



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
PROBLEM SOLVING**

Activity	Number of Students Attended	Page No.
Tutorial	11	3
Mini Project	08	6
Project	08	13
TOTAL STUDENTS ATTENDED	27	-



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Criteria 2

Teaching-Learning and Evaluation

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2020-2021

**ELECTRICAL AND ELECTRONICS
ENGINEERING**

PROBLEM SOLVING

TUTORIAL



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Kaikkuruchi, Pudukkottai, Tamilnadu – 622 303, India


DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2020-2021

PROBLEM SOLVING METHOD

LIST OF STUDENTS II YEAR EEE-PROBLEM SOLVING METHOD

SL.NO	REG.NO	NAME	YEAR/ SEM	LEARNING METHOD
1.	912619105001	AASHIKA R	II/III	PROBLEM SOLVING METHOD- TUTORIAL EE8391- ELECTROMAGNETIC THEORY
2.	912619105002	ABINAYA S	II/III	
3.	912619105003	ABITHA P	II/III	
4.	912619105004	ARTHY N	II/III	
5.	912619105005	DEEPIKA R	II/III	
6.	912619105006	KOGULA PRIYA R	II/III	
7.	912619105007	NISHA S	II/III	
8.	912619105008	PAVITHRA M	II/III	
9.	912619105009	PRAGADEESHWARI A	II/III	
10.	912619105010	SIVARANJANI S	II/III	
11.	912619105301	RAGAVI R	II/III	


Name and signature of the Faculty Incharge


HOD/EEE


Dr. S.THILAGAVATHI M.E., Ph.D.,
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkuruchi - 622 303, Pudukkottai Dt.

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KAIKKURUCHI,
PUDUKKOTTAI - 622 303.



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DEPARTMENT OF ELECTRONICS AND ELECTRICAL ENGINEERING

Tutorial Answer Sheet

Name of the Student: *R. Ragavi*

AU Register Number: *912619105301*

Tutorial – 02		Date of Issue:	05.10.20	Marks	10
Course code	EE8391	Course Title	ELECTRO MAGNETIC THEORY		
Year	II	Semester	III	Date of Submission:	12.10.20

Q.No	Questions	CO
1	i) Show that over the closed surface of a sphere of radius B, $ds = 0$ ii) Show that the vector $E = (6xy + z^3)ax + (3x^2 - z)ay + (3xz^2 - y)az$ is Irrotational and find its scalar potential.	C203.1
2	Express the vector B in Cartesian and cylindrical systems. Given $B = \frac{10}{r} \bar{a}_r + r \cos \theta \bar{a}_\theta + \bar{a}_\phi$. then find B at (-3, 4, 0) and (5, $\pi/2$, -2).	C203.1
3	i) Find the electric field at a point P(0,0,6) due to a point charge Q1 of $0.35 \mu C$ placed at (0,5,0) and Q2 of $-0.6 \mu C$ placed at (5,0,0). ii) Prove the identity $\nabla \times \nabla \times H = \nabla(\nabla \cdot H) - \nabla^2 H$ where the H is a vector.	C203.1

Mark Allocation

Rubrics	Marks Allocated	Marks obtained
Problem solving approach	6	6
Correctness of Answer	2	2
Timely submission	2	2
Total marks	10	10

Name and Signature of the Faculty Incharge

Dr. S. THILAGAVATHI M.E., Ph.D.,
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2020-2021

**ELECTRICAL AND ELECTRONICS
ENGINEERING**

PROBLEM SOLVING

MINI PROJECT



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2020-2021

PROBLEM SOLVING METHOD

LIST OF STUDENTS III YEAR EEE-PROBLEM SOLVING METHOD

BATCH NO	REG.NO	NAME	YEA R/ SEM	TOPIC	LEARNING METHOD	
1.	912618105001	AARTHI G	III/VI	IOT BASED AUTOMATIC CONTROL SYSTEM FOR AIR POLLUTION DETECTION AND FC MONITORING	PROBLEM SOLVING METHOD - MINI PROJECT	
	912618105002	AASHA R	III/VI			
	912618105003	AGARI S	III/VI			
	912618105004	JEEVITHA R	III/VI			
2.	912618105005	NISHA K	III/VI	GENERATION FOR CRITICAL AND NON CRITICAL LOAD WITH HYBRID RENEWABLE SYSTEM		PROBLEM SOLVING METHOD - MINI PROJECT
	912618105006	RAMANA R	III/VI			
	912618105007	SNEHA S	III/VI			
	912618105301	VINOTHINI V	III/VI			

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PUDUKKOTTAI - 622 303



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING


ACADEMIC YEAR 2020-2021

PROBLEM SOLVING METHOD

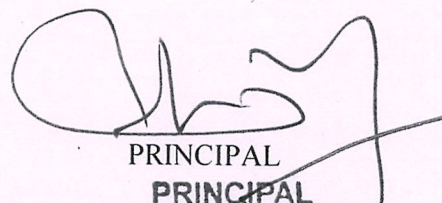
LIST OF STUDENTS III YEAR EEE-MINI PROJECT BATCH LIST

BATCH NO	REG.NO	NAME	YEAR / SEM	PROJECT TITLE	GUIDE NAME
1	912618105001	AARTHI G	III/VI	IOT BASED AUTOMATIC CONTROL SYSTEM FOR AIR POLLUTION DETECTION AND FC MONITORING	MRS.S.SUSILA DEVI AP/EEE
	912618105002	AASHA R	III/VI		
	912618105003	AGARI S	III/VI		
	912618105004	JEEVITHA R	III/VI		
2	912618105005	NISHA K	III/VI	GENERATION FOR CRITICAL AND NON CRITICAL LOAD WITH HYBRID RENEWABLE SYSTEM	Mr.J.SATHIYARAJ AP/EEE
	912618105006	RAMANA R	III/VI		
	912618105007	SNEHA S	III/VI		
	912618105301	VINOTHINI V	III/VI		


PROJECT COORDINATOR


HOD/EEE

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


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COLLEGE FOR WOMEN
KAIKKURUCHI - 622 303.
PUDUKKOTTAI DISTRICT


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



**IOT BASED AUTOMATIC CONTROL
SYSTEM FOR AIR POLLUTION
DETECTION AND FC MONITORING**

A MINI PROJECT REPORT

Submitted by

AARTHI G

Reg. No (912618105001)

AASHA R

Reg. No (912617105002)

AGARI S

Reg. No (912618105003)

JEEVITHA R

Reg. No (912618105004)

In partial fulfillment for the award of the degree

Of

BACHELOR OF ENGINEERING

in

ELECTRICAL AND ELECTRONICS ENGINEERING

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

KAIKKURUCHI, PUDUKOTTAI-622303

ANNA UNIVERSITY: CHENNAI 600025

JUNE 2021


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

ANNA UNIVERSITY: CHENNAI 600025

BONAFIDE CERTIFICATE

Certified that this mini project report "IOT BASED AUTOMATIC CONTROL SYSTEM FOR AIR POLLUTION DETECTION AND FC MONITORING " is the bonafide work of AARTHI G (912618105001), ASHA R(912617105002), AGARI S(912618105003), JEEVITHA R (912618105004) who carried out the mini project work under my supervision.

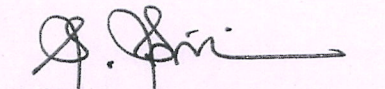

SIGNATURE

Mrs.S.SUSILA DEVI M.E.,
HEAD OF THE DEPARTMENT,
Dept of EEE,
Sri Bharathi Engineering College
For Women,
Kaikuruchi,
Pudukkottai-622303.


SIGNATURE

Mrs.S.SUSILA DEVI M.E.,
SUPERVISOR / HOD,
Dept of EEE,
Sri Bharathi Engineering College
For Women,
Kaikuruchi,
Pudukkottai-622303.

Submitted for the mini project work and viva -voce held on .08/06/2021


INTERNAL EXAMINER

*Due to COVID-19 pandemic situations the viva-voce was conducted through Online Mode.

EXTERNAL EXAMINER*


Dr. S.THILAGAVATHI M.E., Ph.D.,
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkuruchi - 622 303, Pudukkottai Dt.



**GENERATION FOR CRITICAL AND NON
CRITICAL LOAD WITH HYBRID
RENEWABLE SYSTEM**



A MINI PROJECT REPORT

Submitted by

NISHA K

Reg. No (912618105005)

RAMANA R

Reg. No (912618105006)

SNEHA S

Reg. No (912618105007)

VINOTHINI V

Reg. No (912618105301)

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SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

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ANNA UNIVERSITY: CHENNAI 600025

JUNE 2021

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

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

ANNA UNIVERSITY: CHENNAI 600025

BONAFIDE CERTIFICATE

Certified that this mini project report "GENERATION FOR CRITICAL AND NON CRITICAL LOAD WITH HYBRID RENEWABLE SYSTEM" is the bonafide work of NISHA K(912618105005), RAMANA R (912618105006), SNEHA S (912618105007) and VINOOTHINI V(912618105301) who carried out the mini project work under my supervision.

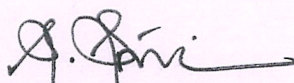

SIGNATURE

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Kaikuruchi,
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SIGNATURE

Mr.J.SATHIYARAJ M.E.,
SUPERVISOR / Asst Professor,
Dept of EEE,
Sri Bharathi Engineering College
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2020-2021

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ENGINEERING**

PROBLEM SOLVING

PROJECT




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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

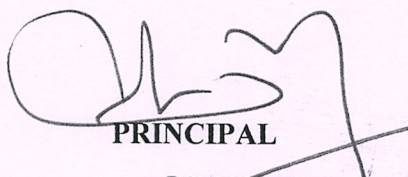
LIST OF STUDENTS-IV YEAR EEE- PROBLEM SOLVING METHOD

ACADEMIC YEAR 2020-2021

BATCH NO	REG NO	NAME	PROJECT TITLE	PROJECT SUPERVISOR
I	912617105001	NAZEERA BANU I	ENERGY MANAGEMENT SYSTEM FOR AC AND DC GRID	MRS.S.SUSILADEVI
	912617105002	PARTHIKA S		
	912617105004	SAJINA K		
	912617105005	SELSIYA R		
II	912617105003	PRIYA T	WIRELESS ELECTRONIC VOTING MACHINE USING FINGERPRINT AND ID TAG READER TECHNOLOGY	MR.J.SATHYARAJ
	912617105006	THENMOZHI J		
	912617105007	VANITHA E		
	912617105302	SIYAMALADEVI S		


PROJECT COORDINATOR


HoD/EEE
HOD EEE
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
KAIKKURICHI,
PUDUKKOTTAI - 622 303.


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COLLEGE FOR WOMEN
KAIKKURICHI - 622 303
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Dr. S.THILAGAVATHI M.E.,Ph.D.,
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COLLEGE FOR WOMEN
Kaikkurichi - 622 303, Pudukkottai Dt.



**ENERGY MANAGEMENT SYSTEM
FOR AC AND DC GRID**



A PROJECT REPORT

Submitted by

**I.NAZEERA BANU (912617105001)
S.PARTHIKA (912617105002)
K.SAJINA (912617105004)
R.SELSIYA (912617105005)**

In partial fulfillment for the award of the degree

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

ANNA UNIVERSITY: CHENNAI 600 025

MARCH 2021

**Dr. S.THILAGAVATHI M.E., Ph.D.,
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurichi - 622 303, Pudukkottai Dt.**


ANNA UNIVERSITY: CHENNAI 600025

BONAFIDE CERTIFICATE

Certified that this project report "ENERGY MANAGEMENT SYSTEM FOR AC AND DC GRID" is the bonafide work of NAZEERA BANU I(912617105001), PARTHIKA S (912617105002), SAJINA K (912617105004) and SELSIYA R (912617105005) who carried out the project work under my supervision.

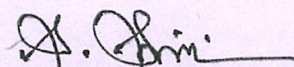

SIGNATURE 20/03/21

Mrs.S.SUSILA DEVI M.E.,
HEAD OF THE DEPARTMENT,
Dept of EEE,
Sri Bharathi Engineering College
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SIGNATURE 20/03/21

Mrs. S.SUSILA DEVI M.E.,
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For Women,
Kaikuruchi,
Pudukkottai-622303.

Submitted for the project work and viva -voce held on 30/03/21


INTERNAL EXAMINER

EXTERNAL EXAMINER*

*Due to COVID-19 pandemic situations the viva-voce was conducted through Online Mode.


Dr. S.THILAGAVATHI M.E., Ph.D.,
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SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkuruchi - 622 303, Pudukkottai Dt.



**WIRELESS ELECTRONIC VOTING
MACHINE USING FINGERPRINT AND
ID TAG READER TECHNOLOGY**



A PROJECT REPORT

Submitted by

T. PRIYA	(912617105003)
J. THENMOZHI	(912617105006)
E. VANITHA	(912617105007)
S. SIYAMALADEVI	(912617105302)

in partial fulfillment for the award of the degree

of

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SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN,

KAIKKURICHI, PUDUKKOTTAI-622 303.

ANNA UNIVERSITY: CHENNAI 622 025

MARCH 2021

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

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

ANNA UNIVERSITY: CHENNAI 600025

BONAFIDE CERTIFICATE

Certified that this project report “**WIRELESS ELECTRONIC VOTING MACHINE USING FINGERPRINT AND ID TAG READER TECHNOLOGY**” is the bonafide work of **PRIYA T (912617105003), THENMOZHI J (912617105006), VANITHA E (912617105007)** and **SIYAMALADEVI S (912617105302)** who carried out the project work under my supervision.

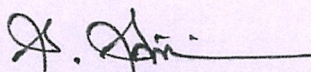

SIGNATURE 30/08/21

Mrs.S.SUSILA DEVI M.E.,
HEAD OF THE DEPARTMENT,
Dept of EEE,
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Pudukkottai-622303.


SIGNATURE 30/3/21

Mr. J.SATHYARAJ M.E.,
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