

CAREER DEVELOPMENT CENTRE



Date: 2nd February 2020

Subject: Schedule for Technical Training – STAAD PRO (VAT-18)

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

The abovementioned students are hereby informed that the Technical Training – STAAD PRO will be held from **9th February 2020 to 28th February 2020** for the students of B.Tech 6th Semester (Civil Engineering).

NOTE: The training is mandatory for all the students to attend.

Mr. Gaurav Singh
Head - CDC
Career Development Cell
DIT University, Dehradun

To:

- All Deans / Directors
 - HoDs
 - Head CDC
- With the request to bring the above to the notice of the students

Copy to:

- Chairman
 - Chancellor
 - Vice Chancellor
 - Pro Vice Chancellor
- For information please

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VAT-18: 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.

Duration: 40 Hrs (From 9th Feb 2020 – 28th Feb 2020)

Course Coordinator: Dr. Mansa Swami (Assistant Professor- Mechanical Engineering)

Venue: Vishveshwarya Civil Engineering Computer Lab.

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.


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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 standard


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Learning Outcome:


- Students are able to complete object-oriented instinctive 2D/3D graphic model generation.
- Students are able to learn to use pull-down menus, tool-tip help, and floating toolbars.
- Students are able for carrying out flexible zooms and multiple views.
- Students knew to make isometric & perspective views and 3D shapes.
- Students knew the use of simple command language and built-in command file editor.
- Students have learnt how to generate graphics/text input.
- Student are able to do efficient algorithm that will minimize disk space requirements.
- Student are able to learn to take presentation quality printer plots of geometry and results as part of the run output.
- Student are 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 have learnt how to achieve user-specified design parameters to customize a design.
- Student knew to perform code check, member selection and optimized member selection consisting of analysis/design cycles.
- Student are 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


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Content Structure:

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



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Annexure - II

Value added course Details (Academic Year: 2019-20)

VAT Course Name: STAAD Pro Training

VAT Code: VAT 18

Duration in Hours: 42

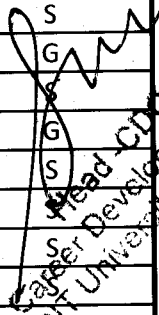
Number of Students Enrolled: 86

Number of Students Completed: 81

Grades:

G= GOOD ; S = Satisfactory ; P = Poor ; W = Withdraw

Student ID	Student Name	Program/Course	Year	Passing Grade
1505011007	AMIT CHOUDHARY	BTCE	4th Year	G
1501011169	HIMANSHU KISHORE	BTCE	4th Year	S
1501011200	NAMAN ARORA	BTCE	4th Year	S
160101055	SARTHAK SAINI	BTCE	4th Year	S
160101028	AKASH AGRAWAL	BTCE	4th Year	G
160101061	VEDANT DWIVEDI	BTCE	4th Year	S
160101014	SAHIL SIDDIQUI	BTCE	4th Year	G
160101016	IKSHAANT SIKKA	BTCE	4th Year	S
160101044	KUNWAR AKSHYAT PRATAP SINGH	BTCE	4th Year	S
160101019	PRANAV S C PANDEY	BTCE	4th Year	S
160101013	ANIRUDH NAUTIYAL	BTCE	4th Year	S
160101042	ARPIT BHATT	BTCE	4th Year	S
160101050	AJAY SINGH NEGI	BTCE	4th Year	G
160101046	RAJAT BANGWAL	BTCE	4th Year	S
160106067	RAHUL PANWAR	BTCE	4th Year	G
160101026	TARUN TOLIA	BTCE	4th Year	S
160101008	GAURAV MEHRA	BTCE	4th Year	S
160101037	APOORV BISHT	BTCE	4th Year	S
160101029	RAJAT JOSHI	BTCE	4th Year	G
160101036	DEVASHISH PANDEY	BTCE	4th Year	S
160101009	YOGESH GWAL	BTCE	4th Year	S
160101002	LEVNESH JOSHI	BTCE	4th Year	G
160101003	ADITYA TANWAR	BTCE	4th Year	S
160101058	MOHIT SINGH YADAV .	BTCE	4th Year	P
160101032	ROOPAK BHARADWAJ	BTCE	4th Year	S
160101048	GAURAV SAKLANI	BTCE	4th Year	G
160101001	SHOBHIT SUTHAR	BTCE	4th Year	S
160101065	ANKUR GUPTA	BTCE	4th Year	G
160101045	RISHU KUMAR	BTCE	4th Year	S
160101010	RHITIK BHATNAGAR	BTCE	4th Year	S
160101030	SHASHANK CHAUDHARY	BTCE	4th Year	S
160101043	ANIL KUMAR RATH	BTCE	4th Year	P
160101035	ARPIT SHARMA	BTCE	4th Year	G
160101005	KUMAR PARMESHWAR	BTCE	4th Year	S
160101051	ADITI GOYAL	BTCE	4th Year	P
160101034	SHIVAM AGGARWAL	BTCE	4th Year	G
160101007	LAKSHDEEP SHARMA	BTCE	4th Year	G
160101047	SAUJNAYA SHARMA	BTCE	4th Year	S
160101068	BHANU PRATAP SINGH BISHT	BTCE	4th Year	G
160101015	ANKESH KUMAR	BTCE	4th Year	S


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160101024	S ABDUL MAALIK	BTCE	4th Year	S
160101012	VAIBHAV GARG	BTCE	4th Year	S
160101049	AYUSH KAPOOR	BTCE	4th Year	G
160101006	ADITYA KUMAR GOYAL	BTCE	4th Year	S
160101021	ATUL GUPTA	BTCE	4th Year	G
160101052	VANDIT KAUSHIK	BTCE	4th Year	S
160101038	AMIT MISHRA	BTCE	4th Year	S
160101022	AMAN KUMAR	BTCE	4th Year	S
160102335	HARSH SHARMA	BTCE	4th Year	S
160101039	SAURABH JOSHI	BTCE	4th Year	G
160101057	ADAMYA SINGHAL	BTCE	4th Year	G
160101063	SARTHAK MITTAL	BTCE	4th Year	S
160101020	NEERAJ SINGH NAGARKOTI	BTCE	4th Year	G
160101031	VIPUL NEGI	BTCE	4th Year	S
160106079	AYUSHMAN .	BTCE	4th Year	S
160101056	SAURABH BHATT	BTCE	4th Year	S
160101066	VINEET RAJ RAWAT	BTCE	4th Year	G
160102336	MOHAMMAD SHAMIM AKHTAR	BTCE	4th Year	S
160101018	ROSHAN KUMAR	BTCE	4th Year	S
160101059	AJAY JOSHI	BTCE	4th Year	G
160101060	ANKIT PRASAD	BTCE	4th Year	S
160101033	SUBOOR ALAM	BTCE	4th Year	S
160101067	HARI KRISHNA KHANDURI	BTCE	4th Year	S
160101071	RAVI RANJAN KUMAR	BTCE	4th Year	G
160101072	ANKUR MALIK	BTCE	4th Year	S
160101073	ABHINAV KHATRI	BTCE	4th Year	G
170101905	SHUBHAM PANWAR	BTCE	4th Year	S
170101904	AYUSH KOTHIYAL	BTCE	4th Year	S
170101909	ABHISHEK RANA	BTCE	4th Year	S
170101906	ANUJ SINGH PAL	BTCE	4th Year	S
170101923	ABHISHEK ARORA	BTCE	4th Year	G
170101913	AVEE ARORA	BTCE	4th Year	S
170101902	PRASHANT DHOUNDIYAL	BTCE	4th Year	S
170101910	DEEPAK GAUR	BTCE	4th Year	S
170101907	AMAN TYAGI	BTCE	4th Year	G
170101912	AYUSH AWASTHI	BTCE	4th Year	S
170101901	RAHUL CHAUHAN	BTCE	4th Year	G
170101900	SUDHANSHU BADONI	BTCE	4th Year	S
170101903	MUKUL SUYAL	BTCE	4th Year	S
170101908	AMAN DEEP SINGH	BTCE	4th Year	S
170101921	ABHISHEK UNIYAL	BTCE	4th Year	S
170101920	MAITREYA JAIN	BTCE	4th Year	G
170102930	NIRMAL RANA	BTCE	4th Year	G
170101930	SHRI KANT SINGH RAWAT	BTCE	4th Year	S
170101931	SAGAR RAMOLA	BTCE	4th Year	G
170101932	NISHI KANT	BTCE	4th Year	S

4th Year Department
University Dehradun

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