



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 – 2

Teaching-Learning and Evaluation

Submitted by

IQAC

Internal Quality Assurance Cell

Sri Bharathi Engineering College for Women



Criteria 2

Teaching-Learning and Evaluation

350

Key Indicator- 2.3. Teaching- Learning Process (40)

2021-2022

**ELECTRICAL AND ELECTRONICS
ENGINEERING**

PARTICIPATIVE LEARNING

Activity	Number of Students attended	Page No.
Value Added Course (VAC)	52	3
Symposium, and Workshop	12	55
TOTAL STUDENTS ATTENDED	64	-



SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

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

Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

Criteria 2

Teaching-Learning and Evaluation

350

Key Indicator- 2.3. Teaching- Learning Process (40)

2021-2022

**ELECTRICAL AND ELECTRONICS
ENGINEERING**

PARTICIPATIVE LEARNING

VALUE ADDED COURSE



SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN
(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)
KAIKKURUCHI, PUDUKOTTAI – 622 303
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
ACADEMIC YEAR 2021-2022 / ODD SEMESTER

DEPARTMENT CIRCULAR

Date: 30/07/2021

Value Added Course offered by the Department of EEE will be conducted in association with **SD PRO SOLUTIONS**, Trichy for Second, Third and Final year students on “**ENERGY AUDITING IN DOMESTIC APPLICATIONS**” from 09.08.2021 to 14.08.2021. Certificates will be issued to the eligible participants at the end of the Course. The Resource person details are shown in table.

RESOURCE PERSON DETAILS:

Name	Mr.N.Sasikumar
Designation:	Technical Head
Company name with address	SD PRO SOLUTIONS No. 64, 1st floor, Sri Krishna complex, Opp to E.R Higher Sec School, Chinthamani, Trichy-2.
Mail id	sdprotrichy@gmail.com

Cc:

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


HoD/EEE

HOD EEE
SRI BHARATHI ENGINEERING
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KAIKKURUCHI,
PUDUKKOTTAI - 622 303.


Dr. **S.THILAGAVATHI** M.E., Ph.D.,
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2021-2022 / ODD SEMESTER

VALUE ADDED COURSE

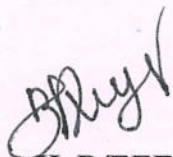
ENERGY AUDITING IN DOMESTIC APPLICATION

SCHEDULE

SI .NO	TOPICS	DURATION (in hours)	DATE
1.	Basics of Energy scenario and Energy needs of growing economy.	3	09.08.2021
2.	Energy conservation and its importance and Energy strategy for the future	3	09.08.2021
3.	Energy conservation Act-2001 and its features.	3	10.08.2021
4.	Types of Energy- Audit and methodology	3	10.08.2021
5.	Light Measurement, Speed Measurement	3	11.08.2021
6.	Introduction to HVAC and Conditioning System.	3	11.08.2021
7.	Impact of Refrigerants on Environment	3	12.08.2021
8.	Energy - Saving Measures in HVAC.	3	12.08.2021
9.	Energy management (audit) approach	3	13.08.2021
10.	Matching the energy use to requirement	3	13.08.2021
11.	Fuel and energy substitution and conservation and its planning.	3	14.08.2021
12.	Energy conservation in domestic applications.	3	14.08.2021
TOTAL HOURS		36 HOURS	


VAC COORDINATOR


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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
ACADEMIC YEAR 2021-2022 / ODD SEMESTER

STUDENT NAME LIST FOR VALUE ADDED COURSE

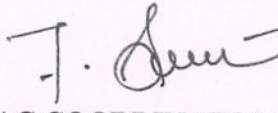
ENERGY AUDITING IN DOMESTIC APPLICATION

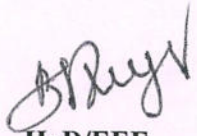
S.NO	NAME	REG.NO	YEAR & SEMESTER
1	KAYALVIZHI K	912620105001	II & III
2	RAMADEVI S	912620105002	II & III
3	SRINANTHANA S	912620105003	II & III
4	KALPANA T	912620105301	II & III
5	KAVIYA R	912620105302	II & III
6	KOPPERUNDEVI S	912620105303	II & III
7	NARMATHA DEVI K	912620105304	II & III
8	SRIBHARATHI S	912620105305	II & III
9	AASHIKA R	912619105001	III & V
10	ABINAYA S	912619105002	III & V
11	ABITHA P	912619105003	III & V
12	ARTHY N	912619105004	III & V
13	DEEPIKA R	912619105005	III & V
14	KOGULA PRIYA R	912619105006	III & V
15	NISHA S	912619105007	III & V
16	PAVITHRA M	912619105008	III & V
17	PRAGADEESHWARI A	912619105009	III & V
18	SIVARANJANI S	912619105010	III & V
19	RAGAVI R	912619105301	III & V
20	AARTHI G	912618105001	IV & VII
21	AASHA R	912618105002	IV & VII
22	AGARI S	912618105003	IV & VII
23	JEEVITHA R	912618105004	IV & VII
24	NISHA K	912618105005	IV & VII


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25	RAMANA R	912618105006	IV & VII
26	SNEHA S	912618105007	IV & VII
27	VINOTHINI V	912618105301	IV & VII


VAC COORDINATOR


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KAIKKURICHI, PUDUKKOTTAI-622 303

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
ACADEMIC YEAR 2021-2022 / ODD SEMESTER**

ATTENDANCE SHEET FOR VALUE ADDED COURSE ENERGY AUDITING IN DOMESTIC APPLICATION

S.NO	REG. NO	NAME	YEAR/ SEM	09.08.21		10.08.21		11.08.21		12.08.21		13.08.21		14.08.21		NO. OF CLASS ATTENDED	SIGN OF STUDENT
				F.N	A.N	F.N	A.N	F.N	A.N	F.N	A.N	F.N	A.N	F.N	A.N		
1	912620105001	KAYALVIZHI K	II & III	/	/	/	/	/	/	/	/	/	/	/	/	12	K.kayalvizhi
2	912620105002	RAMADEVI S	II & III	/	/	/	/	/	/	/	/	/	/	/	/	12	S.Ram.
3	912620105003	SRINANTHANA S	II & III	/	/	/	/	/	/	/	/	/	/	/	/	12	S.Srinatha
4	912620105301	KALPANA T	II & III	a	a	/	/	/	/	/	/	/	/	a	09	R.Kalpana	
5	912620105302	KAVIYA R	II & III	/	/	/	/	/	/	/	/	/	/	/	/	12	R.Kaviya
6	912620105303	KOPPERUNDEVI S	II & III	/	/	/	/	a	a	/	/	/	a	/	/	09	S.Kopf.
7	912620105304	NARMATHA DEVI K	II & III	/	/	/	/	/	/	/	/	/	/	/	/	12	K.Narmatha

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8	912620105305	SRIBHARATHI S	II & III	a	a	/	/	/	/	/	/	/	/	/	/	10	S. Sri Bhagya
9	912619105001	AASHIKA R	III & IV	/	/	/	/	/	/	/	/	/	/	/	/	12	R. Ashika
10	912619105002	ABINAYA S	III & IV	/	/	/	/	a	a	/	/	/	/	/	/	10	S. Abinaya
11	912619105003	ABITHA P	III & IV	/	/	/	/	/	/	/	/	/	/	/	/	12	P. Abitha
12	912619105004	ARTHY N	III & IV	/	/	/	/	/	/	/	a	/	/	/	/	11	N. Arthy
13	912619105005	DEEPIKA R	III & IV	/	/	/	/	/	/	/	/	/	a	a	/	10	D. Deepika
14	912619105006	KOGULA PRIYA R	III & IV	/	/	/	/	/	/	/	/	/	/	/	/	12	P. Kogula Priya
15	912619105007	NISHA S	III & IV	/	/	/	/	/	/	/	/	/	/	/	/	12	S. Nisha
16	912619105008	PAVITHRA M	III & IV	a	a	/	/	/	/	/	/	/	/	/	/	10	M. Pavithra
17	912619105009	PRAGADEESHWARI A	III & IV	/	/	/	/	/	a	/	/	/	/	/	/	11	A. Pragadeeswari
18	912619105010	SIVARANJANI S	III & IV	/	/	/	/	/	/	a	a	/	/	/	/	10	S. Sivaranjani
19	912619105301	RAGAVI R	III & IV	/	/	/	/	/	/	/	/	/	/	/	/	12	R. Ragavi
20	912618105001	AARTHI G	IV & VII	/	/	/	/	/	/	/	/	/	/	/	/	12	G. Arthi
21	912618105002	AASHA R	IV & VII	/	/	/	/	a	a	/	a	/	/	/	/	09	R. Asha
22	912618105003	AGARI S	IV & VII	/	a	/	/	/	/	/	/	/	/	/	/	11	S. Agari
23	912618105004	JEEVITHA R	IV & VII	/	/	a	a	/	/	/	/	/	/	/	/	10	R. Jeevitha

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24	912618105005	NISHA K	IV & VII	/	/	/	/	/	/	/	/	/	/	/	/	/	12	J. Dusej
25	912618105006	RAMANA R	IV & VII	/	/	/	/	/	/	/	/	/	/	/	/	/	12	R. Ramana
26	912618105007	SNEHA S	IV & VII	/	/	/	/	/	/	/	/	/	/	/	/	/	12	S. Sneha
27	912618105301	VINOTHINI V	IV & VII	a	a	/	/	/	/	/	/	/	/	/	/	/	10	V. Vin

J. Dusej
VAC CO ORDINATOR

J. Dusej
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S. Thilagavathi
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KAIKKURICHI, PUDUKKOTTAI, TAMIL NADU – 622 303, INDIA

Report on Value Added Course

Title: ENERGY AUDITING ON DOMESTIC APPLICATION

Resource Person: Mr.N.Sasikumar, Technical Head,
SD Pro Solutions, No. 64, 1st floor, Sri Krishna complex,
Opp to E.R Higher Sec School,Chinthamani,Trichy-2.
Mail id: sdprotrichy@gmail.com

Date of conduct from : 09.08.2021 To: 14.08.2021 Duration: 36 Hours

Organized Department : ELECTRICAL AND ELECTRONICS ENGINEERING

Participant Year: 2/ 3 /4 Semester: ODD No. of Students Registered : 27

Venue: Tutorial Hall:42, SBECW.

Outcome of Value Added Course (VAC)

At the end of the Course, Students can able to

- Explain about the energy needs of growing economy, energy security.
- Describe about the Audit Methodology, Financial Analysis, Sensitivity Analysis, Energy Monitoring and Training and Survey Instrumentation.
- Obtain the insight about HVAC, Psychrometry, Vapour – Compression Refrigeration Cycle, impact of refrigerants on environment, energy saving in HVAC.
- Comprehend about the Energy management (audit) approach, maximizing system efficiencies.
- Demonstrate about optimizing the input energy requirements, Fuel and energy substitution.
- Illustrate about the energy saving measures in new buildings, energy conservation planning, and Energy conservation in household and commercial sectors.

No. of students successfully completed the VAC course is 27 students based on the following assessment process.

Assessment Process

Students, who are 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/ EEE

Principal

HOD EEE

PRINCIPAL

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KAIKKURICHI,
PUDUKKOTTAI - 622 303.

SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
KAIKKURICHI - 622 303.
PUDUKKOTTAI DISTRICT

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PRINCIPAL

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COLLEGE FOR WOMEN
Kaikkurichi - 622 303, Pudukkotta: Dt.

SD PRO SOLUTIONS

No. 64, 1st floor, Sri Krishna complex,
Opp to E.R Higher Sec School, Chinthamani, Trichy-2.
Mail id: sdprotrichy@gmail.com



CERTIFICATE OF PARTICIPATION

This is to certify that Ms. AASHIKA R, Reg no: 912619105001, III year, EEE department has successfully completed the Value added Course on "ENERGY AUDITING IN DOMESTIC APPLICATIONS" conducted at **Sri Bharathi Engineering College for Women, Pudukkottai** in association with **SD PRO SOLUTIONS PVT LTD, Trichy** from 09.08.2021 to 14.08.2021.

MR.N.SASIKUMAR
TECHNICAL HEAD

PRINCIPAL
SBECW

Dr. S. THILAGAVATHI M.E., Ph.D.,
PRINCIPAL
SRI BHARATHI ENGINEERING
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Kaikkurchi - 622 303, Pudukkottai Dt.

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Opp to E.R Higher Sec School, Chinthamani, Trichy-2.
Mail id: sdprotrichy@gmail.com



CERTIFICATE OF PARTICIPATION

This is to certify that Ms. AARTHI G, Reg no: 912618105001, IV year, EEE department has successfully completed the Value added Course on "ENERGY AUDITING IN DOMESTIC APPLICATIONS" conducted at **Sri Bharathi Engineering College for Women, Pudukkottai** in association with **SD PRO SOLUTIONS PVT LTD, Trichy** from 09.08.2021 to 14.08.2021.

MR.N.SASIKUMAR
TECHNICAL HEAD

PRINCIPAL
SBECW

Dr. S. THILAGAVATHI M.E., Ph.D.,
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Mail id: sdprotrichy@gmail.com



CERTIFICATE OF PARTICIPATION

This is to certify that Ms. KAYALVIZHI K, Reg no: 912620105001, II year, EEE department has successfully completed the Value added Course on "ENERGY AUDITING IN DOMESTIC APPLICATIONS" conducted at **Sri Bharathi Engineering College for Women, Pudukkottai** in association with **SD PRO SOLUTIONS PVT LTD, Trichy** from 09.08.2021 to 14.08.2021.

MR.N.SASIKUMAR
TECHNICAL HEAD

Dr. **S.THILAGAVATHI** M.E., Ph.D.,
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2021-2022 / ODD SEMESTER

VALUE ADDED COURSE

ENERGY AUDITING IN DOMESTIC APPLICATION

Name of student:

Year/Sem:

AU Reg.No:

MULTIPLE CHOICE QUESTION (20 X1 =20 MARKS)

1. Non contact speed measurements can be carried out by

(a) Tachometer (b) Stroboscope (c) Oscilloscope (d) Odometer

2. Non contact flow measurement can be carried out by

(a) Orifice meter (b) Turbine flow meter (c) Ultrasonic flow meter (d) Magnetic flow meter

3. Name the one instrument used to measure CO₂ from boilers stack is

(a) Infrared thermometer (b) Fyrite (c) Anemometer (d) Pitot tube

4. The percentage of energy saved at the current rate of use, compared to the reference year rate of use, is called

(a) Energy Utilization (b) Energy Performance (c) Energy Efficiency (d) None

5. The objective of energy management includes

(a) Minimizing energy costs (b) minimizing waste
(c) Minimizing environmental degradation (d) all the above.

6. The various types of the instruments, which requires during audit need to be

(a) easy to carry (b) easy to operate (c) inexpensive (d) all (a) to (c)


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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

7. Find out the 'odd' among the following choices for fuel substitution for industrial sector of India.

(a) LPG for soft coke (b) coal with rice husk (c) natural gas for fertilizer plant (d) LDO with LSHS.

8. The tool used for performance assessment and logical evaluation of avenues for improvement in Energy management and audit is

(a) Fuel substitution (b) Monitoring and verification (c) Energy pricing (d) Bench marking

9. An energy policy does not include

(a) Target energy consumption reduction (b) Future production projection
(c) Declaration of top management commitment (d) Time period for reduction.

10. Indian per capita energy consumption is ____ of the world average.

(a) 4% (b) 1% (c) 20% (d) 10%

11. The judicious and effective use of energy to maximize profits and enhance competitive positions". This can be the definition of:

(a) Energy conservation (b) Energy management (c) Energy policy (d) Energy Audit

12. Which instrument is used to monitor O₂, CO in flue gas? (EA)

(a) Combustion analyzer (b) Power analyzer (c) Pyrometer (d) Fyrite

13. Air velocity in ducts can be measured by using ____ and manometer

(a) Orifice meter (b) Borden gauge (c) Pitot tube (d) Anemometer

14. Steps involved in pre-audit phase are

(a) Plan and organize (b) Walk through audit
(c) Informal interview with plant personnel (d) All the above.

15. The formation of frost on cooling coils in a refrigerator

(a) improves C.O.P. of the system (b) increases heat transfer
(c) reduces power consumption (d) Increases power consumption

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

16. Energy Star Label rating scheme for Fluorescent lamp is based on:

- (a) Lumens per Watt at 100, 2000 and 3500 hours of use (b) End of Lamp Life in terms of
burring hours (c) Lumen depreciation at 2000 hours (d) Color Rendering Index

17. The various types of the instruments, which requires during audit need to be

- (a) easy to carry (b) easy to operate (c) inexpensive (d) all (a) to (c)

18. Lux meter is used to measure..... (EA)

- (a) Illumination level (b) Sound intensity and illumination level
(c) Harmonics (d) Speed

19. CO₂ measurement of Fyrite kit is based on (EA)

- (a) Weight basis (dry) (b) Volume basis (dry)
(c) Weight basis (wet) (d) Volume basis (wet)

20. Preliminary energy audit is a relatively quick exercise to

- (a) Offers the most accurate estimate of energy savings and cost
(b) Includes detailed energy cost saving calculations and project cost.
(c) Identify the most likely (and the easiest areas for attention)
(d) Provides a detailed energy project implementation plan for a facility, since it evaluates all major energy using systems.


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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2021-2022 / ODD SEMESTER

VALUE ADDED COURSE

ENERGY AUDITING IN DOMESTIC APPLICATION

ANSWER KEY FOR MCQ

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


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ACADEMIC YEAR 2021-2022 / ODD SEMESTER

VALUE ADDED COURSE

ENERGY AUDITING IN DOMESTIC APPLICATION

Name of student: *K. Kayalvizhi*

Year/Sem: *II / III*

AU Reg.No: *912620105001*

MULTIPLE CHOICE QUESTION (20 X1 =20 MARKS)

18

20

1. Non contact speed measurements can be carried out by
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2. Non contact flow measurement can be carried out by
(a) Orifice meter (b) Turbine flow meter (c) Ultrasonic flow meter (d) Magnetic flow meter
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(a) Infrared thermometer (b) Fyrite (c) Anemometer (d) Pitot tube
4. The percentage of energy saved at the current rate of use, compared to the reference year rate of use, is called
(a) Energy Utilization (b) Energy Performance (c) Energy Efficiency (d) None
5. The objective of energy management includes
(a) Minimizing energy costs (b) minimizing waste
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6. The various types of the instruments, which requires during audit need to be
(a) easy to carry (b) easy to operate (c) inexpensive (d) all (a) to (c)

Dr. S. THILAGAVATHI M.E., Ph.D.,
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Kaikkurichi - 622 303, Pudukkottai Dt.



SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN
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Kaikkurichi, Pudukkottai- 622 303.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

7. Find out the 'odd' among the following choices for fuel substitution for industrial sector of India.

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- (a) Fuel substitution (b) Monitoring and verification (c) Energy pricing (d) Bench marking

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

16. Energy Star Label rating scheme for Fluorescent lamp is based on: (b)
- (a) Lumens per Watt at 100, 2000 and 3500 hours of use
(b) End of Lamp Life in terms of burring hours
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2021-2022 / ODD SEMESTER

VALUE ADDED COURSE

ENERGY AUDITING IN DOMESTIC APPLICATION

Name of student: S. ABINAYA

Year/Sem: III / V

AU Reg.No: 912619105002

17
20

MULTIPLE CHOICE QUESTION (20 X1 =20 MARKS)

1. Non contact speed measurements can be carried out by
(a) Tachometer (b) Stroboscope (c) Oscilloscope (d) Odometer
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(a) Orifice meter (b) Turbine flow meter (c) Ultrasonic flow meter (d) Magnetic flow meter
3. Name the one instrument used to measure CO₂ from boilers stack is
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2021-2022 / ODD SEMESTER

VALUE ADDED COURSE

ENERGY AUDITING IN DOMESTIC APPLICATION

Name of student: **R. JEEVITHA**

Year/Sem: **IV / VII**

AU Reg.No: **912618105004**

15

20

MULTIPLE CHOICE QUESTION (20 X1 =20 MARKS)

- Non contact speed measurements can be carried out by
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ACADEMIC YEAR 2021-2022 / ODD SEMESTER

MARK SHEET FOR VALUE ADDED COURSE
ENERGY AUDITING IN DOMESTIC APPLICATION

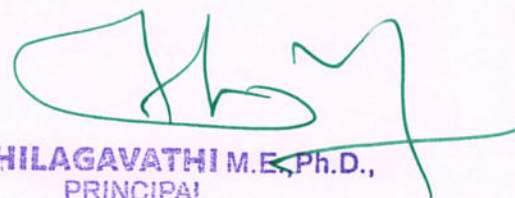
S.N O	REG. NO	NAME	YEAR/ SEM	ATTENDACE 50% (A)		VAC –MCQ 50%(B)		OVERALL MARK (A+B)
				No of Session Attended	MARKS	No of Correct Answer	MARKS	
1	912620105001	KAYALVIZHI K	II & III	12	100	18	90	95
2	912620105002	RAMADEVI S	II & III	12	100	19	95	98
3	912620105003	SRINANTHANA S	II & III	12	100	17	85	93
4	912620105301	KALPANA T	II & III	9	75	16	80	78
5	912620105302	KAVIYA R	II & III	12	100	15	75	88
6	912620105303	KOPPERUNDEVI S	II & III	9	75	18	90	83
7	912620105304	NARMATHA DEVI K	II & III	12	100	19	95	98
8	912620105305	SRIBHARATHI S	II & III	10	83	17	85	84
9	912619105001	AASHIKA R	III & V	12	100	18	90	95
10	912619105002	ABINAYA S	III & V	10	83	17	85	87
11	912619105003	ABITHA P	III & V	12	100	19	95	98
12	912619105004	ARTHY N	III & V	11	92	20	100	96
13	912619105005	DEEPIKA R	III & V	10	83	15	75	79
14	912619105006	KOGULA PRIYA R	III & V	12	100	19	95	98
15	912619105007	NISHA S	III & V	12	100	18	90	95
16	912619105008	PAVITHRA M	III & V	10	83	17	85	87
17	912619105009	PRAGADEESHWARI A	III & V	11	92	20	100	96
18	912619105010	SIVARANJANI S	III & V	10	83	15	75	79
19	912619105301	RAGAVI R	III & V	12	100	19	95	98
20	912618105001	AARTHI G	IV & VII	12	100	18	90	95


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21	912618105002	AASHA R	IV & VII	9	75	17	85	80
22	912618105003	AGARIS	IV & VII	11	92	20	100	96
23	912618105004	JEEVITHA R	IV & VII	10	83	15	75	79
24	912618105005	NISHA K	IV & VII	12	100	19	95	98
25	912618105006	RAMANA R	IV & VII	12	100	18	90	95
26	912618105007	SNEHA S	IV & VII	12	100	19	95	98
27	912618105301	VINOTHINI V	IV & VII	10	83	17	85	87


VAC COORDINATOR


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Dr. S.THILAGAVATHI M.E., Ph.D.,
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KAIKKURUCHI, PUDUKOTTAI – 622 303
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
ACADEMIC YEAR 2021-2022 / EVEN SEMESTER

DEPARTMENT CIRCULAR

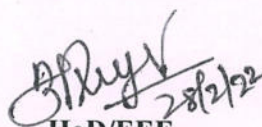
Date: 28.02.22

This is to inform that certificate course offered by the Department of Electrical and Electronics Engineering will be conducted for all Second, Third & Final year on “**ELECTRICAL SAFETY**” from 07.03.2022 to 11.03.2022. Certificates will be issued to all eligible participants at the end of the Course. The resource person details are shown in the following table.

RESOURCE PERSON DETAILS:

S.No.	Name of the Course	Course Coordinator
1.	Electrical Safety	Mrs. B.PRIYA Assistant professor, EEE department, SBECW.


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PUDUKKOTTAI - 622 303

Cc:

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



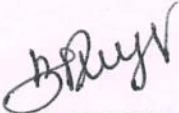
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
ACADEMIC YEAR 2021-2022 / EVEN SEMESTER

CERTIFICATE COURSE
ELECTRICAL SAFETY
SCHEDULE

SI .NO	TOPICS	DURATION (in hours)	DATE
1.	Objectives of safety and security measures, principles of electrical safety.	2	07.03.2022
2.	Primary and secondary electrical shocks	2	07.03.2022
3.	Possibilities of getting electrical shock and its severity	2	07.03.2022
4.	Medical analysis of electric shocks and its effects	3	08.03.2022
5.	Safety precautions against shocks, burns	3	08.03.2022
6.	Electrical safety in residential, commercial	3	09.03.2022
7.	Electrical safety in agricultural installations	3	09.03.2022
8.	Principles of Safety Management, Management Safety Policy	3	10.03.2022
9.	Safety organization, safety auditing.	3	10.03.2022
10.	Review of IE rules and acts and their significance	3	11.03.2022
11.	The Electricity Act, 2003, (Part1, 2, 3,4 & 5)	3	11.03.2022
TOTAL HOURS		30 HOURS	


COURSE COORDINATOR


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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
ACADEMIC YEAR 2021-2022 / EVEN SEMESTER

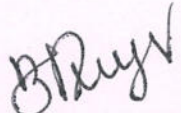
STUDENT NAME LIST FOR CERTIFICATE COURSE

ELECTRICAL SAFETY

S.NO	REG.NO	NAME	YEAR & SEMESTER
1	912620105001	KAYALVIZHI K	II & IV
2	912620105002	RAMADEVI S	II & IV
3	912620105003	SRINANTHANA S	II & IV
4	912620105302	KAVIYA R	II & IV
5	912620105303	KOPPERUNDEVI S	II & IV
6	912620105304	NARMATHA DEVI K	II & IV
7	912620105305	SRIBHARATHI S	II & IV
8	912619105001	AASHIKA R	III & VI
9	912619105002	ABINAYA S	III & VI
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11	912619105004	ARTHY N	III & VI
12	912619105005	DEEPIKA R	III & VI
13	912619105007	NISHA S	III & VI
14	912619105008	PAVITHRA M	III & VI
15	912619105009	PRAGADEESHWARI A	III & VI
16	912619105010	SIVARANJANI S	III & VI
17	912619105301	RAGAVI R	III & VI


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18	912618105001	AARTHI G	IV & VIII
19	912618105002	AASHA R	IV & VIII
20	912618105003	AGARI S	IV & VIII
21	912618105004	JEEVITHA R	IV & VIII
22	912618105005	NISHA K	IV & VIII
23	912618105006	RAMANA R	IV & VIII
24	912618105007	SNEHA S	IV & VIII
25	912618105301	VINOTHINI V	IV & VIII


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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2021-2022 / EVEN SEMESTER

ATTENDANCE SHEET FOR CERTIFICATE COURSE

ELECTRICAL SAFETY

S.N O	REG. NO	NAME	YEAR/ SEM	07.03.22		08.03.22		09.03.22		10.03.22		11.03.22		NO. OF CLASS ATTENDED	SIGN OF STUDENT
				F.N	A.N	F.N	A.N	F.N	A.N	F.N	A.N	F.N	A.N		
1	912620105001	KAYALVIZHI K	II & IV	/	/	/	/	/	/	/	/	/	/	10	K.Kayalvizhi
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3	912620105003	SRINANTHANA S	II & IV	/	/	/	/	/	/	/	/	/	/	10	S.Srinanthana
4	912620105302	KAVIYA R	II & IV	/	/	/	/	/	/	/	/	/	/	10	R.Kaviya
5	912620105303	KOPPERUNDEVI S	II & IV	/	/	/	/	/	/	/	/	/	/	10	S.Kop.
6	912620105304	NARMATHA DEVI K	II & IV	a	a	/	/	/	/	/	/	/	/	08	K.Narmatha
7	912620105305	SRIBHARATHI S	II & IV	/	/	/	/	/	/	/	/	/	/	10	S.SriBharathi
8	912619105001	AASHIKA R	III & VI	/	/	/	/	/	a	/	/	/	/	09	R.Aashika
9	912619105002	ABINAYA S	III & VI	/	/	/	/	/	/	/	/	/	/	10	S.Abinaya


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10	912619105003	ABITHA P	III & VI	/	/	/	/	a	a	/	/	/	/	08	P.Abitha
11	912619105004	ARTHY N	III & VI	/	/	/	/	/	/	/	/	/	/	10	N. Arthy
12	912619105005	DEEPIKA R	III & VI	/	/	/	/	/	/	/	/	/	/	10	R. Deepi
13	912619105007	NISHA S	III & VI	/	/	/	/	/	/	/	/	/	/	10	S. Nisha
14	912619105008	PAVITHRA M	III & VI	/	/	/	/	/	/	/	/	/	/	10	M. Pavee
15	912619105009	PRAGADEESHWARI A	III & VI	/	/	/	/	/	/	/	/	a	09	A.Pragadeeshwar	
16	912619105010	SIVARANJANI S	III & VI	/	/	/	/	/	/	/	/	/	10	S. Sivaranjani	
17	912619105301	RAGAVI R	III & VI	/	/	/	/	/	/	/	/	/	10	R. Ragavi	
18	912618105001	AARTHI G	IV & VIII	/	/	/	/	/	/	/	/	/	10	G. Arthi	
19	912618105002	AASHA R	IV & VIII	/	/	/	/	/	/	/	/	/	10	R. Aasha	
20	912618105003	AGARI S	IV & VIII	/	/	/	/	/	/	a	/	/	09	S. Agari	
21	912618105004	JEEVITHA R	IV & VIII	/	/	/	a	/	/	/	/	/	09	R. Jeevitha	
22	912618105005	NISHA K	IV & VIII	/	/	/	/	a	a	/	/	/	08	K. Nisha	
23	912618105006	RAMANA R	IV & VIII	/	/	/	/	/	/	/	/	/	10	R. Ramana	
24	912618105007	SNEHA S	IV & VIII	/	/	/	/	/	/	/	/	/	10	S. Sneha	
25	912618105301	VINOTHINI V	IV & VIII	/	/	/	/	/	/	/	/	a	09	V. Vin	

[Handwritten Signature]

COURSE COORDINATOR

[Handwritten Signature]

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PUDUKKOTTAI - 622 303.

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)
Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

Report on Value Added Course

Title:	ELECTRICAL SAFETY				
Resource Person:	Mrs. B.PRIYA Assistant professor, EEE department, SBECW.				
Date of conduct from :	07.03.2022	To:	11.03.2022	Duration:	30 Hours
Organized Department :	ELECTRICAL AND ELECTRONICS ENGINEERING				
Participant Year:	2/ 3 /4	Semester:	EVEN	No. of Students Registered :	25
Venue:	TUTORIAL HALL:42,SBECW				

Outcome of Value Added Course (VAC)

At the end of the Course, Students can able to

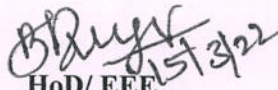
- Explain about the objectives of safety and security measures, principles of electrical safety.
- Describe about the types of electrical shocks, Medical analysis of electric shocks and its effects.
- Obtain the insight about safety precautions against shocks, burns.
- Comprehend about the Electrical safety in residential, commercial
- Demonstrate about Principles of Safety Management, Management Safety Policy.
- Illustrate about the Safety organization, safety auditing. Review of IE rules and acts and their significance.

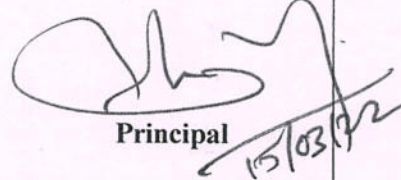
No. of students successfully completed the VAC course is 25 students based on the following assessment process.

Assessment Process

- Students, who are 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)


Course Coordinator


HoD/ EEE
HOD EEE


Principal

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PUDUKKOTTAI - 622 303.

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KAIKKURICHI - 622 303.
PUDUKKOTTAI DISTRICT


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KAIKKURICHI, PUDUKKOTTAI-622303

DEPARTMENT OF EEE

CERTIFICATE OF PARTICIPATION

This is to certify that Ms. KAYALVIZHI K (912620105001), II year has successfully completed the Certificate Course on "ELECTRICAL SAFETY" held at the college from 7th March 2022 to 11th March 2022 (5 Days).

COURSE COORDINATOR

HOD/EEE

PRINCIPAL

Dr. S.THILAGAVATHI M.E., Ph.D.,
PRINCIPAL

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Kaikkurichi - 622 303, Pudukkottai Dt.



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

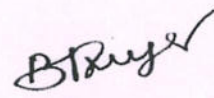
KAIKKURICHI, PUDUKKOTTAI-622303


DEPARTMENT OF EEE

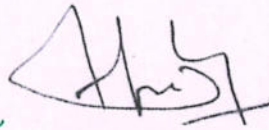
CERTIFICATE OF PARTICIPATION

This is to certify that Ms. AASHIKA R (912619105001), III year has successfully completed the Certificate Course on "ELECTRICAL SAFETY" held at the college from 7th March 2022 to 11th March 2022 (5 Days).


COURSE COORDINATOR


HOD/EEE


Dr. **S.THILAGAVATHI** M.E., Ph.D., PRINCIPAL



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DEPARTMENT OF EEE

CERTIFICATE OF PARTICIPATION

This is to certify that Ms. AARTHI G (912618105001), IV year has successfully completed the Certificate Course on "ELECTRICAL SAFETY" held at the college from 7th March 2022 to 11th March 2022 (5 Days).

COURSE COORDINATOR

HOD/EEE

Dr. S.THILAGAVATHI M.E., Ph.D., PRINCIPAL

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2021-2022 / EVEN SEMESTER

CERTIFICATE COURSE

ELECTRICAL SAFETY

Name of student:

Year/Sem:

AU Reg.No:

MULTIPLE CHOICE QUESTION (20 X1 =20 MARKS)

1. One of the main functions of personal protective grounds is to provide a _____ impedance path for a short circuit.

- (a) High (b) Low (c) Smooth (d) Adequate

2. The Prohibited Approach Boundary is considered the same as making _____

- (a) Insulation (b) Confluence (c) Contact (d) Pastry

3. _____ use caution when working near electricity.

- (a) Always (b) Never (c) Rarely (d) Sometimes

4. _____ is the flow of electrons around a circuit

- (a) Current (b) Electricity (c) Power (d) Voltage

5. _____ workers have little or no training working on or near electricity.

- (a) Pipeline (b) Qualified (c) Rescue (d) Unqualified


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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

6. Electrical hazards include shock, electrical arcs and blasts, and ____ or faulty equipment

- (a) Broken (b) Double-insulated (c) Polished (d) Secure

7. Avoid working in ____ conditions

- (a) Cold (b) Dry (c) Sunny (d) Wet

8. ____ gives a stray current somewhere to go and keeps workers from becoming part of the circuit.

- (a) De-energizing (b) Energizing (c) Grounding (d) Guarding

9. Specially designed PPE for electrical work includes ____ insulating gloves, matting, blankets, and covers.

- (a) Plastic (b) Rubber (c) Steel (d) Wood.

10. ____ tools are encased in plastic and prevent the user from getting electrocuted if the tool develops a short circuit.

- (a) Corded (b) Double-insulated (c) Green colored (d) Grounded

11. ____ all electrical equipment before use.

- (a) Clean (b) Inspect (c) Organize (d) Label

12. ____ is a measurement of how much energy you are using each second.

- (a) Distance (b) Power (c) Volume (d) Weight

13. Gloves used for electrical protection must be electrically tested every...

- (a) 3months (b) 6months (c) 12months (d) Never


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14. One of the three generally recognized hazards of electrical work is ____.
- (a) Arc Flash (b) Cuts (c) Falls (d) all the above.
15. Which is the "Can't Let Go" range of current flow?
- (a) 3-9 ma (b) 9-25 ma (c) 25-60 ma (d) 1-3 ma
16. The secondary of a current transformer must never be _____ while energized.
- (a) Grounded (b) Shortened (c) Examined (d) Opened
17. The minimum allowable work space around electrical equipment is _____ inches deep.
- (a) 36 (b) 48 (c) 24 (d) 30
18. A Safety Electrical One Line Diagram should be used to _____ all sources of electrical energy.
- (a) Identify (b) Castigate (c) Evaluate (d) Modify
19. Work performed on an electrical system within reaching distance of energized components is _____ work
- (a) Energized (b) Essential (c) Safe (d) Unavoidable
20. What is the full form of ABC in first aid?
- (a) Anyway, Breathing, Circulation (b) Airway, Breathing, Circulation
- (c) Anyway, Blood, Circulation (d) Airway, Blood, Chest

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2021-2022 / EVEN SEMESTER
CERTIFICATE COURSE
ELECTRICAL SAFETY
ANSWER KEY FOR MCQ

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


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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2021-2022 / EVEN SEMESTER

CERTIFICATE COURSE

ELECTRICAL SAFETY

Name of student: K. Kayalvighi

18
20

Year/Sem: II / IV

AU Reg.No: 912620105001

MULTIPLE CHOICE QUESTION (20 X1 =20 MARKS)

- One of the main functions of personal protective grounds is to provide a _____ impedance path for a short circuit.
(a) High (b) Low (c) Smooth (d) Adequate
- The Prohibited Approach Boundary is considered the same as making _____
(a) Insulation (b) Confluence (c) Contact (d) Pastry
- _____ use caution when working near electricity.
(a) Always (b) Never (c) Rarely (d) Sometimes
- _____ is the flow of electrons around a circuit
(a) Current (b) Electricity (c) Power (d) Voltage
- _____ workers have little or no training working on or near electricity.
(a) Pipeline (b) Qualified (c) Rescue (d) Unqualified


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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

6. Electrical hazards include shock, electrical arcs and blasts, and _____ or faulty equipment
- (a) Broken (b) Double-insulated (c) Polished (d) Secure
7. Avoid working in _____ conditions
- (a) Cold (b) Dry (c) Sunny (d) Wet
8. _____ gives a stray current somewhere to go and keeps workers from becoming part of the circuit.
- (a) De-energizing (b) Energizing (c) Grounding (d) Guarding
9. Specially designed PPE for electrical work includes _____ insulating gloves, matting, blankets, and covers.
- (a) Plastic (b) Rubber (c) Steel (d) Wood.
10. _____ tools are encased in plastic and prevent the user from getting electrocuted if the tool develops a short circuit.
- (a) Corded (b) Double-insulated (c) Green colored (d) Grounded
11. _____ all electrical equipment before use.
- (a) Clean (b) Inspect (c) Organize (d) Label
12. _____ is a measurement of how much energy you are using each second.
- (a) Distance (b) Power (c) Volume (d) Weight
13. Gloves used for electrical protection must be electrically tested every...
- (a) 3months (b) 6months (c) 12months (d) Never


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14. One of the three generally recognized hazards of electrical work is ____.

- (a) Arc Flash (b) Cuts (c) Falls (d) all the above.

15. Which is the "Can't Let Go" range of current flow?

- (a) 3-9 ma (b) 9-25 ma (c) 25-60 ma (d) 1-3 ma

16. The secondary of a current transformer must never be _____ while energized.

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- (a) Identify (b) Castigate (c) Evaluate (d) Modify

19. Work performed on an electrical system within reaching distance of energized components is _____ work

- (a) Energized (b) Essential (c) Safe (d) Unavoidable

20. What is the full form of ABC in first aid?

- (a) Anyway, Breathing, Circulation (b) Airway, Breathing, Circulation
(c) Anyway, Blood, Circulation (d) Airway, Blood, Chest


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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2021-2022 / EVEN SEMESTER

CERTIFICATE COURSE

ELECTRICAL SAFETY

Name of student: R. Aashika

18
20

Year/Sem: III / VI

AU Reg.No: 912619105001

MULTIPLE CHOICE QUESTION (20 X1 =20 MARKS)

1. One of the main functions of personal protective grounds is to provide a _____ impedance path for a short circuit.

- (a) High (b) Low (c) Smooth (d) Adequate

2. The Prohibited Approach Boundary is considered the same as making _____

- (a) Insulation (b) Confluence (c) Contact (d) Pastry

3. _____ use caution when working near electricity.

- (a) Always (b) Never (c) Rarely (d) Sometimes

4. _____ is the flow of electrons around a circuit

- (a) Current (b) Electricity (c) Power (d) Voltage

5. _____ workers have little or no training working on or near electricity.

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

6. Electrical hazards include shock, electrical arcs and blasts, and _____ or faulty equipment
- (a) Broken (b) Double-insulated (c) Polished (d) Secure
7. Avoid working in _____ conditions
- (a) Cold (b) Dry (c) Sunny (d) Wet
8. _____ gives a stray current somewhere to go and keeps workers from becoming part of the circuit.
- (a) De-energizing (b) Energizing (c) Grounding (d) Guarding
9. Specially designed PPE for electrical work includes _____ insulating gloves, matting, blankets, and covers.
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2021-2022 / EVEN SEMESTER

CERTIFICATE COURSE

ELECTRICAL SAFETY

Name of student: G. Aarthi

18
20

Year/Sem: IV / VIII

AU Reg.No: 912618105001

MULTIPLE CHOICE QUESTION (20 X1 =20 MARKS)

- One of the main functions of personal protective grounds is to provide a _____ impedance path for a short circuit.
(a) High (b) Low (c) Smooth (d) Adequate
- The Prohibited Approach Boundary is considered the same as making _____
(a) Insulation (b) Confluence (c) Contact (d) Pastry
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9. Specially designed PPE for electrical work includes ____ insulating gloves, matting, blankets, and covers.
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- (a) Distance (b) Power (c) Volume (d) Weight
13. Gloves used for electrical protection must be electrically tested every...
- (a) 3months (b) 6months (c) 12months (d) Never


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14. One of the three generally recognized hazards of electrical work is ____.
- (a) Arc Flash (b) Cuts (c) Falls (d) all the above.
15. Which is the "Can't Let Go" range of current flow?
- (a) 3-9 ma (b) 9-25 ma (c) 25-60 ma (d) 1-3 ma
16. The secondary of a current transformer must never be _____ while energized.
- (a) Grounded (b) Shortened (c) Examined (d) Opened
17. The minimum allowable work space around electrical equipment is _____ inches deep.
- (a) 36 (b) 48 (c) 24 (d) 30
18. A Safety Electrical One Line Diagram should be used to _____ all sources of electrical energy.
- (a) Identify (b) Castigate (c) Evaluate (d) Modify
19. Work performed on an electrical system within reaching distance of energized components is _____ work
- (a) Energized (b) Essential (c) Safe (d) Unavoidable
20. What is the full form of ABC in first aid?
- (a) Anyway, Breathing, Circulation (b) Airway, Breathing, Circulation
- (c) Anyway, Blood, Circulation (d) Airway, Blood, Chest

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ACADEMIC YEAR 2021-2022 / EVEN SEMESTER
MARK SHEET FOR CERTIFICATE COURSE-ELECTRICAL SAFETY

S.NO	REG. NO	NAME	YEAR/ SEM	ATTENDANCE 50% (A)		VAC –MCQ 50%(B)		OVERALL MARK (A+B)
				No of Session Attended	MARKS	No of Correct Answer	MARKS	
1	912620105001	KAYALVIZHI K	II & IV	10	100	18	90	95
2	912620105002	RAMADEVI S	II & IV	9	90	20	100	88
3	912620105003	SRINANTHANA S	II & IV	10	100	18	90	95
4	912620105302	KAVIYA R	II & IV	10	100	19	95	98
5	912620105303	KOPPERUNDEVI S	II & IV	10	100	17	85	93
6	912620105304	NARMATHA DEVI K	II & IV	8	80	16	80	78
7	912620105305	SRIBHARATHI S	II & IV	10	100	15	75	88
8	912619105001	AASHIKA R	III & VI	9	90	18	90	83
9	912619105002	ABINAYA S	III & VI	10	100	19	95	98
10	912619105003	ABITHA P	III & VI	8	80	17	85	84
11	912619105004	ARTHY N	III & VI	10	100	19	95	98
12	912619105005	DEEPIKA R	III & VI	10	100	15	75	88
13	912619105007	NISHA S	III & VI	10	100	18	90	95
14	912619105008	PAVITHRA M	III & VI	10	100	19	95	98
15	912619105009	PRAGADEESHWARI A	III & VI	9	90	18	90	87


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16	912619105010	SIVARANJANI S	III & VI	10	100	17	85	93
17	912619105301	RAGAVI R	III & VI	10	100	16	80	90
18	912618105001	AARTHI G	IV & VIII	10	100	18	90	95
19	912618105002	AASHA R	IV & VIII	10	83	17	85	87
20	912618105003	AGARI S	IV & VIII	9	90	19	95	98
21	912618105004	JEEVITHA R	IV & VIII	9	90	20	100	96
22	912618105005	NISHA K	IV & VIII	8	80	15	75	79
23	912618105006	RAMANA R	IV & VIII	10	100	19	95	98
24	912618105007	SNEHA S	IV & VIII	10	100	18	90	95
25	912618105301	VINOTHINI V	IV & VIII	9	90	17	85	80


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Criteria 2

Teaching-Learning and Evaluation

350

Key Indicator- 2.3. Teaching- Learning Process (40)

2021-2022

**ELECTRICAL AND ELECTRONICS
ENGINEERING**

PARTICIPATIVE LEARNING

SYMPOSIUM AND WORKSHOP



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PARTICIPATIVE LEARNING(SYMPOSIUM, SEMINAR, WORKSHOP)

ACADEMIC YEAR 2021-2022

S.NO	REGISTER NO	NAME	YEAR/ SEM	NAME OF THE LEARNING METHOD
1	912619105001	AASHIKA R	III/V	PARTICIPATIVE LEARNING- WORKSHOP
	912619105008	PAVITHRA M		
	912619105009	PRAGADEESHWARI A		
2	912619105008	PAVITHRA M	III/VI	PARTICIPATIVE LEARNING- SYMPOSIUM
3	912618105001	AARTHI G	IV/VII	PARTICIPATIVE LEARNING- WORKSHOP
	912618105003	AGARI S		
	912618105007	SNEHA S		
	912618105004	JEEVITHA R		
4	912618105001	AARTHI G	IV/VIII	PARTICIPATIVE LEARNING- SYMPOSIUM
	912618105006	RAMANA R		
	912618105007	SNEHA S		
	912618105301	VINOTHINI V		

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has presented a paper on...DESIGN...AND...DEVELOPMENT...OF.....
...HYBRID...ELECTRIC...VEHICLES.....in the
National level technical symposium (ESHOCK-2022) organised by department
of EEE, Shanmuganathan Engineering College, Arasampatti on 3rd June 2022*

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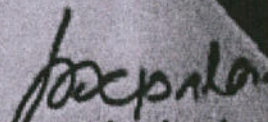
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