



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)

2020-2021

**ELECTRICAL AND ELECTRONICS
ENGINEERING**

PARTICIPATIVE LEARNING

Activity	Number of Students attended	Page No.
Value Added Course (VAC)	54	3
Symposium, Seminar and Workshop	10	44
TOTAL STUDENTS ATTENDED	64	-



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

2020-2021

**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 2020-2021 / ODD SEMESTER

DEPARTMENT CIRCULAR

Date:20.11.2020

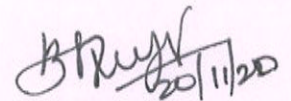
Value Added Course offered by the Department of EEE will be conducted in association with **Power Integrated Solutions PVT LTD**, Trichy for II, III, IV year students on “**ENERGY CONSUMPTION MODELLING IN ELECTRIC VEHICLES**” from 30.11.2020 to 04.12.2020 through online. Certificates will be issued to eligible participants at the end of the Course. The resource person details are shown in the following table.

RESOURCE PERSON DETAILS:

Name:	Mr.M.Madhan Kumar	Mr.K.Ram Niwas
Designation:	Founder	Senior Engineer
Company name with Address:	Power Integrated Solutions PVT LTD, #10A/3 Radhakrishna Colony, Sastri Road,Thennur,Trichy-17.	
Mail id:	<u>powerintegratedsolutions@gmail.com</u>	
Google Meet Link:	<u>https://meet.google.com/nvy-thum-mbb</u>	

Cc:

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


20/11/20

HoD/EEE

HOD EEE

**SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
KAIKKURUCHI,
PUDUKKOTTAI - 622 303.**


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

PRINCIPAL

**SRI BHARATHI ENGINEERING
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Kaikkuruchi - 622 303, Pudukkottai Dt.**



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KAIKKURUCHI, PUDUKOTTAI – 622 303
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
ACADEMIC YEAR 2020-2021/ODD SEMESTER
VALUE ADDED COURSE

ENERGY CONSUMPTION MODELLING IN ELECTRIC VEHICLES

SCHEDULE

S.NO	TOPICS	DURATION (in Hours)	DATE
1.	Basics of Electric Vehicle and its principles.	2	30.11.2020
2.	Power Electronics Converters for Electric Vehicles.	2	30.11.2020
3.	Methods of energy consumptions in conventional and electric vehicles.	2	30.11.2020
4.	Electric vehicle Architecture.	2	1.12.2020
5.	Design of motor and power converters for Electric Vehicles.	2	1.12.2020
6.	Grid integration of Electric Vehicles, Intelligent control techniques of Electric vehicles.	2	1.12.2020
7.	Batteries Overview	3	2.12.2020
8.	Characteristics of various batteries	3	2.12.2020
9.	Benefits of Electric Vehicles, Environment impacts, charging station.	3	3.12.2020
10.	Current scenarios in Electric Vehicle Technology	3	3.12.2020
11.	Mathematical modeling of an Electric vehicle.	3	4.12.2020
12.	Practical driving experience on electric vehicle	3	4.12.2020
TOTAL HOURS		30HOUR	


VAC COORDINATOR


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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
ACADEMIC YEAR 2020-2021 / ODD SEMESTER

STUDENT NAME LIST FOR VALUE ADDED COURSE

ENERGY CONSUMPTION MODELLING IN ELECTRIC VEHICLE

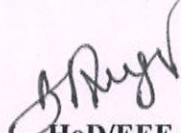
S.NO	NAME	REG.NO	YEAR & SEMESTER
1	AASHIKA R	912619105001	II & III
2	ABINAYA S	912619105002	II & III
3	ABITHA P	912619105003	II & III
4	ARTHY N	912619105004	II & III
5	DEEPIKA R	912619105005	II & III
6	KOGULA PRIYA R	912619105006	II & III
7	NISHA S	912619105007	II & III
8	PAVITHRA M	912619105008	II & III
9	PRAGADEESHWARI A	912619105009	II & III
10	SIVARANJANI S	912619105010	II & III
11	RAGAVI R	912619105301	II & III
12	AARTHI G	912618105001	III & V
13	AASHA R	912618105002	III & V
14	AGARI S	912618105003	III & V
15	JEEVITHA R	912618105004	III & V
16	NISHA K	912618105005	III & V
17	RAMANA R	912618105006	III & V
18	SNEHA S	912618105007	III & V


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19	VINOTHINI V	912618105301	III & V
20	NAZEERA BANU I	912617105001	IV & VII
21	PARTHIKA S	912617105002	IV & VII
22	PRIYA T	912617105003	IV & VII
23	SAJINA K	912617105004	IV & VII
24	SELSIYA R	912617105005	IV & VII
25	THENMOZHI J	912617105006	IV & VII
26	VANITHA E	912617105007	IV & VII
27	SIYAMALADEVI S	912617105302	IV & VII


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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2020-2021 / ODD SEMESTER

ATTENDANCE SHEET FOR VALUE ADDED COURSE

ENERGY CONSUMPTION MODELLING IN ELECTRIC VEHICLE

Google Meet Link: <https://meet.google.com/nvy-thum-mbb>

S.NO	REG. NO	NAME	YEAR/ SEM	30.11.2020		01.12.2020		02.12.2020		03.12.2020		04.12.2020		NO. OF CLASS ATTENDED
				F.N	A.N	F.N	A.N	F.N	A.N	F.N	A.N	F.N	A.N	
1	912619105001	AASHIKA R	II & III	/	/	/	/	/	/	/	/	/	/	10
2	912619105002	ABINAYA S	II & III	/	/	/	/	/	/	/	/	/	/	10
3	912619105003	ABITHA P	II & III	/	a	/	/	/	/	/	/	/	/	09
4	912619105004	ARTHY N	II & III	/	/	/	/	/	/	/	/	/	/	10
5	912619105005	DEEPIKA R	II & III	/	/	/	/	/	/	/	/	/	/	10
6	912619105006	KOGULA PRIYA R	II & III	/	/	/	/	/	/	/	/	/	/	10

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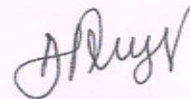
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7	912619105007	NISHA S	II & III	/	/	/	/	/	/	/	/	/	/	/	10
8	912619105008	PAVITHRA M	II & III	/	/	/	/	/	/	/	/	/	/	/	10
9	912619105009	PRAGADEESHWARI A	II & III	/	/	/	/	/	/	/	/	/	/	/	10
10	912619105010	SIVARANJANI S	II & III	/	/	/	/	/	a	/	/	/	/	/	09
11	912619105301	RAGAVI R	II & III	/	/	/	/	/	/	/	/	/	/	/	10
12	912618105001	AARTHI G	III & V	/	/	/	/	/	/	/	/	/	/	/	10
13	912618105002	AASHA R	III & V	/	/	/	/	/	/	/	/	/	/	/	10
14	912618105003	AGARI S	III & V	/	/	/	/	/	/	/	/	/	/	/	10
15	912618105004	JEEVITHA R	III & V	/	/	/	/	/	/	/	/	/	/	/	10
16	912618105005	NISHA K	III & V	/	/	/	/	/	/	/	/	/	/	/	10
17	912618105006	RAMANA R	III & V	/	/	/	/	/	/	/	/	/	/	/	10
18	912618105007	SNEHA S	III & V	/	a	/	/	/	/	/	/	/	/	/	09
19	912618105301	VINOTHINI V	III & V	/	/	/	/	/	/	/	/	/	/	/	10
20	912617105001	NAZEERA BANU I	IV & VII	/	/	/	/	/	/	/	/	/	/	/	10
21	912617105002	PARTHIKA S	IV & VII	/	/	/	/	/	/	/	/	/	/	/	10
22	912617105003	PRIYA T	IV & VII	/	/	/	/	/	/	/	/	/	/	/	10

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23	912617105004	SAJINA K	IV & VII	/	/	/	/	/	/	/	/	/	/	/	10
24	912617105005	SELSIYA R	IV & VII	/	/	/	/	/	/	/	/	/	a	09	
25	912617105006	THENMOZHI J	IV & VII	/	/	/	/	/	/	/	/	/	/	/	10
26	912617105007	VANITHA E	IV & VII	/	/	/	/	/	/	/	/	/	/	/	10
27	912617105302	SIYAMALADEVI S	IV & VII	/	/	/	/	/	/	/	/	/	/	/	10


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Report on Value Added Course

Title: ENERGY CONSUMPTION MODELLING IN ELECTRIC VEHICLE

Resource Person: 1.M.Madhan Kumar,
Founder,
Power Integrated Solutions PVT LTD,
#10A/3 Radhakrishna Colony,
Sastri Road, Thennur, Trichy-17. 2. K.Ram Niwas
Senior Engineer

Date of conduct from : 30 Nov 2020 To: 04 Dec 2020 Duration: 30 Hours

Organized Department : ELECTRICAL AND ELECTRONICS ENGINEERING

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

Venue: online mode Google Meet: <https://meet.google.com/nvy-thum-mbb>

Outcome of Value Added Course (VAC)

At the end of the Course, Students can able to

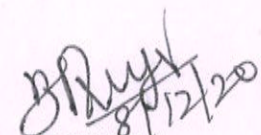
- Explain about the basics of electric vehicle and its principles.
- Describe about the electric vehicle architecture and design of motor.
- Obtain insight about Grid integration of Electric Vehicles, Intelligent control techniques of Electric vehicles.
- Comprehend about the batteries overview and its characteristics.
- Demonstrate about the benefits of electric vehicles, environment impacts, charging station.
- Illustrate about mathematical modeling of an electric vehicle.

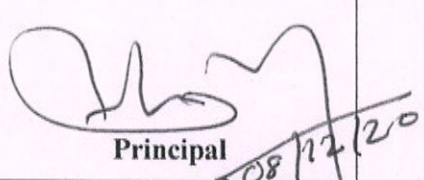
No. of students successfully completed the VAC course is 27 students based on the following assessment process.

Assessment Process

- Students, who are securing **more than 60% on total score** and secured more than 60% 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


Dr. S. THILAGAVATHI M.E., Ph.D.,
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PUDUKKOTTAI - 622 303.

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

CERTIFICATE OF COMPLETION



Power Integrated Solutions
#10A/3 Radhakrishna Colony,
Sastri Road, Thennur, Trichy-17
powerintegratedsolutions@gmail.com

This is to certify that Mr/Ms AASHIKA R, Reg No: 912619105001 has successfully completed the value-added program on “ENERGY CONSUMPTION MODELLING IN ELECTRIC VEHICLES” conducted at Sri Bharathi Engineering College for Women, Pudukkottai in association with Power Integrated Solutions, Trichy from 30.11.2020 to 04.12.2020.

H. Thirumala
HR Manager.

HR MANAGER

Power Integrated Solutions

B. Thirumala

HOD/EEE

SBECW

S. Thilagavathi

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

**SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN**
Kaikurichi - 622 303, Pudukkottai Dt.

H. Thirumala

PRINCIPAL

SBECW

CERTIFICATE OF COMPLETION




Power Integrated Solutions
#10A/3 Radhakrishna Colony,
Sastri Road, Thennur, Trichy-17
powerintegratedsolutions@gmail.com

This is to certify that Mr/Ms AARTHI G, Reg No: 912618105001 has successfully completed the value-added program on “ENERGY CONSUMPTION MODELLING IN ELECTRIC VEHICLES” conducted at Sri Bharathi Engineering College for Women, Pudukkottai in association with Power Integrated Solutions, Trichy from 30.11.2020 to 04.12.2020.

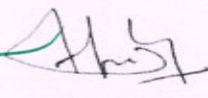

HR Manager

HR MANAGER

Power Integrated Solutions


HOD/EEE
SBECW


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


PRINCIPAL
SBECW

CERTIFICATE OF COMPLETION



Power Integrated Solutions
#10A/3 Radhakrishna Colony,
Sastri Road, Thennur, Trichy-17
powerintegratedsolutions@gmail.com

This is to certify that Mr/Ms SAJINA K, Reg No: 912617105004 has successfully completed the value-added program on “ENERGY CONSUMPTION MODELLING IN ELECTRIC VEHICLES” conducted at Sri Bharathi Engineering College for Women, Pudukkottai in association with Power Integrated Solutions, Trichy from 30.11.2020 to 04.12.2020.

H. H. H.
HR Manager.

HR MANAGER

Power Integrated Solutions

B. R. R.
HOD/EEE
SBECW

S. Thilagavathi
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H. H. H.
PRINCIPAL
SBECW



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KAIKKURICHI, PUDUKKOTTAI- 622 303.
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2020-2021 / ODD SEMESTER

VALUE ADDED COURSE

ENERGY CONSUMPTION MODELLING IN ELECTRIC VEHICLES

Name of student:

Year/Sem:

AU Reg.No:

MULTIPLE CHOICE QUESTIONS (25 X1 =25 MARKS)

1. Which batteries are preferred for Electric Vehicle?

- (A) Lead acid cadmium (B) Lithium ion (C) Sodium sulphur (D) Nickel

2. Battery that cannot be charged again is called

- (A) Primary battery (B) Secondary battery
(C) Nor primary neither secondary (D) Both primary and secondary

3. In optimal control strategies, the main goal is to _____ while respecting the system constraints and specifications.

- (A) Minimize the fuel cost (B) Minimize the emissions
(C) Minimize fuel cost and emissions (D) Improve the vehicle performance

4. What is the unit of charge capacity in a battery

- (A) A hr (B) W hr (C) W/hr (D) W/A
hr

5. _____ vehicles are powered by battery only.

- (A) Conventional (B) EV (C) HEV
(D) PHEV

6. First Electric Vehicle was built in

- (A) 1839 (B) 1800 (C) 1900 (D) 1939

7. Over the years application of which motor to EV and HEV is limited

- (A) Induction Motor (B) BLDC (C) PMSM (D) SRM


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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

16. _____ hybrid vehicle is either propelled by ICE or Battery.
(A) Parallel (B) Series (C) Split (D) Mild
17. Cells are connected in parallel to
(A) Increase the voltage output (B) Increases the internal resistance
(C) Decreases the current capacity (D) Increases the current capacity.
18. Full form of EV is _____
(A) Energy voltage (B) Electric vehicle
(C) Electric voltage (D) Energy vehicles
19. In a single cell, the two electrodes are separated from each other by _____
(A) 1mm (B) 1cm (C) 0.5 mm (D) 0.5 cm
20. Standard open circuit voltage for lead-acid battery at standard conditions is _____
(A) 3 volts (B) 2.048 volts (C) 2.5 volts (D) 3.508 volts
21. Number of cells connected in series provide a _____
(A) High current carrying capacity (B) Higher Voltage
(C) Higher power (D) None of the above
22. Which type of water is used in electrolyte?
(A) Ordinary water (B) Distilled water
(C) Coolant (D) None of the above.
23. What is the type of cell used for building a laptop battery pack?
(A) Nickel cadmium (B) Lithium ion
(C) Zinc silver oxide (D) Lead acid
24. A battery charger acts like a _____
(A) Converter (B) Rectifier (C) Cycloconverter (D) Chopper
25. A type of electrical battery which can be charged, discharged into a load, and then recharged many times is called _____
(A) Rechargeable battery (B) Secondary battery
(C) Primary battery (D) Both 1 and 2


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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2020-2021 / ODD SEMESTER

VALUE ADDED COURSE

ENERGY CONSUMPTION MODELLING IN ELECTRIC VEHICLES

ANSWER KEY FOR MCQ

1	B	2	A	3	C	4	A	5	B
6	A	7	A	8	C	9	B	10	B
11	C	12	C	13	D	14	A	15	D
16	A	17	D	18	B	19	A	20	C
21	B	22	B	23	B	24	B	25	A

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**SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN**

Kaikkurichi - 622 303, Pudukkottai Dt.

Name:- N. Arthy

AU No:- 912619105004

Year/Sem:- II / III

21
25

VAC

Energy Consumption Modelling In Electric Vehicles

Answer Key

1. b

2. c X

3. c

4. a

5. b

6. a

7. d X

8. c

9. b

10. b

11. c

12. d X

13. d

14. a

15. d

16. a

17. c X

18. b

19. a

20. c

21. b

22. b

23. b

24. b

25. a



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VAC - MCQ TEST

ENERGY CONSUMPTION MODELLING IN ELECTRIC
VEHICLES

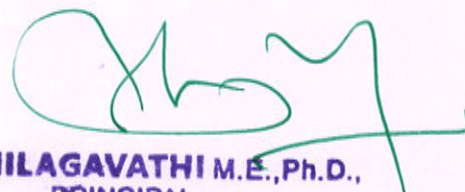
NAME : R. AASHA
REG NO : 912618105002
YEAR/SEM : III / V

24
25

- 1) b
- 2) a
- 3) c
- 4) a
- 5) b
- 6) a
- 7) a
- 8) c
- 9) b
- 10) b
- 11) c
- 12) c
- 13) a
- 14) a
- 15) d

- 16) a
- 17) d
- 18) b
- 19) a
- 20) c
- 21) b
- 22) b
- 23) b
- 24) b
- 25) a

X



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

VAC - MCQ TEST

ENERGY CONSUMPTION MODELLING IN
ELECTRIC VEHICLES.

Name : E. Vanitha

Rg No: 912617101

Year/Sem: IV / VII

23
25

1) B

2. A

3. C

4. A

5. B

6. A

7. A

8. C

9. B

10. B

11. C

12. C

13. B X

14. A

15. D

16. A

17. D

18. A X

19. A

20. C

21. B

22. B

23. B

24. B

25. A

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

PRINCIPAL

**SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN**

Kaikkurchi - 622 303, Pudukkottai Dt.



SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

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KAIKKURICHI, PUDUKKOTTAI- 622 303.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2020-2021 / ODD SEMESTER

MARK SHEET FOR VALUE ADDED COURSE

ENERGY CONSUMPTION MODELLING IN ELECTRIC VEHICLE

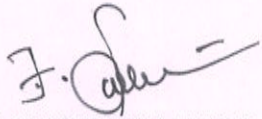
S.NO	REG. NO	NAME	YEAR/ SEM	ATTENDANCE 50% (A)		VAC -MCQ 50%(B)		OVERALL MARK (A+B)
				No of Session Attended	MARKS	No of Correct Answer	MARKS	
1	912619105001	AASHIKA R	II & III	10	100	24	96	98
2	912619105002	ABINAYA S	II & III	10	100	20	80	90
3	912619105003	ABITHA P	II & III	9	90	22	88	89
4	912619105004	ARTHY N	II & III	10	100	21	84	92
5	912619105005	DEEPIKA R	II & III	10	100	24	96	98
6	912619105006	KOGULA PRIYA R	II & III	10	100	22	88	94
7	912619105007	NISHA S	II & III	10	100	21	84	92
8	912619105008	PAVITHRA M	II & III	10	100	24	96	98
9	912619105009	PRAGADEESHWARI A	II & III	10	100	20	80	90
10	912619105010	SIVARANJANI S	II & III	9	90	24	96	93
11	912619105301	RAGAVI R	II & III	10	100	24	96	98
12	912618105001	AARTHI G	III & V	10	100	20	80	90
13	912618105002	AASHA R	III & V	10	100	24	96	98
14	912618105003	AGARI S	III & V	10	100	21	84	92
15	912618105004	JEEVITHA R	III & V	10	100	23	92	96
16	912618105005	NISHA K	III & V	10	100	24	96	98
17	912618105006	RAMANA R	III & V	10	100	20	80	90
18	912618105007	SNEHA S	III & V	9	90	24	96	93
19	912618105301	VINOTHINI V	III & V	10	100	23	92	96
20	912617105001	NAZEERA BANU I	IV & VII	10	100	20	80	90
21	912617105002	PARTHIKA S	IV & VII	10	100	23	92	96
22	912617105003	PRIYA T	IV & VII	10	100	24	96	98
23	912617105004	SAJINA K	IV & VII	10	100	20	80	90

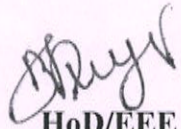
Dr. S. THILAGAVATHI M.E., Ph.D.,
PRINCIPAL

SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN

Kaikkurichi - 622 303, Pudukkottai Dt.

24	912617105005	SELSIYA R	IV & VII	9	90	23	92	91
25	912617105006	THENMOZHI J	IV & VII	10	100	21	84	92
26	912617105007	VANITHA E	IV & VII	10	100	23	92	96
27	912617105302	SIYAMALADEVI S	IV & VII	10	100	24	96	98


VAC COORDINATOR


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PUDUKKOTTAI - 622 303.


Dr. **S. THILAGAVATHI M.E., Ph.D.,**
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Kaikkurchi - 622 303, Pudukkotta, Dt.



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KAIKKURUCHI, PUDUKOTTAI – 622 303
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
ACADEMIC YEAR 2020-2021 / EVEN SEMESTER

DEPARTMENT CIRCULAR

Date: 16.04.2021

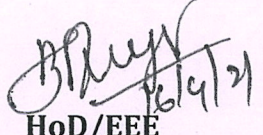
It is planned to conduct Value Added Course by the Department of Electrical and Electronics Engineering for all Second, Third & Final year on “**MATLAB - BASICS AND PROGRAMMING IN ELECTRICAL ENGINEERING**” in association with M/s **STEP UP CONTROLS**, Chennai from 26.04.2021 to 30.04.2021 through virtual mode. Certificates will be issued to the eligible participants at the end of the Course. The resource person details are shown in the following table.

RESOURCE PERSON DETAILS:

Name:	Mr.J.Savari Muthu
Designation:	Technical Head
Company name with Address:	Stepup Controls No:70,TG Anna Nagar, Ayapakkam,Main Road, Ambattur,Chennai-53 GST:33AWYPG8803FIZA
Mail id:	salesstepupcontrols@gmail.com
Google Meet Link:	https://meet.google.com/bxb-sjsy-csy

Cc:

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


16/4/21
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PUDUKKOTTAI - 622 303.


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KAIKKURUCHI, PUDUKOTTAI – 622 303
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
ACADEMIC YEAR 2020-2021/ EVEN SEMESTER
VALUE ADDED COURSE

MATLAB –BASICS AND PROGRAMMING IN ELECTRICAL
ENGINEERING

SCHEDULE

S.NO	TOPICS	DURATION (IN HOURS)	DATE
1.	MATLAB-Getting Started, Scripts, Making Variables	3	26.04.2021
2.	Manipulating Variables, Basic Plotting	3	26.04.2021
3.	Visualization and Programming.	3	27.04.2021
4.	Image/Surface Plots, Efficient Codes, Debugging	3	27.04.2021
5.	Solving Equations, Curve Fitting, and Numerical Techniques .	3	28.04.2021
6.	Differentiation/Integration, Differential Equations	3	28.04.2021
7.	Advanced Methods: Probability and Statistics	3	29.04.2021
8.	Data Structures, File I/O	3	29.04.2021
9.	Various Functions and Toolboxes.	3	30.04.2021
10.	Simulink, Symbolic Toolbox, Image Processing, Hardware Interface.	3	30.04.2021
TOTAL HOURS		30HOUR	


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PUDUKKOTTAI - 622 303.



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

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
ACADEMIC YEAR EVEN SEMESTER (2020-2021)

STUDENT NAME LIST FOR VALUE ADDED COURSE


MATLAB-BASICS AND PROGRAMMING IN ELECTRICAL
PROGRAMMING

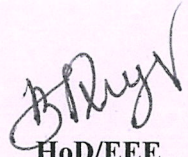
S.NO	NAME	REG.NO	YEAR & SEMESTER
1	AASHIKA R	912619105001	II & IV
2	ABINAYA S	912619105002	II & IV
3	ABITHA P	912619105003	II & IV
4	ARTHY N	912619105004	II & IV
5	DEEPIKA R	912619105005	II & IV
6	KOGULA PRIYA R	912619105006	II & IV
7	NISHA S	912619105007	II & IV
8	PAVITHRA M	912619105008	II & IV
9	PRAGADEESHWARI A	912619105009	II & IV
10	SIVARANJANI S	912619105010	II & IV
11	RAGAVI R	912619105301	II & IV
12	AARTHI G	912618105001	III & VI
13	AASHA R	912618105002	III & VI
14	AGARI S	912618105003	III & VI
15	JEEVITHA R	912618105004	III & VI
16	NISHA K	912618105005	III & VI
17	RAMANA R	912618105006	III & VI
18	SNEHA S	912618105007	III & VI
19	VINOTHINI V	912618105301	III & VI
20	NAZEERA BANU I	912617105001	IV & VIII
21	PARTHIKA S	912617105002	IV & VIII
22	PRIYA T	912617105003	IV & VIII

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PRINCIPAL

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Kaikkuruchi - 622 303, Pudukkottai Dt.

23	SAJINA K	912617105004	IV & VIII
24	SELSIYA R	912617105005	IV & VIII
25	THENMOZHI J	912617105006	IV & VIII
26	VANITHA E	912617105007	IV & VIII
27	SIYAMALADEVI S	912617105302	IV & VIII


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PUDUKKOTTAI - 622 303.


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KAIKKURICHI, PUDUKKOTTAI-622 303

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2020-2021 / EVEN SEMESTER

ATTENDANCE SHEET FOR VALUE ADDED COURSE

MATLAB-BASICS AND PROGRAMMING IN ELECTRICAL ENGINEERING

Google Meet Link: <https://meet.google.com/bxb-sjsy-csy>

S.NO	REG. NO	NAME	YEAR/ SEM	26.04.2021		27.04.2021		28.04.2021		29.04.2021		30.04.2021		NO. OF CLASS ATTENDED
				F.N	A.N	F.N	A.N	F.N	A.N	F.N	A.N	F.N	A.N	
1	912619105001	AASHIKA R	II & IV	/	a	/	/	/	/	/	/	/	/	09
2	912619105002	ABINAYA S	II & IV	/	/	/	/	/	/	/	/	/	/	10
3	912619105003	ABITHA P	II & IV	/	/	/	/	/	/	/	/	/	/	10
4	912619105004	ARTHY N	II & IV	/	/	/	/	/	/	/	/	/	/	10
5	912619105005	DEEPIKA R	II & IV	/	/	/	/	/	/	/	/	/	/	10
6	912619105006	KOGULA PRIYA R	II & IV	/	/	/	/	/	/	/	/	/	/	10
7	912619105007	NISHA S	II & IV	/	/	/	/	/	/	/	/	/	/	10


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Kaikkurichi - 622 303, Pudukkottai Dt.

8	912619105008	PAVITHRA M	II & IV	a	a	/	/	/	/	/	/	/	/	08
9	912619105009	PRAGADEESHWARI A	II & IV	/	/	/	/	/	/	/	/	/	/	10
10	912619105010	SIVARANJANI S	II & IV	/	a	/	/	/	/	/	/	/	/	09
11	912619105301	RAGAVI R	II & IV	/	/	/	/	/	/	/	/	/	/	10
12	912618105001	AARTHI G	III & VI	/	/	/	/	/	/	/	/	/	/	10
13	912618105002	AASHA R	III & VI	/	/	/	/	/	/	/	/	/	/	10
14	912618105003	AGARI S	III & VI	/	/	/	/	/	/	/	/	/	/	10
15	912618105004	JEEVITHA R	III & VI	/	/	/	/	/	a	/	/	/	/	09
16	912618105005	NISHA K	III & VI	/	/	/	/	/	/	/	/	/	/	10
17	912618105006	RAMANA R	III & VI	/	/	/	/	/	/	/	/	/	/	10
18	912618105007	SNEHA S	III & VI	/	/	/	/	/	/	/	/	/	/	10
19	912618105301	VINOTHINI V	III & VI	/	/	/	/	/	/	/	/	/	/	10
20	912617105001	NAZEERA BANU I	IV & VIII	/	/	/	/	/	/	/	/	a	a	08
21	912617105002	PARTHIKA S	IV & VIII	/	/	/	/	/	/	/	/	/	/	10
22	912617105003	PRIYA T	IV & VIII	/	/	/	/	/	/	/	/	/	/	10
23	912617105004	SAJINA K	IV & VIII	/	/	/	/	/	/	/	/	/	/	10


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

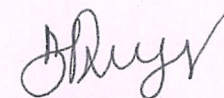
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COLLEGE FOR WOMEN

Kaikkurchi - 622 303, Pudukkottai Dt

24	912617105005	SELSIYA R	IV & VIII	/	/	/	/	/	/	/	/	/	/	10
25	912617105006	THENMOZHI J	IV & VIII	/	/	/	/	/	/	/	/	/	/	10
26	912617105007	VANITHA E	IV & VIII	/	/	/	/	/	/	/	/	/	/	10
27	912617105302	SIYAMALADEVI S	IV & VIII	/	/	/	/	/	a	/	/	/	/	09


VAC COORDINATOR


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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: **MATLAB-BASICS AND PROGRAMMING IN ELECTRICAL ENGINEERING**

Resource Person: Mr.J.Savari Muthu, Technical Head,
Stepup Controls,
No:70,TG Anna Nagar, Ayapakkam,Main Road, Ambattur,Chennai-53
Mail id:salesstepupcontrols@gmail.com

Date of conduct from : **26.04.2021** To: **30.04.2021** Duration: **30 Hours**

Organized Department : **ELECTRICAL AND ELECTRONICS ENGINEERING**

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

Venue: **online mode Google Meet: <https://meet.google.com/bxb-sjsy-csy>**

Outcome of Value Added Course (VAC)

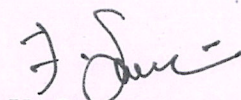
At the end of the Course, Students can able to

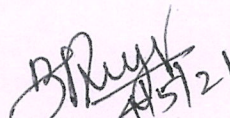
- Explain about the getting Started, Scripts, Making Variables, Manipulating Variables, Basic Plotting.
- Describe about the visualization and programming of Matlab.
- Obtain the insight about solving Equations, Curve Fitting, and Numerical Techniques.
- Comprehend about the Simulink, Symbolic Toolbox, Image Processing, Hardware Interface.
- Demonstrate about the probability and statistics, data structures, file i/o.
- Illustrate about various functions and toolboxes like documentation, miscellaneous useful functions, graphical user interfaces.


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


VAC Coordinator

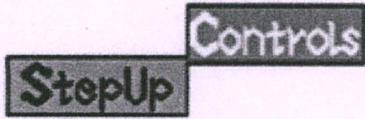

HOD/ EEE


Principal


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KAIKKURICHI,
PUDUKKOTTAI - 622 303.

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COLLEGE FOR WOMEN
KAIKKURICHI - 622 303.
PUDUKKOTTAI DISTRICT



STEPUP CONTROLS

No:70, TG Anna Nagar, Ayapakkam, Main Road, Ambattur, Chennai-53,
GST:33AWYPG8803FIZA Mail id: salesstepupcontrols@gmail.com

CERTIFICATE OF PARTICIPATION

This is to certify that Ms **AASHIKA R**, Reg No **912619105001**, II year,
Electrical and Electronics Engineering student of Sri Bharathi Engineering
College for Women, Pudukkottai for his/her active participation during the
conduct of the 5 Days Value added Course on "MATLAB BASICS AND
PROGRAMMING IN ELECTRICAL ENGINEERING" held on 26 - 30 April
2021 through virtual mode.

We wish her all success.

For STEPUP CONTROLS,

AUTHORIZED SIGNATORY

TECHNICAL HEAD



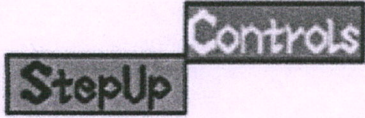
Dr. **S.THILAGAVATHI** M.E., Ph.D.,

PRINCIPAL

SRI BHARATHI ENGINEERING

COLLEGE FOR WOMEN

Kaikkurchi - 622 303, Pudukkottai Dt.



STEPUP CONTROLS

No:70, TG Anna Nagar, Ayapakkam, Main Road, Ambattur, Chennai-53,
GST:33AWYPG8803FIZA Mail id: salesstepupcontrols@gmail.com

CERTIFICATE OF PARTICIPATION

This is to certify that Ms AARTHI G, Reg No 912618105001, III year,
Electrical and Electronics Engineering student of Sri Bharathi Engineering
College for Women, Pudukkottai for his/her active participation during the
conduct of the 5 Days Value added Course on "MATLAB BASICS AND
PROGRAMMING IN ELECTRICAL ENGINEERING" held on 26 - 30 April
2021 through virtual mode.

We wish her all success.

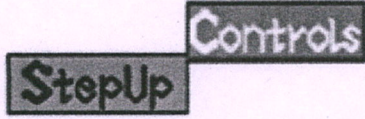
For STEPUP CONTROLS,

AUTHORIZED SIGNATORY

TECHNICAL HEAD



Dr. **S.THILAGAVATHI M.E., Ph.D.**,
PRINCIPAL
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COLLEGE FOR WOMEN
Kaikkurchi - 622 303, Pudukkottai Dt.



STEPUP CONTROLS

No:70, TG Anna Nagar, Ayapakkam, Main Road, Ambattur, Chennai-53,
GST:33AWYPG8803FIZA Mail id: salesstepupcontrols@gmail.com

CERTIFICATE OF PARTICIPATION

This is to certify that Ms NAZEERA BANU I, Reg No 912617105001, IV
year, Electrical and Electronics Engineering student of Sri Bharathi
Engineering College for Women, Pudukkottai for his/her active
participation during the conduct of the 5 Days Value added Course on
"MATLAB BASICS AND PROGRAMMING IN ELECTRICAL ENGINEERING"
held on 26 - 30 April 2021 through virtual mode.

We wish her all success.

For STEPUP CONTROLS,

AUTHORIZED SIGNATORY

TECHNICAL HEAD



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

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2020-2021 / EVEN SEMESTER

VALUE ADDED COURSE

MATLAB-BASICS AND PROGRAMMING IN ELECTRICAL ENGINEERING

Name of student:

Year/Sem:

AU Reg.No:

MULTIPLE CHOICE QUESTIONS(25 X1 =25 MARKS)

1. Which of the following is NOT a valid plotting command in MATLAB?
(A) Figure (B) Prod (C) Print (D) Plot
2. Which of the following software is used for numerical computing?
(A) Matlab (B) Simulink (C) Labview (D) Pspice
3. In Matlab, _____ command is used to add text label to x-axis
(A) Axes (B) Xlabel (C) Axi (D) Ylabel
4. Which of the following is NOT a negative effect when the class or array of a variable is changed in Matlab?
(A) It slows down the process (B) It works with special features
(C) Performance is negative (D) It takes extra time
5. Which software provides automation in electrical power system?
(A) Pspice (B) EAPT (C) ETAP (D) PSCAD
6. Index of an array in MATLAB start wit
(A) 0 (B) 1 (C) Depends on the class of array (D) Unknown
7. What is use of abs function in Matlab?
(A) returns the square root of number. (B) returns magnitude of a number.
(C) returns power of number (D) None of these
8. What does Matlab stands for?
(A) Math laboratory (B) Matrix Laboratory
(C) Mathworks (D) None of the above
9. What symbol precedes all comments in Matlab?
(A)'' (B)% (C)// (D) none of the above


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PRINCIPAL
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10. Which of the following is not a pre-defined variable in Matlab?
(A) pi (B) inf (C) i (D) gravity
11. This Matlab command clears all data and variables stored variable?
(A) clc (B) clear (C) delete (D) deallocate
12. Characters in Matlab are represented in their value in memory
(A) decimal (B) ASCII (C) hex (D) String
13. To better manage memory and prevent unnecessary memory allocations, Matlab uses
(A) Vectors (B) Scalars (C) Matrix math (D) Delayed copy
14. In MATLAB, this keyboard immediately moves to the next iteration of the loop
(A) Update (B) Goto (C) Continue (D) Break
15. Which command in MATLAB is used to create a new variable?
(A) new (B) var (C) create (D) Let
16. What is the default extension of a MATLAB script file?
(A) .m (B) .mat (C) .md (D) .txt
17. Which command in MATLAB is used to display the contents of a variable?
(A) show (B) display (C) disp (D) print.
18. Which of the following commands is used to create a matrix with all elements set to 0?
(A) Zeros (B) Ones (C) eye (D) rand
19. Which of the following commands is used to calculate the square root of a number in MATLAB?
(A) sqrt (B) root (C) power (D) exp
20. Which of the following commands is used to read input from the user in MATLAB?
(A) input (B) read (C) readln (D) get
21. Which command in MATLAB is used to create a plot?
(A) plot (B) createplot (C) makeplot (D) drawplot


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22. Which of the following commands is used to find the maximum element of a matrix in MATLAB?
- (A) min (B)max (C) maximum (D)findmax
23. Which of the following commands is used to concatenate two matrices vertically in MATLAB?
- (A) horzcat (B)vertcat (C) cat (D)merge
24. Which of the following commands is used to round a number to the nearest integer in MATLAB?
- (A) round (B)ceil (C) floor (D)fix
25. Which of the following commands is used to find the indices of the non-zero elements in a matrix in MATLAB?
- (A) non zero (B)find (C) index (D)locate

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ACADEMIC YEAR 2020-2021 / EVEN SEMESTER

VALUE ADDED COURSE

MATLAB-BASICS AND PROGRAMMING IN ELECTRICAL ENGINEERING

ANSWER KEY FOR MCQ

1	B	2	A	3	B	4	B	5	C
6	A	7	C	8	B	9	D	10	D
11	B	12	B	13	D	14	C	15	B
16	A	17	C	18	A	19	A	20	A
21	A	22	B	23	B	24	A	25	B

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Name :- R. Aasthika

Year / Sem :- \hat{I} / \hat{IV}

AU No :- 912619105001

$\frac{23}{25}$

VAC
Matlab-Basics And Programming In Electrical Engineering.

MCP Answer :-

- | | |
|---------|-------|
| 1) B | 19) A |
| 2) A | 20) A |
| 3) B | 21) A |
| 4) B | 22) B |
| 5) C | 23) B |
| 6) B X | 24) A |
| 7) C | 25) B |
| 8) B | |
| 9) D | |
| 10) D | |
| 11) B | |
| 12) B | |
| 13) D | |
| 14) C | |
| 15) D X | |
| 16) A | |
| 17) C | |
| 18) A | |


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VAC

Matlab - Basics And Programming in Electrical Engineering

Name : G1. Ananthi

AU. NO : 91261810500)

Year / sem : III / V

MCQ Answer:-

- 1) b
- 2) a
- 3) b
- 4) b
- 5) c
- 6) A
- 7) c
- 8) b
- 9) d
- 10) D
- 11) b
- 12) b
- 13) d
- 14) c
- 15) b

- 16) a
- 17) c
- 18) b X
- 19) a
- 20) a
- 21) a
- 22) b
- 23) c X
- 24) a
- 25) b

23
25



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VAC

Matlab - Basics And programming in Electrical Engineering

Name : T. Briya

AU.No : 912617105003

Year/Sem : IV / VIII

$\frac{24}{25}$

MCP Answers:-

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

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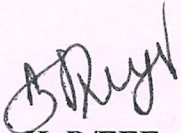
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MARK SHEET FOR VALUE ADDED COURSE
MATLAB –BAISCS AND PROGRAMMING IN ELECTRICAL ENGINEERING

S.NO	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	912619105001	AASHIKA R	II & IV	9	90	23	92	91
2	912619105002	ABINAYA S	II & IV	10	100	21	84	92
3	912619105003	ABITHA P	II & IV	10	100	24	96	98
4	912619105004	ARTHY N	II & IV	10	100	20	80	90
5	912619105005	DEEPIKA R	II & IV	10	100	21	84	92
6	912619105006	KOGULA PRIYA R	II & IV	10	100	24	96	98
7	912619105007	NISHA S	II & IV	10	100	20	80	90
8	912619105008	PAVITHRA M	II & IV	8	80	22	88	89
9	912619105009	PRAGADEESHWARI A	II & IV	10	100	23	92	96
10	912619105010	SIVARANJANI S	II & IV	9	90	24	96	93
11	912619105301	RAGAVI R	II & IV	10	100	21	84	92
12	912618105001	AARTHI G	III & VI	10	100	23	92	96
13	912618105002	AASHA R	III & VI	10	100	24	96	98
14	912618105003	AGARI S	III & VI	10	100	20	80	90
15	912618105004	JEEVITHA R	III & VI	9	90	21	84	87


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16	912618105005	NISHA K	III & VI	10	100	21	84	92
17	912618105006	RAMANA R	III & VI	10	100	24	96	98
18	912618105007	SNEHA S	III & VI	10	100	23	92	96
19	912618105301	VINOTHINI V	III & VI	10	100	21	84	92
20	912617105001	NAZEERA BANU I	IV & VIII	8	80	24	96	88
21	912617105002	PARTHIKA S	IV & VIII	10	100	20	80	90
22	912617105003	PRIYA T	IV & VIII	10	100	24	96	98
23	912617105004	SAJINA K	IV & VIII	10	100	21	84	92
24	912617105005	SELSIYA R	IV & VIII	10	100	23	92	96
25	912617105006	THENMOZHI J	IV & VIII	10	100	24	96	98
26	912617105007	VANITHA E	IV & VIII	10	100	20	80	90
27	912617105302	SIYAMALADEVI S	IV & VIII	9	90	24	96	93


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Criteria 2

Teaching-Learning and Evaluation

350

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

2020-2021

**ELECTRICAL AND ELECTRONICS
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PARTICIPATIVE LEARNING

SYMPOSIUM, SEMINAR AND WORKSHOP



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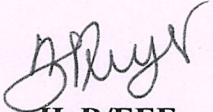
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ACADEMIC YEAR 2020-2021

S.NO	REGISTER NO	NAME	YEAR/ SEM	NAME OF THE LEARNING METHOD
1	912619105005	DEEPIKA R	II/IV	PARTICIPATIVE LEARNING- SEMINAR
2	912619105005	DEEPIKA R	II/IV	
3	912618105001	AARTHI G	III/VI	
	912618105005	NISHA K		
	912618105007	SNEHA S		
4	912617105002	PARTHIKA S	IV/VIII	
	912617105004	SAJINA K		
	912617105005	SELSIYA R		
	912617105006	THENMOZHI J		
	912617105007	VANITHA E		


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Dr. S. Chinnapparaj
Co-ordinator

Dr. B. Paulchamy
Convener

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Department of Computer Science and Engineering

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Co-ordinator

Dr.A.Jameer Basha
Professor & HoD-CSE

Dr.C.Natarajan
Principal

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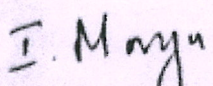
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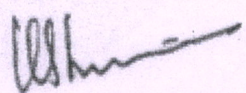
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