Mussoorie - Diversion Road, Dehradun - 248009 Uttarakhand INDIA

OFFICE OF THE REGISTRAR

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Ref.REG/14/053/05/2021/044



27/05/2021

NOTICE

Subject: Schedule for Technical Training – STAAD PRO

Attention: Students of B.Tech (Civil Engineering) 6th Semester

The students are hereby informed that the Technical Training – STAAD PRO will be held from 01 to 20 June 2021 for the students of B.Tech (Civil Engineering) 6th Semester.

NOTE:

- 1. The student list is given herewith (Students have been selected based on the confirmation received from their end).
- 2. Detailed schedule for the same will be shared through the e-mail (outlook) shortly.

This is issued with the approval of the Competent Authority for information of all concerned.

Registrar (Officiating)

Soulder

To:

- HoD CE (SoET) to disseminate among students
- Head CDC

Copy to:

- Hon'ble Chairman
- Hon'ble Chancellor
- Hon'ble Vice Chancellor
- Hon'ble Pro Vice Chancellor
- All Directors / Deans' HoDs

For information please

Registrar Dehradun

STAAD PRO Training Students List (B.Tech- CE 3rd Year)

S. No.	SAP ID	Roll No.	Name of Student
1	1000012193	190101909	Abdul Aziz
2	1000011839	180101047	Abhishek Kumar
3	1000013595	190101922	Abhishek Sharma
4	1000013537	190101911	Akanksha Rawat
5	1000010942	180101035	Akshat Bisht
6	1000011314	180101014	Amit Singh Rawat
7	1000011021	180101023	Aniruddha Reang
8	1000010868	180101004	Anurag Kumar
9	1000010929	180101019	Arpan Agrawal
10	1000012172	190101904	Aryan Kumar Raj
11	1000010898	180101006	Ashutosh Nautiyal
12	1000011204	180101024	Asmit Kumar Singh
13	1000013776	190101931	Bani Chauhan
14	1000013299	190101903	Dikshant Bisht
15	1000011730	180101037	Divyanshu Rawat
16	1000013262	190101906	Gaurav Dubey
17	1000010647	180106025	Harshit Sahni
18	1000011555	180101018	Hemant Chaurasia
19	1000010644	180101008	Jaikrit Sharma
20	1000013772	190101930	Jitendra Singh Negi
21	1000013473	190101910	Kanishk Pundir
22	1000010904	180101010	Lakshay Dayal
23	1000011009	180101016	Lakshay Sharma
24	1000013735	190101926	Lalit Gaur
25	1000011463	180101001	Mayank Dhiman
26	1000013361	190101908	Md Sayed Farhan
27	1000010663	180101028	Megha Kukreti
28	1000013689	190101929	Mohd Amaan Azeem
29	1000011326	180101027	Mridul Jain
30	1000013780	190101932	Mukul Nepane
31	1000010937	180101017	Nitin Bhatt
32	1000011396	180101032	Pawan Tiwari
33	1000010564	180101030	Prince Saini
34	1000013536	190101920	Rajat Purohit
35	1000010677	180101012	Ramandeep Pharswan
36	1000012954	190101905	Ravishankar Singh Rawat
37	1000011686	180101009	Riya Mittal
38	1000011852	180101046	Rohit S Bisht
39	1000013734	190101925	Sachin Negi
40	1000011370	180111038	Sarita Bisht
41	1000010765	180101021	Siddharth Srivastava
42	1000010814	180101022	Sparsh Parmar
43	1000013751	190101928	Sumit Singh Pundir
44	1000012179	190101902	Sumit Singh Sinwal
45	1000011897	180101050	Vijayant Sri Mahika
46	1000011865	180101048	Vikash Devlal
47	1000010944	180101034	Vikul. Registration
48	1000013733	190101927	Vishal Rawat Signature
			DIT UNIV
			Vijayant Sri Mahika Vikash Devlal Vikul . Vishal Rawat OIT University, Dehradun



STAAD Pro Software Training – Civil

Objective:

STAAD is the abbreviation for Structural Analysis and Design. STAAD.Pro is one of the popular software that is used for analysing & designing structures like – buildings, towers, bridges, industrial, transportation and utility structures. Designs may include any building structures like tunnels, culverts, bridges, piles, petrochemical plants; and building materials like timber, concrete, steel, cold-formed steel, and aluminium.

STAAD or STAAD. Pro was developed by Research Engineers International at Yorba Linda, CA in 1997.

To get rid of the boring & time-consuming manual procedures Structural Engineers started using automated software STAAD.Pro

Course Overview:

STAAD.Pro® is one of the most widely-used software for developing and analyzing the designs of various structures, such as petrochemical plants, tunnels, bridges etc. STAAD.Pro® v8i, the latest version, allows civil engineering individuals to analyze structural designs in terms of factors like force, load, displacements etc. Multisoft Virtual Academy STAAD.Pro® v8i online training builds expertise in using the software at a professional level in domains, including construction companies, government agencies, architecture firms etc.

Participants are equipped with various software functionalities like model generation and editing; loading analysis; concrete designing etc. The STAAD.Pro® v8i software training also offers proficiency in using the seismology; report generation; and steel and foundation design features. After completing the STAAD.Pro® v8i training, individuals can work as Structure Designers, Project Managers, Building Analysts, Quality Analysts, Bridge, Designers etc.

STAAD.Pro Software Capabilities:

- Analyse for time dependent effects
- Check designs for cold-formed sections
- Comply with seismic requirements
- Create finite element meshes
- Design & analyse with finite element meshes, structural models
- Design beams, columns, walls and resisting frames
- Design to international design standards

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- Loads and load combinations
- Integrate slab and foundation designs
- Model reinforced concrete, steel
- Structural design documentation
- Share structural models

Why to learn?

STAAD.Pro provides flexible modeling environment, fluent data collaboration, and advanced features. It best structural analysis & design software that supports Indian as well as all international codes.

STAAD.Pro permits structural engineers to design & analyze any type of structure virtually. Structural consultants, structural engineering firms, departments in construction companies, government agencies, owner/operators, offshore platform designers, many more are extensively using this software.

Learning Objectives:

The course will cover all the steps involved in structural analysis & designing of concrete & steel.

This course will introduce one to STAAD Pro's state of the art user interface, prevailing analysis and design engines with a sophisticated finite element (FEM), visualization tools, and dynamic analysis capabilities.

Some of the features that we focus in training include:

Model Generation: Generation of an interactive menu-driven model with concurrent 3D display 2D & 3D graphics generation using rectangular or polar coordinate systems Segments of repetitive geometry used to generate complex structural models.

- Model Verification: 2D/3D drawings on screen and printer/plotter full 3D shapes for frames, elements Isometric or any rotations for full 3D viewing.
- Static Analysis: 2D/3D analysis on the basis of state-of-the-art Matrix method to handle extremely large work. Linear, non-linear, p-delta analysis with automatic load & stiffness correction.
- **Dynamic/Seismic Analysis:** Mass modelling, frequency, and mode shape Response spectrum extraction, analysis of time history Modal damping ratio for individual models.
- Secondary Analysis: Finite element capabilities, concrete design, steel design, and timber design. Forces & displacements at sections between nodes. Maximum & minimum force envelopes.



Learning Outcome:

- Student will be able to complete object-oriented instinctive 2D/3D graphic model generation.
- Student will learn to use pull-down menus, tool-tip help, and floating toolbars.
- Student will be able for carrying out flexible zooms and multiple views.
- Student will know to make isometric & perspective views and 3D shapes.
- Student will know the use of simple command language and built-in command file editor.
- Student will learn how to generate graphics/text input.
- Student will be able to do efficient algorithm that will minimize disk space requirements.
- Student will learn to take presentation quality printer plots of geometry and results as part of the run output.
- Student will be able to perform accurate and numerically efficient plate/shell element incorporating out-of-plane shear & in-plane rotation; automatic element mesh generation; comprehensive element stress output including in-plane stresses, out-of-plane shear, bending & principal stresses at nodal, as well as, user-specified points.
- Student will learn how to achieve user-specified design parameters to customize a design.
- Student will know to perform code check, member selection and optimized member selection consisting of analysis/design cycles.
- Student will be able to design concrete beams/columns/slabs/footings as per all major

Course Contents:

- Introduction to STAAD.Pro® V8i
- Model Generation and Editing
- Introduction to Loading
- Automatic Load Generation
- Concrete Design
- Seismology
- FEM / FEA
- Steel Design
- Report Generation
- Foundation Design

Target Audience

B Tech. Students

DIT University, Dehradun



Content Structure:

	Introduction to	3 hours
Chapter 1	STAAD.Pro® V8i	•
	Model Generation	3 hours
Chapter 2	and Editing	
	Introduction to	4 hours
Chapter 3	Loading	
	Automatic Load	4 hours
Chapter 4	Generation	
Chapter 5	Concrete Design	6 hours
		5 hours
Chapter 6	Seismology	
Chapter 7	FEM / FEA	4 hours
Chapter 8	Steel Design	4 hours
Chapter 9	Report Generation	4 hours
Chapter 10	Foundation Design	3 hours

CETPA INFOTECH PVT. LTD. CURRICULUM FOR STAAD. PRO

DURATION: 4 WEEKS

INTRODUCTION TO STAAD PRO

- Introduction of Staad Pro
 - Starting Staad Pro
 - Creating New file
 - Opening Existing File
 - Closing a file
 - Saving & Saving As
 - Module Review
- Salient Features
- **❖** Hardware Requirements
- Staad Pro Screen information
- Overview of Structural Analysis and Design
- Types of Structures
- Idealization of Structures
- Various Unit Systems
- **❖** Coordinate Systems
 - Global Coordinate System
 - Local Coordinate System
- Staad Commands and Input Instructions
- Command Formats
 - a. Free Formatting Input
 - b. Commenting Input
 - c. Meaning of Underlining in the Manual
- Problem Initiation and Title

STRUCTURAL MODELING

- What are Nodes, Beams, and Plates
- How things are done in the Input File

- Geometry Creation Methods
- Using Structure Wizard
 - Things you can do in Structure Wizard
 - Drafting the Geometry using a Snap / Grid
- Viewing
- Selecting
- Using Selecting While viewing 3D Geometry
- **❖** Joint Coordinate Specification
 - Graphical User Interface
- Member Incidence Specification
 - Graphical User Interface

OTHER USEFUL FUNCTION TO COMPLETE THE GEOMETRY

- ❖ Introduction
- Translation Repeat
- Circular Repeat
- ❖ Insert Node
- Add Beams between midpoints
- Add beams by perpendicular intersection
- . Connect beams along an Axis
- Cut Section
- Undo / Redo
- Dimensioning

PROPERTY DETAILS

- **❖** Material Specification
 - Material Constants
 - Constant Specifications

- Member Property Specifications
 - Prismatic Property Specifications
 - Tapered Member Specifications
 - Specifying Properties from Steel Table
 - User Table Specifications
- Member Orientation Specifications
 - Beta Angle

MEMBER

- Inactive / Delete Specifications
- Listing of Members / Joints by Specifications of Groups
- **❖** Member Offset
- Member Release Specifications
- Member Truss
 Specifications
- Member Tension / Member Compression Specifications
- Global Support Specifications
 - Fixed / Pinned /
 Fixed but
 Release / Spring
 Supports
 - Inclined Supports
- Curved Member Specifications
- Member Cable Specifications

LOADING PARTICULARS

- Loading Specifications
- Self weight Loading Specifications
- Member Load Specifications
- Area Load / Floor Load Specifications
 - Area Load
 - Floor Load
- Load Combination Specifications

ANALYSIS

- Analysis Specifications
- Print Specifications
 - Pre Analysis Print Commands
 - Post Analysis
 Print Commands
- **❖** Load List Specifications
- Report Generation
 - Output file

POST PROCESSING

- **❖** Introduction
- First Steps
 - Node Displacement
 - Node Reactions
 - Beam forces
 - Beam Stresses
 - Beam Graphs
 - Plate Contour
 - Plate Results Along line
 - Animation
 - Reports

R. C. DESIGN

- Concrete Design As per IS 456
 - Design Parameters
- Design of Beams
 - Design for Flexure
 - Design for Shear
- Design of Columns
- Concrete Design Specifications
- Concrete Design Parameter Specification

- Concrete Design Command
- **❖** Concrete Take of
- Concrete Design Terminator
- **❖** Interactive Design
 - Beam Brief
 - Column Brief

STEEL DESIGN

- Steel Design As per IS 800
- Allowable Stresses
 - Axial Stresses
 - Bending Stresses
 - Shear Stress
 - Combined Stress
- ParameterSpecifications
- Code Checking Specifications
- Member Selection Specifications
- Tabulated Results Of Steel Design
- Interactive Designs

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CETPA INFOTECH PVT. LTD. CURRICULUM FOR STAAD. PRO

DURATION: 6 WEEKS

INTRODUCTION TO STAAD PRO

- Introduction of Staad Pro
 - Starting Staad Pro
 - Creating New file
 - Opening Existing File
 - · Closing a file
 - Saving & Saving As
 - Module Review
- Salient Features
- Hardware Requirements
- Staad Pro Screen information
- Overview of Structural Analysis and Design
- Types of Structures
- Idealization of Structures
- Various Unit Systems
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- ❖ Problem Initiation and Title

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 - Graphical User Interface
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 - Tapered Member Specifications
 - Specifying Properties from Steel Table
 - User Table Specifications
- Member Orientation Specifications
 - Beta Angle

MEMBER

- Inactive / Delete Specifications
- Listing of Members / Joints by Specifications of Groups
- Member Offset
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- Member Truss Specifications
- Member Tension / Member Compression Specifications
- Global Support Specifications
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 Spring Supports
 - Inclined Supports
- Curved Member Specifications
- Member Cable Specifications

LOADING PARTICULARS

- Loading Specifications
- Self weight Loading Specifications
- Member Load Specifications
- Area Load / Floor Load Specifications
 - Area Load
 - Floor Load
- Load Combination Specifications

ANALYSIS

- Analysis Specifications
- Print Specifications
 - Pre Analysis Print Commands
 - Post Analysis Print Commands
- Load List Specifications
- Report Generation
 - Output file

POST PROCESSING

- Introduction
- First Steps
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 - Column Brief

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- Steel Design As per IS 800
- Allowable Stresses
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 - Bending Stresses
 - Shear Stress
 - Combined Stress
- Parameter Specifications
- Code Checking Specifications
- Member Selection SpecificationsTabulated Results Of Steel Design
- Interactive Designs

SEISMIC ANALYSIS

- Introduction to Seismic analysis
- Earthquake loading in high rise buildings

- Implementation of various load combinations of Earthquake analysis using IS 1893
- Analysis and Design of building considering Earthquake loading

WIND LOAD ANALYSIS

- Introduction to Wind load analysis
- Calculation of wind forces in High rise building
- Analysis and Design of building for Wind loading

DESIGN OF ELEVATED WATER TANKS

- Modeling of Intz tank, circular tank, rectangular tank
- Hydro Static loading in these tanks
- Analysis and Design of these tanks

DESIGN OF SLABS

- ❖ Introduction to Slabs
- Design of Slabs using IS 456
- Modeling of 1 way, 2 way and Cantilever Slab using Staad Pro
- Analysis and Design of these Slabs using Staad Pro

INTRODUCTION TO STAAD BEAVA

HEAD OFFICE:

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Contact Us: +91-9212172602 , 0120-4535353

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Fax No: +91-522-6590802

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105, Mohit Vihar, Near Kamla Palace, GMS Road, Dehradun-248001, UK

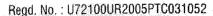
Contact: +91-9219602771, 0135-6006070

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http://www.cetpainfotech.com

query@cetpainfotech.com

Ref. No. CIPL Dehradus/2021-22 001

Date 20 07 2021

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DIT University.

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Value added course Details (Academic Year: 2020-21)

VAT Course Name: STAAD Pro Training

VAT Code: VAT 18

Duration in Hours: 42

Number of Students Enrolled: 67

Number of Students Completed: 55

Grades:	G= GOOD ; S = Satifactory ; P = Poor ; W = Withdraw					
Student ID	Student Name	Program/Course	Year	Passing Grade		
190101909	Abdul Aziz	BTCE	3rd Year	G		
180101047	ABHISHEK KUMAR	BTCE	3rd Year	Р		
190101922	ABHISHEK SHARMA	BTCE	3rd Year	S		
190101911	AKANKSHA RAWAT	BTCE	3rd Year	S		
180101035	AKSHAT BISHT	BTCE	3rd Year	G		
180101002	AKSHAY BHATIA	BTCE	3rd Year	Р		
180101015	ALI ABID	BTCE	3rd Year	S		
180101014	AMIT SINGH RAWAT	BTCE	3rd Year	S		
180101023	ANIRUDDHA REANG	BTCE	3rd Year	G		
180101026	ANUJ KOTWAL	BTCE	3rd Year	S		
180101004	ANURAG KUMAR	BTCE	3rd Year	S		
180101029	ARJUN DEV SINGH	BTCE	3rd Year	G		
180101019	ARPAN AGRAWAL	BTCE	3rd Year	G		
190101904	ARYAN KUMAR RAJ	BTCE	3rd Year	Р		
180101006	ASHUTOSH NAUTIYAL	BTCE	3rd Year	S		
180101024	ASMIT KUMAR SINGH	BTCE	3rd Year	Р		
180101007	ATUL LOHANI	BTCE	3rd Year	G		
190101921	AYUSH BISHT	BTCE	3rd Year	G		
190101931	BANI CHAUHAN	BTCE	3rd Year	S		
190101903	DIKSHANT BISHT	BTCE	3rd Year	S		
180101037	DIVYANSHU RAWAT	BTCE	3rd Year	Р		
190101906	GAURAV DUBEY	BTCE	3rd Year	G		
190101907	GAURAV KATHAIT	BTCE	3rd Year	S		
180106025	HARSHIT SAHNI	BTCE	3rd Year	S		
180101018	HEMANT CHAURASIA	BTCE	3rd Year	G		
180101042	HIMANSHU RAI	BTCE	3rd Year	Р		
180101043	HIMANSHU SINGH	BTCE	3rd Year	S		
180101008	JAIKRIT SHARMA	BTCE	3rd Year	G		
190101930	JITENDRA SINGH NEGI	BTCE	3rd Year	G		
190101910	KANISHK PUNDIR	BTCE	3rd Year	Р		
180101010	LAKSHAY DAYAL	BTCE	3rd Year	S		
180101016	LAKSHAY SHARMA	ВТСЕ	3rd Year	G		
190101926	LALIT GAUR	BTCE	3rd Year) G .		
180101036	MANAV RENU	ВТСЕ	3rd Year	S		
180101001	MAYANK DHIMAN	BTCE	3rd Year	P		
190101908	MD SAYED FARHAN	BTCE	396 Year	ehradufflead		
		DIT Uni	16/2111	Career Deve DIT Univers		

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Career Development Cell DIT University, Dehradun

180101028	MEGHA KUKRETI	BTCE	3rd Year	G
190101929	MOHD AMAAN AZEEM	BTCE	3rd Year	S
180101027	MRIDUL JAIN	BTCE	3rd Year	S
190101932	MUKUL NEPANE	BTCE	3rd Year	Р
170101024	NALINESH KUMAR	BTCE	3rd Year	S
180101041	NEETLAKSH MANOHAR ARUN	BTCE	3rd Year	S
180101017	NITIN BHATT	BTCE	3rd Year	G
180101032	PAWAN TIWARI	BTCE	3rd Year	G
190101924	PRAVESH UNIYAL	BTCE	3rd Year	S
180101030	PRINCE SAINI	BTCE	3rd Year	S
190101920	RAJAT PUROHIT	BTCE	3rd Year	Р
180101012	RAMANDEEP PHARSWAN	BTCE	3rd Year	G
190101905	RAVISHANKAR SINGH RAWAT	BTCE	3rd Year	S
180101009	RIYA MITTAL	BTCE	3rd Year	S
180101046	ROHIT S BISHT	BTCE	3rd Year	G
180113033	SACHIN GANDASH	BTCE	3rd Year	G
190101925	SACHIN NEGI	BTCE	3rd Year	S
190101923	SAIF MALIK	BTCE	3rd Year	S
180111038	SARITA BISHT	BTCE	3rd Year	G
180101033	SHOEB MALIK	BTCE	3rd Year	S
190101933	SHUBHAM RAWAT	BTCE	3rd Year	S
180101044	SIDDHANT KATHAYAT	BTCE	3rd Year	G
180101021	SIDDHARTH SRIVASTAVA	BTCE	3rd Year	Р
180101022	SPARSH PARMAR	BTCE	3rd Year	S
190101928	SUMIT SINGH PUNDIR	BTCE	3rd Year	S
190101902	SUMIT SINGH SINWAL	BTCE	3rd Year	G
180101031	SURYA PRATAP	BTCE	3rd Year	Р
180101050	VIJAYANT SRI MAHIKA	BTCE	3rd Year	G
180101048	VIKASH DEVLAL	BTCE	3rd Year	S
180101034	VIKUL .	BTCE	3rd Year	S
190101927	VISHAL RAWAT	BTCE	3rd Year	G