

(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	
	IVV	STAAD.Pro	27.02.23 to	( D	
1.	IV Year		04.03.23	6 Days	

Faculty In-charge

Dr.D.SENTHIL KUMARAN ME. Ph.D. (NOS)

Principal

SSM Institute of Engineering and Technology Kuttathupatti Village Sindelagundu (Poj. Palani Road, Dindigul - 624 062





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2022-23

**VALUE ADDED COURSE** 

ON

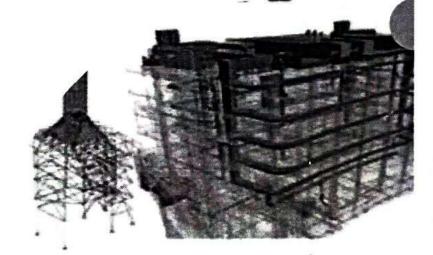
STAAD.Pro V8i



SERVICE PROVIDER BTR Construction, Bhavani Sagar.

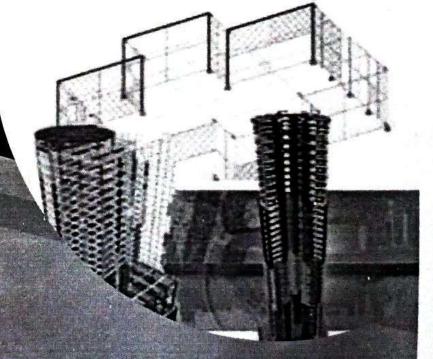
### **EVENT COORDINATOR**

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





Date: 27.2.23 to 4.3.23



### STAAD PRO V8i

i.No	Content
1	Introduction to basic principles of Structural, Analsis 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
Perform Analysis, Overview of Output Page, Pre-analysis Print an 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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### DEPARTMENT OF CIVIL ENGINEERING - VALUE ADDED COURSE (STADD PRO) SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY, DINDIGUL

IV YEAR 2022-23 EVEN SEMESTER - (28.02.2023 TO 04.03.2023)

ATTENDANCE SHEET

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Phone: 0451–2448800–99 (100 Lines)Fax: 0451–2448855 Email: <a href="mailto:ssmietdgl@gmail.com">ssmietdgl@gmail.com</a> Website: <a href="www.ssmiet.ac.in">www.ssmiet.ac.in</a>

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,

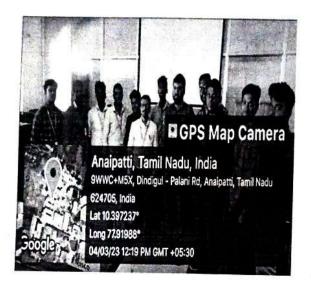
- Design and analyze simple/complex structures for a wide range of loading conditions, including ones that are gravity-induced such as dead and live loads.
- To complete building analysis, design, and drafting for the entire structure accurately. Later, use our state-of-the-art finite element analysis. 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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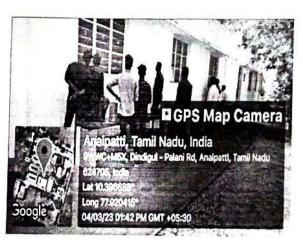
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**Technology Training In-charge** 

HOD/Civil

Principal



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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 Ix,ly, 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

Engineering on technology

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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) Fals€
- 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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<ul><li>15. The minimum and maximum limits of number of divisions of each side are 1 to 100.</li><li>A) True B) False</li></ul>							
<ul> <li>16. For Plates, Which one of the following is true?</li> <li>A) In order to release a Plate you can release the Beams holding the plate</li> <li>B) You can release the Nodes of the Plates.</li> <li>C) You can release more than one Nodes of the Plates.</li> <li>D) Options B &amp; C.</li> </ul>							
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							
0. 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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1-20/

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- A) True
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Engineering and technology

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TOTAL MARKS: 20

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DAll of the above	- Committee of the Comm
9 Va.,	
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B) False	
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C) Multi-iteration Analysis	
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A) 1 B) 2 C) 5 D 4	have in STAAD.Pro?
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A) 1 B) 2 C) 5 D)  Series of the series of t	
Ah.	Dr.D.SENTHIL KUMARAN, M.E., Ph.D. 2003
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	Austathupatti Village, Sindalagundu (Poj.
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15. The minimu	m and maximum	limits of number	r of division	s of each side are 1 to	o 100.
Mrue	B) False				
16 For Plates, V	Which one of the fo	ollowing is true?			
	elease a Plate you		Beams holdi	ng the plate	
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A) 1 B	S) 3 C) 6	<b>10</b> ) 5			
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A) Affective he					
B) Floor heigh					
C) Building he					
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D) Bias is 1 Di	VI IS IU				



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- A) True
- B) False

6. Instead of inputting cross section we can input Ix,ly, Iz

- A) True but only for circular section
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**TOTAL MARKS: 20** 

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	7. You can't assign a prismatic cross-section to steel beam  True
	B) False
	b) raise
	8. STAAD Pro
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	Tal Charles



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Palani Road, Dindigut 62400.

15. The minimum and maximum limits of number of divisions of each side are 1 to 100.  A) True  B) False
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.
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Engineering

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- A) True

(6) False

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	C) Multi-iteration Analysis	
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	C) Multi- Iteration Analysis	
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	True B) False	
	12.1-6	
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	A) 1 B) 2 C) 5 O) 4	
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3/	A (	D. D. CENTHIL KUMARAN. MILE
0	CONTRACTOR AND	Principal
	39 / / XUIN	SSM Institute of Engineering and Texas U
1	/ DUN	Kuttathupatti Vinage, Sindalagundu (Fo). Paiani Road, Dindigul - 624 002
S.		Parant Road, Dindigat Co. Co.

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A) 1 B) 3 C) 6 D 5
10 In Grander I Windle
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C) Building height
(5) All of the Above
D'an or the ricore
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
$A \land A$
$\mathcal{N}$



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Palani Road, Dindigul - 624 002.

C.R. Vijey.

### 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

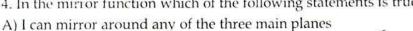
### STAAD PRO ASSESSMENT:

- 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

**TOTAL MARKS: 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



- 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 lx,ly, lz
- 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 SIAAD 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
to a state of the Metive C
12 You can also edit the parameters in structure wizards models
A) True B) False
D) Filse
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?
ring 2nz
A) 1 B) 2 C) 5 D) 4  Did Clittle FUMARAY 11 T.
Pincipal
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Eu is hupatti Vinage, Sindelagandu Fry. Falini Road, Dindigul 624 Jv.
Fallot Koad, Dindigat Valley

A) True	and maximum limits of number of divisions  B) False	of each side are 1 to 100.
A) In order to release to You can release to the second relea	ch one of the following is true?  use a Plate you can release the Beams holding the Nodes of the Plates.  more than one Nodes of the Plates.	; the plate
andPlates, in the di	f which of the following functions, you can d rection of X, Y, Z?  B) Mirror C) Translational Repeat D)	
18. By default, Resp Frame is? A) 1 B) 3	oonse Reduction Factor Value for Special RC	Moment Resisting
<ul><li>19. In floor load, Y i</li><li>A) Affective height</li><li>B) Floor height</li><li>C) Building height</li><li>D) All of the Above</li></ul>		
		and divi value is 2 Divi is 10
		$\Lambda$ .

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Name of the Student: S. Abul Bajer

Year/Sem: IV yn
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			1			
2	Skill development			_			
3	Motivation		1	****			
4	Regularity and Punctuality of trainer		~				
5	Coverageof syllabus Interaction			55			
7	Individual attention		1				
8	Outcome		1				

Faculty In-charge

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### Department of Civil Engineering

### STUDENT FEEDBACK FORM

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Year/Sem: [V y. Date: 4.3.23

Dear Student,

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S.No	Criteria	Rating					
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2	Skill development						
3	Motivation			1			
4	Regularity and Punctuality of trainer		_				
5	Coverageof syllabus		1				
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8	Outcome			1			

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4	Regularity and Punctuality of trainer			~			
5 6	Coverageof syllabus Interaction			1			
			1				
7	Individual attention						
8	Outcome		1				

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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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B.T.R Construction, Erode Er.R.Udhyasankar, M.E Managing Director



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