SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dindigul - Palani Highway, Dindigul 624 002

Date: 25.09.20

CIRCULAR

It is planned to conduct Value Added Course for IV year students by Department of Civil Engineering along with CONCEPTEURS

S.No	Year	Name of the Course	Period	No. of Days
1	IV Year	STAAD PRO	01.10.20 to	11 Davis
1.	iv ieai	STAADTKO	15.10.20	11 Days

Faculty In-charge

HoD/Civil

A SS + DINDIGHT CO.

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

SSM Institute of Eurancering and Technology Kunsthuparti Village Sindalagundu (fo), Palain 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

DLD.SENTHIL KUMARAN, W. Ph.D. (NUS)

Principal

SSM histitute of Rugai colar and Technology Kustalburatti vinage Sanbalagundo irai,

Paulo, Road, placegue 02- 000

STAAD PRO V8i

SI.No	Content
1	Introduction to basic principles of Structural, Analsis and Design
2	Co-ordinate Systems , Units
3	Model Generation, Creating Nodes & Members
-1	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
s	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 Lank Design
18	Staircase Design



CADD TECHNOLOGIES SCHOOL OF DESIGN PRIVATE LIMITED

Dr.D.SENTHIL KUMARAN ME., Ph.D., (NUS)

SSN Institute of Engineering and Technology Lutth Lupetti Village Sindalegundu (Pol. Phian: Read, Dividigat - 694 000)

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

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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

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- B) False, you have to input cross-section always
- C) You have use the standard section available in wizard

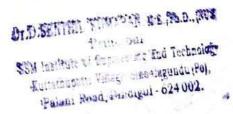
Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (NUS)
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Euttathupatti Village, Sindalagungu. (20).

Palani Road, Dindigul 62-304

- 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 ar A) True	nd maximun B) False	n limits of i	number of c	divisio	ns of each side are 1 to 100.	
16. For Plates, WhichA) In order to releasB) You can release thC) You can release nD) Options B & C.	e a Plate you ne Nodes of	i can releas the Plates.	se the Beam		ing the plate	
17. With the help of andPlates, in the dir A) Circular Repeat	ection of X,	Y, Z?			n duplicate Nodes, Beams, D) Insert Nodes	
18. By default, Respo Frame is? A) 1 B) 3	onse Reducti C) 6		Value for S _l) 5	pecial :	RC Moment Resisting	
19. In floor load, Y is A) Affective height B) Floor height C) Building height D) All of the Above	s the:					
20. In Meshing Parar A) Bias is 1 Divi is 15 D) Bias is 1 Divi is 10	B) Bia	g box, by d as is 1 Divi			is and divi value is s is 2 Divi is 10	
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STAAD PRO ASSESSMENT:

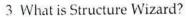
- 1. The new generation of STAAD is:
- A) STAAD-III for Windows
- B) STAAD-III for DOS
- C) STAAD Pro for DOS
- DYSTAAD Pro V81



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



- 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
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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

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- A) True but only for circular section
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- C) You have use the standard section available in wizard

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15 The minimum and n A) True	naximum limits of num	nber of divisions of each side are 1 to 100.
16. For Plates, Which on	e of the following is tr	102
A) In order to release a I	Plate you can release th	e Beams holding the plate
B) You can release the N	odes of the Plates	e beams holding the plate
C) You can release more	than one Nodes of the	Plates
DOptions B & C.	y and reduced of the	Titles.
17. With the help of which and Plates, in the direction A) Circular Repeat By M	up of X, Y, Z?	ctions, you can duplicate Nodes, Beams,
	CONTRACTOR	
18. By default, Response	Reduction Factor Valu	e for Special RC Moment Resisting
Frame is?		
A) 1 B) 3	C) 6 DY 5	
19 In floor load, Y is the:		
A) Affective height		
B) Floor height		
C) Building height		
All of the Above		
20 In Meshing Parametric	c dialog box, by defaul	t, bias value is and divi value is
Bias is 1 Divi is 15	B) Bias is 1 Divi is 11	
D) Bias is 1 Divi is 10	/	1
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		Dr.D.SENTHIL KUMARAN, M.B., Ph.D., (NUS)
		Principal
		SSM institute of Engineering and Technology
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		Palsar Road, Dindigui - 624 002.



STAAD PRO ASSESSMENT:

The new generation of STAAD is:

- A) STAAD-III for Windows
- B) STAAD-III for DOS
- C) STAAD Pro for DOS
- DISTAAD 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
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- D) 100
- 3. What is Structure Wizard?
- A) Allows user to import AUTOCAD DWG files
- BY A Library of pre-defined structural shapes
 - C) Brings Excel sheet to STAAD.Pro
 - D) All of the Above
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5. If you delete nodes, the beams and plates attached to them will be intact

- A) True
- By 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



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7. You can't assign a prismatic cross-section to steel beam Frue B) False 8. STAAD Pro A) Has facility to declare Truss members B) In space model can't differentiate between beams and Truss members 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
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9 You can't edit the floor load from the data area: A) True B) Talse 10 STAAD Pro perform Analysis is:
A) True B) Talse 10 STAAD Pro perform Analysis is:
10 STAAD Pro perform Analysis is:
B) Taling into avoid the displacement of nodes
B) Taking into consideration the stiffness correction C) Multi-iteration Analysis
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
Milti- Iteration Analysis
D) None of the Above
12. You can also edit the parameters in structure wizards models. (12. You can also edit the parameters in structure wizards models. (13. You can also edit the parameters in structure wizards models.
13 In Concentrated Load, P is: A) Value of Load B) Force Direction C) Perpendicular distance from the member
III 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. A) True B) False
Jy T(ac
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,
andPlates, 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
DA of the Above
20. In Meshing Parametric dialog box, by default, bias value is and divi value is
Bijas 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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		Excellent	Very good	Good	Fair	Satisfactory
1	Course content					
2	Skill development		~			1
3	Motivation					-
4	Regularity and Punctuality of trainer					
5	Coverageof syllabus					1
6	Interaction					
7	Individual attention					
8	Outcome					

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Year/Sem: 1

Date:

15.10.20

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		Excellent	Very good	Good	Fair	Satisfactory
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2	Skill development					
3	Motivation		7			
4	Regularity and Punctuality of trainer					
5	Coverageof syllabus					
6	Interaction				_	
7	Individual attention				1	
8	Outcome				Y	

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		Excellent	Very good	Good	Faur	Satisfactory
1	Course content					
2	Skill development					
3	Motivation	1	1			
4	Regularity and Punctuality of trainer		1			
5	Coverageof syllabus	1./				
6	Interaction	./				
7	Individual attention					
8	Outcome					

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Module II - Specifications, Loads and Analysis

Material Property, Member Property, Member Specifications, Supports, Primary Loads, Selfweight, Nodal Loads, Member Loads, Floor Loads, Area Loads, Secondary Loads, Load combinations(Manual & Automatic), Perform Analysis Command, Analysis, Result Interpretation

Module III - Post Processing, Structural Design and Detailing

Post Processing Mode, Post Processing Print Commands, BMD and SFD, Reinforced Concrete Design, Steel Design, Result Interpretation, Detailing Basics

Module IV - Plates, Wind and Seismic

Plates, Surface Meshing, Plate Properties, Plate Specifications, Plate Loads, Wind Load Definition, Wind Load, Seismic Load Definition, Seismic Load, Response Spectrum Analysis

Module V - Project

RCC - Residential

RCC - Water Tanks (Plates)

Steel - Framed Structure

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