

SYLLABUS/
CURRICULUM



PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE

(Approved by AICTE & Affiliated to Anna University, Chennai)

Madurai - Sivagangal Highway, Arasanoor, Thirumansolai Post, Sivagangal Dt. - 630 561, Tamilnadu
Mobile : 9842102628, 7373002628 Email: info@psyec.edu.in Website : www.psyec.edu.in

City Office : 10, Pandian Saraswathi St, Sivagami Nagar, Narayanapuram, Madurai - 625 014. Telefax- 0452 2682338, Mobile : 98423-02628

DEPARTMENT OF CIVIL ENGINEERING

Academic Year 2018-2019

VACCE1819SP - STAAD PRO (STRUCTURAL INTEGRITY ENGINEERING)

OBJECTIVE OF THE COURSE

- To design and analysis aims to provide participants with a comprehensive understanding of structural engineering principles and the practical skills required to design and analyse structures using the STAAD Pro software.
- To familiarizing participants with the fundamentals of structural analysis, including concepts of statics, mechanics of materials, and structural behaviour under various loading conditions.

Chapter 1	5
STAAD Pro, Design concept, understanding of structural analysis and design using STAAD Pro software.	
Chapter 2	6
Types of modelling techniques, 3D models of structures, structures elements, and material properties. Types of loading and boundary conditions, application of various loads and the modelling of support conditions.	
Chapter 3	6
Static analysis and design form the structures elements, types of internal forces, reactions, and displacements, code-based design criteria. advanced analysis techniques.	
Chapter 4	6
Structural design and optimization, design concrete and steel members according to code provisions and optimize designs for efficiency and economy	
Chapter 5	6
The fundamental principles of structural analysis and introducing them to the STAAD Pro software interface.	
Chapter 6	6
The STAAD Pro software structural analysis fundamentals, including static and dynamic analysis techniques, load modelling, and boundary conditions. various analysis methods to evaluate structural performance under different loading scenarios.	

D. Theeravathi
Course-Coordinator

D. Theeravathi
HOD

TOTAL HOURS:35

[Signature]
PRINCIPAL



PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE

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DEPARTMENT OF CIVIL ENGINEERING

Academic Year 2018-2019

VACCE1819SP - STADD PRO (STRUCTURAL INTEGRITY ENGINEERING)

Course Schedule

Date	Time	TOPICS
18/02/2019	9.00 am to 12.15 pm	STAAD Pro, Design concept, understanding of structural analysis and design using STAAD Pro software.
	1.00 pm to 4.15 pm	
19/02/2019	9.00 am to 12.15 pm	Types of modelling techniques, 3D models of structures, structures elements, and material properties. Types of loading and boundary conditions, application of various loads and the modelling of support conditions.
	1.00 pm to 4.15 pm	
20/02/2019	9.00 am to 12.15 pm	Static analysis and design form the structures elements, types of internal forces, reactions, and displacements, code-based design criteria. advanced analysis techniques.
	1.00 pm to 4.15 pm	
21/02/2019	9.00 am to 12.15 pm	Structural design and optimization, design concrete and steel members according to code provisions and optimize designs for efficiency and economy
	1.00 pm to 4.15 pm	
22/02/2019	9.00 am to 12.15 pm	The fundamental principles of structural analysis and introducing them to the STAAD Pro software interface.
	1.00 pm to 4.15 pm	
23/02/2019	9.00 am to 12.15 pm	The STAAD Pro software structural analysis fundamentals, including static and dynamic analysis techniques, load modelling, and boundary conditions. various analysis methods to evaluate structural performance under different loading scenarios.
	1.00 pm to 4.15 pm	

Tea Break : FN- 11:00 am to 11:15am & AN-03:00 pm to 03:15 pm

Lunch : 12:15 pm to 01:00pm

Total Hours :35

D. Thirumathi
Course-Coordinator

D. Dilesh
HOD

[Signature]
PRINCIPAL



PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE

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DEPARTMENT OF CIVIL ENGINEERING

Academic Year 2018-2019

VACCE1819SP - STADD PRO (STRUCTURAL INTEGRITY ENGINEERING)

One-page Report

Name of the course : STADD PRO (STRUCTURAL INTEGRITY ENGINEERING)

Development Course Code : VACCE1819SP

Course Coordinator : Mrs.D.THENMOZHI AP/Civil

Date/Duration : 18.02.2019 to 23.02.2019— 35 hours

I here affirm that the Third-year students of strength 68 have been taught the value-added course title “STADD PRO (STRUCTURAL INTEGRITY ENGINEERING)” as per the syllabus and completed within the stipulated time duration.

I confirm that the value-added course titled “STADD PRO (STRUCTURAL INTEGRITY ENGINEERING)” has been conducted in the beginning of the semester and course delivery along with the attendance of the students was recorded.

I confirmed that all the students were actively participated in the course and the eligible students were certified for the course.

D. Thenmozhi
Course-Coordinator

D. Thenmozhi
HOD

H. S. S.
PRINCIPAL

ASSESSMENT PROCEDURE

PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE,

ARASANOOR -630561

DEPARTMENT OF CIVIL ENGINEERING

Academic Year 2018-2019

VACCE1819SP - STADD PRO (STRUCTURAL INTEGRITY ENGINEERING)

Assessment Questions with Answer

1. What is STAAD Pro primarily used for?

- A) Graphic design
- B) Structural analysis and design**
- C) Web development
- D) Database management

2. Which of the following types of structures can be modelled in STAAD Pro?

- A) Bridges
- B) Buildings
- C) Towers
- D) All of the above**

3. What is the purpose of finite element analysis (FEA) in STAAD Pro?

- A) To create 2D drawings
- B) To analyse the structural behaviour under different loads**
- C) To manage project timelines
- D) To calculate material costs

4. Which command in STAAD Pro is used to define material properties?

- A) Define Material**
- B) Property Assignment
- C) Material Specification
- D) Assign Properties

5. What does the 'Perform Analysis' command do in STAAD Pro?

- A) It saves the project
- B) It runs the structural analysis based on defined loads and conditions**
- C) It generates 3D renderings
- D) It prints the project report

6. Which load type is NOT typically considered in STAAD Pro analysis?

- A) Dead Load
- B) Live Load
- C) Electric Load**
- D) Wind Load

7. What is the purpose of using load combinations in STAAD Pro?
- A) To increase the software speed
 - B) To evaluate the structure under various loading scenarios**
 - C) To simplify the modelling process
 - D) To reduce the number of elements in the model
8. Which feature in STAAD Pro helps in visualizing the deformed shape of the structure?
- A) Load Definition
 - B) Geometry Layout
 - C) Post Processing**
 - D) Material Properties
9. In STAAD Pro, what does the term 'support condition' refer to?
- A) The type of materials used
 - B) The boundary conditions applied to the structure**
 - C) The environmental factors affecting the structure
 - D) The cost of construction
10. Which of the following is a dynamic analysis option available in STAAD Pro?
- A) Earthquake analysis**
 - B) Static load analysis
 - C) Thermal load analysis
 - D) Material cost analysis

D. Theeravathi
Course Coordinator

Dr. Aksh
HOD

[Signature]
Principal

PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE,

ARASANOOR -630561

DEPARTMENT OF CIVIL ENGINEERING

Academic Year 2018-2019

VACCE1819SP - STADD PRO (STRUCTURAL INTEGRITY ENGINEERING)

Assessment Test Paper

REGISTER NUMBER: 912016108043

NAME OF THE STUDENT: R. RANJITH

8
10

1. What is STAAD Pro primarily used for?

- A) Graphic design
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- C) Web development
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- B) The boundary conditions applied to the structure
- C) The environmental factors affecting the structure
- D) The cost of construction

10. Which of the following is a dynamic analysis option available in STAAD Pro?

- A) Earthquake analysis
- B) Static load analysis
- C) Thermal load analysis
- D) Material cost analysis

D. Thenmashi
Course Coordinator

D. Thenmashi
HOD

[Signature]
Principal

PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE, ARASANOOR 630561
DEPARTMENT OF CIVIL ENGINEERING

Academic Year 2018-2019

Student Performance Sheet

Period of course: 18.02.2019 to 23.02.2019

Duration of Course: 35 hours

VACCE1819SP - STADD PRO (STRUCTURAL INTEGRITY ENGINEERING)

Sl. No	Register Number	Student Name	Assessment marks
1	912016103001	AJITH M	84
2	912016103005	ANNAMUTHU S	86
3	912016103006	ARAVINTHAN M	91
4	912016103007	ARUMUGAM P	95
5	912016103008	ARUNKUMAR R	92
6	912016103009	ASHOK A	89
7	912016103010	BALAKRISHNAN S	94
8	912016103012	DHANALAKSHMI M	96
9	912016103013	DHARUN A	89
10	912016103014	ELANKALAIVANAN M	81
11	912016103015	GOKULSANTH K	86
12	912016103017	HARIHARAN S	90
13	912016103018	HARIPRASATH G	92
14	912016103019	JAYA SURIYA L	93
15	912016103020	KARNAN S	95
16	912016103021	KARTHICK IYYAPPAN M	94
17	912016103023	KARTHIKEYAN D	95
18	912016103024	KATHIRAVAN K	86
19	912016103025	KAVIYARASAN A	89
20	912016103026	KOKILA M	88
21	912016103027	KOWSALYA R	91
22	912016103028	KRISHNAN A	95
23	912016103029	MAHABHARATHI V	94
24	912016103030	MAHENDRAN M	96
25	912016103031	MANIMARAN R	98
26	912016103032	MEENAKSHI B	91
27	912016103034	MUTHURAJA S	98
28	912016103035	NAGARAJAN K	96

29	912016103036	NANDHINI R	91
30	912016103037	NAVEEN KUMAR G	95
31	912016103038	PAL PANDI R	96
32	912016103039	PRASANTH R	81
33	912016103040	PRIYANKA G	82
34	912016103041	RAJESH KANNAN N	80
35	912016103042	RAM KUMAR B	89
36	912016103043	RANJITH R	81
37	912016103044	RANJITH KUMAR R	90
38	912016103045	RAYAR VINCENT A	95
39	912016103046	SANJANA SUMAN	96
40	912016103047	SANJAY K	95
41	912016103048	SANTHIYA R	98
42	912016103049	SARATH P	91
43	912016103050	SARATH KUMAR B	90
44	912016103051	SARATH KUMAR R	96
45	912016103052	SATHISH PANDIAN S	97
46	912016103053	SATHISKUMAR N	98
47	912016103055	SIVAPERUMAL S	99
48	912016103056	SIYAM SUNDAR C	91
49	912016103057	SURENDRA PRASATH D	90
50	912016103058	SURYA KUMAR M	90
51	912016103059	TAMILSELVAN M	95
52	912016103060	VAIRAMANI T	94
53	912016103061	VENKATESWARAN M	96
54	912016103062	VETRISSELVAM M	98
55	912016103063	VIGNESH P	97
56	912016103064	VIGNESH KARTHICK L	94
57	912016103065	VIJAYABHARATHI S	96
58	912016103066	VIJAYA KUMAR S	98
59	912016103067	VINOTH M	92
60	912016103068	YASIR J	95
61	912016103069	YOGESH SHANKAR S	90
62	912016103301	KARNAN C	91
63	912016103302	MAHARAJA R	95

64	912016103303	SASIKALADEVI K	80
65	912016103305	SUTHARSAN T	82
66	912016103701	ARUNKUMAR R	80
67	912016103703	MUTHUKUMAR P	81
68	912016103704	THAMARAI SELVAN M	89

D. Thenmozhi
Course Coordinator

D. S. S. S.
HOD

[Signature]
Principal

Enrollment
Student Name
List

PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE, ARASANOOR 630561
DEPARTMENT OF CIVIL ENGINEERING

Academic Year 2018-2019

Student Registration Sheet

Period of course: 18.12.2019 to 23.12.2019

Duration of Course: 35 hours

VACCE1819SP - STADD PRO (STRUCTURAL INTEGRITY ENGINEERING)

Sl. No	Register Number	Student Name	Signature of the Student
1	912016103001	AJITH M	AJITH M
2	912016103005	ANNAMUTHU S	ANNAMUTHU
3	912016103006	ARAVINTHAN M	Aravintan ..
4	912016103007	ARUMUGAM P	Arumugam
5	912016103008	ARUNKUMAR R	ARUNKUMAR R
6	912016103009	ASHOK A	Ashok
7	912016103010	BALAKRISHNAN S	Balakrishnan
8	912016103012	DHANALAKSHMI M	Dhanalakshmi
9	912016103013	DHARUN A	Dharun
10	912016103014	ELANKALAIVANAN M	ELANKALAIVANAN M
11	912016103015	GOKULSANTH K	Gokulsath
12	912016103017	HARIHARAN S	Hariharaan
13	912016103018	HARIPRASATH G	Hari prasath
14	912016103019	JAYA SURIYA L	Jaya suriya.
15	912016103020	KARNAN S	KARNAN.S
16	912016103021	KARTHICK IYYAPPAN M	Karthick
17	912016103023	KARTHIKEYAN D	Karthikeyan
18	912016103024	KATHIRAVAN K	Kathiravan
19	912016103025	KAVIYARASAN A	Jesse.
20	912016103026	KOKILA M	KOKILA M
21	912016103027	KOWSALYA R	Kowsalya
22	912016103028	KRISHNAN A	Krishna
23	912016103029	MAHABHARATHI V	Bharath
24	912016103030	MAHENDRAN M	Mahendran
25	912016103031	MANIMARAN R	MANIMARAN R

26	912016103032	MEENAKSHI B	meenakshi
27	912016103034	MUTHURAJA S	S. Muthu
28	912016103035	NAGARAJAN K	Nagan
29	912016103036	NANDHINI R	Nandhini
30	912016103037	NAVEEN KUMAR G	NAVEEN KUMAR G
31	912016103038	PAL PANDI R	PALPANI
32	912016103039	PRASANTH R	Prasanth
33	912016103040	PRIYANKA G	G. Priyanka
34	912016103041	RAJESH KANNAN N	Rajeshkannan
35	912016103042	RAM KUMAR B	RAM KUMAR B
36	912016103043	RANJITH R	ranjith
37	912016103044	RANJITH KUMAR R	Ranjith
38	912016103045	RAYAR VINCENT A	A. Rayar
39	912016103046	SANJANA SUMAN	Sanjana
40	912016103047	SANJAY K	SANJAY K
41	912016103048	SANTHIYA R	Santhiya
42	912016103049	SARATH P	SARATHIYA
43	912016103050	SARATH KUMAR B	Sarath . B
44	912016103051	SARATH KUMAR R	Sarath .
45	912016103052	SATHISH PANDIAN S	BATHISH PANDIAN S
46	912016103053	SATHISKUMAR N	Sathish
47	912016103055	SIVAPERUMAL S	SIVAPERUMAL
48	912016103056	SIYAM SUNDAR C	Siyam
49	912016103057	SURENDRA PRASATH D	Prasath . D
50	912016103058	SURYA KUMAR M	SURYA KUMAR M
51	912016103059	TAMILSELVAN M	Tamil
52	912016103060	VAIRAMANI T	Vairamani
53	912016103061	VENKATESWARAN M	Vendath
54	912016103062	VETRISELVAM M	Vetrish
55	912016103063	VIGNESH P	VIGNESH P
56	912016103064	VIGNESH KARTHICK L	Karthick . L.
57	912016103065	VIJAYABHARATHI S	Vijayabharathi .
58	912016103066	VIJAYA KUMAR S	Vijaya
59	912016103067	VINOTH M	M. Vinoth

60	912016103068	YASIR J	YASIR J
61	912016103069	YOGESH SHANKAR S	Yogesh
62	912016103301	KARNAN C	KARNAN
63	912016103302	MAHARAJA R	Maharaja R
64	912016103303	SASIKALADEVI K	Sasikala
65	912016103305	SUTHARSAN T	SUTHARSAN T
66	912016103701	ARUNKUMAR R	R. Arun.k
67	912016103703	MUTHUKUMAR P	Muthukumar
68	912016103704	THAMARAI SELVAN M	Thamarai Selvan

D. Tharmashi
Course Coordinator

D. D. D. D.
HOD

[Signature]
Principal

STUDENTS ATTENDANCE

PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE, ARASANOOR 630561
DEPARTMENT OF CIVIL ENGINEERING

Academic Year 2018-2019

Student attendance Sheet

Period of course: 18.02.2019 to 23.02.2019

Duration of Course: 35 hours

VACCE1819SP - STADD PRO (STRUCTURAL INTEGRITY ENGINEERING)

Attendance Sheet			Day 1	Day 2	Day 3	Day 4	Day 5	Day 6
Sl. No	Register Number	Student Name	09.00 am - 04.15 pm	09.00 am - 04.15 pm	09.00 am - 04.15 pm	09.00 am - 04.15 pm	09.00 am - 04.15 pm	09.00 am - 04.15 pm
1	912016103001	AJITH M	Ajith	Ajith	Ajith	Ajith	Ajith	Ajith
2	912016103005	ANNAMUTHU S	Ann	Ann	Ann	Ann	Ann	Ann
3	912016103006	ARAVINTHAN M	Arav	Arav	Arav	Arav	Arav	Arav
4	912016103007	ARUMUGAM P	Arum	Arum	Arum	Arum	Arum	Arum
5	912016103008	ARUNKUMAR R	Arun	Arun	Arun	Arun	Arun	Arun
6	912016103009	ASHOK A	Ash	Ash	Ash	Ash	Ash	Ash
7	912016103010	BALAKRISHNAN S	Bala	Bala	Bala	Bala	Bala	Bala
8	912016103012	DHANALAKSHMI M	Dhan	Dhan	Dhan	Dhan	Dhan	Dhan
9	912016103013	DHARUN A	Dhar	Dhar	Dhar	Dhar	Dhar	Dhar
10	912016103014	ELANKALAIVANAN M	Elan	Elan	Elan	Elan	Elan	Elan
11	912016103015	GOKULSANTH K	Goku	Goku	Goku	Goku	Goku	Goku
12	912016103017	HARIHARAN S	Hari	Hari	Hari	Hari	Hari	Hari
13	912016103018	HARIPRASATH G	Hari	Hari	Hari	Hari	Hari	Hari
14	912016103019	JAYA SURIYA L	Jaya	Jaya	Jaya	Jaya	Jaya	Jaya
15	912016103020	KARNAN S	Karn	Karn	Karn	Karn	Karn	Karn
16	912016103021	KARTHICK IYYAPPAN M	M-K	M-K	M-K	M-K	M-K	M-K
17	912016103023	KARTHIKEYAN D	Karth	Karth	Karth	Karth	Karth	Karth
18	912016103024	KATHIRAVAN K	Kath	Kath	Kath	Kath	Kath	Kath
19	912016103025	KAVIYARASAN A	Kavi	Kavi	Kavi	Kavi	Kavi	Kavi
20	912016103026	KOKILA M	Ko	Ko	Ko	Ko	Ko	Ko
21	912016103027	KOWSALYA R	Ko	Ko	Ko	Ko	Ko	Ko
22	912016103028	KRISHNAN A	Kris	Kris	Kris	Kris	Kris	Kris
23	912016103029	MAHABHARATHI V	Maha	Maha	Maha	Maha	Maha	Maha
24	912016103030	MAHENDRAN M	Man	Man	Man	Man	Man	Man

58	912016103066	VIJAYA KUMAR S	Vijaya	Vijaya	Vijaya	Vijaya	Vijaya	Vijaya
59	912016103067	VINOTH M	Vinoth	Vinoth	Vinoth	Vinoth	Vinoth	Vinoth
60	912016103068	YASIR J	Yasir	Yasir	Yasir	Yasir	Yasir	Yasir
61	912016103069	YOGESH SHANKAR S	Yogesh	Yogesh	Yogesh	Yogesh	Yogesh	Yogesh
62	912016103301	KARNAN C	Karnan	Karnan	Karnan	Karnan	Karnan	Karnan
63	912016103302	MAHARAJA R	Maraja	Maraja	Maraja	Maraja	Maraja	Maraja
64	912016103303	SASIKALADEVI K	Sasika	Sasika	Sasika	Sasika	Sasika	Sasika
65	912016103305	SUTHARSAN T	Suthar	Suthar	Suthar	Suthar	Suthar	Suthar
66	912016103701	ARUNKUMAR R	Arun	Arun	Arun	Arun	Arun	Arun
67	912016103703	MUTHUKUMAR P	Muthu	Muthu	Muthu	Muthu	Muthu	Muthu
68	912016103704	THAMARAI SELVAN M	Thamara	Thamara	Thamara	Thamara	Thamara	Thamara

Tea Break : FN- 11:00 am to 11:15am & AN-03:00 pm to 03:15 pm

Lunch : 12:15 pm to 01:00pm

D. Tharmozhi
Course Coordinator

D. Akash
HOD

[Signature]
Principal

MODEL
CERTIFICATES

PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE

Approved by AICTE & Affiliated to Anna University, Chennai.
Arasanoor, Thirumansolai Post, Sivagangai – Madurai Highway, Tamilnadu - 630 561

Value added course on

STADD PRO (STRUCTURAL INTEGRITY ENGINEERING)

Organized by

DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

This is to Certify that *AJITH M.* from Third year students has participated in the value-added course on **STADD PRO (STRUCTURAL INTEGRITY ENGINEERING)** by the Department of Civil Engineering from 18.02.2019 to 23.02.2019 (35 Hours) at Pandian Saraswathi Yadav Engineering College, Sivagangai.

Dr. Meenakshi Sudarvizhi
Dr. MEENAKSHI SUDARVIZHI
HOD

Dr. R. Raja
Dr. R. RAJA
PRINICIPAL

PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE

Approved by AICTE & Affiliated to Anna University, Chennai.
Arasanoor, Thirumansolai Post, Sivagangai – Madurai Highway, Tamilnadu – 630 561

Value added course on

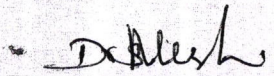
STADD PRO (STRUCTURAL INTEGRITY ENGINEERING)


Organized by

DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

This is to Certify that KARMAN. S from Third year students has participated in the value-added course on **STADD PRO (STRUCTURAL INTEGRITY ENGINEERING)** by the Department of Civil Engineering from 18.02.2019 to 23.02.2019 (35 Hours) at Pandian Saraswathi Yadav Engineering College, Sivagangai.


Dr. MEENAKSHI SUDARVIZHI
HOD


Dr. R. RAJA
PRINICIPAL

PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE

Approved by AICTE & Affiliated to Anna University, Chennai.
Arasanoor, Thirumansolai Post, Sivagangai – Madurai Highway, Tamilnadu - 630 561

Value added course on

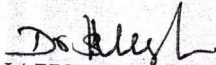
STADD PRO (STRUCTURAL INTEGRITY ENGINEERING)

Organized by


DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

This is to Certify that KOKILA.M from Third year students has participated in the value-added course on STADD PRO (STRUCTURAL INTEGRITY ENGINEERING) by the Department of Civil Engineering from 18.02.2019 to 23.02.2019 (35 Hours) at Pandian Saraswathi Yadav Engineering College, Sivagangai.


Dr. MEENAKSHI SUDARVIZHI

HOD


Dr. R. RAJA
PRINCIPAL