

DVV Clarification Information

Criterion :1	Curricular Aspects
Key Indicator:1.2	Academic Flexibility
Metric 1.2.2	Percentage of students enrolled in certificates/value added courses and also completed online courses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the last five years.

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Department of Civil Engineering

Ref No.: ITS/CED/ODD/005/2020-21

Date: 02/04/2021

Notice

This is to inform you all that there will be a STAAD Pro training from 7/4/2021 to 26/6/2021 scheduled from 01:30 P.M. to 3:10 P.M in Department's CAD Lab. This is a value-added course of 40 hours duration and it will be beneficial for the civil engineering students in improving their career profile. For session 2020-21, Certificates will not be provided for the students as it is an Internal training but the students will be assessed on various parameters and attendance.

You all are required to attend the training as it is very important software for Industry requirement. This is mandatory for all 4th semester civil engineering students.



Dr. Sanjay Yadav

(ODCED)

Dept. of Civil Engineering
I.T.S Engineering College
Greater Noida

CC to:

- 1) Director Office, ITS Engineering College, Greater Noida.
- 2) Dean Academics, ITS Engineering College, Greater Noida.
- 3) Faculty of Civil Engineering Department.
- 4) Civil Engineering 4th Semester Students

Ref.no. CE/2020-21/Even/Sem4

Day	9:10-10:05	10:05-10:55	10:55-11:45	11:45-12:35	12:35-1:30	1:30-2:20	2:20-3:10	3:10-04:00	4:00-04:50
MON	KCE 403 (H&HM)	KVE 401 (UHV)	KCE 401 (MTC)	KAS 403 (M-III)	L U N C H	KCE 402 (SM)	KNC 402 (PP)	KCE 452 (SM-LAB)	
TUE	KCE 401 (MTC)	KCE 402 (SM)	KCE 403 (H&HM)			KNC 402 (PP)	KCE 453 (HHM-LAB)		LIBRARY
WED	KAS 403 (M-III)		KCE 403 (H&HM)	KCE 401 (MTC)		STAAD PRO ESSENTIALS		KCE 402 (SM)	
THU	KVE 401 (UHV)	KCE 403 (H&HM)	Aptitude (AS)			KNC 402 (PP)	KAS 403 (M-III)	KCE 402 (SM)	KCE 401 (MTC)
FRI	KCE 403 (H&HM)	KCE 402 (SM)	KAS 403 (M-III)	KCE 401 (MTC)		ISHM	KVE 401 (UHV)	KCE 451 (MT-LAB)	

Subjects	Code	Name of Faculty	Room No.
Maths-III (M-III)	KAS 403	Dr. Sunita Chaudhary (SC)	231
Universal Human Values (UHV)	KVE 401	Dr. Deepa Singh (DS)	231
Material, Testing & Construction Practices (MTC)	KCE 401	Mr. Aungkar Bhagat (AG)	231
Introduction to Solid Mechanics (SM)	KCE 402	Mr. Praveen Kumar Yadav (PKY)	231
Hydraulic Engineering and Machines (HM)	KCE 403	Mr. Amit Kumar Gupta (AKG)	231
Material Testing Lab (MT-Lab)	KCE 451	Mr. Aungkar Bhagat (AG)	138
Solid Mechnics Lab (SM-Lab)	KCE 452	Mr. Praveen Kumar Yadav (PKY)	237
Hydraulic & Hydraulic Machines Lab (HM-Lab)	KCE 453	Mr. Amit Kumar Gupta (AKG)	139
Python Programming (PP)	KNC 402	Mr. Manvendra Yadav (MY)	231
Aptitude		Ms. Ankita Sharma (AS)	231
Introduction to Structure Health Monitoring		Mr. Praveen Kumar Yadav (PKY)	237
STAAD PRO Essentials for Civil Engineering (CADD)		Mr. Omprakash Maurya (OM)	205

Sameer
(Mr. Sameer Kumar Singh)
Assistant Professor
Civil Engineering Department

Sanjay
(Dr. Sanjay Yadav)
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Civil Engineering Department
Dept. of Civil Engineering
I.T.S Engineering College
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STAAD Pro Training Report

Name of Training	: STAAD Pro Training for Civil Engineering 4 th Sem students
Duration of training	: 7/4/2021 to 26/6/2021
Organized by	: Civil Engineering Department
Time of training	: 1:30 P.M. to 3:10 P.M.
Training Coordinator	: Mr. Omprakash Maurya & Ms. Niharika Shukla

Training Objective:

- **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

Report:

I.T.S Engineering College organised a STAAD Pro training by **Civil Engineering Department** from 7th April 2021 to 26th June 2021. The Training was coordinated by **Mr. Omprakash Maurya and Ms. Niharika Shukla**. STAAD Pro provides flexible modelling environment, fluent data collaboration, and advanced features. It is the best structural analysis & design software that supports Indian as well as all international codes. STAAD Pro permits structural engineers to design & analyse 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. The training was started on 7/4/2021 with the welcome speech by **Dr Sanjay Yadav, Head Civil Engineering Department**. Around 28 students from Civil Engineering Department participated in the Training. Participants were 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.

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.



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- 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

Number of Students Attended: 28

Ms Niharika Shukla
(Assistant Professor CED)

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Dept. of Civil Engineering
I.T.S Engineering College
Greater Noida

Value Added Course Record (Internal Trainings)
STAAD Pro TRAINING FOR 4TH SEM CED STUDENTS

1	2	3	4	5	6	7	8	9	10	11	12	13	14	
S.No.	Department	SEM	Training Name	Total Hours of Training	Training Start Date	Training End Date	Trainee Name	Classes Held	Classes Attended	Attendance %age	Training Completed Successfully (Y/N)	Certificate (Internal/External)	Certification Provided (Y/N)	Contact number of Trainee
1	CIVIL ENGINEERING	4	STAAD Pro	40	07-04-2021	26-06-2021	HARSHIT SINGH[EX]	20	16	80	Y	Internal	N	8929585815
2	CIVIL ENGINEERING	4	STAAD Pro	40	07-04-2021	26-06-2021	MOHD SARFARAZ	20	12	60	N	Internal	N	8860627744
3	CIVIL ENGINEERING	4	STAAD Pro	40	07-04-2021	26-06-2021	AARTI VERMA	20	16	80	Y	Internal	N	7303520467
4	CIVIL ENGINEERING	4	STAAD Pro	40	07-04-2021	26-06-2021	ABDULLAH	20	18	90	Y	Internal	N	8809730817
5	CIVIL ENGINEERING	4	STAAD Pro	40	07-04-2021	26-06-2021	AMBER SHAMSH	20	16	80	Y	Internal	N	9693625048
6	CIVIL ENGINEERING	4	STAAD Pro	40	07-04-2021	26-06-2021	ANIL KUMAR	20	20	100	Y	Internal	N	9696289907
7	CIVIL ENGINEERING	4	STAAD Pro	40	07-04-2021	26-06-2021	BASIT BASHIR WANI	20	16	80	Y	Internal	N	6005765110
8	CIVIL ENGINEERING	4	STAAD Pro	40	07-04-2021	26-06-2021	DEV RAJ	20	14	70	Y	Internal	N	6387781627
9	CIVIL ENGINEERING	4	STAAD Pro	40	07-04-2021	26-06-2021	DIVYANSH SINGH	20	12	60	N	Internal	N	9682537793
10	CIVIL ENGINEERING	4	STAAD Pro	40	07-04-2021	26-06-2021	IRFAN AHMAD	20	16	80	Y	Internal	N	6398121218
11	CIVIL ENGINEERING	4	STAAD Pro	40	07-04-2021	26-06-2021	MANISH KUMAR	20	20	100	Y	Internal	N	7004361119
12	CIVIL ENGINEERING	4	STAAD Pro	40	07-04-2021	26-06-2021	PRAVEEN KUMAR SINGH	20	18	90	Y	Internal	N	9450235356
13	CIVIL ENGINEERING	4	STAAD Pro	40	07-04-2021	26-06-2021	PRIYANSHU KUMAR SINGH	20	14	70	Y	Internal	N	8922847015
14	CIVIL ENGINEERING	4	STAAD Pro	40	07-04-2021	26-06-2021	RAHUL SINGH	20	8	40	N	Internal	N	7081507271
15	CIVIL ENGINEERING	4	STAAD Pro	40	07-04-2021	26-06-2021	RAJ KIRAN	20	18	90	Y	Internal	N	8102390765
16	CIVIL ENGINEERING	4	STAAD Pro	40	07-04-2021	26-06-2021	RAJNISH KUMAR MISHRA	20	10	50	N	Internal	N	7321995213
17	CIVIL ENGINEERING	4	STAAD Pro	40	07-04-2021	26-06-2021	SAGAR PASWAN	20	2	10	N	Internal	N	6392209369
18	CIVIL ENGINEERING	4	STAAD Pro	40	07-04-2021	26-06-2021	SHAFIA NAZIR	20	16	80	Y	Internal	N	9682664611
19	CIVIL ENGINEERING	4	STAAD Pro	40	07-04-2021	26-06-2021	SHAURYA PRATAP SINGH	20	18	90	Y	Internal	N	8429778890
20	CIVIL ENGINEERING	4	STAAD Pro	40	07-04-2021	26-06-2021	SHREE PRAKASH	20	12	60	N	Internal	N	8292732869
21	CIVIL ENGINEERING	4	STAAD Pro	40	07-04-2021	26-06-2021	SHUBHAM PANDIT	20	20	100	Y	Internal	N	9973277085
22	CIVIL ENGINEERING	4	STAAD Pro	40	07-04-2021	26-06-2021	SUDHAKAR MISHRA	20	18	90	Y	Internal	N	7081960903
23	CIVIL ENGINEERING	4	STAAD Pro	40	07-04-2021	26-06-2021	UJJWAL KUMAR	20	20	100	Y	Internal	N	6287173156
24	CIVIL ENGINEERING	4	STAAD Pro	40	07-04-2021	26-06-2021	UPENDRA KUMAR	20	18	90	Y	Internal	N	6202418360
25	CIVIL ENGINEERING	4	STAAD Pro	40	07-04-2021	26-06-2021	ABDUL MAJID	20	20	100	Y	Internal	N	7006364236
26	CIVIL ENGINEERING	4	STAAD Pro	40	07-04-2021	26-06-2021	MADHAV DIXIT	20	20	100	Y	Internal	N	6396523909
27	CIVIL ENGINEERING	4	STAAD Pro	40	07-04-2021	26-06-2021	PRATYUSH ANAND	20	18	90	Y	Internal	N	6200638351
28	CIVIL ENGINEERING	4	STAAD Pro	40	07-04-2021	26-06-2021	SHEETAL KUMARI	20	20	100	Y	Internal	N	8756210880

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Niharika

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CIVIL ENGINEERING DEPTT. 4TH SEM

ATTENDANCE SHEET

SESSION: 2020-2021

Sr. No.	Roll No	Name	Date 7-April	Date 10-April	Date 17-April	Date 21-April	Date 24- April	Date 1-May	Date 5-May	Date 8-May	Date 12-May	Date 19-May	Date 22-May	Date 26-May	Date 29-May	Date 2-June	Date 5-June	Date 9-June	Date 16-June	Date 19-June	Date 23-June	Date 26-June	
1	1822200013	HARSHIT SINGH[EX]	P	P	P	P	A	P	A	P	P	A	P	P	P	A	P	P	P	P	P	P	P
2	1822200019	MOHD SARFARAZ	A	A	A	A	A	A	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P
3	1902220000001	AARTI VERMA	P	P	P	P	P	P	A	A	P	P	A	A	P	P	P	P	P	P	P	P	P
4	1902220000002	ABDULLAH	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	A	A	P	P	P	P
5	1902220000003	AMBER SHAMSH	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
6	1902220000005	ANIL KUMAR	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	A	P	P	A
7	1902220000006	BASIT BASHIR WANI	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	A	A	P	P	A	P
8	1902220000007	DEV RAJ	P	P	P	P	A	P	P	P	P	P	P	A	A	A	P	A	P	P	A	A	P
9	1902220000008	DIVYANSH SINGH	A	A	P	P	P	A	P	A	A	P	P	P	P	P	P	P	A	A	A	A	P
10	1902220000010	IRFAN AHMAD	A	A	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
11	1902220000011	MANISH KUMAR	P	P	P	P	P	P	P	P	P	P	P	P	P	A	A	P	P	P	P	P	P
12	1902220000013	PRAVEEN KUMAR SINGH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	A	A	A	A
13	1902220000014	PRIYANSHU KUMAR SINGH	P	P	P	P	A	A	P	P	P	P	P	P	P	P	P	P	A	A	A	A	A
14	1902220000015	RAHUL SINGH	A	A	A	A	A	A	A	A	A	A	P	P	P	A	A	P	P	P	P	A	P
15	1902220000016	RAJ KIRAN	P	P	P	P	P	P	P	P	P	P	P	A	P	A	A	P	P	P	P	P	P
16	1902220000017	RAJNISH KUMAR MISHRA	P	P	A	A	A	A	A	A	A	A	A	A	A	P	P	A	A	A	A	A	A
17	1902220000018	SAGAR PASWAN	A	A	A	A	A	A	A	A	A	A	A	A	A	P	P	A	A	A	P	P	P
18	1902220000019	SHAFIA NAZIR	P	P	P	P	A	P	P	P	P	P	P	P	P	P	A	A	A	P	P	P	P
19	1902220000020	SHAURYA PRATAP SINGH	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	A	A	P
20	1902220000021	SHREE PRAKASH	P	P	A	A	A	A	A	A	A	A	P	P	P	P	P	P	P	P	P	P	P
21	1902220000022	SHUBHAM PANDIT	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
22	1902220000023	SUDHAKAR MISHRA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
23	1902220000024	UJJWAL KUMAR	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
24	1902220000025	UPENDRA KUMAR	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	A
25	2002220009001	ABDUL MAJID	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
26	2002220009002	MADHAV DIXIT	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P
27	2002220009003	PRATYUSH ANAND	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P
28	2002220009004	SHEETAL KUMARI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P

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Department of Civil Engineering
Marks Assessment sheet

Batch 2019-23
session 2020-21
Sub: STAAD Pro Training

Methodology		Scale				
Course Outcome (COs)		1 (0-20%)	2 (20-40%)	3 (40-60%)	4(60-80%)	5(80-100%)
CO-1	Able to complete object-oriented instinctive 2D and 3D graphic model generation.	Not able to generate any model	Able to generate basic 2D model.	Able to generate object oriented instinctive 2D graphic model.	Able to generate basic 3D graphic model.	Able to generate object oriented instinctive 2D and 3D graphic model.
CO-2	know the use of simple command language and built-in command file editor.	Don't know the use of command language.	know very few command language	Know few commands and little knowledge of built in command file editor.	Know all commands and little knowledge of built in command file editor.	Know all the commands of simple command language and built in command file editor.
CO-3	Able to perform accurate and numerically efficient plate & shell element incorporating out-of-plane shear & in-plane rotation; automatic element mesh generation	Not able to perform plate & shell element	Able to perform plate and shell element but not accurate.	Able to perform plate and shell element accurate but not numerically efficient.	Able to perform plate and shell element accurate and numerically efficient incorporating out of plane shear & in plane rotation.	Able to perform accurate and numerically efficient plate & shell element incorporating out-of-plane shear & in-plane rotation; automatic element mesh generation
CO-4	Design concrete beams, columns, slabs and footings as per all major Design Codes	Not able to design any structural element.	Able to design concrete beams and columns.	Able to design concrete beams, columns and slabs.	Able to design concrete beams, columns, slabs and footings as per IS code.	Able to design concrete beams, columns, slabs and footings as per all major Design Codes.

Course Outcome (COs)	
CO-1	Able to complete object-oriented instinctive 2D and 3D graphic model generation.
CO-2	Know the use of simple command language and built-in command file editor.
CO-3	Able to perform accurate and numerically efficient plate & shell element incorporating out-of-plane shear & in-plane rotation; automatic element mesh generation.
CO-4	Design concrete beams, columns, slabs and footings as per all major Design Codes.

S.No.	Roll No.	Name of the Students	Able to complete object-oriented instinctive 2D and 3D graphic model generation. (CO1)		Know the use of simple command language and built-in command file editor.(CO2)		Able to perform accurate and numerically efficient plate & shell elements (CO3)		Design concrete beams, columns, slabs and footings as per all major Design Codes.(CO4)		Internal Marks
			10		20		10		10		
			Marks	Scale	Marks	Scale	Marks	Scale	Marks	Scale	
1	1822200013	HARSHIT SINGH[EX]	8	5	18	5	7	4	8	5	41
2	1822200019	MOHD SARFARAZ	5	3	11	3	4	3	4	3	24
3	1902220000001	AARTI VERMA	8	5	19	5	7	4	6	4	40
4	1902220000002	ABDULLAH	8	5	15	4	9	5	6	4	38
5	1902220000003	AMBER SHAMSH	9	5	11	3	9	5	8	5	37
6	1902220000005	ANIL KUMAR	10	5	15	4	9	5	8	5	42
7	1902220000006	BASIT BASHIR WANI	10	5	19	5	7	4	8	5	44
8	1902220000007	DEV RAJ	9	5	19	5	9	5	9	5	46
9	1902220000008	DIVYANSH SINGH	7	4	0	1	7	4	8	5	22
10	1902220000010	IRFAN AHMAD	10	5	19	5	9	5	10	5	48
11	1902220000011	MANISH KUMAR	10	5	18	5	9	5	9	5	46
12	1902220000013	PRAVEEN KUMAR SINGH	9	5	19	5	7	4	7	4	42
13	1902220000014	PRIYANSHU KUMAR SINGH	8	5	18	5	7	4	7	4	40
14	1902220000015	RAHUL SINGH	5	3	9	3	3	2	4	3	21
15	1902220000016	RAJ KIRAN	10	5	17	5	7	4	8	5	42
16	1902220000017	RAJNISH KUMAR MISHRA	4	3	7	2	5	3	4	3	20
17	1902220000018	SAGAR PASWAN	2	2	10	3	2	2	4	3	18
18	1902220000019	SHAFIA NAZIR	8	5	15	4	7	4	8	5	38
19	1902220000020	SHAURYA PRATAP SINGH	10	5	13	4	9	5	8	5	40
20	1902220000021	SHREE PRAKASH	5	3	10	3	4	3	3	2	22
21	1902220000022	SHUBHAM PANDIT	8	5	18	5	7	4	9	5	42
22	1902220000023	SUDHAKAR MISHRA	8	5	15	4	9	5	8	5	40
23	1902220000024	UJJWAL KUMAR	9	5	14	4	9	5	6	4	38
24	1902220000025	UPENDRA KUMAR	9	5	13	4	9	5	6	4	37
25	2002220009001	ABDUL MAJID	8	5	16	5	8	5	8	5	40
26	2002220009002	MADHAV DIXIT	10	5	17	5	9	5	8	5	44
27	2002220009003	PRATYUSH ANAND	10	5	19	5	9	5	10	5	48
28	2002220009004	SHEETAL KUMARI	10	5	19	5	9	5	10	5	48