



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 2020-2021 / ODD 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:	ADVANCED SURVEYING				
Resource Person:	Mr.K. KINGSELY MAXWEL, Surveyor, Veeranar Construction, Puthukkottai-614601				
Date of conduct from:	08.02.2021	To:	12.02.2021	Duration:	30 Hours
Organized Department:	DEPARTMENT OF CIVIL ENGINEERING				
Participant Year:	CIVIL II ,III, IV	Semester:	ODD	No. of Students Registered:	25
Venue:	https://meet.google.com/mnd-tdmps-gbp (Google Meet)				

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Department of Civil Engineering

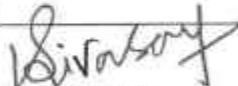
Academic Year 2020-2021 – ODD Semester

04.02.21

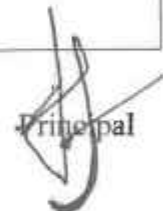
DEPARTMENT CIRCULAR

Department of Civil Engineering and IQAC of IGCE in association with **VEERANAR CONSTRUCTION** is going to organize Value Added Course for all Second, Third and Final year students on “**Advanced Surveying**” from 08.02.21 to 12.02.21, through, <https://meet.google.com/mnd-tdmps-gbp>(Google meet link). Certificates will be issued to the eligible participants at the end of the Course.

Resource Person Detail	1. Mr.K. KINGSELY MAXWEL, Surveyor, Veeranar Construction, Puthukkottai-614601
Venue	https://meet.google.com/mnd-tdmps-gbp (Google Meet)


HOD/CIVIL




Principal

Cc:

- Principal Table
- IQAC Co-Ordinator
- HoD/ Civil
- Class In charges - II, III & IV-Year
- II, III & IV-Year Civil Students
- Office File
- Notice Board

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
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Manikandam, Trichy-620 012.



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Value Added Course on "Advanced Surveying"

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Surveying and introduction in surveying	3	08.02.21
2	Plane and geodetic surveying	3	08.02.21
3	Principles of surveying	3	09.02.21
4	Advanced technology in surveying	3	09.02.21
5	Drone technology	3	10.02.21
6	Lidar technology	3	10.02.21
7	Drone to map software	3	11.02.21
8	Micro station software	3	11.02.21
9	Arc GIS software	3	12.02.21
10	GPS surveying	3	12.02.21
Total Hours		30	-


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Value Added Course- "Advanced Surveying"

STUDENTS PARTICIPATION LIST

S.No.	Reg No	Student Name	Year/ Branch
1	811217103001	AISHWARIYA.P	IV/ CIVIL
2	811217103002	AKASH.S	IV/ CIVIL
3	811217103003	AROCKIA RENALDO.J	IV/ CIVIL
4	811217103004	AVINASH KUMAR.R	IV/ CIVIL
5	811217103005	BALAJI.S	IV/ CIVIL
6	811217103006	BALASUBRAMANI.R	IV/ CIVIL
7	811217103007	DEEPAN.S.K	IV/ CIVIL
8	811217103008	GAYATHRI.LA	IV/ CIVIL
9	811217103009	KOKILA.P	IV/ CIVIL
10	811217103010	MANIKANDAN.G	IV/ CIVIL
11	811217103011	MOUNIKA.M	IV/ CIVIL
12	811217103012	NAVANEETHAN KRISHNAN.K	IV/ CIVIL
13	811217103013	PALANIYAPPAN.N	IV/ CIVIL
14	811217103014	SALEEM KHAN.S	IV/ CIVIL
15	811217103015	SATHISH KUMAR.S	IV/ CIVIL
16	811217103016	THAMARAI SELVI.K	IV/ CIVIL
17	811217103301	ARUN PRASATH.R	IV/ CIVIL
18	811217103302	JOEL FERNANDEZ.R	IV/ CIVIL
19	811217103303	SUMITHIRA.R	IV/ CIVIL

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20	811217103304	THIRUPATHI RAJA.G	IV/ CIVIL
----	--------------	-------------------	-----------

S.No.	Reg No	Name	Year/Branch
1	811218103001	AKASH J	III/ CIVIL
2	811218103002	M. MAHENDRAN	III/ CIVIL
3	811218103003	S MUSARAF ALI	III/ CIVIL
4	811218103004	PRABU J	III/ CIVIL

S.No.	Reg No	Name	Year/Branch
1	811219103002	R.Vignesh	II/CIVIL

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REPORT ON VALUE ADDED COURSE

Title:

"Safety in construction"

Resource Person:

Mr.K. KINSELY MAXWEL,
Surveyor,
Veeranar Construction,
Puthukottai

Date of conduct from:

08.02.21

To:

12.02.21

Duration:

30 Hours

Organized Department:

CIVIL ENGINEERING

Participant Year:

2, 3, 4

Semester:

ODD

No. of Students Registered:

25

Venue:

<https://meet.google.com/mnd-tpqm-gb>(Google meet link)


Outcome of Value-Added Course (VAC): At the end of the Course, Students can able to

- Impact knowledge on the usage of basic surveying instruments
- Able to use levelling instruments in surveying operation
- Able to use total station and electromagnetic distance measurement instruments
- Able to prepare planimetric maps

Assessment Process

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 = $(0.5 * \text{Attendance in VAC out of 100 percentage} + 0.5 * \text{Test mark in VAC out of 100 marks})$.


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REPORT ON VALUE ADDED COURSE (SAMPLE PHOTOS)

Title:

"Safety in construction"

Resource Person:

Mr.K. KINSELY MAXWEL,
Surveyor,
Veeranar Construction,
Puthukottai

Dr. G. Balakrishnan, M.E., Ph.D
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Date of conduct from:

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Organized Department:

CIVIL ENGINEERING

Participant Year:

2, 3, 4

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EVEN

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Kalishayn
VAC Coordinator

Sivakany
HoD/CIVIL

[Signature]
Principal



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Name of the Student:


Year/Sem:

AU Register Number:

Value Added Course on "Advanced surveying"

MCQ QUESTIONS (25X4 = 100 Marks)

- What is Surveying?**
 - Surveying is used to find the elevations of given points with respect to given or assumed datum
 - Surveying shows the relative positions of the objects on the surface of the earth
 - Surveying is to find the elevation of points having the same contour interval
 - All of the mentioned
- Which of the following is the first principle of surveying?**
 - Whole to whole
 - Part to part
 - Part to whole
 - Whole to part
- Which of the following type of surveying is used for exploring mineral wealth?**
 - Military surveying
 - Mine surveying
 - Topographic surveying
 - Engineering surveying
- In which of the following type of surveying only linear measurements are made?**
 - Dumpy level
 - Theodolite surveying
 - Chain surveying
 - Contouring
- Which of the following classification in surveying is based on the instrument used?**
 - Traverse surveying
 - Cadastral surveying
 - Topographic surveying
 - Hydrographic surveying



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6. In which of the following areas does compass surveying is not recommended?
 - a) Large areas
 - b) Undulating areas
 - c) Crowded with many details
 - d) Local attraction suspected areas

7. In which of the following cases compass surveying is recommended?
 - a) When area is small, undulating and not details are crowded
 - b) When area is large, undulating and crowded with many details
 - c) When area is small, even and crowded with many details
 - d) When area is large, even and crowded with many details

8. Which of the following is not required for chain surveying?
 - a) Dumpy level
 - b) Pegs
 - c) Arrows
 - d) 20 m chain

9. Which of the following is the last step in chain surveying?
 - a) Fixing
 - b) Reconnaissance
 - c) Running survey lines
 - d) Marking

10. Which of the following cannot be done with the help of theodolite in surveying?
 - a) Measuring horizontal distances
 - b) Prolonging survey lines
 - c) Laying off horizontal angles
 - d) Locating points on lines

11. Which of the following is an indirect method of surveying?
 - a) Countouring
 - b) Chain surveying
 - c) Tacheometry
 - d) All of the mentioned

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12. Which of the following branch of surveying is used to find the elevations of given points with respect to given or assumed datum?
- Plane table surveying
 - Traversing
 - Contouring
 - Levelling
13. Which of the following is the principles of surveying?
- Covering the entire area
 - Working from whole to part
 - Taking measurements
 - Determining the elevation differences
14. Which of the following surveying methods is meant to be having high precision?
- Terrestrial photogrammetry
 - Traverse surveying
 - Aerial photogrammetry
 - Theodolite surveying
15. Which of the following doesn't describe the use of hydrographic surveying?
- Nautical charts for navigation
 - Establishing mean sea level
 - Laying an Alignment
 - Making underground investigations
16. Which of the following type of ranging is done if both ends of surveying lines are visible?
- Indirect
 - Reciprocal
 - Unable to do
 - Direct
17. Which of the following is not a method of levelling?
- Spirit levelling
 - Traverse levelling

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- c) Barometric levelling
- d) Trigonometric levelling

18. In which of the following type of surveying in the mean surface of the earth is considered as a plane and the spheroidal shape is neglected?

- a) Plane Surveying
- b) Geodetic Surveying
- c) Hydrographic Surveying
- d) Topographic Surveying

19. Which of the following doesn't involve the method of traversing?

- a) Plane Table surveying
- b) Tacheometric surveying
- c) Chain surveying
- d) Theodolite surveying


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20. Which of the following is not a method of plane table surveying?

- a) Trisection
- b) Intersection
- c) Resection
- d) Radiation

21. While taking Observations for the height and distances, which of the following method of surveying is used?

- a) Plane surveying
- b) Geodic surveying
- c) Chain surveying
- d) Compass surveying

22. Which of the following type of surveying can be employed in a magnetic area?

- a) Compass surveying
- b) Traverse surveying
- c) Plane table surveying
- d) Theodolite surveying

23. Which of the following survey deals with bodies of water for the purpose of navigation, water supply, harbor works or for the determination of mean sea level?

- a) City surveying



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- b) Cadastral surveying
- c) Topographic surveying
- d) Hydrographic surveying

24. Determining points of strategic importance are called _____

- a) Traverse surveying
- b) Military surveying
- c) City surveying
- d) Topographic surveying

25. Which of the following is not a natural error in compass surveying?

- a) Local attraction due to the proximity of local attraction forces
- b) Pivot being bent
- c) Magnetic changes in the atmosphere due to clouds and Strom's
- d) Variation in declination

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Value Added Course on Advanced surveying

ANSWER KEY

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


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VAC Coordinator


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12/02/21

R. Vignesh

811219103002

II Yr

1, d, all of the above ✗

2, d, whole to part ✓

3, b, Mine surveying ✓

4, c, chain surveying ✓

5, a, Traverse surveying ✓

6, a, large areas ✗

7, c, when area is small, even and crowded with many detail

8, a, Dumpy level ✓

9, c, Running survey line ✓

10, a, Laying off horizontal ✓

11, c, Tacheometry ✓

12, d, leveling ✓

13, c, Taking measurements ✗

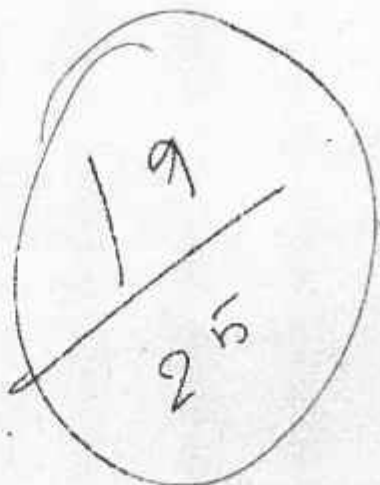
14, c, Aerial photogrammetry ✓

15, c, Laying an Alignment ✗

16, d, direct ✓

17, b, Traverse leveling ✓

18, a, Plane surveying ✓



(Signature)

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- 19, b, Tachametric Surveying. ✓
20, a, Trisection ✓
21, b, Irodic Surveying. ✓
22, c, Plane Table Surveying ✓
23, a, city surveying. X
24, b, Military surveying. ✓
25, b, Pivot using lent. ✓

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10/10/18

12/02/21

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M. Mahendran

811218103002

III year

b) Surveying Shows the relative positions of the objects on the surface of the earth

d) whole to part ✓

b) mine surveying ✓

c) chain surveying ✓

a) Traverse surveying ✓

a) Large areas α

b) when area is large undulating and crowded with many details

Dumpy Level ✓

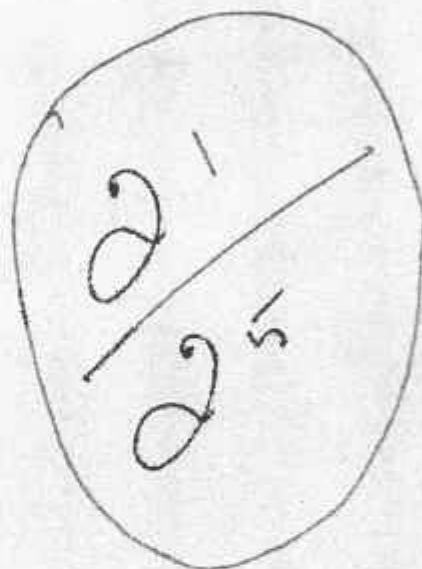
a) Fixing α

d) locating points on lines α


c) Tacheometry ✓

d) Levelling ✓

b) working from whole to part ✓



- 14 c) Aerial Photogrammetry ✓
- 15 b) Establishing mean sea level. ✓
- 16 d) Direct ✓
- 17 b) Traverse levelling ✓
- 18 a) Plane Surveying ✓
- 19 b) Tacheometric Surveying ✓
- 20 a) Trisection ✓
- 21 b) Meodic Surveying ✓
- 22 c) Plane table Surveying ✓
- 23 d) Hydrographic Surveying ✓
- 24 c) City Surveying ✓
- 25 b) Pivot being bent ✓


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Name: Deepan. Sk.

Reg. No: 811217103007

Date - 12-02-21

1. b) Surveying shows the relative position of the objects on the surface of earth.

2. d) whole to part.

3. b) Mine surveying

4. c) chain surveying

5. d) Hydrographic surveying

6. d) Local attraction suspected area.

7) b) when area is large, undulating and crowded with many details.

8) a) Dumpy level.

9) c) Running surveying lines.

10 b) prolonging surveying lines.

c) Tacheometry.

d) Levelling

13) c) Taking measurements.

14) c) Aerial photogrammetry

15) b) Establishing mean sea level.

16) d) Direct

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11)

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17) b) Traverse levelling

18) a) plane surveying

19) b) Tacheometric surveying

20) a) Triangulation

21) b) Geodetic surveying

22) a) compass surveying

23) d) Hydrographic surveying

24) b) military surveying

25) b) pivot bearing



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Department of Civil engineering

STUDENTS PARTICIPATION LIST

MARK SHEET FOR VALUE ADDED COURSE PROGRAM - Advanced Surveying

S.No.	Reg No	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	811217103001	AISHWARIYA.P	IV/CIVIL	30	100	21	84	92
2	811217103002	AKASH.S	IV/CIVIL	30	100	22	88	94
3	811217103003	AROCKIA RENALDO.J	IV/CIVIL	30	100	20	80	90
4	811217103004	AVINASH KUMAR.R	IV/CIVIL	27	90	21	84	87
5	811217103005	BALAJI.S	IV/CIVIL	27	90	19	76	83
6	811217103006	BALASUBRAMANIR.	IV/CIVIL	30	100	20	80	90
7	811217103007	DEEPAN.S.K	IV/CIVIL	27	90	21	84	87
8	811217103008	GAYATHRI.A	IV/CIVIL	30	100	21	84	92
9	811217103009	KOKILA.P	IV/CIVIL	27	90	20	80	85
10	811217103010	MANIKANDAN.G	IV/CIVIL	30	100	21	84	92
11	811217103011	MOUNIKA.M	IV/CIVIL	30	100	22	88	94
12	811217103012	NAVANEETHAN KRISHNAN.K	IV/CIVIL	30	100	20	80	90

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				No. of Session Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
13	811217103013	PALANIYAPPAN.N	IV/CIVIL	27	90	21	84	87
14	811217103014	SALEEM KHAN.S	IV/CIVIL	27	90	19	76	83
15	811217103015	SATHISH KUMAR.S	IV/CIVIL	30	100	21	84	92
16	811217103016	THAMARAI SELVI.K	IV/CIVIL	30	100	22	88	94
17	811217103301	ARUN PRASATH R	IV/CIVIL	30	100	20	80	90
18	811217103302	JOEL FERNANDEZ.R	IV/CIVIL	27	90	21	84	87
19	811217103303	SUMITHIRA.R	IV/CIVIL	27	90	19	76	83
20	811217103304	THIRUPATHI RAJA.G	IV/CIVIL	27	90	19	76	83
1	811218103001	AKASH J	III/CIVIL	27	90	20	80	85
2	811218103002	M. MAHENDRAN	III/CIVIL	30	100	21	84	92
3	811218103003	S MUSARAF ALI	III/CIVIL	30	100	22	88	94
4	811218103004	PRABU J	III/CIVIL	30	100	20	80	90
1	811219103002	R.VIGNESH	II/CIVIL	27	90	19	76	83

Kaliraj
VAC Coordinator

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Department of Civil engineering

Academic Year 2020-2021 – Odd Semester

STUDENTS ATTENDANCE LIST Value Added Course- Advanced Surveying

S.No.	Reg No	Name	Year/ Branch	08.02.21		09.02.21		10.02.21		11.02.21		12'.02.21		NO OF SESSIONS ATTENDED	SIGN OF THE STUDENT
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN		
1	811217103001	AISHWARIYA.P	IV/CIVIL	P	P	P	P	P	P	P	P	P	P	10	ONLINE MODE
2	811217103002	AKASH.S	IV/CIVIL	P	P	P	P	P	P	P	P	P	P	10	
3	811217103003	AROCKIA RENALDO.J	IV/CIVIL	P	P	P	P	P	P	P	P	P	P	10	
4	811217103004	AVINASH KUMAR.R	IV/CIVIL	P	P	P	a	P	P	P	P	P	P	9	
5	811217103005	BALAJLS	IV/CIVIL	P	P	P	P	P	P	a	P	P	P	9	
6	811217103006	BALASUBRAMANI.R	IV/CIVIL	P	P	P	P	P	P	P	P	P	P	10	
7	811217103007	DEEPAN.S.K	IV/CIVIL	P	P	P	a	P	P	P	P	P	P	9	
8	811217103008	GAYATHRIA	IV/CIVIL	P	P	P	P	P	P	P	P	P	P	10	
9	811217103009	KOKILA.P	IV/CIVIL	P	P	P	P	a	P	P	P	P	P	9	
10	811217103010	MANIKANDAN.G	IV/CIVIL	P	P	P	P	P	P	P	P	P	P	10	
11	811217103011	MOUNIKA.M	IV/CIVIL	P	P	P	P	P	P	P	P	P	P	10	
12	811217103012	NAVANEETHAN KRISHNAN.K	IV/CIVIL	P	P	P	P	P	P	P	P	P	P	10	
13	811217103013	PALANIYAPPAN.N	IV/CIVIL	P	P	a	P	P	P	P	P	P	P	9	
14	811217103014	SALEEM KHAN.S	IV/CIVIL	P	P	P	a	P	P	P	P	P	P	9	

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Department of Civil engineering

15	811217103015	SATHISH KUMAR.S	IV/CIVIL	P	P	P	P	P	P	P	P	P	P	10	SIGN OF THE STUDENT
S.No.	Reg No	Name	Year/ Branch	08.02.21		09.02.21		10.02.21		11.02.21		12'.02.21		NO OF SESSIONS ATTENDED	
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN		
16	811217103016	THAMARAI SELVI.K	IV/CIVIL	P	P	P	P	P	P	P	P	P	P	10	ONLINE MODE
17	811217103301	ARUN PRASATH R	IV/CIVIL	P	P	P	P	P	P	P	P	P	P	10	
18	811217103302	JOEL FERNANDEZ.R	IV/CIVIL	a	P	P	P	P	P	P	P	P	P	9	
19	811217103303	SUMITHIRA.R	IV/CIVIL	P	P	P	P	P	a	P	P	P	P	9	
20	811217103304	THIRUPATHI RAJA.G	IV/CIVIL	P	P	P	P	a	P	P	P	P	P	9	
1	811218103001	AKASH J	III/CIVIL	P	P	P	a	P	P	P	P	P	P	9	
2	811218103002	M. MAHENDRAN	III/CIVIL	P	P	P	P	P	P	P	P	P	P	10	
3	811218103003	S MUSARAF ALI	III/CIVIL	P	P	P	P	P	P	P	P	P	P	10	
4	811218103004	PRABU J	III/CIVIL	P	P	P	P	P	P	P	P	P	P	10	
1	811219103002	R.VIGNESH	II/CIVIL	P	P	P	P	P	P	P	P	P	P	10	


VAC Coordinator


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CERTIFICATE

OF PARTICIPATION

The following awards are given to

This is to certify that Mr. AKASH S of IV Year has successfully completed the Value Added Course “Advanced Surveying” organized by Department of CIVIL Engineering in Association with “Veeranar Construction” from 08.02.2021 to 12.02.2021 (5 days) during the Academic year 2020-2021.


Managing Director,
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This is to certify that Ms. MONIKA M of IV Year has successfully completed the Value Added Course “Advanced Surveying” organized by Department of CIVIL Engineering in Association with “Veeranar Construction” from 08.02.2021 to 12.02.2021 (5 days) during the Academic year 2020-2021.

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This is to certify that Mr. MANIKANDAN G of IV Year has successfully completed the Value Added Course “Advanced Surveying” organized by Department of CIVIL Engineering in Association with “Veeranar Construction” from 08.02.2021 to 12.02.2021 (5 days) during the Academic year 2020-2021.


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This is to certify that Mr. BALAJI S of IV Year has successfully completed the Value Added Course “Advanced Surveying” organized by Department of CIVIL Engineering in Association with “Veeranar Construction” from 08.02.2021 to 12.02.2021 (5 days) during the Academic year 2020-2021.


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This is to certify that Mr. PRABU JJ of III Year has successfully completed the Value Added Course “Advanced Surveying” organized by Department of CIVIL Engineering in Association with “Veeranar Construction” from 08.02.2021 to 12.02.2021 (5 days) during the Academic year 2020-2021.


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This is to certify that Mr. VIGNESH R of II Year has successfully completed the Value Added Course “Advanced Surveying” organized by Department of CIVIL Engineering in Association with “Veeranar Construction” from 08.02.2021 to 12.02.2021 (5 days) during the Academic year 2020-2021.


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