



Indra Ganesan

COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
Accredited by NAAC with 'B+' Grade, 2(f) & 12B Status Institution by UGC

IG Valley, Madurai Main Road, Manikandam, Tiruchirappalli - 620012

NAAC DOCUMENTS

QUALITY INDICATOR FRAME WORK

CRITERION – 1

CURRICULAR ASPECTS

SUBMITTED BY

IQAC

INTERNAL QUALITY ASSURANCE CELL

INDRA GANESAN COLLEGE OF ENGINEERING





DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2021-2022 / EVEN SEMESTER

1.2 Academic Flexibility (30)

1.2.1 Number of Certificate/Value added courses offered and online courses of MOOCs, SWAYAM, NPTEL etc. (where the students of the institution have enrolled and successfully completed during the last five years)

AND

1.2.2 Percentage of students enrolled in Certificate/ Value added courses and also completed online courses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the last five years

| | | | | | |
|------------------------------|---|------------------|------------|------------------------------------|----------|
| VAC Title: | STADD Pro | | | | |
| Resource Person: | Ms.R.Sheela, Ms.Swetha Trainer, 5D Architects & Constructions Trichy | | | | |
| Date of conduct from: | 07.03.2021 | To: | 11.03.2021 | Duration: | 30 Hours |
| Organized Department: | DEPARTMENT OF CIVIL ENGINEERING | | | | |
| Participant Year: | CIVIL II ,III, IV | Semester: | Even | No. of Students Registered: | 17 |
| Venue: | Civil Seminar Hall | | | | |

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Ref: IGCE/CIVIL/2021-22 VAC/01

03.03.2021

Department Of Civil Engineering

Academic Year 2021-2022 Even Semester

DEPARTMENT CIRCULAR

Department of Civil Engineering and IQAC of IGCE in association with **5D Architects & Constructions**. Is going to organize Value Added Course for all second, third and final year students on "STAAD.Pro" from 07.03.2021 to 11.03.2021. Certificates will be issued to the eligible Participants at the end of the course. This training is to be provided in our campus.

| | |
|---------------------------------|---|
| Resource Person Details: | Ms.R.Sheela, Ms.Swetha Trainers 5D Architects & Constructions Trichy |
| Session Taken from: | Civil Seminar Hall |

Sivasamy
HoD/CIVIL

[Signature]
Principal

Cc:

- PRINCIPAL OFFICE
- HOD/CIVIL & Faculty Members
- All II,III and IV Year B.E CIVIL Classes
- IQAC Coordinator
- Notice Board
- Office File

[Signature]
Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



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Value Added Course on "STAAD.PRO"

SYLLABUS

| S.NO | TOPIC COVERED | DURATI ON (in hours) | DATE |
|------|---|----------------------------------|------------|
| 1 | Introduction to staad pro modeling of 2d rc frames, | 3 | 07.03.2021 |
| 2 | Node creation adding beams, member property and loading analysis & view results | 3 | 07.03.2021 |
| 3 | Introduction to 3d structures, node creation(theory & practical) types of loading, load cases for rc building | 3 | 08.03.2021 |
| 4 | types of loading, load cases for rc building | 3 | 08.03.2021 |
| 5 | Calculation for wind and seismic analysis and view output files. | 3 | 09.03.2021 |
| 6 | results normal design for rc building interactive design RC | 3 | 09.03.2021 |
| 7 | Modeling of 2d steel structures analysis | 3 | 10.03.2021 |
| 8 | view results introduction to structure wizard model type steel 3d | 3 | 10.03.2021 |
| 9 | Normal design for steel structures interactive design | 3 | 11.03.2021 |
| 10 | steel modeling of plates load cases for plates water tank design, analysis and view output files results | 3 | 11.03.2021 |
| 11 | Exam | 1 | 11.03.2021 |
| | Total Hours | 30 (Excluding Test) | - |


VAC Coordinator


Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.


HoD/CIVIL



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STUDENTS PARTICIPATION LIST

VAC PROGRAM-STAAD.PRO

| S.No. | Reg.No | Student's Name | Year/ Branch |
|-------|--------------|-----------------------|--------------|
| 1. | 811218103001 | Akash J | IV/CIVIL |
| 2. | 811218103002 | Mahendran M | IV/CIVIL |
| 3. | 811218103003 | Musarf Ali S | IV/CIVIL |
| 4. | 811218103004 | Prabu JJ | IV/CIVIL |
| 5. | 811219103002 | Vignesh R | III/CIVIL |
| 6. | 811220103011 | Dharun Kumar R | II/CIVIL |
| 7. | 811220103020 | Gunaseelan G | II/CIVIL |
| 8. | 811220103024 | Iyyapan Mani A | II/CIVIL |
| 9. | 811220103025 | KalanchiyaMuniyaraj B | II/CIVIL |
| 10. | 811220103029 | ManiKandan M | II/CIVIL |
| 11. | 811220103030 | Mohanapriya S | II/CIVIL |
| 12. | 811220103032 | MuthuSelvam A | II/CIVIL |
| 13. | 811220103041 | Sudhakar R | II/CIVIL |
| 14. | 811220103046 | Vishwa S | II/CIVIL |
| 15. | 811220103303 | EvanjalineJoycy S | II/CIVIL |
| 16. | 811220103306 | Vishva P | II/CIVIL |
| 17. | 811220103307 | Thulasimani S | II/CIVIL |


VAC Coordinator


HoD/CIVIL


Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



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Name of the Student :


Year/Sem:

AU Register Number:

Value Added Course on "STAAD.PRO"

MULTIPLE CHOICE QUESTIONS (25X1=25 MARKS)

1. Which of the following structural loads are not applied commonly to a building?
 - a) Environmental load
 - b) Live load
 - c) Dead load
 - d) Rain load
2. Which of the following is statically determinate structure?
 - a) Two hinged arch
 - b) Fixed beam
 - c) Double overhanging
 - d) Continuous beam
3. Which of the following material is not used in making trusses?
 - a) Metal bars
 - b) Concrete
 - c) Wooden struts
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4. Why base plate is provided in short roof trusses?
 - a) For rigidity
 - b) As provision for temperature related expansion/contraction
 - c) To transmit load effectively
 - d) For stability
5. Which of the following is false for deflection of a point nearby a fixed support?
 - a) Displacement and slope is zero
 - b) Displacement as well as slope is non-zero
 - c) Displacement is zero
 - d) Slope is zero
6. Which structure will perform better during earthquake?
 - a) Statically determinate and indeterminate
 - b) Depends upon magnitude of earthquake
 - c) Statically indeterminate
 - d) Statically determinate


Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
G. Valley, Madurai Main Road
Manikandam, Trichy-620 012.



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7. Which type of structure would cost less in terms of materials?
a) Statically indeterminate
b) Both will cost equally
c) Depends upon loading
d) Statically determinate
8. Which of the following is carried by truss members?
a) flexural load
b) bending load
c) axial load
d) shear load
9. When a structural member of the uniform section is subjected to a moment at one end only, then the moment required so as to rotate that end to produce a unit slope, is called ____
a) Stiffness of member
b) Capacity of member
c) Potential of member
d) Resistance of member
10. If in an interior beam, adjacent structures are exactly similar then the tributary area is:-
a) Obtuse triangle
b) Right angled triangle
c) Acute triangle
d) Trapezium
11. Which of the following methods for solving indeterminate structures are easiest for computational purposes?
a) Displacement method
b) Method of consistent deformation
c) Moment area method
d) Force method
12. Which of the following methods of structural analysis is a force method?
a) three moment equation
b) slope deflection method
c) column analogy method
d) moment distribution method
13. Force-displacement requirement of statically indeterminate structures depend upon which factor?
a) supports
b) material's response
c) position of load applied
d) magnitude of load applied

Dr. G. Balakrishnan, M.E., Ph.D.,
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14. To draw qualitative ILD of indeterminate structure, which of the following concept is used.
- MullersBreslou's Principle
 - Kani's Method
 - Unit Load Method
 - Castigilano's First energy theorem
15. Which of the following material will have the highest value of response modification factor?
- Structural steel frames
 - Reinforced concrete shear walls
 - Wood
 - Reinforced concrete frames with flexible joints
16. Live loads, with time can vary in:-
- Magnitude
 - Position
 - Neither position nor magnitude
 - Position as well as magnitude
17. Most of the loads applied to a building are environmental load. State whether this statement is true or false.
- True
 - False
18. Building codes require the partition load to be considered even without partition if live load is less than
- 60 psf
 - 70 psf
 - 80 psf
 - 90 psf
19. In the method used to establish the magnitude of live load, what is the reference time period?
- 30 years
 - 35 years
 - 50 years
 - 60 years
20. Impact load results from which type of effects of loads applied?
- Static
 - Dynamic
 - Static and dynamic
 - Neither static nor dynamic


Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
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Manikandam, Trichy-620 012.



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21. How an increase in the pitch of the roof does affects the amount of load that can be placed on it?
- It increases
 - It decreases
 - Remains constant
 - Depends upon case
22. Which type of drainage system will collect the rainwater?
- Primary
 - Secondary
 - Tertiary
 - Primary and tertiary
23. In which of the following cases is ASCE procedure not applied?
- Enclosed structure
 - Regular shape grid
 - High rise structure
 - Roof with 60 ft. height
24. For the validity of principle of superposition, materials should behave in whichmanner?
- linear-elastic
 - non-linear-elastic
 - Non-linear- inelastic
 - Linear- inelastic
25. If in a planar system, only 2 reaction forces are acting, then the system is:-
- Essentially unstable
 - Essentially stable
 - Can't say
 - None of the mentioned

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Value Added Course on "STAAD.PRO"

ANSWER KEY

| | | | | | | | | | |
|---|---|----|---|----|---|----|---|----|---|
| 1 | d | 6 | c | 11 | a | 16 | d | 21 | b |
| 2 | d | 7 | a | 12 | c | 17 | b | 22 | a |
| 3 | b | 8 | c | 13 | b | 18 | c | 23 | c |
| 4 | b | 9 | a | 14 | a | 19 | c | 24 | d |
| 5 | b | 10 | b | 15 | a | 20 | b | 25 | a |

VAC Coordinator

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Principal

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| REPORT ON VALUE ADDED COURSE | | | | | |
|---|---|------------------------------|------------|---------------|----------|
| Title: | STAAD.PRO | | | | |
| Resource Person: | Ms.R.SHEELA, Ms.SWETHA, SD ARCHITECTS & CONSTRUCTIONS,TRICHY | | | | |
| Date of conduct from : | 07.03.2021 | To: | 11.03.2021 | Duration: | 30 Hours |
| Organized Department : | Civil Engineering | | | | |
| Participant Year: | 2, 3, 4 | No. of Students Registered : | 17 | | |
| Venue: | Online Google meet | | | | |
| Outcome of Value Added Course (VAC): At the end of the Course, Students can able to | | | | | |
| <ul style="list-style-type: none">• Know real-world importance of software in Civil Engineering• Know how to perform in civil software in industries.• Study about Staad pro of civil engineering software's.• Students are expected to learn and practice the skills they will need in the workplace.• Develop a foundational understanding of civil software's. | | | | | |
| Assessment Process | | | | | |
| <ul style="list-style-type: none">• Students, who are securing more than 70% on total score and secured more than 75% in attendance is eligible to receive the certificate for the VAC course conducted• Total Score = (0.5 * Attendance in VAC out of 100 percentage + 0.5 * Test mark in VAC out of 100 marks) | | | | | |
| VAC Coordinator | | HoD/CIVIL | | PRINCIPAL | |

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REPORT ON VALUE ADDED COURSE

PHOTO OF THE SESSION:



Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

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VAC Coordinator

HoD/CIVIL

PRINCIPAL



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Academic Year 2021 -2022 EVEN Semester

STUDENTS PARTICIPATION LIST

MARK SHEET VALUE ADDED COURSE PROGRAM - STAAD.PRO

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

| S.No. | Reg.No | Student's Name | Year/ Branch | Attendance Details | | VAC-MCQ TEST | | OVERALL MARK(100) (50% of A + 50% of B) |
|-------|--------------|-----------------------|-----------------|-------------------------------|--------------------------------|-----------------------------|-------------------------|--|
| | | | | No. of Session Attended | Attendance Mark(100) (A) | No of Correct Answers | MCQ Mark(100) (B) | |
| 1. | 811218103001 | Akash J | IV/CIVIL | 27 | 90 | 18 | 72 | 81 |
| 2. | 811218103002 | Mahendran M | IV/CIVIL | 30 | 100 | 20 | 80 | 90 |
| 3. | 811218103003 | Musarf Ali S | IV/CIVIL | 30 | 100 | 18 | 72 | 86 |
| 4. | 811218103004 | Prabu JJ | IV/CIVIL | 30 | 100 | 20 | 80 | 90 |
| 5. | 811219103002 | Vignesh R | III/CIVIL | 27 | 90 | 18 | 72 | 81 |
| 6. | 811220103011 | Dharun Kumar R | II/CIVIL | 30 | 100 | 17 | 68 | 84 |
| 7. | 811220103020 | Gunaseelan G | II/CIVIL | 30 | 100 | 18 | 72 | 86 |
| 8. | 811220103024 | Iyyapan Mani A | II/CIVIL | 27 | 90 | 18 | 72 | 81 |
| 9. | 811220103025 | KalanchiyaMuniyaraj B | II/CIVIL | 27 | 90 | 18 | 72 | 81 |
| 10. | 811220103029 | ManiKandan M | II/CIVIL | 30 | 100 | 20 | 80 | 90 |



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Academic Year 2021 –2022 EVEN Semester

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MARK SHEET VALUE ADDED COURSE PROGRAM – STAAD.PRO

| | | | | | | | | |
|-----|--------------|--------------------|----------|----|-----|----|----|----|
| 11. | 811220103030 | Mohanapriya S | II/CIVIL | 30 | 100 | 17 | 68 | 84 |
| 12. | 811220103032 | MuthuSelvam A | II/CIVIL | 30 | 100 | 18 | 72 | 86 |
| 13. | 811220103041 | Sudhakar R | II/CIVIL | 30 | 100 | 22 | 88 | 94 |
| 14. | 811220103046 | Vishwa S | II/CIVIL | 30 | 100 | 20 | 80 | 90 |
| 15. | 811220103303 | Evanjaline Joycy S | II/CIVIL | 27 | 90 | 18 | 72 | 81 |
| 16. | 811220103306 | Vishva P | II/CIVIL | 27 | 90 | 18 | 72 | 81 |
| 17. | 811220103307 | Thulasimani S | II/CIVIL | 30 | 100 | 20 | 80 | 90 |


Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IS Valley, Medurai Main Road
Manikandam, Trichy-620 012



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Department of CIVIL ENGINEERING

Academic Year 2021-2022 EVEN Semester

STUDENTS PARTICIPATION LIST

VAC PROGRAM-STAAD.PRO

| S.No. | Reg.No | Student's Name | Year/ Branch | DATE: 07.03.21 | | DATE: 08.03.21 | | DATE: 09.03.21 | | DATE: 10.03.21 | | DATE: 11.03.21 | | NO OF SESSION & ATTEND ED | SIGNATURE OF THE STUDENT |
|-------|--------------|----------------|-----------------|----------------|----|----------------|----|----------------|----|----------------|----|----------------|----|---------------------------------------|--------------------------------|
| | | | | FN | AN | FN | AN | FN | AN | FN | AN | FN | AN | | |
| 1. | 811218103001 | Akath J | IV/CIVIL | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 9 | <i>[Signature]</i> |
| 2. | 811218103002 | Mabendran M | IV/CIVIL | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 10 | <i>[Signature]</i> |
| 3. | 811218103003 | Musarf Ali S | IV/CIVIL | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 10 | <i>[Signature]</i> |
| 4. | 811218103004 | Prabu J | IV/CIVIL | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 10 | <i>[Signature]</i> |
| 5. | 811219103002 | Vignesh R | III/CIVIL | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 9 | <i>[Signature]</i> |
| 6. | 811220103011 | Dharun Kumar R | III/CIVIL | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 10 | <i>[Signature]</i> |
| 7. | 811220103020 | Gunaseelan G | III/CIVIL | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 10 | <i>[Signature]</i> |
| 8. | 811220103024 | Iyyapan Mani A | III/CIVIL | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 9 | <i>[Signature]</i> |

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| | | | | | | | | | | | | | | | |
|-----|--------------|----------------------|----------|---|---|---|---|---|---|---|---|---|---|----|--------------------|
| 9. | 811220103025 | Kalanchiyamuniaraj B | II CIVIL | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 09 | <i>[Signature]</i> |
| 10. | 811220103029 | Manikandan M | II CIVIL | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 10 | <i>[Signature]</i> |
| 11. | 811220103030 | Mohanapriya S | II CIVIL | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 10 | <i>[Signature]</i> |
| 12. | 811220103032 | MuthuSelvam A | II CIVIL | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 10 | <i>[Signature]</i> |
| 13. | 811220103041 | Sudhakar R | II CIVIL | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 10 | <i>[Signature]</i> |
| 14. | 811220103046 | Vishwa S | II CIVIL | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 10 | <i>[Signature]</i> |
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| 16. | 811220103306 | Vishva P | II CIVIL | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 09 | <i>[Signature]</i> |
| 17. | 811220103307 | Thulasimani S | II CIVIL | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 10 | <i>[Signature]</i> |

[Signature]
IAC Coordinator

[Signature]
HOD CIVIL

[Signature]

Dr. G. Balakrishnan, M.E., Ph.D.,
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Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Tiruchy-620 012.



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Name of the Student : *Suhakar . R*

AU Register Number: *011220103041*

Year/Sem: *1st / 1st*

Value Added Course on "STAAD.PRO" ✓

MULTIPLE CHOICE QUESTIONS (25X1=25 MARKS)

- Which of the following structural loads are not applied commonly to a building?
a) Environmental load
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c) Dead load
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- Which of the following is statically determinate structure?
a) Two hinged arch
b) Fixed beam
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 c) Wooden struts
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 b) As provision for temperature related expansion/contraction
 c) To transmit load effectively
d) For stability
- Which of the following is false for deflection of a point nearby a fixed support?
a) Displacement and slope is zero
 b) Displacement as well as slope is non-zero
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- Which structure will perform better during earthquake?
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 b) Depends upon magnitude of earthquake
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d) Statically determinate

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7. Which type of structure would cost less in terms of materials?
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Principal

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Manikandam, Tiruchy-620 012.



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State whether this statement is true or false.
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Principal
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IG Valley, Medurai Main Road
Manikandam, Trichy-620 012.



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Indra Ganesan College of Engineering

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Name of the Student: Vignesh.R.

Year/Sem: III / civil

AU Register Number: 811219103002

Value Added Course on "STAAD.PRO"

MULTIPLE CHOICE QUESTIONS (25X1=25 MARKS)

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- Which of the following is false for deflection of a point nearby a fixed support?
a) Displacement and slope is zero
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- Which structure will perform better during earthquake?
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b) Depends upon magnitude of earthquake
c) Statically indeterminate
d) Statically determinate
- Which type of structure would cost less in terms of materials?
a) Statically indeterminate


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- b) Both will cost equally
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Dr. G. Balakrishnan, M.E., Ph.D.,
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Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
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Dr. G. Balakrishnan, M.E., Ph.D.,
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Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
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Name of the Student: Mahendran. M

Year/Sem: IV - LEVEL


AU Register Number: 8112181 03002

Value Added Course on "STAAD.PRO"

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Dr. G. Balakrishnan, M.E., Ph.D.
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
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Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
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Manikandam, Trichy-620 012.



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This is to certify that Mr. AKASH J of IV Year has successfully completed the Value Added Course “STAAD pro” organized by Department of CIVIL Engineering in Association with “5D Architect and Construction” from 7.03.2021 to 11.03.2021 (5 days) during the Academic year 2021-2022.


Managing Director
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Indra Ganesan College of Engineering
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Dr. G. Balakrishnan, M.E., Ph.D.,
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Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
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Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
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Dr. G. Balakrishnan, M.E., Ph.D.,
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Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
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Indra Ganesan College of Engineering
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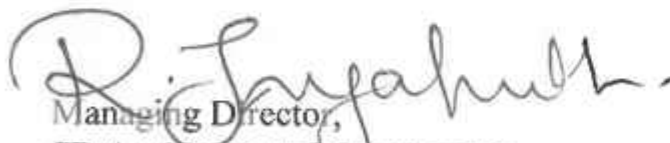


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