



# SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

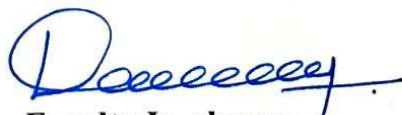
Dindigul – Palani Highway, Dindigul 624 002

Date: 10.09.18

## CIRCULAR


It is planned to conduct Value Added Course for IV year students by Department of Civil Engineering along with CADD technologies school of design Pvt. Ltd.

S.No	Year	Name of the Course	Period	No. of days
1.	IV Year	STAAD PRO	17.09.18 To 21.09.18	5 days

  
Faculty In-charge

  
HoD/Civil



  
Dr. D. SENTHIL KUMARAN, M.E., Ph.D., (NUS)  
Principal  
SSM Institute of Engineering and Technology  
Kuttathunattu Village, Sindalagundu (PO),  
Palani Road, Dindigul - 624 002



**SSM Institute of Engineering and Technology,  
Dindigul-624002.**

## **DEPARTMENT OF CIVIL ENGINEERING**

Cadd Technologies School of design Private limited,  
Coimbatore-641 009.

# **Technology Training**



*Dr. D. Senthil Kumaran*

**Dr. D. SENTHIL KUMARAN, M.E., Ph.D., (NUS)**

Principal

SSM Institute of Engineering and Technology

Kumarapatti Village Sindalagundu (Po),

Palayam Road, Dindigul - 624 002.

**STAAD PRO**

2018-19

**FINAL YEAR 2018-19**



## STAAD PRO V8i

Sl.No	Content
1	Introduction to basic principles of Structural, Analysis and Design
2	Co-ordinate Systems , Units
3	Model Generation, Creating Nodes & Members
4	Model Editing Tools, Select Menu, Add Beam, Insert Node
5	Support Specification, Member Property and Material Specification
6	Loading - Creating a Primary Load
7	Loading - Nodal Load , Member Load
8	Wind Load, Moving load, Creating Load Combination
9	Introduction to Analysis
10	Perform Analysis, Overview of Output Page, Pre-analysis Print and Post-analysis Print
11	RC Design - Column and beam
12	FEM Modelling , Generate Plate Mesh
13	Member Truss, Plate Load
14	Slab Design- One way and Two way
15	Shear wall Modelling and Design
16	Introduction Seismology, Dynamic Analysis, Response Spectrum Analysis
17	Water Tank Design
18	Staircase Design

CADD TECHNOLOGIES SCHOOL OF DESIGN PRIVATE LIMITED



  
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 Kuttathupatti Village, Sindalagundu (Pol),  
 Palani Road, Dindigul - 624 002.

**SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY, DINDIGUL.**  
**DEPARTMENT OF CIVIL ENGINEERING - VALUE ADDED COURSE (STAAD PRO)**  
**IV YEAR**

S.No	NAME	17.9.2018		18.9.2018		19.9.2018		20.9.2018		21.9.2018		
		FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	
1	Abdul Kareem H. A	/	/	/	/	/	/	/	/	/	/	Abdul
2	Abunesh K	/	/	/	/	/	/	/	/	/	/	K. Abunesh
3	Abis Chandralaka R	/	/	/	/	/	/	/	/	/	/	Abis Chandralaka
4	Ajith Kumar M	/	/	/	/	/	/	/	/	/	/	Ajith
5	Akash Raj M	/	/	/	/	/	/	/	/	/	/	Akash
6	Amrithi V	/	/	/	/	/	/	/	/	/	/	Amrithi
7	Anbu Durai M	/	/	/	/	/	/	/	/	/	/	Anbu
8	Arul Selvam K	/	/	/	/	/	/	/	/	/	/	Arul
9	Arunkumar B	/	/	/	/	/	/	/	/	/	/	Arunkumar
10	Arun Vignesh Raj S	/	/	AB	AB	/	/	/	/	/	/	Arun
11	Aswitha R	/	/	/	/	/	/	/	/	/	/	Aswitha
12	Bala Keerthiga. B	/	/	/	/	/	/	/	/	/	/	Bala
13	Bhavanu Sri P	/	/	/	/	/	/	/	/	/	/	Bhavanu
14	Chandrakumar M	/	/	/	/	/	/	/	/	/	/	Chandrakumar
15	Deepalakshmi. G	/	/	/	/	/	/	/	/	/	/	Deepalakshmi
16	Gayathri K	/	/	/	/	/	/	/	/	/	/	Gayathri
17	Geethan. M R	/	/	/	/	/	/	/	/	/	/	Geethan
18	Gokul Nath. R	/	/	/	/	/	/	/	/	/	/	Gokul
19	Gowsalya. A	/	/	/	/	/	/	/	/	/	/	Gowsalya
20	Gowtham. T	/	/	/	/	/	/	/	/	/	/	Gowtham
21	Gowthamraj V. S	/	/	/	/	/	/	/	/	AB	AB	Gowthamraj
22	Harikrishnan M	/	/	/	/	/	/	/	/	/	/	Harikrishnan
23	Hema Priva S	/	/	/	/	/	/	/	/	/	/	Hema
24	Janani N	/	/	/	/	/	/	/	/	/	/	Janani
25	Jeevanandham K	/	/	/	/	/	/	/	/	/	/	Jeevanandham
26	Jeevanantham V	/	/	/	/	/	/	/	/	/	/	Jeevanantham
27	Jegan P	/	/	/	/	/	/	/	/	/	/	Jegan
28	Joychrstv V	/	/	/	/	/	/	/	/	/	/	Joychrstv
29	Kaliva PerumaLS	/	/	/	/	AB	AB	/	/	/	/	Kaliva
30	Kannan. K	/	/	/	/	/	/	/	/	/	/	Kannan
31	Ponnangan M	/	/	/	/	/	/	/	/	/	/	Ponnangan
32	Ponsuresh M	/	/	/	/	/	/	/	/	/	/	Ponsuresh
33	Prakash E	/	/	/	/	/	/	/	/	/	/	Prakash
34	Praveen Kumar A	/	/	/	/	/	/	/	/	/	/	Praveen
35	Preetha J	/	/	/	/	/	/	/	/	/	/	Preetha
36	Ragavendran M	/	/	/	/	/	/	/	/	/	/	Ragavendran
37	Ragul.K	/	/	/	/	/	/	/	/	/	/	Ragul
38	Rajakumaran J	/	/	/	/	/	/	/	/	/	/	Rajakumaran
39	Kesavan R	/	/	AB	AB	/	/	/	/	/	/	Kesavan
40	Muruganandham .M	/	/	/	/	/	/	/	/	/	/	Muruganandham
41	Mohammed Fayaz. M	/	/	/	/	/	/	/	/	/	/	Mohammed
42	Raja Sekaran K	/	/	/	/	/	/	/	/	/	/	Raja
43	Rajashree. K	/	/	/	/	/	/	/	/	/	/	Rajashree
44	Rajesh P	/	/	/	/	/	/	/	/	/	/	Rajesh



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45	Sindhu S V	/	/	/	/	/	/	/	/	/	/	/	Sindhu
46	Sivakumar S	/	/	/	/	/	/	/	/	/	/	/	Sivakumar
47	Sonika S	/	/	/	/	/	/	/	/	/	/	/	Sonika
48	Srinath A	/	/	/	/	/	/	/	/	/	/	/	Srinath
49	Srinivasan G	/	/	AB	AB	/	/	/	/	/	/	/	Srinivasan
50	Sudharshan V	/	/	/	/	/	/	/	/	/	/	/	Sudharshan
51	Sudhesh J	/	/	/	/	/	/	/	/	/	/	/	Sudhesh
52	Surendar S	/	/	/	/	/	/	/	/	/	/	/	Surendar
53	Swetha.G	/	/	/	/	/	/	/	/	/	/	/	Swetha
54	Iharanya K	/	/	/	/	/	/	/	/	/	/	/	Iharanya
55	Vignesh S	/	/	/	/	/	/	/	/	/	/	/	Vignesh
56	Vignesh S	/	/	/	/	/	/	/	/	/	/	/	Vignesh
57	Vijayakumar. K	/	/	/	/	AB	AB	/	/	/	/	/	Vijayakumar
58	Vimal.S	/	/	/	/	/	/	/	/	/	/	/	Vimal
59	Sindhu S V	/	/	/	/	/	/	/	/	/	/	/	Sindhu
60	Sivakumar S	/	/	/	/	/	/	/	/	/	/	/	Sivakumar
61	Sonika S	/	/	/	/	/	/	/	/	/	/	/	Sonika
62	Srinath A	/	/	/	/	/	/	/	/	/	/	/	Srinath
63	Srinivasan G	/	/	/	/	/	/	/	/	/	/	/	Srinivasan
64	Sudharshan V	AB	AB	/	/	/	/	/	/	/	/	/	Sudharshan
65	Sudhesh J	/	/	/	/	/	/	/	/	/	/	/	Sudhesh

NLU  
HoD/Civil



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**STAAD PRO ASSESSMENT:**

**TOTAL MARKS: 20**

1. The new generation of STAAD is:

- A) STAAD-III for Windows
- B) STAAD-III for DOS
- C) STAAD Pro for DOS
- D) STAAD Pro V8i

2. In the input file and under Joint Coordinate, one of the following statement is true?

- A) 1,0,0,0
- B) 1000
- C) 1;0;0;0
- D) 100

3. What is Structure Wizard?

- A) Allows user to import AUTOCAD DWG files
- B) A Library of pre-defined structural shapes
- C) Brings Excel sheet to STAAD.Pro
- D) All of the Above

4. In the mirror function which of the following statements is true

- A) I can mirror around any of the three main planes
- B) I can define a user-defined plane to mirror around it
- C) I can only mirror around X-Z plane
- D) There is only copy mode in mirror

5. If you delete nodes, the beams and plates attached to them will be intact

- A) True
- B) False

6. Instead of inputting cross section we can input  $I_x, I_y, I_z$

- A) True but only for circular section
- B) False, you have to input cross-section always
- C) You have use the standard section available in wizard



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Tamil Nadu, India

D) True for all sections

7. You can't assign a prismatic cross-section to steel beam

A) True

B) False

8. STAAD Pro

A) Has facility to declare Truss members

B) In space model can't differentiate between beams and Truss members

C) Will treat Truss members as ordinary members in Space structure

D) All of the above

9. You can't edit the floor load from the data area:

A) True

B) False

10. STAAD.Pro perform Analysis is:

A) Taking into consideration the displacement of nodes

B) Taking into consideration the stiffness correction

C) Multi-iteration Analysis

D) None of the above

11. STAAD.Pro Perform Analysis is:

A) Taking into consideration the Displacement of Nodes

B) Taking into consideration the Stiffness Correction

C) Multi- Iteration Analysis

D) None of the Above

12. You can also edit the parameters in structure wizards models.

A) True

B) False

13. In Concentrated Load, P is:

A) Value of Load    B) Force Direction    C) Perpendicular distance from the member

D) All of the above

14. How many types of meshing we have in STAAD.Pro?

A) 1    B) 2    C) 5    D) 4



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1983

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Kutattampatti-4th Km, Dindigul(Po),  
Palani Road, Dindigul-624 002.



15. The minimum and maximum limits of number of divisions of each side are 1 to 100.

- A) True                      B) False

16. For Plates, Which one of the following is true?

- A) In order to release a Plate you can release the Beams holding the plate  
B) You can release the Nodes of the Plates.  
C) You can release more than one Nodes of the Plates.  
D) Options B & C.

17. With the help of which of the following functions, you can duplicate Nodes, Beams, and Plates, in the direction of X, Y, Z?

- A) Circular Repeat    B) Mirror    C) Translational Repeat    D) Insert Nodes

18. By default, Response Reduction Factor Value for Special RC Moment Resisting Frame is?

- A) 1                      B) 3                      C) 6                      D) 5

19. In floor load, Y is the:

- A) Affective height  
B) Floor height  
C) Building height  
D) All of the Above

20. In Meshing Parametric dialog box, by default, bias value is \_\_\_\_ and divi value is \_\_\_\_.

- A) Bias is 1 Divi is 15                      B) Bias is 1 Divi is 11                      C) Bias is 2 Divi is 10  
D) Bias is 1 Divi is 10



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Panangan M.

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SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY, DINDIGUL - 624 002

Department of Civil Engineering

STUDENT FEEDBACK FORM

Name of the Student: *Sonika . S*

Year/Sem: *IV yr*

Date: *21.09.18*



Dear Student,

You are required to give your feedback on the following aspects.

S No	Criteria	Rating				
		Excellent	Very good	Good	Fair	Satisfactory
1	Course content			✓		
2	Skill development			✓		
3	Motivation			✓		
4	Regularity and Punctuality of trainer			✓		
5	Coverage of syllabus		✓			
6	Interaction		✓			
7	Individual attention		✓			
8	Outcome		✓			

*[Signature]*

Faculty In-charge

*[Signature]*

HoD/Civil

*[Signature]*

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SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY, DINDIGUL - 624 002

Department of Civil Engineering

STUDENT FEEDBACK FORM

Name of the Student:

Sulhesh . J

Year/Sem:

My

Date:

21.09/18





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SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY, DINDIGUL - 624 002

Department of Civil Engineering

STUDENT FEEDBACK FORM

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S. Vimal

Year/Sem:

IV yr

Date:

21.09.18



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# Certificate of Completion

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Janani N  
Name

STAAD PRO

Course Title

STAAD PRO

Product

SIVA

Instructor

25/09/18

Date

40 Hours

Course Duration

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Training Head at

*[Signature]*

Head Training

*[Signature]*

DR.D.SENTHIL KUMARIN, M.E., Ph.D., 1988  
Principal

SSM Institute of Engineering and Technology  
Kattappadi Village, Namakkal District, TN-637 002.  
P.O. Box, Namakkal - 637 002.



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website : [www.caddtechnologies.com](http://www.caddtechnologies.com)

Rajesh P  
Name

STAAD PRO  
Course title

STAAD PRO  
Product

SIVA  
Instructor

25/09/18  
Date

40 Hours  
Course Duration

CADD TECHNOLOGIES SCHOOL OF DESIGN PRIVATE LIMITED  
Training Held at

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Head Training

*[Signature]*  
M.D. SENTIL VELAYUTHAN, M.E., P.D., PWS  
Principal  
SVM Institute of Engineering and Technology  
Autonomous Higher Secondary Education  
Pulicat - Need - Marangudi - 604 002





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401/402, 8th Floor, 20/1, Sakinaka Compound

website : [www.caddtechnologies.com](http://www.caddtechnologies.com)



Prakash P

Name

STAAD PRO

STAAD PRO

Course Title

Product

SIVA

Instructor

25/09/18

Date

40 Hours

Course Duration

CADD TECHNOLOGIES SCHOOL OF DESIGN PRIVATE LIMITED

Training Held at

*[Signature]*

Head Training

*[Signature]*

Dr. Senthil Kumar, M.E., Ph.D., M.Sc.

Principal

Head Institute of Engineering and Technology

Engineering College, Sakinaka Compound

Palani, Tamil Nadu - 606 002