

Karamadai, Coimbatore - 641104 (Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai) Phi +91 91500 76729 Email: principal@ckec.ac.in Web: www.ckec.ac.in

PERMISSION LETTER

Date: 18.08.2021

From

Ms. Porulselvi K

Assistant Professor / Course Coordinator

Department of Civil Engineering

Christ the King Engineering College

Coimbatore

To

The principal

Christ the King Engineering College

Coimbatore

Through: Head of The Department / Civil Engineering

Respected Sir,

Sub: Requesting permission to organize a Value-Added Course on " **STADD PRO DESIGN SOFTWAR**" - Reg.

Department of Civil Engineering is planning to organize a Value-Added Course on " Stadd Pro Design Software 25.08.2021 to 16.09.2021 for Second, Third and final year Civil Engineering students. Mrs.Sakthi Shree A Assistant Professor, Department of Civil Engineering as a Resource Person. In this regard, we seek your permission to conduct the same in the Auto CADD laboratory from 25.08.2021 to 16.09.2021 from 4 pm to 6pm. Kindly consider our request and grant the same.

Thanking You,

Dr.M. Frank

Dr.M.JE YAKTIMAR, M.E..Ph.D. PRINCIPAL CHRIST THE KING ENGINEERING COLLEGE, Chikkarampalayam Village, Karamadai, Mettupalayam Taluk, Coumbatore - 641 104.

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DEPARTMENT OF CIVIL ENGINEERING

RefNo: CKEC/CIVIL/VAC/21-22/001

DATE:21.08.2021

CIRCULAR

This is to inform that the department of Civil engineering is planning to conduct a value-added course on "STADD PRO DESIGN SOFTWARE " for all Second, third and final year students on 25.08.2021 to 16.09.2021 Students are asked to register you and utilize this opportunity to improve their skills.

S. No	Course Code	Name of the Course		Department	No of Hours	Course Coordinator	
1	VACE2105	STADD Software	Pro	Design	Civil	32	Ms. Porulselvi K

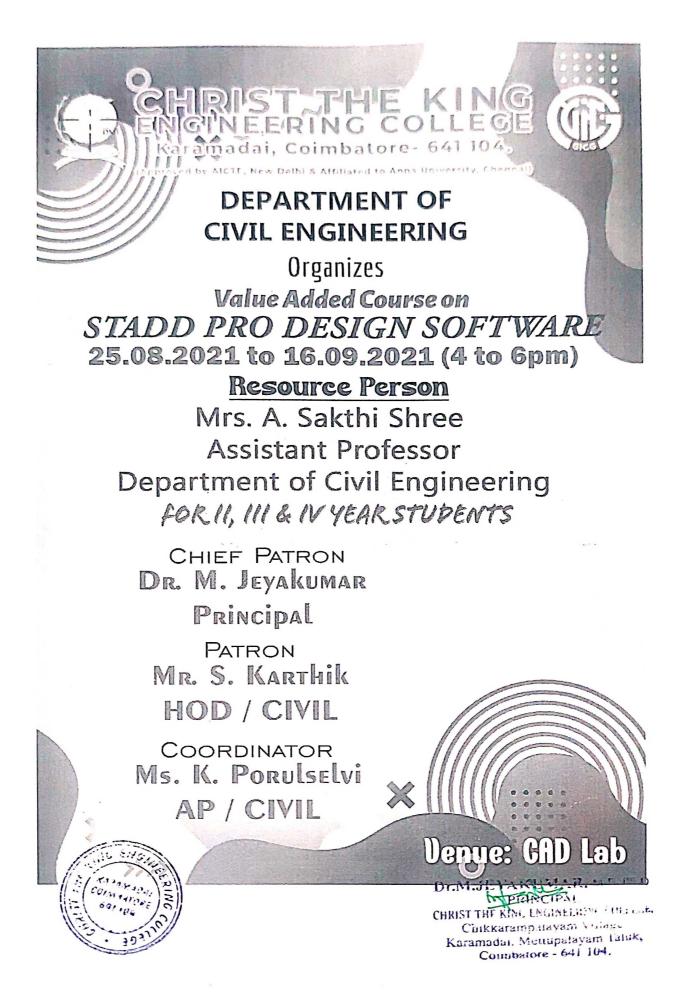
Note: The circular Display in the department Notice board for student's attention.

Copy to: Principal Notice board



Dr.M.JEYARU MAR, M.E..Ph.D. PRINCIPAL CHRIST THE KINC ENGINEERING COLLEGE, Chikkarampalayam Village. Karamadai. Meitupalayam Taluk,

Coimbatore - 641 104,





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DEPARTMENT OF CIVIL ENGINEERING

Course Code	VACE2105
Name Of the Course	STADD Pro Design Software
Duration Of the Course	32 Hours
Academic Year	2021-2022
Period Of the Course	16 Days

COURSE OBJECTIVES:

STAAD.Pro provides flexible modeling environment, fluent data collaboration, and advanced features. It best structural analysis & design software that supports Indian as well as all international codes. STAAD.Pro permits structural engineers to design & analyze any type of structure virtually.

SYLLABUS

UNIT I – INTRODUCTION

Introduction to STRUCTURAL ENGINEERING Introduction to STAAD.Pro. V8i Getting familiar with STAAD window Model generation using STAAD editor

UNIT II – NODE POINTS

Introduction to Snap Node/Beam Editor Model generation using Node/Beam Editor Introduction to Translational Repeat Model generation using Translational Repeat.

UNIT III – LOADS ON STRUCTURAL ELEMENTS	(6)
Assigning Properties Assigning Supports Assigning Loads Structure Analysis.	
UNIT IV – SUPPORT ENDS	(7)
Simply Supported Beam Analysis of Framed Structure Applying Floor Loads.	
UNIT V – DESIGN PRINCIPLE	(7)
Column & Beam Design Reinforced Concrete Design.	



TOTAL HOURS:32 Dr.M. MAR M.E. Ph.D. PRINCIPAL CHRIST THE KING ENGINEERING COLLEGE, Unikkarampalayam Village.

Karamadai, Mettupatayain Taluk, Combatore - 041 104. (6)

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COURSE 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.
- 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-ofplane 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, userspecified 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 international codes.



Dr.M.JE MAR, M.E., Ph.D.

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DEPARTMENT OF CIVIL ENGINEERING VACE2105 - Staad Pro Design Software SCHEDULE

S. No	DAY	TIME/SESSION	CONTENT	RESOURCE PERSON	
	25.08.2021	4.00-6.00pm	Introduction to STRUCTURAL		
1	26.08.2021	4.00-6.00pm	ENGINEERING Introduction to STAAD. Ro. V8i Getting familiar with STAAD		
	27.08.2021	4.00-6.00pm	window Model generation using STAAD		
	28.08.2021	4.00-6.00pm	Introduction to Snap Node/Beam Editor		
2	30.08.2021	4.00-6.00pm	Model generation using Node/Beam Editor		
	31.08.2021	4.00-6.00pm	Introduction to Translational Repeat Model generation using Translational Repeat.		
	01.09.2021	4.00-6.00pm	Ms. Sakthi Shree A Assistant	Ms. Sakthi Shree A Assistant	
3	02.09.2021	4.00-6.00pm	Assigning Properties Assigning Supports Assigning Loads Structure Analysis.	Professor, Department of Civil Engineering, Christ the King	
	03.09.2021	4.00-6.00pm			
	04.09.2021	4.00-6.00pm		Engineering College	
4	07.09.2021	4.00-6.00pm	Simply Supported Beam Analysis of Framed Structure Applying Floor Loads.		
	08.09.2021	4.00-6.00pm			
	09.09.2021	4.00-6.00pm	Column & Beam Design Reinforced		
5	14.09.2021	4.00-6.00pm	Concrete Design.		
	15.09.2021	4.00-6.00pm	Trat		
	16.09.2021	4.00-6.00pm	Test		



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DEPARTMENT OF CIVIL ENGINEERING VACE2105 - Staad Pro Design Software STUDENT REGISTRATION

S.No	REGISTER NUMBER	NAME OF THE STUDENT	SIGNATURE
1	710420103001	AKSHAYJITH P V	Alm PV
2	710420103002	BAVATHARANI S	Barathanani.S
3	710420103003	CHANDRU S	charcher S
4	710420103004	HARIRAJ N	Hanray .D
5	710420103005	IMMANUVEL SHAJU	Immanuvel Stafa
6	710420103006	NESAVAN E	Nemme F.
7	710420103007	SURENDAR S M	Sumandru .
8	710420103301	ARAVINDHAN R	Aunthon
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23	710420103317	THIRUPATHI.P	Thupathi.
24	710420103318	VIGNESH BABU.K.B	Vignesh Batm
25	710419103001	ABIRAM T V	Abriosans
26	710419103002	AKIL M A	AEII
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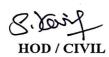
DEPARTMENT OF CIVIL ENGINEERING VACE2105 - Staad Pro Design Software STUDENTS ATTENDANCE LIST

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Dr.M.JEVARUMAR, M.E., Ph.D. PRINCIPAL CHRIST THE KING ENGINEERING COLLEGE, Chikkarampalayam Village, Karamadai, Metupalayam Taluk, Combatore - 641 104.

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S.No	REGISTER	NAME OF THE STUDENT	31.08.2021	01.09.2021	02.09.2021	03.09.2021	04.09.2021
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Dr.M.JEYAKUMAR, M.E..Ph.D. PRINCIPAL CHRIST THE KING ENGINEERING COLLEGE. Chikkarampalayam Village, Karamadai, Mettupalayam Taluk, Combatore - 641 104.



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	REGISTER	NAME OF THE	07.09.2021	08.09.2021	09.09.2021	14.09.2021	15.09.2021
S.No	NUMBER	STUDENT	4-6.00pm	4-6.00pm	4-6.00pm	4-6.00pm	4-6.00pm
1	710420103001	AKSHAYJITH P V	Afer	Am	XF4	thy	Afd
2	710420103002	BAVATHARANI S	Rasthing	Ravakini	Busking	Barteni	Bunking
3	710420103003	CHANDRU S	dut	del	chie	chi	chu
4	710420103004	HARIRAJ N	AB	Jup	How	Volo	ltel
5	710420103005	IMMANUVEL SHAJU	Imp	Imit	That	AB	Donef.
6	710420103006	NESAVAN E	Da	Rie	No	wa	h&
7	710420103007	SURENDAR S M	Sal	22	- Ins	AB	sid
8	710420103301	ARAVINDHAN R	Anith	Amile	Aranith	Aronith	for revel for
9	710420103302	JAYASUDHEER	Treggery	Lugar	Loyout	Luyaber	Tauput
10	710420103303	KARUPPUSAMY	AB	Kanp	Kongp	Loup	Karf
11	710420103304	KUMARESAN.M	Kunner-	Vinnesega	AB	Komuen	Kamesh
12	710420103305	MANIBHARATHI.M	hit	hit	hip	he	AB
13	710420103306	MANJU.G	AB	Conju.S	Marine	- Marymia	1 dry u.C
14	710420103308	MURUGAN.P	MARINS	Menur	Am	Neur	Mann
15	710420103309	MUTHULAKSHMI P	fatedi "	Laberi	Lorenhi	Latai	capt'
16	710420103310	NAVEEN KUMAR.P	Kn2	Kink	Kul	A3	Lunde
17	710420103311	RAJ KUMAR.M	f wijkny	Lusky	Jajkey	Rey Kary	Payking-
18	710420103312	RAM KUMAR K	som	gram	gram	gram	AB
19	710420103313	RANJITH.I	Brith	Rujith	Raciff	Ronith	Reneith
20	710420103314	REEGAN RAI PETER.C	Potof	Pet	AB	Ditel	Baty
21	710420103315	SARATHKUMAR S	84	ay	Der	' That	Sid
22	710420103316	SRI GOWTHAM.T	and	Croth	Gott	Cut	Curtly
23	710420103317	THIRUPATHI.P	The French	Thingen	Thurp	Though	Truch .
24	710420103318	VIGNESH BABU.K. B	A Carrierow	Ellyghan	M.JEYAK	CHALTON	Pheignach
		(· 3031	2//	Chikkaramp:	nCINEERING COL alayam Village, mupalayam Tal re - 641 104.	



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25	710419103001	ABIRAM T V	Apin	AB	Finance	Abina	Afiran
26	710419103002	AKIL M A	Aih	Aiba.	Aller	Kebup.	Asha.
27	710419103003	AMAL SANTHOSH	Southed	Southal	Southesh	Southal	Sandhool
28	710419103008	GOKULAKANNAN S	Bful	Gfu	Giten	Ofur	Ofut
29	710419103009	HARIPRASATH N	ARPAN	Ang Pro-	Home De	AB -	(ffarh.
30	710419103010	JAYASURYA G	· tojanny	fayasori	Janasuriya	forders	Jazanti
31	710419103011	KALAIVANAN C	Land	wet	tout		tore
32	710419103012	ΚΑΥΙΥΑ Κ	Kouth	longy	AB	Lowing	Langen
33	710419103013	KOUSALYA D	Kansalya	1	100035.lyn	Kouselys	Kougaly
34	710419103014	LETCHANA M	Ret	the	that		de.
35	710419103015	MELVIN E MATHEW	MO	to	AB	AD-	<i>₽</i> ₽
36	710419103016	PUSHPARAJ P	Rayper	Patro	Philipa	Puelya	Aut p
37	710419103017	RAMKUMAR M	tom	Dan	Dem	Rom	Ra
38	710419103018	TAMILSELVAN S	Trubo	Tre	D	-	TA
39	710419103019	VIHASHINI P	vihil	rihar	vim	mht	Jue
40	710419103302	BANGARU SENTHIL KUMAR	Bank	Bank	13-9	Barl	Banc
41	710419103303	KARTHIK P	Kuthik	Earthik	Eathik	tarthit	Kati h
42	710419103701	SWATHI H M	AB	the	85	<u>Q</u>	-520-
43	710418103001	ALINA BOBAN	ALS	AD	Age	AS	Aley
44	710418103002	ASHAK SHAN J	fhom_	shan	Show	Shar	AB
45	710418103003	JITHIN DEV	ADer	dip	din	diDer.	Likon
46	710418103004	JITHIN P	Farm	Juf	Ster	Jong	Sout
47	710418103006	NIDHIN M DAVID	NiDer	Nr. Der	Mipa	pri Dev	AB
48	710418103007	PARTHIBAN E	PARTHI	PARTHI	PARTHT	PARTHI	PARTHI
49	710418103009	SNEHA THOMAS	Kruhy	Juton	South	John a	July
50	710418103010	VIGNESH E V	Vingreek	Vingent	Vigweyh	Vigneh	Vigned
51	710418103701	THENMOZHI S	This	They !	thin	Strang !	try
		CENG	N.	1	1 phone		•

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S.No	REGISTER NUMBER	NAME OF THE STUDENT	16.09.2021 4-6.00pm
1	716420103001	АКЅНАУЛТН Р V	stall
2	710420103002	BAVATHARANI S	Right
3	710420103003	CHANDRU S	chip
4	710420103004	HARIRAJ N	trad
5	710420103005	IMMANUVEL SHAJU	Frund
6	710420103006	NESAVAN E	Mar
7	710420103007	SURENDAR S M	Sur
8	710420103301	ARAVINDHAN R	Armithi
9	710420103302	JAYASUDHEER	Hayand -
10	710420103303	KARUPPUSAMY	Ford
11	710420103304	KUMARESAN.M	Knuder.
12	710420103305	MANIBHARATHI.M	Mo
13	710420103306	MANJU.G	Monter Co
14	710420103308	MURUGAN.P	Merring
15	710420103309	MUTHULAKSHMI P	Latshui
16	710420103310	NAVEEN KUMAR.P	Kape
17	710420103311	RAJ KUMAR.M	Hottend.
18	710420103312	RAM KUMAR K	gram
19	710420103313	RANJITH.I	Bazirth
20	710420103314	REF.GAN RAI PETER.C	Pater
21	710420103315	SARATHKUMAR S	Stoffe
22	710420103316	SRI GOWTHAM.T	Com
23	710420103317	THIRUPATHI.P	Thimpel.
24	710420103318	VIGNESH BABU.K.B	Anosh
25	710419103001	ABIRAM T V	Apionel monte
26	710419103002	AKIL M A	DEAL JE VAKUMAR, M



Combaure - 641 194.



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27	710419103003	AMAL SANTHOSH	Satther
28	710419103008	GOKULAKANNAN S	Bhu
29	710419103009	HARIPRASATH N	-HariBett
30	710419103010	JAYASURYA G	Jay arwing
31	710419103011	KALAIVANAN C	Kabiconer
32	710419103012	ΚΑVΙΥΑ Κ	Kavila
33	710419103013	KOUSALYA D	Lawiga.
34	710419103014	LETCHANA M	Jotehur
35	710419103015	MELVIN E MATHEW	MakinEhatha
36	710419103016	PUSHPARAJ P	Burna
37	710419103017	RAMKUMAR M	Doulano2
38	710419103018	TAMILSELVAN S	The
39	710419103019	VIHASHINI P	Vidan
40	710419103302	BANGARU SENTHIL KUMAR	Barry
Å1	710419103303	KARTHIK P	Karthik
42	710419103701	SWATHI H M	Sur -
43	710418103001	ALINA BOBAN	Aug
44	710418103002	ASHAK SHAN J	sh-
45	710418103003	JITHIN DEV	Atta Dev
46	710418103004	JITHIN P	til fill 10
47	710418103006	NIDHIN M DAVID	Ni Der
48	710418103007	PARTHIBAN E	PARTHI
49	710418103009	SNEHA THOMAS	Juncho.
50	710418103010	VIGNESH E V	Vigner
51	710418103701	THENMOZHI S	Thuby
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DEPARTMENT OF CIVIL ENGINEERING VACE2105 - Staad Pro Design Software <u>MULTIPLE CHOICE QUESTION</u>

1.In the input file and under joint coordinate, one the following statement is true A)1.0.0.0 B)1000 C)1:0:0:0 D)100 2. 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 STADD.Pro D)All if the above 3.If you delete nodes, the beams and plates attached to them will be intact A) True B) False 4. The new generation of STADD is A) STADD-III For Windows B) STADD-III - for DOS C) STADD Pro for DOS D) STADD Pro V8i 5.In the mirror function which of the following statement 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-Y plane D)There is only copy mode in mirror 6. Instead of imputing 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 D)True for all section 7.You can't assign a prismatic cross section steel beam A)True B) False 8.STADD Pro A) Has facility to declare truss members B) In space model can't differentiate between beam and truss members C)Will treat truss member as ordinary member in space structure D)All of the above Dr.M.JEYA



UMAR, M.E..Ph.D PRINCIPAL CHRIST THE KING ENGINEERING COLLEGE, Chikkarampalayam Village. Karamadar Mettupalayam Taluk, Combatore - 641 104.



Karamadai, Coimbatore - 641104 (Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai) Ph: +91 91500 76729 Email: principal@ckec.ac.in Web: www.ckec.ac.in

- 9. You can't edit the floor load from the data area
- A) True
- B) False
- 10. STADD 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



Dr.M.JEYAKUMAR, M.E..Ph.D.

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DEPARTMENT OF CIVIL ENGINEERING VACE2105 - Staad Pro Design Software STUDENTS ASSESSMENT MARKS

S.No	REGISTER NUMBER	NAME OF THE STUDEN?	Г MARKS (10)
1	710420103001	AKSHAYJITH P V	7
2	710420103002	BAVATHARANI S	8
3	710420103003	CHANDRU S	7
4	710420103004	HARIRAJ N	7
5	710420103005	IMMANUVEL SHAJU	8
6	710420103006	NESAVAN E	. 9
7	710420103007	SURENDAR S M	8
8	710420103301	ARAVINDHAN R	7
9	710420103302	JAYASUDHEER	7
10	710420103303	KARUPPUSAMY	8
11	710420103304	KUMARESAN.M	8
12	710420103305	MANIBHARATHI.M	7
13	710420103306	MANJU.G	9
14	710420103308	MURUGAN.P	7
15	710420103309	MUTHULAKSHMI P	8
16	710420103310	NAVEEN KUMAR.P	٦
17	710420103311	RAJ KUMAR.M	۲
18	710420103312	RAM KUMAR K	8
19	710420103313	RANJITH.I	7
N CIAR BO	710420103314	REEGAN RAI PETER.C	8 Maril
PATORE 104 303			DE.IVI.JE.VARUMAR, M.EPh.D PRINCIPAL CHRIST THE KING ENGINEERING COLLEGE Cnikkarampalayam Village, Karamadai, Mettupalayam Taluk, Combatore - 641 104.



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21	710420103315	SARATHKUMAR S	7
22	710420103316	SRI GOWTHAM.T	8
23	710420103317	THIRUPATHLP	ר כ
24	710420103318	VIGNESH BABU.K.B	8
25	710419103001	ABIRAM T V	7
26	710419103002	AKIL M A	8
27	710419103003	AMAL SANTHOSH	7
28	710419103008	GOKULAKANNAN S	7
29	710419103009	HARIPRASATH N	9
30	710419103010	JAYASURYA G	8
31	710419103011	KALAIVANAN C	Т
32	710419103012	ΚΑΥΙΥΑΚ	9
33	710419103013	KOUSALYA D	8
34	710419103014	LETCHANA M	7
35	710419103015	MELVIN E MATHEW	8
36	5 710419103016	PUSHPARAJ P	7
37		RAMKUMAR M .	8
38		TAMILSELVAN S	9
39	9 710419103019	VIHASHINI P	8
40	710419103302	BANGARU SENTHIL KUMAR	Т
4	1 710419103303	KARTHIK P	8
4	2 710419103701	SWATHI H M	9 monte
ENGLAVERA	710418103001	ALINA BOBAN	Dr.M. JEYAKUMAR, M.E. Pb.D.
			PRINCIPAL CHRIST THE KING ENGINEERING COLLEGE, Chikkarampalayam Village, Karamadai, Mettupalayam Taluk, Combatore - 641 104.



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	and more a successful design of the last sector of the last sector of the last sector of the last sector of the		
44	710418103002	ASHAK SHAN J	8
45	710418103003	JITHIN DEV	7
46	710418103004	JITHIN P	8
47	710418103006	NIDHIN M DAVID	T
48	710418103007	PARTHIBAN E	8
49	710418103009	SNEHA THOMAS	8
50	710418103010	VIGNESH E V	Т
51	710418103701	THENMOZHI S	9

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DEPARTMENT OF CIVIL ENGINEERING

VACE2105 - Staad Pro Design Software

MULTIPLE CHOICE QUESTION

Name Register No. Year / Sem Academic Year Vihashine. P 710419103019 Úlii 2021 - 2022

1.In the input file and under joint coordinate, one the following statement is true AT1.0.0.0 B)1000 C)1;0;0;0 D)100 2. 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 STADD.Pro D)All if the above 3.If you delete nodes, the beams and plates attached to them will be intact A) True B) False 4. The new generation of STADD is A) STADD-III For Windows B) STADD-III - for DOS C) STADD Pro for DOS

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DI STADD Pro V8i

5.In the mirror function which of the following statement is true

X) 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-Y plane

D)There is only copy mode in mirror

6. Instead of imputing 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

D)True for all section

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

A)True

B) False 8.STADD Pro



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A) Has facility to declare truss members

B) In space model can't differentiate between beam and truss members

C)Will treat truss member as ordinary member in space structure

DAll of the above

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

A) True

B) False

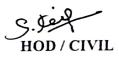
10. STADD Pro perform analysis is

A) Taking into consideration the displacement of nodes

B) Taking into consideration the stiffness correction

C) Multi-iteration analysis

D)None of the above







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DEPARTMENT OF CIVIL ENGINEERING

STUDENT FEEDBACK FORM

e value added course: Stadd Pro Lesigh Software. Name of the student: Akgray af 18th V Register Number Name of the value added course: Stadd 710420103001 **Register Number:** Year / semester: I/M **Batch:** Porulselul.K **Course Coordinator:** Academic Year: 2-21-2022

Rating Sl.No. Criteria Excellent Satisfactory Poor Good Average Course content 1. \checkmark Individual attention 2. Level of the course 3. Regularity and 4. knowledge of faculty Coverage of syllabus 5. Interaction 6. Outcome 7. Total Qu 16 Remarks GOOD-4 **SATISFACTORY-2**

EXCELLENT-5

AVERAGE-3

POOR-1



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Signature of the student



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DEPARTMENT OF CIVIL ENGINEERING

POST EVENT REPORT

Course code	VACE2105
Name of the course	Staad Pro Design Software
Duration of the course	32 Hours
Academic year	2021-2022
Period of the course	16 Days
Coordinator & Faculty handling the course	Ms. Porulselvi K Ms. Sakthi Shree A
Number of the students registered	51
Number of the students completed	51
% of students completed the course	100%
Details of the course	STAAD Pro makes the work of civil engineers hassle-free. It allows them to make accurate analyses and a perfect design for any structure. Engineers can use them for structures such as bridges, buildings, floodgates, or others.

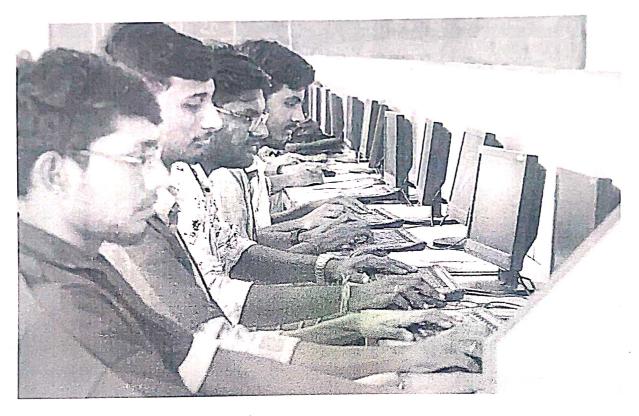


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VACE 21-22: STADD PRO DESIGN SOFTWAR



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