



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 Website: www.ssmiet.ac.in

07.11.2022

DEPARTMENT OF CIVIL ENGINEERING

Submitted to the Principal for kind approval

Sub: Requisition of approval to conduct STAAD PRO Software Training Program - Reg.,

I wish to bring your kind notice that, in this semester we are going to conduct a value added course STAAD PRO for our IV year students (15 No's) in association with CADD Technologies, Coimbatore. In this connection, Enclosed the syllabus and quotation from CADD Technologies.

S. No	Year	Name of the Program	Period	No of Days	No of Students	Rate/Student Rs	Total Fees Rs
1	IV Year	STAAD PRO V8i	09.11.22	6 Days	15	Rs.1750+ 18%GST	Rs.30975/-
Total							Rs.30975/-

The proposal and course content received from CADD Technologies School of Design Private Limited is also enclosed for your kind perusal and approval.

Enclosure - 1. Quotation

2. Syllabus


HOD/CIVIL


PRINCIPAL



CADD TECHNOLOGIES™

SCHOOL OF DESIGN PRIVATE LIMITED

CAD / CAM / CAE Training Centre

An ISO 9001 : 2015 Certified Company

To,

05.11.2022

The Principal,
SSM Institute of Engineering and Technology,
Dindigul – Palani Highway
Dindigul – 624 002.

Respected Sir,

Sub: Proposal for conducting Value Added Training at Campus Regarding

At the outset, we thank you so much for your continuous support and the courtesy extended during our visit. We furnish below the following details for your kind Perusal and necessary approval.

S.No	Department	Training On	Year of Students	No of Students (Approx.)	Rate/Student (Rs.)
01	Civil Engineering	Staad.Pro	4 th Year	15	1750/-+18% GST

We have enclosed herewith the detailed syllabus for your reference as well. Kindly approve the same and assuring you our best services at all times.

Thanking you,

Yours Faithfully,

For CADD Technologies School of Design Private Limited,



N.Venkatraman
Director, Head- Marketing and HR
+91 9842003196



CADD TECHNOLOGIES™

SCHOOL OF DESIGN PRIVATE LIMITED

CAD / CAM / CAE Training Centre

An ISO 9001 2015 Certified Company

33, Rajaji Road, Ram Nagar, Gandhipuram, Coimbatore - 641 009.

+91 99422 24219, 98420 79990, Tel : 0422 223 4400

corporate@caddtechnologies.com www.caddtechnologies.com

Branches :

- COIMBATORE
- CHENNAI
- MADURAI
- POLLACHI

INVOICE

Ref: CTS/SSMIET/004/2021-2022

Date: 03.12.2021

PAN No: AAEECC9084H

GST NO: 33AAEECC9084H1ZJ

Account No: 0187360000000147

Bank: Lakshmi Vilas Bank

Branch: Gandhipuram

IFSC Code: LAVB0000187

To,

The Principal,
SSM Institute of Engineering and Technology,
Dindigul – Palani Highway
Dindigul – 624 002.

S.NO	Description	No.of Students	Rate/Student	Amount
01.	Training on Staad.Pro given to Civil Students	30	Rs.1500/-	Rs.45000.00
	Total			Rs.45000.00

(Rupees Forty five Thousand Only)

Please Issue a DD/ Cheque favoring in the name of "CADD Technologies School of Design Private Limited" payable at Coimbatore or transfer payment to the above given account.

For CADD Technologies School of Design Private Limited,

N.Venkatraman
Head – Marketing & HR



AUTODESK
Authorized Training Center
Authorized Certification Center
Authorized Academic Partner

Bentley Institute
Product Training Partner

ptc university
Authorized Training Centre



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DEPARTMENT OF CIVIL ENGINEERING

08/11/2021

To
The Principal,
SSMIET,
Dindigul.

Respected Sir,

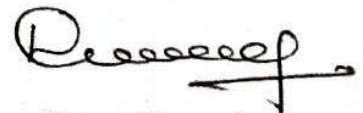
Sub: Requesting permission for Conduct Value added Training Program (Stadd Pro) -
IV Year students & Accommodation - Regarding.

As we have conduct value added training program (Staad Pro) - IV Year students in the Period of 15.11.2021 to 21.11.2021. So kindly give permission for conduct value added training program (Staad Pro) - IV Year- 30 students and request for provide the accommodation for trainer (1 person) in our college.

Period - 15-11-2021 to 21-11-2021

No
✓


HOD/Civil



Yours Sincerely,
(T.Sivaganesan)


PRINCIPAL



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: 07.11.22

CIRCULAR

It is planned to conduct Value Added Course for IV year students by Department of Civil Engineering along with CADD TECHNOLOGIES SCHOOL OF DESIGN PVT, LTD.

S.N o	Year	Name of the Course	Period	No. of Days
1.	IV Year	STAAD PRO V8i	15.11.22 to 22.11.22	6 Days

Faculty In-charge

HoD/Civil



**SSM Institute of Engineering and Technology,
Dindigul-624002.**

DEPARTMENT OF CIVIL ENGINEERING



Cadd Technologies School of design Private limited,
Coimbatore-641 009.

Technology Training

STAAD PRO

2021-22

FINAL YEAR 2021-22

STAAD PRO V8i

On site 50 Hours syllabus

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

S. No.			Reg. No.		Name of the student		15/11/2021												16/11/2021												17/11/2021												19/11/2021												20/11/2021												22/11/2021												23/11/2021																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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1221	1222	1223	1224	1225	1226	1227	1228	1229	1230	1231	1232	1233	1234	1235	1236	1237	1238	1239	1240	1241	1242	1243	1244	1245	1246	1247	1248	1249	1250	1251	1252	1253	1254	1255	1256	1257	1258	1259	1260	1261	1262	1263	1264	1265	1266	1267	1268	1269	1270	1271	1272	1273	1274	1275	1276	1277	1278	1279	1280	1281	1282	1283	1284	1285	1286	1287	1288	1289	1290	1291	1292	1293	1294	1295	1296	1297	1298	1299	1300	1301	1302	1303	1304	1305	1306	1307	1308	1309	1310	1311	1312	1313	1314	1315	1316	1317	1318	1319	1320	1321	1322	1323	1324	1325	1326	1327	1328	1329	1330	1331	1332	1333	1334	1335	1336	1337	1338	1339	1340	1341	1342	1343	1344	1345	1346	1347	1348	1349	1350	1351	1352	1353	1354	1355	1356	1357	1358	1359	1360	1361	1362	1363	1364	1365	1366	1367	1368	1369	1370	1371	1372	1373	1374	1375	1376	1377	1378	1379	1380	1381	1382	1383	1384	1385	1386	1387	1388	1389	1390	1391	1392	1393	1394	1395	1396	1397	1398	1399	1400	1401	1402	1403	1404	1405	1406	1407	1408	1409	1410	1411	1412	1413	1414	1415	1416	1417	1418	1419	1420	1421	1422	1423	1424	1425	1426	1427	1428	1429	1430	1431	1432	1433	1434	1435	1436	1437	1438	1439	1440	1441	1442	1443	1444	1445	1446	1447	1448	1449	1450	1451	1452	1453	1454	1455	1456	1457	1458	1459	1460	1461	1462	1463	1464	1465	1466	1467	1468	1469	1470	1471	1472



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26.11.2021

Department of Civil Engineering Technology Training Report

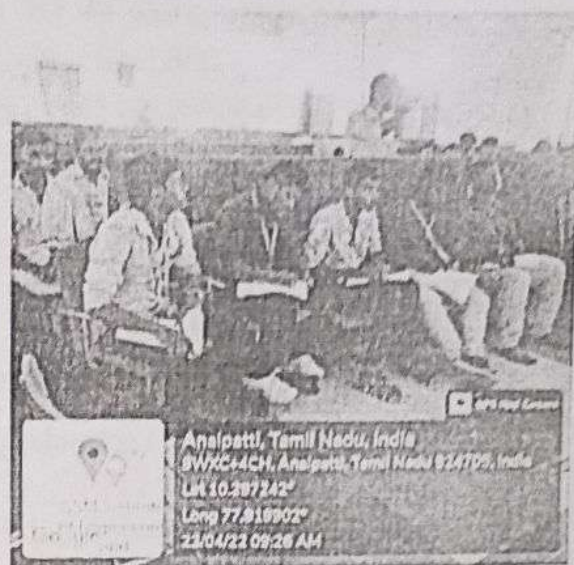
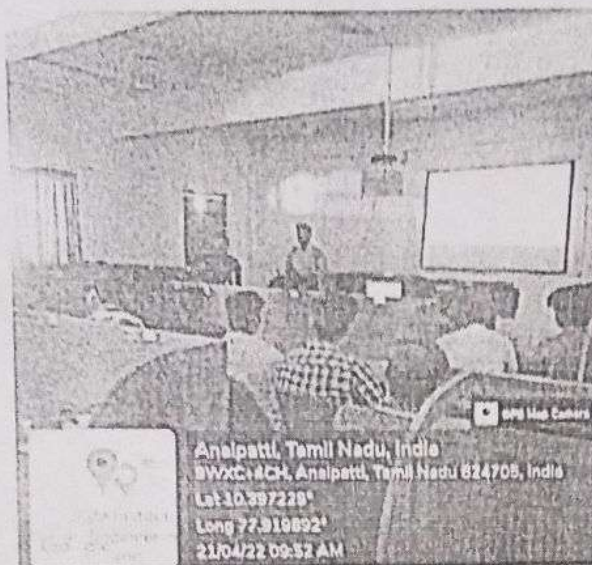
As an initiative for technology training programme was conducted for Final year Civil Engineering students in our campus scheduled from 15.11.2021 to 22.11.2021. This training was given by Mr.S.Pradheep, CADD Centre, Coimbatore.

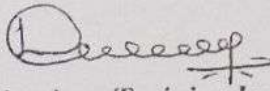
In this technology training – STADDPRO programme consists of 60 hours.

Students Learn from the Stadd pro programme

- To Analyse gravity and lateral load
- Check designs for cold-formed sections
- Complying with seismic requirements
- Create finite element meshes
- Design & Analyze with finite elements
- Design & Analyze structural models
- Design beams, columns, and walls
- Design lateral resisting frames
- Design for international design standards
- Generate design loads and load combinations

Totally 30 students were benefitted to the technology training programme. The training programme organized by Dr.G.Selvabharathi, HOD of Civil Engineering and Mr.T.Sivaganesan, Assistant professor, Civil Engineering.




 Technology Training In-charge


 HOD/Civil


 Principal



SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY
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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

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 I_x, I_y, I_z
 - 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, 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

P. Arul



SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

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STAAD PRO ASSESSMENT:

TOTAL MARKS: 20

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- ☒ 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

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- ☒ A) True
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6. Instead of inputting cross section we can input Ix, Iy, Iz

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☒ D) All of the above

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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.

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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, 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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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

15
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

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?

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Department of Civil Engineering

STUDENT FEEDBACK FORM

Name of the Student: *V. Abisami*

Year/Sem: *IV yr*

Date: *22.11.22*

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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

[Signature]
HoD Civil

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Department of Civil Engineering

STUDENT FEEDBACK FORM

Name of the Student:

S. Balaji

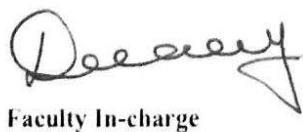
Year/Sem: IV yr

Date: 22.11.22

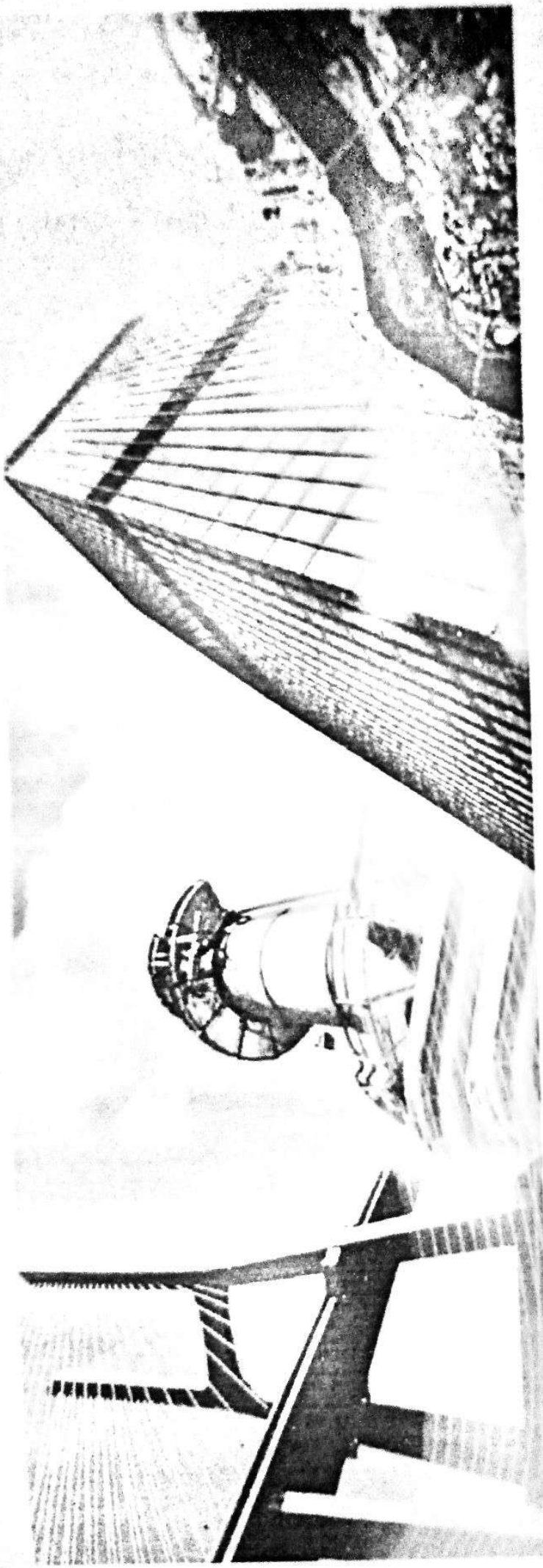
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7	Individual attention		✓			
8	Outcome		✓			


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KISHOR R
Name

STAAD PRO
Course Title

40 Hours
Course Duration

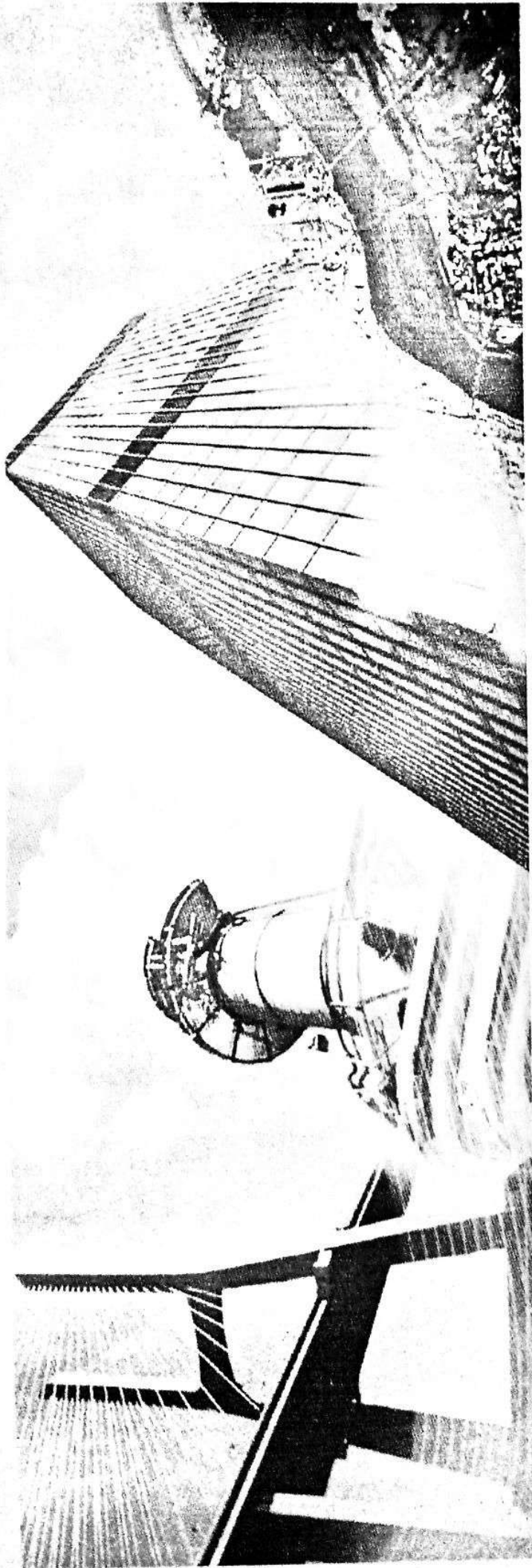
DEVENDIRAN K
Instructor

15/11/2021
Course Starting Date

22/11/2021
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MOHAMED RAFIQ J
Name

STAAD PRO
Course Title

40 Hours
Course Duration

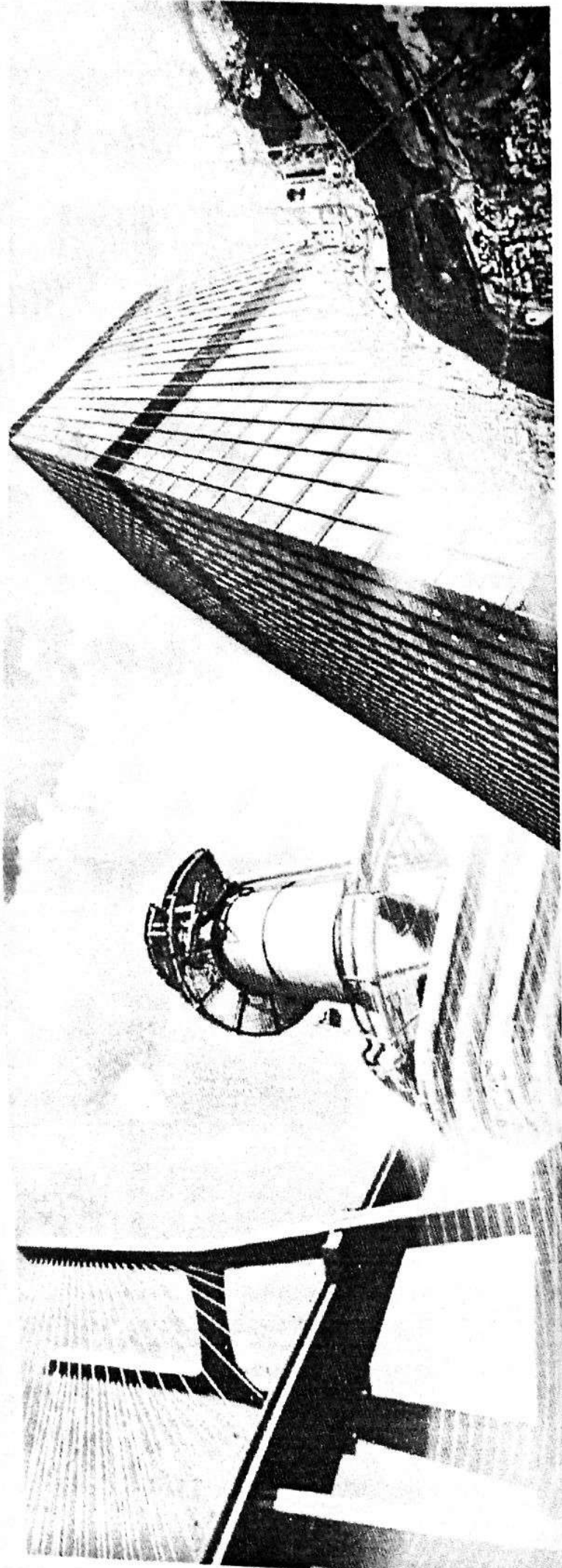
DEVENDIRAN K
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TAMIL SELVAN S
Name

STAAD PRO
Course Title

40 Hours
Course Duration

DEVENDIRAN K
Instructor

15/11/2021
Course Starting Date

22/11/2021
Course Ending Date

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