



SRI BHARATHI

ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)
Kaikkurichi, Pudukkottai -622 303

www.sbec.edu.in

NAAC DOCUMENTS



Quality Indicator Frame Work

Criterion – 1

CURRICULAR ASPECTS

Submitted by

IQAC

Internal Quality Assurance Cell

Sri Bharathi Engineering College for Women



SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25

KAIKKURUCHI, PUDUKOTTAI – 622 303

DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2022-2023 / 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:	CONSTRUCTION SAFETY AND PRACTICES				
Resource Person:	Er.S.Rawuther Appa B.E., M.Sc(Rev)., Senior Engineer, Kamaal Constructions, Aranthangi.				
Date of conduct from :	03.08.2022	To:	09.08.2022	Duration:	36 Hours
Organized Department :	CIVIL ENGINEERING				
Participant Year:	2/ 3 /4	Semester:	ODD	No. of Students Registered :	25
Venue:	First Floor - Lecture Hall : 30				

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Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2022-2023 / ODD SEMESTER

Date: 29/06 /2022

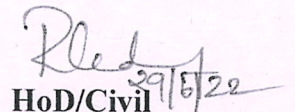
DEPARTMENT CIRCULAR

It is planned to conduct Value added course offered by the Department of Civil Engineering for all Second, Third & Final year Civil Engineering students on “Construction Safety and Practices” in association with **Kamaal Constructions** from 3.8.2022 to 9.8.2022. Certificates will be issued to the eligible participants at the end of the Course. The resource person details are shown in the following table.

S.No.	Name of the Course	Resource Person
1.	Construction Safety and Practices	Er.S.Rawuther Appa B.E., M.Sc(Rev)., Senior Engineer, Kamaal Constructions, Aranthangi.

Cc:

- Principal's Office
- IQAC Coordinator
- Class In charges - II, III & IV-year of Civil Engineering
- II, III & IV-year Civil Engineering Students
- Notice Board


39/6/22

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SRI BHARATHI ENGINEERING
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PUDUKKOTTAI - 622 303



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DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2022-2023 / ODD SEMESTER

Value Added Course on “Construction Safety and Practices”

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Introduction to construction industry and safety issues in construction	3	03.08.2022
2	Framing of contract conditions on safety and related matters	3	03.08.2022
3	Safety in various construction operations	3	04.08.2022
4	Familiarization with relevant Indian Standards and the National Building Code provisions on construction safety	3	04.08.2022
5	Material handling and equipment's-Safety in storage & stacking of construction materials	3	05.08.2022
6	Safety in temporary power supply and fire safety at construction site.	3	05.08.2022
7	Licensing of Contractors, Welfare and Health provisions in the Act and the Rules, Penalties, Rules regarding wages.	3	08.08.2022
8	Indian standard - trusses, girders and beams	3	08.08.2022
9	Code of Practices - Preventive measures against Hazards at work places Part 1 & 2	6	09.08.2022
10	Indian standard - Scaffolding	6	10.08.2022
Total Hours		36	-


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DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2022-2023 (ODD SEM)

STUDENTS PARTICIPATION LIST-VAC PROGRAM

CONSTRUCTION SAFETY AND PRACTICES

S.NO	REG.NO	NAME OF THE STUDENT	YEAR/BRANCH
1	912621103001	AKILA G	II/CIVIL
2	912621103002	GAYATHRI G	II/CIVIL
3	912621103003	JAYABHARATHI R	II/CIVIL
4	912621103004	JAYA MANOHARI B	II/CIVIL
5	912621103005	PRIYADHARSHINI A	II/CIVIL
6	912621103006	RABIA BANU M	II/CIVIL
7	912621103007	SHERLIN KAVYA B	II/CIVIL
8	912621103301	JENIFAR A	II/CIVIL
9	912621103302	KALAIARASI G	II/CIVIL
10	912620103001	ASWINI T	III/CIVIL
11	912620103002	GEETHA M	III/CIVIL
12	912620103003	KEERTHI S	III/CIVIL
13	912620103004	SUBATHRA S	III/CIVIL
14	912620103301	BHAVANI S	III/CIVIL
15	912620103302	MEGALA V	III/CIVIL
16	912619103001	AJITHA T	IV/CIVIL
17	912619103002	ARULJENIFAR C	IV/CIVIL
18	912619103003	DIVYA V	IV/CIVIL

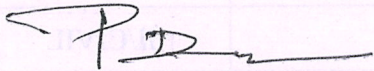
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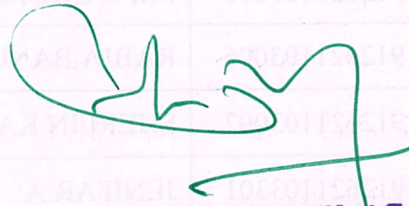
Kaikkurichi - 622 303, Pudukkottai Dt.

19	912619103004	MANGAIYARKARASI G	IV/CIVIL
20	912619103005	MUTHULAKSHMI S	IV/CIVIL
21	912619103006	PRAVEENA S	IV/CIVIL
22	912619103007	PRIYADHARSHINI K	IV/CIVIL
23	912619103009	RAGAVI V	IV/CIVIL
24	912619103301	LILLY JOHN J	IV/CIVIL
25	912619103302	BHUVANI S	IV/CIVIL


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PUDUKKOTTAI - 622 303



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ACADEMIC YEAR 2022-2023 (ODD SEM)

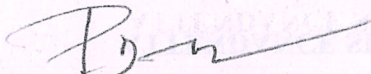
ATTENDANCE SHEET FOR VALUE ADDED COURSE- CONSTRUCTION SAFETY AND PRACTICES

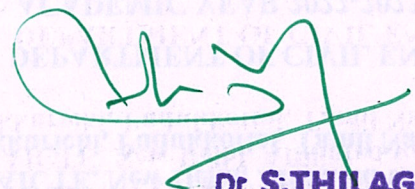
S.NO	REG.NO	NAME OF THE STUDENT	YEAR/ BRANCH	DATE: 03.08.22		DATE: 04.08.22		DATE: 05.08.22		DATE: 06.08.22		DATE: 08.08.22		DATE: 09.08.22		NO OF SESSIONS ATTENDED	SIGNATURE OF THE STUDENT
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN		
1	912621103001	AKILA G	II/CIVIL	1	1	1	1	1	1	1	1	1	1	1	1	12	G. Akila
2	912621103002	GAYATHRI G	II/CIVIL	1	a	1	1	1	1	1	a	1	1	1	1	10	G. Gayathri
3	912621103003	JAYABHARATHI R	II/CIVIL	1	1	1	1	1	1	1	1	1	1	1	1	12	R. Jayabharathi
4	912621103004	JAYA MANOHARI B	II/CIVIL	1	1	1	1	1	1	1	1	1	1	1	1	12	B. Jaya Manohari
5	912621103005	PRIYADHARSHINI A	II/CIVIL	1	1	1	1	1	a	1	1	1	1	1	1	11	P. Priyadharshini
6	912621103006	RABIA BANU M	II/CIVIL	1	1	1	1	1	1	1	a	1	1	1	1	11	M. Rabia Banu
7	912621103007	SHERLIN KAVYA B	II/CIVIL	1	1	1	1	1	1	1	1	1	1	1	1	12	B. Sherlin
8	912621103301	JENIFAR A	II/CIVIL	1	a	1	1	1	1	1	1	1	a	1	1	10	A. Jenifar
9	912621103302	KALAIARASI G	II/CIVIL	1	1	1	1	1	1	1	1	1	1	1	a	11	G. Kalaiarasi
10	912620103001	ASWINI T	III/CIVIL	1	1	1	a	1	1	1	1	1	1	1	1	11	T. Aswini
11	912620103002	GEETHA M	III/CIVIL	1	1	1	1	1	1	1	1	1	1	1	1	12	M. Geetha

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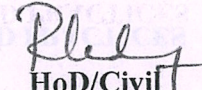
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12	912620103003	KEERTHI S	III/CIVIL	/	/	/	/	/	/	/	/	/	/	/	a	11	S. Keerthi
13	912620103004	SUBATHRA S	III/CIVIL	/	/	/	/	/	/	/	/	/	/	/	/	12	S. Subathra
14	912620103301	BHAVANI S	III/CIVIL	/	a	/	/	/	/	/	/	/	/	/	/	11	S. Bhavani
15	912620103302	MEGALA V	III/CIVIL	/	/	/	/	/	/	/	/	a	/	/	/	11	v. Megha
16	912619103001	AJITHA T	IV/CIVIL	/	/	/	/	/	/	a	/	/	/	/	/	11	Ajitha
17	912619103002	ARULJENIFAR C	IV/CIVIL	/	/	/	/	/	/	/	/	/	/	/	/	12	A. Aruljenifar
18	912619103003	DIVYA V	IV/CIVIL	/	/	/	/	/	a	/	a	/	/	/	/	10	D. Divya
19	912619103004	MANGAIYARKARASI G	IV/CIVIL	/	/	/	/	/	/	/	/	a	/	a	/	10	M. Mangaiyarkarasi
20	912619103005	MUTHULAKSHMI S	IV/CIVIL	/	/	/	/	/	/	/	/	/	/	/	/	12	M. Muthulakshmi
21	912619103006	PRAVEENA S	IV/CIVIL	/	/	/	a	/	/	/	/	/	/	/	/	11	P. Praveena
22	912619103007	PRIYADHARSHINI K	IV/CIVIL	/	/	/	/	/	/	/	/	/	/	/	/	12	P. Priyadharshini
23	912619103009	RAGAVI V	IV/CIVIL	/	/	/	/	/	/	/	/	/	/	/	/	12	R. Ragavi
24	912619103301	LILLY JOHN J	IV/CIVIL	/	/	/	a	/	/	/	/	/	/	/	/	11	L. Lilly John
25	912619103302	BHUVANI S	IV/CIVIL	/	/	/	/	/	a	/	/	/	/	/	a	10	B. Bhuvani


VAC Coordinator



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Report on Value Added Course

Title:	Construction Safety and Practices				
Resource Person:	Er.S.Rawuther Appa B.E., M.Sc(Rev)., Senior Engineer, Kamaal Constructions, Aranthangi.				
Date of conduct from :	03.08.2022	To:	09.08.2022	Duration:	36 Hours
Organized Department :	CIVIL ENGINEERING				
Participant Year:	2, 3, 4	Semester:	ODD	No. of Students Registered :	25
Venue:	First Floor - Lecture Hall : 30				

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

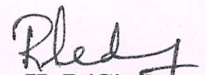
- Know real-world examples of on-the-job safety and health issues
- protect themselves and others from accidental deaths and injuries.
- understand hazards in the workplace can be controlled.
- learn and practice the skills they will need in the workplace.
- receive required training on equipment they will use, and work processes they will perform
- Develop a foundational understanding of safety systems.

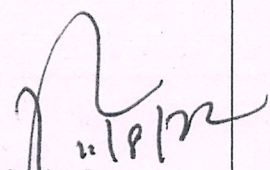
No. of students successfully completed the VAC course is **25 students** based on the following assessment process.

Assessment Process

- Students securing **more than 60% 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)

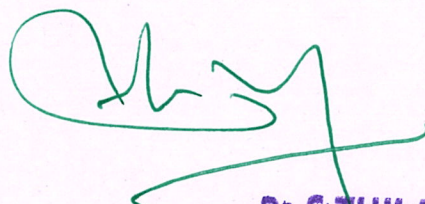

VAC Coordinator


HoD/Civil
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Principal
PRINCIPAL

SRI BHARATHI ENGINEERING
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PUDUKKOTTAI - 622 303

SRI BHARATHI ENGINEERING
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KAIKKURICHI - 622 303.
PUDUKKOTTAI DISTRICT



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Kaikkurichi - 622 303, Pudukkottai Dt.



KAMAAL CONSTRUCTION

24/4, Athippa Complex, Bharathidasan Street, Aranthangi-614616

Er. S. Rawuther Appa B. E., M. Sc. (REV)

Licensed Building Surveyor

CERTIFICATE OF PARTICIPATION

This is to certify that Ms. Ajitha T of IV Year B.E-Civil Engineering, Sri Bharathi Engineering College for Women, Pudukkottai has successfully completed the Value Added course on "Construction Safety and Practices" conducted from 03.08.2022 to 09.08.2022 (6days) during the Academic year 2022-2023.

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Kaikkurchi - 622 303, Pudukkottai Dt.

Er. S. Rawuther Appa B. E., M. Sc. (REV)
Licensed Building Surveyor



KAMAAL CONSTRUCTION

24/4, Athippa Complex, Bharathidasan Street, Aranthangi-614616

Er. S. Rawuthier Appa B. E., M. Sc. (REV)

Licensed Building Surveyor

CERTIFICATE OF PARTICIPATION

This is to certify that Ms. Aswini T of III Year B.E-Civil Engineering, Sri Bharathi Engineering College for Women, Pudukkottai has successfully completed the Value Added course on "Construction Safety and Practices" conducted from 03.08.2022 to 09.08.2022 (6days) during the Academic year 2022-2023.

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Kaikkurchi - 622 303, Pudukkottai Dt.

Er. S. Rawuthier Appa B. E., M. Sc. (REV)
Licensed Building Surveyor



KAMAAL CONSTRUCTION

24/4, Athippa Complex, Bharathidasan Street, Aranthangi-614616

Er. S. Rawuthier Appa B. E., M. Sc. (REV)

Licensed Building Surveyor

CERTIFICATE OF PARTICIPATION

This is to certify that Ms. Jayabharathi R. of II Year B.E-Civil Engineering, Sri Bharathi Engineering College for Women, Pudukkottai has successfully completed the Value Added course on "Construction Safety and Practices" conducted from 03.08.2022 to 09.08.2022 (6days) during the Academic year 2022-2023.

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DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2022-2023 / ODD SEMESTER

Name of the Student :

Year/Sem:

AU Register Number:

Value Added Course on “Construction Safety and Practices”

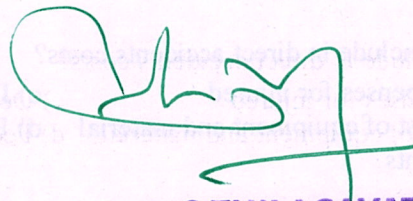
MCQ QUESTIONS (25X4 = 100 Marks)

1. While using ladder one should not lean sideways more than _____.
a) 40 cms
b) 50 cms
c) 30 cms
d) 45 cms
2. Which is the most accepted method of avoiding accident?
a) Wearing safety equipment
b) Doing things in one s own way
c) Performing with highly skilled working practice
d) Observing safety precautions related to job, machine and working place
3. For repair works at high level of multi storeyed buildings needle scaffolding is preferred
a) As it is more stable
b) As it looks better
c) As it will not obstruct traffic at ground level
d) All of the above
4. Which cost is not included in direct accidents costs?
a) Medical care expenses for injured
b) Replacement cost of equipment and material damaged in accidents
c) Decrease in moral which affects productivity
d) Fees for legal counsel
5. Carelessness is the cause of an accident that can be attributed to
a) Planning, organization
b) Execution of work
c) Management
d) None of the above
6. The reason for considering safety include
a) Humanitarian concern
b) Economic reasons
c) Laws and Regulations
d) All the above

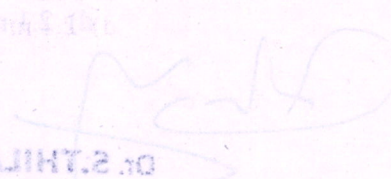
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7. From the following, which one is not an act and regulations for health and safety?.
- a) Building and other construction workers Act, 1996 c) The Delhi Building and other construction workers Act, 2000
- b) Building and other construction workers central rules, 1998 d) The Delhi Building and other construction workers rules, 2002
8. Which of the following cause of an accident can be attributed to organization?
- a) Use of unsuitable material c) Unsuitable equipment
- b) Defective supervision of work d) Unskilled operators
9. _____ is provided to safeguard scaffolding against overturning,
- a) Standards c) Put-logs
- b) Inclined rackers d) Rails
10. Which one of the following is not an important element for maintaining safety in construction?
- a) Membership of trade union c) Design methodology
- b) Management d) Safety codes
11. What is class D fire?
- a) Oil and fats c) Combustible metals
- b) Flammable liquids d) Energized electrical equipment
12. Pick up the incorrect statement from the following for various duties of a safety occurs stipulated in the law is:
- a) To advice the building workers for effective control of injuries c) To check and evaluate effectiveness of action
- b) To carry out safety inspections of buildings d) To comply with requirement of rules
13. For work at height one should use
- a) Safety belt c) Both A and B
- b) Full body harness d) None of these
14. When the work is over the scaffolding should be dismantled step by step from _____ float for any activity is defined as the difference between
- a) Lower side c) Upper side
- b) Middle part d) None of the above

22. If work of piling is to be carried out at night, minimum _____ lux luminae lights should be used.
- a) 60
b) 200
c) 150
d) 100
23. As per the Heinrich theory, 88 % of accidents were attributable to
- a) Unsafe physical condition
b) Unsafe mechanical condition
c) Unsafe act
d) Natural calamities
24. How can frame designers contribute most effectively to ensuring steelwork is erected safely?
- a) By having a dialogue with those responsible for planning and undertaking the work on site
b) By a comprehensive series of notes on the drawings issued for construction
c) By designing to keep the weight of each steel member as low as possible
d) By specifying that steel erectors should never exit the basket of a MEWP at height
25. Who should be allowed to go below slab when centering is in position and concreting of slab is going on?
- a) Only head carpenter
b) Every worker
c) Nobody
d) Only safety officer



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DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2022-2023 / ODD SEMESTER

Value Added Course on “Construction Safety and Practices”

ANSWER KEY

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

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Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2022-2023 / ODD SEMESTER

Name of the Student : Jaya Manohari

Year/Sem: II / III

AU Register Number: 912621103004

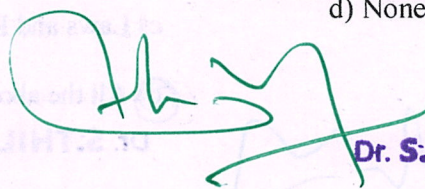
Value Added Course on “Construction Safety and Practices”

MCQ QUESTIONS (25X4 = 100 Marks)

- While using ladder one should not lean sideways more than _____.
a) 40 cms
b) 50 cms
c) 30 cms
d) 45 cms
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a) Wearing safety equipment
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c) Performing with highly skilled working practice
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a) As it is more stable
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d) All of the above
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a) Medical care expenses for injured
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c) Management
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1. Planning for safety,

2. Organizing for safety,

3. Scheduling for safety,

4. Controlling for safety

a) 1, 3 and 4 are correct

c) 1, 2 and 3 are correct

b) 2, 3 and 4 are correct

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19. How occupational disease caused in industrial environment?

a) Negligence

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b) Lack of knowledge

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20. Setting up of National Safety Council (NSC) in India in _____

a) 1956

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21. Whenever workmen have to excavate in trenches in soil, soft rock or hard soil exceeding _____ in depth, the trenches should be securely shored and timbered.

a) 2 m

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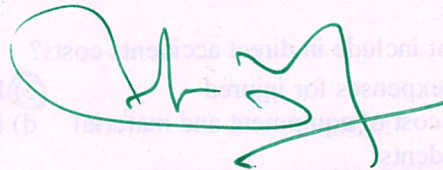
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DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2022-2023 / ODD SEMESTER

20
25
P.D.M

Name of the Student : Anul Jenifar.c

Year/Sem: IV/VII

AU Register Number: 912619103002

Value Added Course on “Construction Safety and Practices”

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DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2022-2023 / ODD SEMESTER

Name of the Student : S. Subathya

Year/Sem: III / V

AU Register Number: 912620103004

Value Added Course on “Construction Safety and Practices”

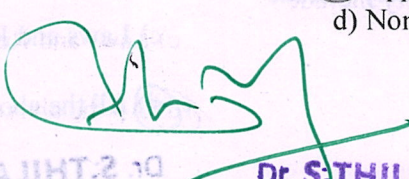
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DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2022-2023 (ODD SEM)

MARK SHEET FOR VALUE ADDED COURSE- CONSTRUCTION SAFETY & PRACTICES

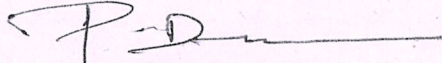
S.NO	REG.NO	NAME OF THE STUDENT	YEAR/ BRANCH	ATTENDANCE DETAILS		VAC-MCQ TEST		OVERALL MARK(100) (50% of A + 50% of B)
				No of Sessions Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
1	912621103001	AKILA G	II/CIVIL	12	100	20	80	90
2	912621103002	GAYATHRI G	II/CIVIL	10	83	15	60	72
3	912621103003	JAYABHARATHI R	II/CIVIL	12	100	19	76	88
4	912621103004	JAYA MANOHARI B	II/CIVIL	12	100	22	88	94
5	912621103005	PRIYADHARSHINI A	II/CIVIL	11	92	18	72	82
6	912621103006	RABIA BANU M	II/CIVIL	11	92	17	68	80
7	912621103007	SHERLIN KAVYA B	II/CIVIL	12	100	18	72	86



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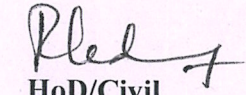
8	912621103301	JENIFAR A	II/CIVIL	10	83	17	68	76
9	912621103302	KALAIARASI G	II/CIVIL	11	92	16	64	78
10	912620103001	ASWINI T	III/CIVIL	11	92	16	64	78
11	912620103002	GEETHA M	III/CIVIL	12	100	20	80	90
12	912620103003	KEERTHI S	III/CIVIL	11	92	20	80	86
13	912620103004	SUBATHRA S	III/CIVIL	12	100	22	88	94
14	912620103301	BHAVANI S	III/CIVIL	11	92	17	68	80
15	912620103302	MEGALA V	III/CIVIL	11	92	19	76	84
16	912619103001	AJITHA T	IV/CIVIL	11	92	19	76	84
17	912619103002	ARULJENIFAR C	IV/CIVIL	12	100	20	80	90
18	912619103003	DIVYA V	IV/CIVIL	10	83	16	64	74
19	912619103004	MANGAIYARKARASI G	IV/CIVIL	10	83	16	64	74
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22	912619103007	PRIYADHARSHINI K	IV/CIVIL	12	100	22	88	94
23	912619103009	RAGAVI V	IV/CIVIL	12	100	22	88	94
24	912619103301	LILLY JOHN J	IV/CIVIL	11	92	20	80	86
25	912619103302	BHUVANI S	IV/CIVIL	10	83	16	64	74


VAC Coordinator


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