

SRI BHARATHI

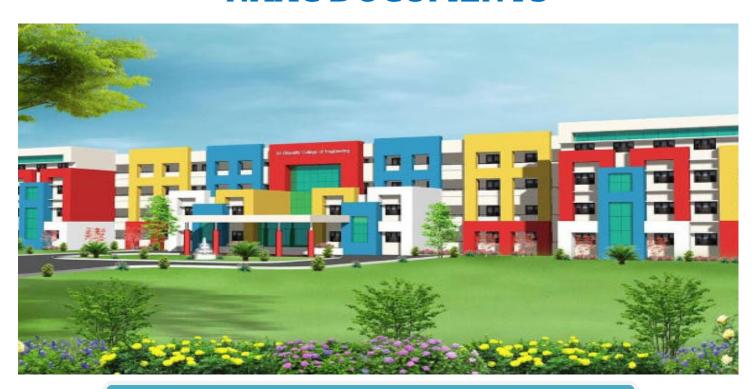
ENGINEERING COLLEGE FOR WOMEN

(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



IQAC

Internal Quality Assurance Cell

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

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

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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 VALUE ADDED COURSE



(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.

RESOURSE 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

- MOD EEE SRI BHARATHI ENGINEERING **COLLEGE FOR WOMEN** KAIKKURICHI. PUDUKKOTTAI - 622 303.

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

PRINCIPAL

SRI BHARATHI ENGINEERING **COLLEGE FOR WOMEN**

Kaikkurchi - 622 303 Pudukkottai Dt.



(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

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 H	OURS

VAC COORDINATOR

Dr. S.THILAGAVATHIM.E.,Ph.D.,

PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurchi - 622 303, Pudukkottai Dt.

HoD/EEE

MOD EEE

MARATHI ENGINEERING

COLLEGE FOR WOMEN KAIKKURICHI,

PUDUKKOTTA! - 622 303.



(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)
KAIKKURUCHI, PUDUKKOTTAI-622 303.
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
-2 4	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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SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN KAIKKURICHI,

PUDUKKOTTAI - 622 303.

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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		09.08.21		10.08.21		11.08.21		12.08.21		13.08.21		14.08.21		NO. OF	SIGN OF
5.NU	REG. NO	NAME	YEAR/ SEM	F.N	A.N	CLASS ATTENDED	STUDENT										
1	912620105001	KAYALVIZHI K	II & III	1	1	1	1	1	/	1	1	1	/	1	/	12	k kayanel
2	912620105002	RAMADEVI S	II & III	1	/	1	/	/	1	1	/	1	1	1	1	12	Saluel.
3	912620105003	SRINANTHANA S	II & III	1	1	1	/	1	1	1	1	1	/	/	/	10	& Sri Day
4	912620105301	KALPANA T	II & III	a	a	1	1	1	1	1	1	/	/	1	a	09	R. Kalpa
5	912620105302	KAVIYA R	II & III	1	1	1	/	j	/	1	/	/	/	1	/	10	R. Havilyo
6	912620105303	KOPPERUNDEVI S	II & III	1	1	1	/	a	a	1	/	/	a	/	/	09	S. feet.
7	912620105304	NARMATHA DEVI K	11 & 111	./	1	1	1	/	/	1	/	/	1.	/	1	12	R. Warmel

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

	012620105205	CDIDIIADATIII C	11.0.111	1		_	1	1									
8	912620105305	SRIBHARATHI S	11 & 111	a	a	1	1	1	1	1	1	1	1	1	1	10	S. SriBhon
9	912619105001	AASHIKA R	III & IV	1	/	1	/	1	1	,	,	1	1	,	1	12	-
10	912619105002	ABINAYA S	III & IV	1	/	1	1	a	a	,	1	/	1	,	,	10	R. Ashike
11	912619105003	ABITHA P	III & IV	1	/	/	1	1	1	,	,	,	1	/	,		P. Abitha
12	912619105004	ARTHY N	III & IV	/	1	1	1	1	1	1		1	1	/	,	12	19. stothy
13	912619105005	DEEPIKA R	III & IV	/	1	1	1	1	,	1	a	,	/	a		11	() A - 20)
14	912619105006	KOGULA PRIYA R	III & IV	1	1	1	/	1	1	,		1	/	1	a	10	W Steeler
15	912619105007	NISHA S	III & IV	1	1	1	1	1	1	1	/	1	/	/	,	12	D. Kogula Buy
16	912619105008	PAVITHRA M	III & IV	a	a	1	/	1	1	1	1	1	/	/	/	12	S. Nishae M. Reesel
17	912619105009	PRAGADEESHWARI A	III & IV	1	1	1	1	1	a	1	/	1	1	1	1	10	A Pragade Shin
18	912619105010	SIVARANJANI S	III & IV	1	1	1	1	1	1	a	a	1	1	,	1	11	S. Suvagary ay
19	912619105301	RAGAVI R	III & IV	1	1	1	1	1	,	,	1	1	1	1	/	10	R. Ragari
20	912618105001	AARTHI G	IV &VII	/	1	1	/	1	1	1	/	1	1	,	1	12	0
21	912618105002	AASHA R	IV &VII	/	1	/	/	a	a	,	a	1	1	,	/	12	1 V - VOLA
22	912618105003	AGARI S	IV &VII	1	a	1	/	1	1	1	1	1	,	/	,	09	R. Aasha
23	912618105004	JEEVITHA R	IV &VII	1	1	a	a	1	1	/	/	1	/	/	/	10	Diagram)

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

24	912618105005	NISHA K	IV &VII	1	1	/	1	1	1	/	1	1	1	/	/	12	og Dunoi
25	912618105006	RAMANA R	IV &VII	/	1	1	1	/	/	1	1	/	/	1	/	12	R. Ramana
26	912618105007	SNEHA S	IV &VII	1	1	1	1	1	1	1	1	1	1	/	1	12	S. Snota
27	912618105301	VINOTHINI V	IV &VII	a	a	1	1	1	1	1	1	1	1	1	1	10	V. V39

VAC CO ORDINATOR

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SRI BHARATHI ENGINEERING

COLLEGE FOR WOMEN KAIKKURICHI,

PUDUKKOTTAI - 622 303.

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

SRI BHARATHI ENGINEERING

COLLEGE FOR WOMEN Kaikkurchi - 622 303, Pudukkottai Dt.

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25) KAIKKURICHI, PUDUKKOTTAI, TAMIL NADU - 622 303, INDIA

Report on Value Added Course

Title:

ENERGY AUDITING ON DOMESTIC APLLICATION

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

COLLEGE FOR WOMEN KAIKKURICHI.

PUDUKKOTTAI - 622 303.

TRI BHARATHI ENGINEERING **COLLEGE FOR WOMEN** KAIKKURICHI - 622 303.

PUDUKKOTTAI DISTRICT

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



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.,

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. 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.,



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. 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.THILAGAVATHEM.E., Ph.D.,

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN Kaikkurchi - 622 303, Pudukkottai Dt. PRINCIPAL

SBECW



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)	11 ~
Non contact speed measurements can be can	rried out by	tho
(a) Tachometer (b) Stroboscope (c) Oscilloscop	c (a) Odometer	HILAGAVATHI M.E.,Ph. PRINCIPAL BHARATHI ENGINEERING
2. Non contact flow measurement can be carried	1 1	OLLEGE FOR WOMEN urchi - 622 303, Pudukkoitai Dt.
(a) Orifice meter (b) Turbine flow meter	(c) Ultrasonic flow meter	
3. Name the one instrument used to measure CO	02 from boilers stack is	
(a) Infrared thermometer (b) Fyrite	(c) Anemometer	(d) Pitot tube
4. The percentage of energy saved at the current use, is called	t rate of use, compared to the	e reference year rate of
(a) Energy Utilization (b) Energy Performance	ee (c) Energy Efficiency	(d) None
5. The objective of energy management include	es	
(a) Minimizing energy costs(c) Minimizing environmental degradation	(b) minimizing waste(d) all the above.	
6. The various types of the instruments, which re	equires during audit need to	be
(a) easy to carry (b) easy to operate	(c) inexpensive (d)	all (a) to (c)

	mong the following choices for fi		
(a) LPG for soft coke	(b) coal with rice husk (c) natural	gas for fertilizer plan	t (d) LDO with LSHS.
8. The tool used for per Energy management a	erformance assessment and logica nd audit is	l evaluation of avenue	s for improvement in
(a) Fuel substitution	(b) Monitoring and verification	(c) Energy pricing	(d) Bench marking
9. An energy policy do	pes not include		
(a) Target energy cons(c) Declaration of top	sumption reduction management commitment		duction projection d for reduction.
10. Indian per capita e	nergy consumption is of the	world average.	
(a) 4% (b) 1% (c) 20%	(d) 10%	
11. The judicious and positions". This can be	effective use of energy to maximi the definition of:	ze profits and enhance	e competitive
(a) Energy conservation	on (b) Energy management	(c) Energy policy	(d) Energy Audi
12. Which instrument	is used to monitor O2, CO in flue	gas? (EA)	
(a) Combustion analyz	zer (b) Power analyzer	(c) Pyrometer	(d) Fyrite
13. Air velocity in duc	ets 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 (c) Informal interview	with plant personnel	(b) Walk through a (d) All the above.	udit
	rost on cooling coils in a refrigera		
(a) improves C.O.P. of (c)reduces power cons		(b) increases heat(d) Increases power	
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- 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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Kaikkurchi - 622 303, Pudukkottai Dt.



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

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Kaikkurchi - 622 303, Pudukkottai Dt.



ACADEMIC YEAR 2021-2022 / ODD SEMESTER

VALUE ADDED COURSE

ENERGY AUDITING IN DOMESTIC APPLICATION

Name of student: K. Kayalvizhi	Year/Sem: 11 111
AU Reg.No: 912620105001	
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 (6) Fyrite (c) Anemometer	(d) Pitot tube
4. The percentage of energy saved at the current rate of use, compared to the use, is called	e reference year rate of
(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	

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

7.	Find out the 'odd'	among the following	choices for fuel	substitution fo	or industrial	sector of India.
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7. I ma out the oud amon	ig the following choices for fue	of substitution for mu	ustrial sector of fildia.
(a) LPG for soft coke (b)	coal with rice husk (c) natural g	gas for fertilizer plan	t (d) LDO with LSHS.
8. The tool used for perfor Energy management and a	mance assessment and logical udit is	evaluation of avenue	s for improvement in
(a) Fuel substitution (b)	Monitoring and verification	(c) Energy pricing	(d) Bench marking
9. An energy policy does r	not include		
(a) Target energy consumption (c) Declaration of top mar	ption reduction nagement commitment		duction projection d for reduction.
10. Indian per capita energ	y consumption is of the	world average.	
(a) 4% (b) 1%	(c) 20%	X (d) 10%	
11. The judicious and effect positions". This can be the	ctive use of energy to maximized definition of:	e profits and enhance	e competitive
(a) Energy conservation	(b) Energy management	(c) Energy policy	(d) Energy Audit
12. Which instrument is us	sed to monitor O2, CO in flue g	gas? (EA)	
Combustion analyzer	(b) Power analyzer	(c) Pyrometer	(d) Fyrite
13. Air velocity in ducts ca	an be measured by using a	nd manometer	
(a) Orifice meter	(b) Borden gauge	Pitot tube	(d) Anemometer
14. Steps involved in pre-	audit phase are		
(a) Plan and organize (c) Informal interview with	n plant personnel	(b) Walk through a d) All the above.	udit
15. The formation of frost (a) improves C.O.P. of the (c)reduces power consump	-	or (b) increases heat (d) Increases power	

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

16. Energy Star Label ra	ating scheme for Fluores	cent lamp	is based on	· ×
	100, 2000 and 3500 hour depreciation at 2000 hour			Lamp Life in terms of endering Index
17. The various types of	f the instruments, which	requires d	luring audit	need to be
(a) easy to carry	(b) easy to operate	(c) inex	pensive	(d) all (a) to (c)
18. Lux meter is used to	measure (EA)			
@Illumination level		(b) Sou	and intensity	and illumination level
(c) Harmonics		(d) Spe	ed	
19. CO2 measurement of	of Fyrite kit is based on (I	EA)		
(a) Weight basis (dry)(c) Weight basis (wet)			lume basis (d ume basis (v	• /
20. Preliminary energy	audit is a relatively quick	exercise	to	
(a) Offers the most accu	rate estimate of energy s	avings an	nd cost	
(b) Includes detailed en	ergy cost saving calculat	ions and	project cost.	

(E) 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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ACADEMIC YEAR 2021-2022 / ODD SEMESTER

VALUE ADDED COURSE

ENERGY AUDITING IN DOMESTIC APPLICATION

Name of student: 5 · ABINAYA	Year/Sem: 111 /Y
AU Reg.No: 912619105002	
MULTIPLE CHOICE QUESTION (20 X1 =20 MARKS)	20
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 ©Ultrasonic flow me	ter (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 use, is called	o the reference year rate of
(a) Energy Utilization (b) Energy Performance (c) Energy Efficiency	(d) None
5. The objective of energy management includes	
(a) Minimizing energy costs (b) minimizing was (c) Minimizing environmental degradation (d) all the above.	aste
6. The various types of the instruments, which requires during audit need	d to be
(a) easy to carry (b) easy to operate (c) inexpensive	(d) all (a) to (c)

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7. Find out the 'odd'	among the followin	g choices for fu	iel substitution for ind	ustrial sector of India.
(a)LPG for soft coke	e (b) coal with rice h	usk (c) natural	gas for fertilizer plant	(d) LDO with LSHS.
8. The tool used for p Energy management		nent and logical	evaluation of avenue	s for improvement in
(a) Fuel substitution	(b) Monitoring an	d verification	(c) Energy pricing	(d) Bench marking
9. An energy policy d	loes not include			
(a) Target energy con (c) Declaration of top				luction projection d for reduction.
10. Indian per capita	energy consumption	is of the	world average.	
(a) 4% (l	b) 1%	(c) 20%	(d) 10%	X
11. The judicious and positions". This can b		ergy to maximi	ze profits and enhance	competitive
(a) Energy conservati	on (b) Energ	y management	(c) Energy policy	(d) Energy Audit
12. Which instrument	is used to monitor	O2, CO in flue	gas? (EA)	
(a) Combustion analy	zer (b) Power	analyzer	(c) Pyrometer	(d) Fyrite
13. Air velocity in due	cts can be measured	by usinga	and manometer	
(a) Orifice meter	(b) Border	n gauge	© Pitot tube	(d) Anemometer
14. Steps involved in	pre-audit phase are			
(a) Plan and organize (c) Informal interview		el	(b) Walk through at all the above.	udit
15. The formation of (a) improves C.O.P. o (c)reduces power cons	of the system	s in a refrigera	tor (b) increases heat (d) Increases power	

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10.	LHCIEV 3	lai Label	1211119	Scheme	101 111	ioresceni	iamin is	Dased	OH.

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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(a) easy to carry

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ACADEMIC YEAR 2021-2022 / ODD SEMESTER

VALUE ADDED COURSE

ENERGY AUDITING IN DOMESTIC APPLICATION

Name of student: R. JEE. VITHA		Year/Sem: [V / VI]
AU Reg.No: 912618105004	£ .	
MULTIPLE CHOICE QUESTION (20 X1 =20	MARKS)	
1. Non contact speed measurements can be carrie	d out by	
(a) Tachometer (b) Stroboscope (c) Oscilloscope (d	d) Odometer	
2. Non contact flow measurement can be carried or	ut by	
(a) Orifice 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)	e) Anemometer	(d) Pitot tube
4. The percentage of energy saved at the current ra use, is called	te of use, compared to the	e reference year rate of
(a) Energy Utilization (6) Energy Performance (c) Energy Efficiency	(d) None
5. The objective of energy management includes		
(a) Minimizing energy costs (c) Minimizing environmental degradation	(d) all the above.	×
6. The various types of the instruments, which requ	ires during audit need to	be

Dr. S.THILAGAVATHIM.E., Ph.D.,

(c) inexpensive

(d) all (a) to (c)

(b) easy to operate

	ong the following choices for fu		
(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 Energy management and	ormance assessment and logical audit is	evaluation of avenue	s for improvement in
(a) Fuel substitution (l	o) Monitoring and verification	(c) Energy pricing	Bench marking
9. An energy policy does	s not include		
(a) Target energy consum (c) Declaration of top m	mption reduction anagement commitment		duction projection d for reduction.
10. Indian per capita ene	rgy consumption is of the	world average.	
(a) 4% (b) 1	% (c) 20%	(d) 10%	X
11. The judicious and efficient positions". This can be the	fective use of energy to maximine definition of:	ze profits and enhance	competitive
(a) Energy conservation	(6) Energy management	(c) Energy policy	(d) Energy Audit
12. Which instrument is	used to monitor O2, CO in flue	gas? (EA)	
(a) Combustion analyzer	(6) Power analyzer	(c) Pyrometer	(d) Fyrite
13. Air velocity in ducts	can be measured by usinga	and manometer	
(a) Orifice meter	(b) Borden gauge	©Pitot tube	(d) Anemometer
14. Steps involved in pro	e-audit phase are		
(a) Plan and organize (c) Informal interview w	ith plant personnel	(b) Walk through a (d) All the above.	udit
15. The formation of from (a) improves C.O.P. of the (c) reduces power consumption of the		(b) increases heat	

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16. Energy Star Label rating scheme for Fluoresc	ent lamp	is based on:	X
(a) Lumens per Watt at 100, 2000 and 3500 hour burring hours (c)Lumen depreciation at 2000 hours		(b) End of Lan (d)Color Rende	np Life in terms of ering Index
17. The various types of the instruments, which r	equires d	uring audit need	d to be
(a) easy to carry (b) easy to operate	(c) inexp	ensive	(d) all (a) to (c)
18. Lux meter is used to measure (EA)			
a)Illumination level	(b) Sou	nd intensity and	d illumination level
(c) Harmonics	(d) Spe	ed	
19. CO2 measurement of Fyrite kit is based on (E	EA)		
(a) Weight basis (dry)(c) Weight basis (wet)		ume basis (dry) ume basis (wet)	
20. Preliminary energy audit is a relatively quick	exercise	to	
(a) Offers the most accurate estimate of energy sa	avings an	d cost	
(b) Includes detailed energy cost saving calculat	ions and	project cost.	•
(and the easiest areas)	for attent	tion)	
(d) Provides a detailed energy project implement major energy using systems.	tation pla	n for a facility,	since it evaluates al

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2021-2022 / ODD SEMESTER

MARK SHEET FOR VALUE ADDED COURSE ENERGY AUDITING IN DOMESTIC APPLICATION

S.N	REG. NO	NAME	YEAR/ SEM	ATTENDACE 50% (A)		VAC –MCQ 50%(B)		OVERALL MARK
0				No of Session Attended	MARKS	No of Correct Answer	MARKS	(A+B)
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	AGARI S	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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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.

RESOURSE PERSON DETAILS:

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

Dr. S.THILAGAVATHEM.E., Ph.D.,
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COLLEGE FOR WOMEN
KAIKKURICHI,
PUDUKKOTTAI - 622 3...

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 H	OURS		

COURSE COORDINATOR

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

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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	4 912620105302 KAVIYA R		II & IV					
5	912620105303	KOPPERUNDEVI S	II & IV					
6	912620105304	NARMATHA DEVI K	II & IV					
7	912620105305	II & IV						
8 .	912619105001 AASHIKA R		III & VI					
9	912619105002	ABINAYA S	III & VI					
10	912619105003	ABITHA P	III & VI					
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			

COURSE COORDINATOR

HoD/EEE

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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	NAME	NAME		07.	03.22	08.0	03.22	09.0	03.22	10.0	03.22	11.0	3.22	NO. OF	SIGN OF
	REG. NO	NAME	YEAR/ SEM	F.N	A.N	F.N	A.N	F.N	A.N	F.N	A.N	F.N	A.N	CLASS ATTENDED	STUDENT	
1	912620105001	KAYALVIZHI K	II & IV	1	1	1	1	/	1	1	1	1	1	10	Kkayanz	
2	912620105002	RAMADEVI S	II & IV	1	a	1	1	/	/	/	1	1	1	09	Dry.	
3	912620105003	SRINANTHANA S	II & IV	/	1	1	1	/	/	1	1	1	1	10	& Sin aud	
4	912620105302	KAVIYA R	II & IV	1	1	/	/	/	/	/	1	1	1	10	R. Waviy	
5	912620105303	KOPPERUNDEVI S	II & IV	1	1	/	/	1	/	/	1	/	1	10	S.Kot.	
6	912620105304	NARMATHA DEVI K	II & IV	a	a	/	/	1	/	/	1	1	1	08	K. Darmout	
7	912620105305	SRIBHARATHI S	II & IV	1	1	/	/	1	/	1	/	1	1	10	S.S. Bhorat	
8	912619105001	AASHIKA R	III & VI	1	/	1	/	1	a	1	/	/	1	09	R. Aashi	
9	912619105002	ABINAYA S	III & VI	1	1	1	/	1	/	1	/	/	/	10	S. Abi nay	

Dr. S.THILAGAVATHI M.E. PILL.

10	912619105003	ABITHA P	III & VI	1	1	1	,		a		,	1	/	40	
	010610105004	ADTIVA		1	/	/	/	a	u	/	/	1	/	08	PAbitha
11	912619105004	ARTHY N	III & VI	1	1	1	1	1	1	/	/	1	1	10	10. Arthy
12	912619105005	DEEPIKA R	III & VI	1	1	/	1	1	1	1	1	1	/	10	Q. Dogw
13	912619105007	NISHA S	III & VI	1	1	1	1	1	/	1	1	1	1	10	5. Nishae
14	912619105008	PAVITHRA M	III & VI	1	1	1	/	1	/	1	1	1	1	10	M. Reco
15	912619105009	PRAGADEESHWARI A	III & VI	1	1.	1	/	1	/	1	/	1	a	09	APragadee hwarf
16	912619105010	SIVARANJANI S	III & VI	1	1	1	1	1	/	1	1	1	1	10	S. Siwa rang a
17	912619105301	RAGAVI R	III & VI	1	1	/	1	1	/	1	1	1	1	10	R. Ragari
18	912618105001	AARTHI G	IV & VIII	1	/	1	1	1	/	1	1	1	/	10	Gr. Authi
19	912618105002	AASHA R	IV & VIII	1	/	/	1	/	/	/	/	1	/	10	R. Aashaa
20	912618105003	AGARI S	IV & VIII	1	1	/	1	/	/	/	a	1	/	09	S. Agrogi
21	912618105004	JEEVITHA-R	IV & VIII	1	/	/	a	/	1	1	1	1	/	09	Rieethas
22	912618105005	NISHA K	IV & VIII	1	1	1	1	a	a	/	/	1	/	08	J. Duchej
23	912618105006	RAMANA R	IV & VIII	1	/	/	1	/	/	/	1	1	1	10	R. Ramana
24	912618105007	SNEHA S	IV & VIII	1	/	1	/	1	1	1	1	1	1	10	S. Sneha
25	912618105301	VINOTHINI V	IV & VIII	1	/	1	1	1	/	1	1	1	a	09	V. VIB

COURSE COORDINATOR

Dr. S.THILAGAVATHI M.E., Ph.D., PRINCIPAL SRI BHARATHI ENGINEERING

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HOB/EEF

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN KAIKKURICHI, PUDUKKOTTAI - 622 303,

(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 <u>25</u> 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 EFF

BH BHARATHI ENGINEETING

COLLEGE FOR WOMEN KAIKKURICHI,

PUDUKKOTTAI - 622 303.

Principal

PRINCIPAL

SRI BHARATHI ENGINEERI COLLEGE FOR WOMEN

KAIKKURICHI - 622 303. PUDUKKOTTAI DISTRICT

Dr. S.THILAGAVATHTM.E.,Ph.D.,

PRINCIPAL





(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. <u>KAYALVIZHI K (912620105001)</u>, <u>II year</u> has successfully completed the Certificate Course on <u>""ELECTRICAL SAFETY"</u> held at the college from 7th March 2022 to 11th March 2022 (5 Days).

COURSE COORDINATOR

HOD/EEE

PRINCIPAL

Dr. S.THILAGAVATHIM.E., Ph. 1).

PRINCIPAL





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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

PRINCIPAL

SRI BHARATHI ENGINEERING

COLLEGE FOR WOMEN

(aikkurchi - 622 303, Pudukkottai Dt.









(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. AARTHI G (912618105001), IV year has successfully completed the Certificate Course on "ELECTRICAL SAFETY" held at the college from 7th March 2022 llth March 2022 (5 Days).

COURSE COORDINATOR

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 studen	t:		Year/Sem:
AU Reg.No:		,	
MULTIPLE CI	HOICE QUESTION (20	0 X1 =20 MARKS)	
One of the m for a short cir	ain functions of persona reuit.	I protective grounds is to	provide a impedance path
(a) High	(b) Low	(c) Smooth	(d) Adequate
2. The Prohibite	ed Approach Boundary is	s considered the same as	making
(a) Insulation	(b) Confluence	(c) Contact	(d) Pastry
3 use car	ution when working near	electricity.	
(a) Always	(b) Never	(c) Rarely	(d) Sometimes
4 is the flo	w of electrons around a	circuit	
(a) Current	(b) Electricity	(c) Power	(d)Voltage
5 workers	have little or no training	working on or near elect	ricity.
(a) Pipeline	(b) Qualified	(c) Rescue	(d) Unqualified

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

6. Electrical hazards inc	lude shock, electrical arcs and bla	sts, andor faulty equip	oment
(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 cur	rent somewhere to go and keeps v	workers from becoming part	of the circuit.
(a) De-energizing	(b) Energizing	(c) Grounding	(d) Guarding
9. Specially designed PP covers.	E for electrical work includes	insulating gloves, mattin	g, blankets, and
(a) Plastic	(b) Rubber	(c) Steel	(d) Wood.
10 tools are encas develops a short circuit.	ed in plastic and prevent the user	from getting electrocuted if	the tool
(a) Corded	(b) Double-insulated	(c) Green colored	(d) Grounded
11 all electrical e	quipment before use.		
(a) Clean	(b) Inspect	(c) Organize	(d) Label
12 is a measureme	nt of how much energy you are us	sing each second.	
(a) Distance	(b) Power	(c) Volume	(d) Weight
13. Gloves used for elect	rical protection must be electrical	ly tested every	
(a) 3months	(b) 6months	(c) 12months	(d) Never

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

14. One of the three g	enerally recognized hazards of	f electrical work is	_
(a) Arc Flash 15. Which is the "Can	(b) Cuts 't Let Go" range of current flo	(c) Falls w?	(d) all the above.
(a) 3-9 ma	(b) 9-25 ma	(c) 25-60 ma	(d) 1-3 ma
16. The secondary of	ver be	while energized.	
(a) Grounded	(b) Shortened	(c) Examined	(d) Opened
17. The minimum allo	inches deep.		
(a) 36	(b) 48	(c) 24	(d) 30
18. A Safety Electrical electrical energy.	One Line Diagram should be	used to	all sources of
		(c) Evaluate	all sources of (d) Modify
electrical energy. (a) Identify		(c) Evaluate	(d) Modify
electrical energy. (a) Identify 19. Work performed or	(b) Castigate n an electrical system within re	(c) Evaluate	(d) Modify
electrical energy. (a) Identify 19. Work performed or iswork	(b) Castigate n an electrical system within re (b) Essential	(c) Evaluate eaching distance of e	(d) Modify nergized components
electrical energy. (a) Identify 19. Work performed or iswork (a) Energized	(b) Castigate n an electrical system within re (b) Essential rm of ABC in first aid?	(c) Evaluate eaching distance of eaching (c) Safe	(d) Modify nergized components

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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	С	3	a	4	b	5	d
6	a	7	đ	8	с	9	b	10	b
11	b	12	b	13	b	14	a	15	b
16	d	17	d	18	a	19	a	20	b

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



Name of student: K. Kayalvizhi

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2021-2022 / EVEN SEMESTER

CERTIFICATE COURSE

ELECTRICAL SAFETY

Year/Sem: 11 / 1V

AU Reg.No: 912,6	2010500L	20				
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	(6) Low	(c) Smooth	(d) Adequate			
2. The Prohibited A	pproach Boundary is co	onsidered the same as making				
(a) Insulation	(b) Confluence	(Contact	(d) Pastry			
3 use caution	n when working near el	ectricity.				
a) Always	(b) Never	(c) Rarely	(d) Sometimes			
4 is the flow o	f electrons around a cir	cuit				
a) Current	Electricity	(c) Power	(d)Voltage			
5 workers have	e little or no training we	orking 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 inc	clude shock, electrical arcs and bla	asts, andor faulty equi	pment
	(b) Double-insulated		(d) Secure
7. Avoid working in	conditions		
(a) Cold	(b) Dry	(c) Sunny	(d) Wet
8 gives a stray cur	rrent somewhere to go and keeps	workers from becoming part	of the circuit.
(a) De-energizing	(b) Energizing	© Grounding	(d) Guarding
9. Specially designed PF covers.	PE for electrical work includes	insulating gloves, mattin	g, blankets, and
(a) Plastic	(b) Rubber	(c) Steel	(d) Wood.
10 tools are encas develops a short circuit.	sed in plastic and prevent the user	from getting electrocuted if	the tool
(a) Corded	(b) Double-insulated	(c) Green colored	(d) Grounded
11 all electrical e	equipment before use.		
(a) Clean	(f) Inspect	(c) Organize	(d) Label
12 is a measureme	ent of how much energy you are us	sing each second.	
(a) Distance	(b) Power	(c) Volume	(d) Weight
13. Gloves used for elect	trical protection must be electrical	ly tested every	
(a) 3months	(b) 6months	© 12months	(d) Never
	- CHILLIA CALUATE	TIME DED	

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

14. One of the three generally recognized hazards of electrical work is					
(a) Arc Flash 15. Which is the "Can	(b) Cuts 't Let Go" range of current flo	(c) Falls w?	(d) all the above.		
(a) 3-9 ma	69-25 ma	(c) 25-60 ma	(d) 1-3 ma		
16. The secondary of	ver be w	hile energized.			
(a) Grounded	(b) Shortened	(c) Examined	(d) Opened		
17. The minimum allo	trical equipment is	inches deep.			
(a) 36	(b) 48	(c) 24	(d) 30		
18. A Safety Electrical One Line Diagram should be used toelectrical energy.			_ all sources of		
(a) Identify	(b) Castigate	(c) Evaluate	(d) Modify		
19. Work performed on an electrical system within reaching distance of energized components iswork					
(a) Energized	(b) Essential	(c) Safe	(d) Unavoidable		
20. What is the full for	rm of ABC in first aid?				
(a)Anyway, Breathing	(a) Anyway, Breathing, Circulation				
	, Circulation	(b) Airway, Breathi	ng, Circulation		

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



Name of student: R. Aashi Ka

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2021-2022 / EVEN SEMESTER

CERTIFICATE COURSE

ELECTRICAL SAFETY

Year/Sem: III VI

AU Reg	g.No: 912	619105001	20				
MULT	MULTIPLE CHOICE QUESTION (20 X1 =20 MARKS)						
l. One	. One of the main functions of personal protective grounds is to provide a impedance path for a short circuit.						
(a) High	1	(6) Low	(c) Smooth	(d) Adequate			
2. The	Prohibited A	pproach Boundary is co	onsidered the same as making				
(a) Insu	lation	(b) Confluence	© Contact	(d) Pastry			
3	_ use caution	n when working near el	ectricity.				
a) Alwa	ays	(b) Never	(c) Rarely	(d) Sometimes			
l	is the flow o	f electrons around a circ	cuit				
a) Curr	ent	(6) Electricity	(c) Power	(d)Voltage			
5	workers have	e little or no training wo	orking on or near electricity.				
a) Pipe	line	(b) Qualified	(c) Rescue	(d) Unqualified			

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

			7
6. Electrical hazards inc	lude shock, electrical arcs and bla	,	pment
(a) Broken	(b) Double-insulated	© Polished	(d) Secure
7. Avoid working in	conditions		
(a) Cold	(b) Dry	(c) Sunny	(d) Wet
8 gives a stray cur	rent somewhere to go and keeps	workers from becoming part	of the circuit.
(a) De-energizing	(b) Energizing	© Grounding	(d) Guarding
Specially designed PF covers.	PE for electrical work includes	insulating gloves, mattin	g, blankets, and
(a) Plastic	(b) Rubber	(c) Steel	(d) Wood.
10 tools are encas develops a short circuit.	sed in plastic and prevent the user	from getting electrocuted if	the tool
(a) Corded	(b) Double-insulated	(c) Green colored	(d) Grounded
11 all electrical e	quipment before use.		
(a) Clean	(b) Inspect	(c) Organize	(d) Label
12 is a measureme	nt of how much energy you are u	sing each second.	
(a) Distance	(b) Power	(c) Volume	(d) Weight
13. Gloves used for elect	rical protection must be electrical	ly tested every	
(a) 3months	(b) 6months	© 12months	(d) Never
		-)	

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

14. One of the three generally recognized hazards of electrical work is					
Arc Flash 15. Which is the "Can	(b) Cuts 't Let Go" range of current flo		(d) all the above.		
(a) 3-9 ma	6 9-25 ma	(c) 25-60 ma	(d) 1-3 ma		
16. The secondary of a current transformer must never be while ener					
(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 electrical energy.	used to	_all sources of			
(a) Identify	(b) Castigate	(c) Evaluate	(d) Modify		
19. Work performed on an electrical system within reaching distance of energized components iswork					
(a) Energized	(b) Essential	(c) Safe	(d) Unavoidable		
20. What is the full form of ABC in first aid?					
20. What is the full for		(0) 64116	(u) Chavoldable		
20. What is the full for(a) Anyway, Breathing,	rm of ABC in first aid?	(b) Airway, Breathing			

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



Name of student: G. Aarthi

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2021-2022 / EVEN SEMESTER

CERTIFICATE COURSE

ELECTRICAL SAFETY

Year/Sem: IV / VIII

AU Reg.No: 9126	18105001	20				
MULTIPLE CHOICE QUESTION (20 X1 =20 MARKS)						
One of the main for a short circuit.	 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 Ap	oproach Boundary is co	onsidered the same as making				
(a) Insulation	© Confluence	(c) Contact	(d) Pastry			
3 use caution	when working near ele	ectricity.				
(a) Always	(b) Never	(c) Rarely	(d) Sometimes			
4 is the flow of	f electrons around a circ	cuit				
(a) Current	(6) Electricity	(c) Power	(d)Voltage			
5 workers have	5 workers have little or no training working on or near electricity.					
(a) Pipeline	(b) Qualified	(c) Rescue	(d) Unqualified			
		HM				

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

6. Electrical hazards inc	lude shock, elect	rical arcs and bla	sts, andor faulty equi	pment
Broken	(b) Double-inst	ulated	(c) Polished	(d) Secure
7. Avoid working in	conditions			
(a) Cold	(b) Dry		(c) Sunny	Wet
8 gives a stray cur	rrent somewhere	to go and keeps	workers from becoming par	t of the circuit.
(a) De-energizing	(b) Energizing		© Grounding	(d) Guarding
9. Specially designed Pl covers.	PE for electrical	work includes	insulating gloves, matti	ng, blankets, and
(a) Plastic	(b) Rubber	X	© Steel	(d) Wood.
10 tools are enca develops a short circuit.		d prevent the user	from getting electrocuted in	f the tool
(a) Corded	(b)Double-ins	sulated	(c) Green colored	(d) Grounded
11 all electrical	equipment before	e use.		
(a) Clean	(b) Inspect		(c) Organize	(d) Label
12 is a measurem	ent of how much	energy you are u	using each second.	
(a) Distance	(b) Power		(c) Volume	(d) Weight
13. Gloves used for elec	ctrical protection	must be electrica	ally tested every	
(a) 3months	(b) 6months	SRI BHARA	(c) 12months AVATHI M.E.,Ph.D., RINCIPAL THI ENGINEERING E FOR WOMEN 22 303, Pudukkottai Dt.	(d) Never



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

14. One of the three generally recognized hazards of electrical work is							
 Arc Flash15. Which is the "Can	(b) Cuts 't Let Go" range of current flo	(c) Falls w?	(d) all the above.				
(a) 3-9 ma	6) 9-25 ma	(c) 25-60 ma	(d) 1-3 ma				
16. The secondary of	ver be	while energized.					
(a) Grounded	(b) Shortened	(c) Examined	(d) Opened				
17. The minimum allo	trical equipment is _	inches deep.					
(a) 36	(b) 48	(c) 24	d 30				
18. A Safety Electrical	all sources of						
electrical energy.	one Diagram should be	used to	all sources of				
	*	(c) Evaluate					
a Identify	*	(c) Evaluate	(d) Modify				
a Identify19. Work performed or	(b) Castigate n an electrical system within re	(c) Evaluate	(d) Modify				
a Identify 19. Work performed of iswork	(b) Castigate n an electrical system within re (b) Essential	(c) Evaluate eaching distance of eaching	(d) Modify nergized components				
a Identify 19. Work performed or iswork a Energized	(b) Castigate n an electrical system within re (b) Essential rm of ABC in first aid?	(c) Evaluate eaching distance of eaching distance of eaching (c) Safe	(d) Modify nergized components				

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

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN (Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25) Kaikkurichi, Pudukkottai- 622 303. DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

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

S.NO	S.NO REG. NO	NAME	YEAR/ SEM	ATTENDACE 50% (A)		VAC –MCQ 50%(B)		OVERALL
				SEM	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

COURSE COORDINATOR

HoD/EEE

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PUDUKKOTTAI - 621 303.

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

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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



(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)
Kaikkurichi, Pudukkottai, Tamilnadu – 622 303, India
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
PARTICIPATIVE LEARNING(SYMPOSIUM, SEMINAR, WORKSHOP)

ACADEMIC YEAR 2021-2022

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

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SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

KAIKKURICHI,

PUDUKKOTTAI - 622 303.

Dr. S.THILAGAVATHEM.E., Ph.D.,

PRINCIPAL







Autonomous-Affiliated to Anna University DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

THREE DAYS NATIONAL LEVEL WORKSHOP ON "CENTROID OF ENGINEERING IN AI & ML"

Certificate of Participation

This certificate is presented to

AASHIKA R

for participating in the Three Days National Level Workshop on "CENTROID OF ENGINEERING IN Al & ML organized by the Department of Electronics and Communication Engineering from 12-08-2021 to 14-08-2021

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

PRINCIPAL

SRI BHARATHI ENGINEERING

Dr. R.GAYATHRI

Associate Professor - ECE

Dr.S.MUTHUKUMAR HOD - ECE

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THREE DAYS NATIONAL LEVEL WORKSHOP ON "CENTROID OF ENGINEERING IN AI & ML"

Certificate of Participation

This certificate is presented to

PAVITHRA M

for participating in the Three Days National Level Workshop on "CENTROID OF ENGINEERING IN All & ML organized by the Department of Electronics and Communication Engineering from 12-08-2021 to 14-08-2021

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

SRIBHARATHI ENGINEERING

Maikkurchi - 622 303.

Dr. R.GAYATHRI Associate Professor - ECE

Dr.S.MUTHUKUMAR HOD - ECE

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

THREE DAYS NATIONAL LEVEL WORKSHOP ON "CENTROID OF ENGINEERING IN AI & ML"

Certificate of Participation

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National level technical s	symposium (ESHOCK-2022) or	rganised by department
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