience.

--- Thanks and Regards ---

A. Vijay Vignesh*Assistant Professor - Civil Department,**Sri Venkateswara College of Engineering,**Sriperumbudur***Workshop on Structural Analysis and Design of Multistorey Building using STAAD Pro.pdf**

7988K

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 codal provisions.
- 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 workshop are:

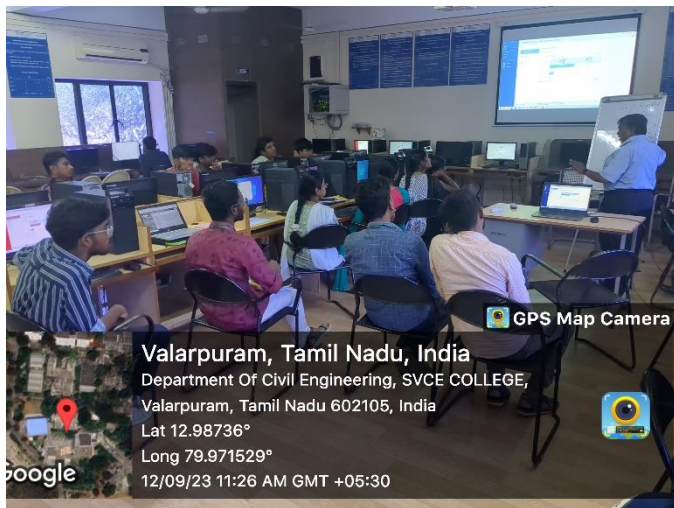
- To provide hands on training on design and analysis of Multi-storey building as per Indian Standards using STAAD Pro software for the students.

The following Program Outcomes (POs) and Program Specific Outcomes (PSOs) are addressed for the Workshop on “**Structural Analysis and Design of Multistorey Building using STAAD Pro**”,

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

Feedback Link: <https://forms.gle/wYNy2Em3TSq91PYK9>

SNAPSHOTS OF THE WORKSHOP



LIST OF PARTICIPANTS

S.No.	Register No.	Name of the Student	Year
1	2127210401001	AADESHWAR S	III Year Student
2	2127210401002	ABINAYA S	III Year Student
3	2127210401003	BALAJI K	III Year Student
4	2127210401004	HARINI A	III Year Student
5	2127210401005	HARISHKANNEN R	III Year Student
6	2127210401006	KALICHARAN A S	III Year Student
7	2127210401007	KAVIYA R	III Year Student
8	2127210401008	KISHOR M	III Year Student
9	2127210401009	LOMINA R	III Year Student
10	2127210401010	NITHILA M	III Year Student
11	2127210401011	PRIYADARSHINI R	III Year Student
12	2127210401012	RAGHAVENDRA B	III Year Student
13	2127210401013	RASHIK AHMED R	III Year Student
14	2127210401014	VELAN S	III Year Student
15	2127210401301	BALAJI M	III Year Student
16	2127210401302	GOPINATH K	III Year Student
17	2127210401303	KAILASH SUNDAR M	III Year Student
18	2127210401304	KUMARAN S	III Year Student
19	2127210401305	VISHVANANTHAN S L	III Year Student

PARTICIPATION CERTIFICATE

Bentley®

Certificate of Accomplishment

THIS CERTIFICATE IS PRESENTED TO

KAVIYA R

upon successful completion of

STAAD.Pro Software Certification Course CONNECT Edition | EN | EN

Product: *STAAD.Pro*

Version: *CONNECT Edition*

Course Date: *September 12, 2023*

Learning Units: *6*

Training Partner: *Techapps Consulting*

Amit Trehan

Amit Trehan
Director, User Learning
Bentley Systems Inc.

Certificate ID: *438067103*

Bentley®

Participants can download their certificates from the Bentley website.

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

Feedback link - Workshop on "Structural Analysis and Design of Multi-storey Building using STAAD Pro" - Civil Department - SVCE

Feedback Form
Department of Civil Engineering

Workshop on "Structural Analysis and Design of Multistorey Building using STAAD Pro"

Date : 12.09.2023

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

Kindly provide your valuable feedback.

Email ID *

2021ce0332@svce.ac.in

Name of the Participant *

PRIYADARSHINI R

Name of the Department *

CIVIL

Category *

- Third year student
- Final year student
- Faculty
- Lab Technician

Mobile number (Whatsapp)

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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 checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The pace and duration of the workshop was satisfactory.	<input checked="" type="radio"/>	<input 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 checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The workshop was well organized	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
As a result of this workshop, 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 *

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

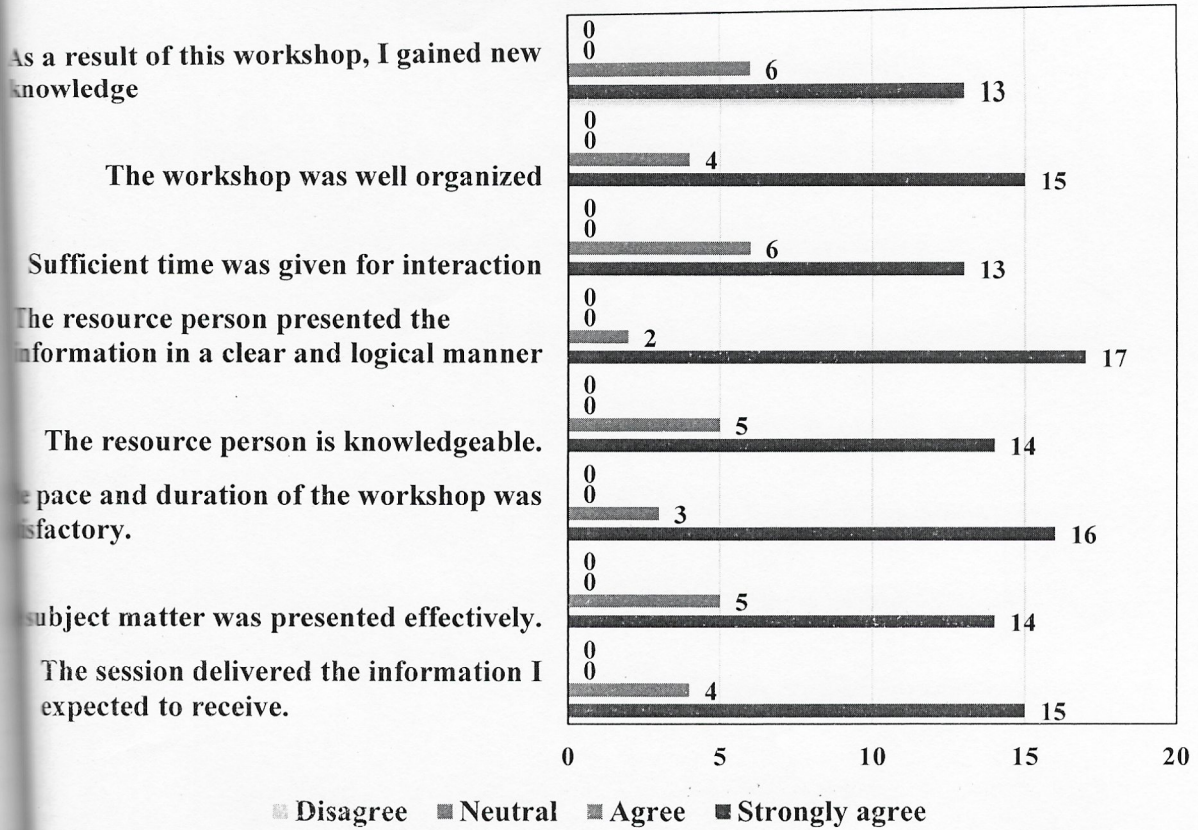
Google Forms

SUMMARY OF FEEDBACK

Total Number of respondents: 19

Feedback	Strongly Agree	Agree	Neutral	Disagree
The session delivered the information I expected to receive.	15	4	0	0
The subject matter was presented effectively.	14	5	0	0
The pace and duration of the workshop was satisfactory.	16	3	0	0
The resource person is knowledgeable.	14	5	0	0
The resource person presented the information in a clear and logical manner	17	2	0	0
Sufficient time was given for interaction	13	6	0	0
The workshop was well organized	15	4	0	0
As a result of this workshop, I gained new knowledge	13	6	0	0

SUMMARY OF FEEDBACK



Prepared by

Vijay Vignesh (AP/Civil Engg.)
Coordinator

Approved by

Dr.R. Kumutha (HoD/Civil Engg.)
Convener & Organizing secretary