CONCEPTEURS

September 11th, 2020

To

The Head of the Department

Department of Civil Engineering,

SSM Institute of Engineering and Technology

Dindigul-Palani Highway,

Dindigul,

Tamil Nadu 624002

Sir,

Sub: Proposed Quote for Training in Campus + on line

CONCEPTEURS is primarily a Structural Design consultancy. **CONCEPTEURS CAD Training centre** is a dedicated division of CONCEPTEURS which offers Civil/Structural Engineering software training for students and professionals

As **CONCEPTEURS** is driven by experienced Professionals, we assure you that we can provide efficient knowledge based skillful training to your students.

We would like to submit our quote for Online training program on Structural Analysis and Design using STAAD Pro. The training program encapsulates the Analysis and Design principles which the students acquire in their Graduate course over 12 subjects spanning 5 Semesters and integrates them with practically viable structural applications. This program would enable students to confidently apply the engineering principles and concepts that they have acquired in their graduate engineering program.

Course material   : *Softcopy of the Reference manual of*
                                         STAAD Pro. V8i

Curriculum   :
Module 1:   STAAD Interface
             Joints, Members, Plates (Command &
             GUI) Importing Models from Auto CAD
             Material, Member Property, Element Property, Member
             Spec. Support Specifications

Module 2:   Loads (Static, Wind & Seismic)
             Analysis
             Analysis Result Interpretation
             Design (Steel & Reinforced
             Concrete) Design Result
             Interpretation

Module 3: Project Work
             Design project of 7th semester

On acceptance of above quote, we shall proceed with the preparation
to commence the course. The course commencement shall be decided
on mutual consent.

Thanking You,

Sincerely,

S.Antony Jeyendran
Er. S. ANTONY JEYENDRAN
B E.,M.E. (Struct.) .()Ph.D.).,M.I.E.,F.I.V
Structural Consultant
Fellow of Institution of Valuers (F-27998)
Chartered Engineer (m-1613019)
Old No 19/84,New No:43 B.K. Chetty Street,Fort.
Coimbatore-641 001
Ph :99 44 32 35 42

Negotiated & fixed at Rs. 1150/student

SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF CIVIL ENGINEEREING

Date: 29 - 12 -2020

<u>**Submitted to the Principal for kind approval:**</u>

Sub: **Value added course (STAAD Pro) – Payment - request –reg.**

With reference to the Quotation approval letter, Department of Civil Engineering offered a value added program entitled "STAAD Pro" for 87 No's belongs to Final year Civil Engineering students. They were completed the training and certification.

Hence an approval may kindly be given to release the payment of Rs.100000/- (Rupees one lakh only)

Thanking You

Enclosure :

1. Invoice
2. Approval Letter
3. Students Fee Payment Details

HOD

PRINCIPAL

CONCEPTEURS

TAX INVOICE

Customer : To **SSM Institute of Engineering and Technology,,** Department of Civil Engineering, Dindigul-Palani Highway,, Dindigul, Tamil Nadu 624002	Customer's GST Registration No. :	Invoice No :	**200004**
	Customer's PAN	Invoice Date :	**28.12.2020**
References :			
Job No. : CTC-OST-20-001	Job Name : Value Added Course		

Si. No.	Description	AMOUNT (INR)
01	Skill Development Training - **Value Added Course** - "Computer Aided Structural Analysis and Design of Structures using **STAAD Pro V8i**" Conducted During the month of October, 2020 (*October 1st, 2020 through October 15th, 2020*) At ☐1,150/- per Student(*Rupees One thousand one hundred and Fifty only per student*) No. of Students – 87 87 x 1150 = 1,00,050/- ≈ 1,00,000/-	**1,00,000/-**

	TOTAL =	1,00,000.00
	Central GST Tax @ 9.00% =	Not Applicable
	State GST Tax @ 9.00% =	Not Applicable
	GRAND TOTAL =	1,00,000.00

For CONCEPTEURS

S ANTONY JEYENDRAN B.E .M.E (Struct.)
Proprietor
Authorized Signatory

Forwarded to PRINCIPAL

30/12/2020.

(Rupees One LakhOnly)

+91-9844823542

info@concepteurs.org

www.concepteurs.org

Old No. 19/84, New No. 43
B K Chetty Street, Fort,
Coimbatore - 641 001
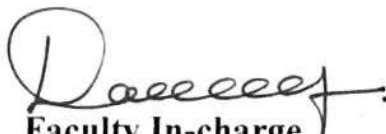
SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

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 15.10.20	11 Days

Faculty In-charge

HoD/Civil

SSM Institute of Engineering and Technology,
Dindigul-624002.

DEPARTMENT OF
CIVIL ENGINEERING

Staad Pro

Technology Training

STAAD PRO V8*i*

Sl.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
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

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

S.No	NAME	1.10.2020 FN	1.10.2020 AN	2.10.2020 FN	2.10.2020 AN	5.10.2020 FN	5.10.2020 AN	6.10.2020 FN	6.10.2020 AN	7.10.2020 FN	7.10.2020 AN	8.10.2020 FN	8.10.2020 AN	9.10.2020 FN	9.10.2020 AN	12.10.2020 FN	12.10.2020 AN	13.10.2020 FN	13.10.2020 AN	14.10.2020 FN	14.10.2020 AN	15.10.2020 FN	15.10.2020 AN
1	Abdul Kareem J	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	AB	AB	✓	✓
2	Anand S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	AB	✓	AB
3	Aravindhan M	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
4	Aravind Sriram S	✓	✓	✓	✓	AB	AB	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
5	Arul Jose Angeline P	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
6	Arun K G	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
7	Ashwin Bharath V	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	AB	AB	✓	✓	✓	✓	✓	✓
8	Balaji G	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
9	Balaji N	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
10	Balamurugan M	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	AB	AB
11	Chinna Kannan S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	AB	AB	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
12	Deepika G	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
13	Dhana Sekar S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
14	Gokula Kanna S S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
15	Gowthami S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
16	Hariharan C	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
17	Harini K	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
18	Harishprabu D	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
19	Hari Vimanthan G	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
20	Ibrahim Sameer N	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
21	Ilavarasi S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	AB	AB	✓	✓	✓	✓
22	Jai Prasanth V	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
23	Jegadeesan P	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
24	Jeyavahini GPNS	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
25	Kali Dhivakar M	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
26	Karthika S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
27	Karthikeyan T	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
28	Kavishree M	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
29	Kishore Arvind B	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
30	Laabha Dharshine K	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
31	Lakshmanan B	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
32	Lalithdev K	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
33	Lisha Lourds J	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
34	Mahalingasiva T	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
35	Maheshwaran P	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
36	Manojprabakar R	AB	AB	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
37	Mathavan S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
38	Mohamed Aarif A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
39	Mohamed Kasim Sarafath H	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
40	Mohamed Yunus A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
41	Mohan Raj K	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

No.	Name
42	Muneeskumar M
43	Muthu Krishnan T
44	Naveen Kumar K
45	Naveen Kumar N
46	Nitheesh Kumar S
47	Nithish Kumar R
48	Nithya P M
49	Pichai Mani K
50	Pitchaimuthu M
51	Pragatheeswaran P
52	Prasanna M
53	Priyadharshini V
54	Pugazhenthi A
55	Ragupathy V
56	Rahul R
57	Rahul Prabu R
58	Rajesh B
59	Ramya Sri G
60	Sabarigirinathan S
61	Sabari Kishore S
62	Sanjeev Kumar A
63	Sastha Ajay M
64	Savitha G
65	Sethu Arun A S
66	Shahid Afrid S
67	Shalini P
68	Shobika R
69	Shruthi C
70	Sujitha K
71	Sujith Ram P
72	Surendran A K
73	Tharun Kumar S
74	Thesingu Raja J
75	Udhava Kumar R
76	Vanitha K
77	Vijayalakshmi V
78	Vijay Vishwanath S
79	Viswa Bharathi K
80	Viswanathan T
81	Vithun Chopra V
82	Abinesh N
83	Baskaran K
84	Gowtham Veera Ganesh R
85	Sarath Kumar S
86	Ramkumar C

HoD/Civil

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

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

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

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, 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
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

STAAD PRO ASSESSMENT: TOTAL MARKS: 20

1. The new generation of STAAD is:

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TOTAL MARKS: 20

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16/20

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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
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

SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY, DINDIGUL - 624 002

Department of Civil Engineering

STUDENT FEEDBACK FORM

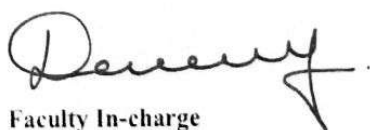Name of the Student: Vijayalakshmi. V

Year/Sem: IV yr

Date: 15.10.20

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		✓			

Faculty In-charge

HoD/Civil

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Department of Civil Engineering

STUDENT FEEDBACK FORM

Name of the Student: Abiresh

Year/Sem: IV yr

Date: 15.10.20

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			✓		

Faculty In-charge

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Department of Civil Engineering

STUDENT FEEDBACK FORM

Name of the Student: Ramya Sri

Year/Sem: IV yr

Date: 15-10-20

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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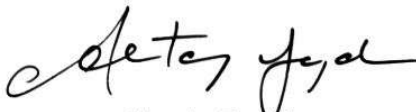# Certificate of Completion

AWARDED TO

SHAHD AFRID S

on successful completion of

COMPUTER AIDED STRUCTURAL ANALYSIS AND DESIGN using STAAD Pro. V8i - VALUE ADDED COURSE at SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY, Dindigul During October 1st, 2020 - October 15th, 2020

Course Advisor

Er.S.SAKTHIVEL B.E., A.M.I.E.,F.I.V.,
Structural Consultant, Registered Valuer for Wealth Tax (13/2013-2014)

Head - Training

Er.S.ANTONY JEYENDRAN M.E.(Struct.),M.I.E.,F.I.V.
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Date of Issue - December 7th, 2020

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Register No.	:	ASO200067
Course Instructor	:	Er.S.Antony Jeyendran B.E., M.E.(Struc.),M.I.E.,F.I.V

Computer Aided Structural Analysis and Design of Structures - VAC

Module I - Basics

Basics of Structural Analysis and Design, Finite Element Analysis Concepts, Geometry Creation(STAAD Editor, GUI, Struture Wizard), Beams, Move, Repeat Commands, Geometry Menu, Select Menu, Tools Menu

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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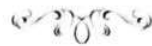**New No.43, B.K.Chetty Street, Fort, Coimbatore - 641001**

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Credentials

Student Name	:	NITHEESH KUMAR S
Register No.	:	ASO200047
Course Instructor	:	Er.S.Antony Jeyendran B.E., M.E.(Struc.),M.I.E.,F.I.V

Computer Aided Structural Analysis and Design of Structures - VAC

Module I - Basics

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Date of Issue - December 7th, 2020

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Student Name	:	RAHUL R
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Course Instructor	:	Er.S.Antony Jeyendran B.E., M.E.(Struc.).,M.I.E.,F.I.V

Computer Aided Structural Analysis and Design of Structures - VAC

Module I - Basics

Basics of Structural Analysis and Design, Finite Element Analysis Concepts, Geometry Creation(STAAD Editor, GUI, Struture Wizard), Beams, Move, Repeat Commands, Geometry Menu, Select Menu, Tools Menu

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