



## SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi / Affiliated to Anna University, Chennai / Accredited by NAAC),  
(Accredited by NBA – ECE, EEE & MECH UG Programs)

Dindigul – Palani Highway, Dindigul 624 002

Date: 25.01.23

### CIRCULAR

It is planned to conduct Value Added Course for IV year students by Department of Civil Engineering along with BTR Construction, Erode.

S.No	Year	Name of the Course	Period	No. of Days
1.	IV Year	STAAD.Pro	27.02.23 to 04.03.23	6 Days

Faculty In-charge

  
HoD/Civil

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

SSM Institute of Engineering and Technology  
Kuttathupatti Village, Sindalagundu (Po),  
Palani Road, Dindigul - 624 002





**SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY**

Accredited by NAAC and affiliated to Anna University, Chennai

**2022-23**

**VALUE ADDED COURSE**

**ON**

**STAAD.Pro**

**V8i**

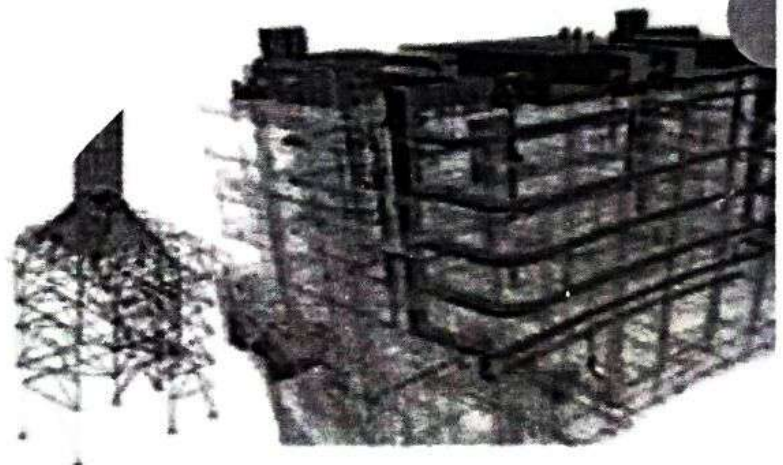


**SERVICE PROVIDER**

**BTR Construction,  
Bhavani Sagar.**

**EVENT COORDINATOR**

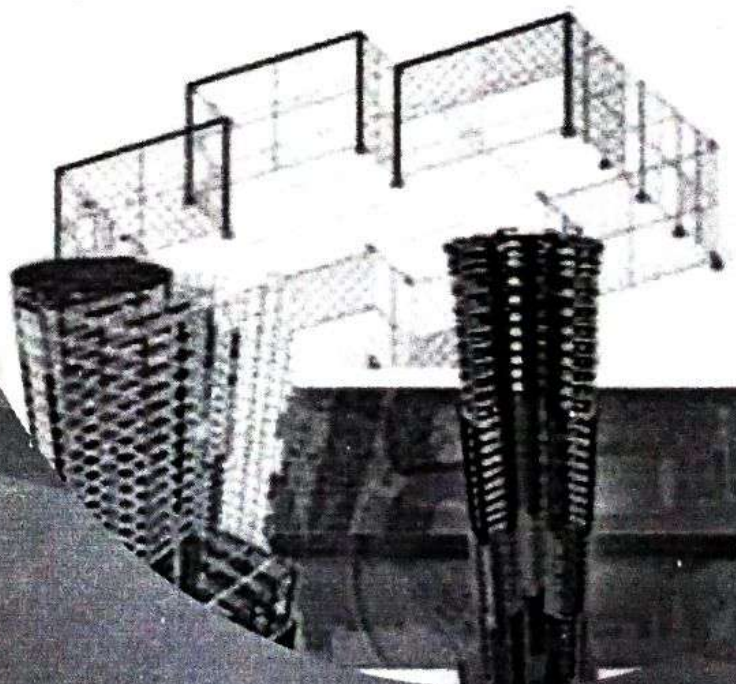
**T. Sivaganesan,  
Assistant Professor,  
SSM-IET, Dindigul.**



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

**Date:**

**27.2.23 to 4.3.23**





## 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

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**SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY, DINDIGUL**  
**DEPARTMENT OF CIVIL ENGINEERING - VALUE ADDED COURSE (STADD PRO)**  
**IV YEAR 2022-23 EVEN SEMESTER - (28.02.2023 TO 04.03.2023)**

**ATTENDANCE SHEET**

S.No	Register No	Student Name	27.02.23		28.02.23		01.03.23		02.03.23		03.03.23		04.03.23	
			FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN
1	922119103001	S. ABUL BAJAR	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
2	922119103002	S. ARAVINTH	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
3	922119103003	A. CHANDRA PRABHU	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
4	922119103004	M. HEMARAJ	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
5	922119103007	C. MAHAVISHNUVARMAN	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
6	922119103008	P. POORNACHANDRAN	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
7	922119103010	S. SANJEEVI	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
8	922119103011	J. SANTHOSH CALVIN	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
9	922119103012	S. R. SATHEESH KUMAR	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
10	922119103013	S. SHEIK DAWOOD	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
11	922119103014	R. SIVA	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
12	922119103015	P. SURESH KUMAR	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
13	922119103016	C.R. VIJEY	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
14	922119103017	A.P.K YOGESH ARASAN	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
15	922119103701	SAKTHI PRAGADEESWARL.B	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB

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HOD/CIVIL

*[Signature]*



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## SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dindigul – Palani Highway, Dindigul – 624 002.

Phone: 0451-2448800-99 (100 Lines) Fax: 0451-2448855

Email: [ssmiedgl@gmail.com](mailto:ssmiedgl@gmail.com) Website: [www.ssmiet.ac.in](http://www.ssmiet.ac.in)

10.03.2023

### Department of Civil Engineering

### Technology Training Report

As an initiative for technology training programme was conducted for IV year Civil Engineering students in CADD lab @ department of civil engineering, scheduled from 27.02.2023 to 04.03.2023. This training was conducted by Mr.R.Udhayasankar., B.T.R Construction, Bhavanisagar.

In this technology training – STAAD. Pro V8i programme consists of 48 hours. Students Learn from the STAAD. Pro V8i – Technology training,

- Design and analyze simple/complex structures for a wide range of loading conditions, including ones that are gravity-induced such as dead and live loads.
- To complete building analysis, design, and drafting for the entire structure accurately. Later, use our state-of-the-art finite element analysis. It helps to reduce or eliminate the time spent to get the results.
- To optimize or analyze beams, columns, and walls for gravity and lateral loads. It helps to quickly obtain safe and economical designs. To produce designs in compliance with Indian requirements and many international design specifications & building codes.
- To design slabs and foundations through specialized applications by integrating them within the master analysis model. To create design calculations and reinforce drawings. To add the design information in BIM models through ISM.

Totally 12 students were benefitted for this programme. The programme was co-ordinated by Mr.T.Sivaganesan, Assistant professor, Civil Engineering. SSM institute of Engineering and technology,Dindigul.



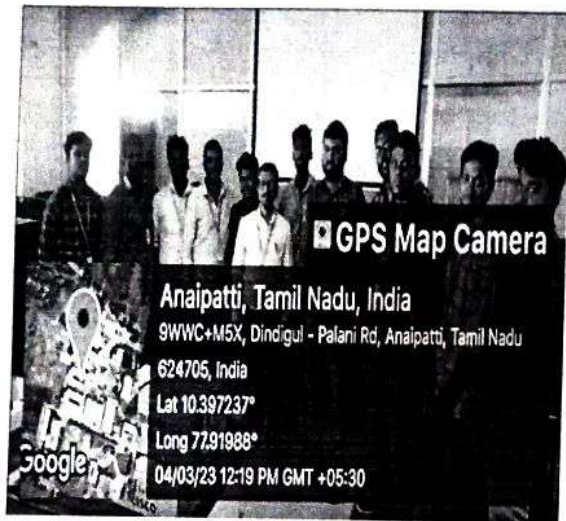
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*[Signature]*

Technology Training In-charge

*[Signature]*  
HOD/Civil

*[Signature]*  
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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
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  - 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 Ix,Iy, Iz
  - 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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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

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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



*Handwritten signature in green ink.*

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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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R. Siva.

IV year

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19  
20

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

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Dr. D. Senthil Kumaran



Dr. D. SENTHIL KUMARAN, M.E., Ph.D., POS

Principal

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☒ True for all sections

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☒ True

B) False

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☒ All of the above

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Principal

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

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S. Sanjeeri

IV year



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16/20

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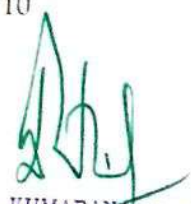
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S. Abdul-baqar

IV year.

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20/1

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*[Handwritten signature]*

D. D. SENTHIL KUMARAN, M.Tech  
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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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C. R. Vijey.

IV year.

## SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi / Affiliated to Anna University, Chennai / Accredited by NAAC)

Dindigul - Palani Highway, Dindigul - 624 002

### 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

16  
20

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 Ix, Iy, Iz

- 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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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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15. The minimum and maximum limits of number of divisions of each side are 1 to 100. ~~X~~  
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? ~~X~~  
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? ~~X~~  
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  
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Department of Civil Engineering

STUDENT FEEDBACK FORM

Name of the Student: *S. Abul Rajar*

Year/Sem: *IV yr*

Date: *04.03.23*

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		✓			

*Deenay*

Faculty In-charge



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*Dr. D. Senthil Kumaran*

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STUDENT FEEDBACK FORM

Name of the Student: *R. Siva*

Year/Sem: *IV yr.*

Date: *4.3.23*

Dear Student,

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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



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*[Signature]*  
HOD/Civil

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STUDENT FEEDBACK FORM

Name of the Student: *C.R. Vijay*  
Year/Sem: *IV yr*  
Date: *04.03.23*

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		✓			

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*Erode*

## CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms/Dr.SIVA R  
has actively participated in the Six Days Short Term Training on the  
topic "STAAD PRO V8i" from 27.02.23 to 04.03.23 organized by  
*BTR Construction, Erode.*



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Er.R.Udhyasankar, M.E  
Managing Director  
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Er.R.Udhyasankar, M.E  
Managing Director  
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