



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



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
PROBLEM SOLVING**

Activity	Number of Students Attended	Page No.
Tutorial	7	3
Mini Project	10	6
Project	8	15
TOTAL STUDENTS ATTENDED	25	-



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**

PROBLEM SOLVING

TUTORIAL



SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

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

Kaikkuruchi, Pudukkottai, Tamilnadu – 622 303, India

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2021-2022

PROBLEM SOLVING METHOD

LIST OF STUDENTS II YEAR EEE-PROBLEM SOLVING METHOD

SL.NO	REG.NO	NAME	YEAR/ SEM	LEARNING METHOD
1.	912620105001	KAYALVIZHI K	II/III	PROBLEM SOLVING METHOD -- TUTORIAL EE8351- DIGITAL LOGIC CIRCUITS
2.	912620105002	RAMADEVI S	II/III	
3.	912620105003	SRINANTHANA S	II/III	
4.	912620105302	KAVIYA R	II/III	
5.	912620105303	KOPPERUNDEVI S	II/III	
6.	912620105304	NARMATHA DEVI K	II/III	
7.	912620105305	SRIBHARATHI S	II/III	



Name and signature of the Faculty Incharge


HoD/EEE

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


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



SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

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

Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

DEPARTMENT OF ELECTRONICS AND ELECTRICAL ENGINEERING

Tutorial Answer Sheet

Name of the Student: *R. KAVIYA*

AU Register Number: *912620105302*

Tutorial – 01		Date of Issue:	06.09.21	Marks	10
Course code	EE8351	Course Title	DIGITAL LOGIC CIRCUITS		
Year	II	Semester	III	Date of Submission:	13.09.21

Q.No	Questions	CO
1	(i) Perform the following addition using BCD and Excess -3 addition (315+669) (ii) Encode the binary word 1101 into seven bit even parity hamming code.	C202.1
2	(i) Explain briefly about the SOP and POS forms with example. (ii) Plot the logical expression $ABCD+AB'C'D'+AB'C'+AB$ on a 4 variable K-Map. Obtain the simplified expression from the Map.	C202.1
3	(i) Explain the classifications of binary code. (ii) Explain about the error detection and correction codes.	C202.1

Mark Allocation

Rubrics	Marks Allocated	Marks obtained
Problem solving approach	6	4
Correctness of Answer	2	2
Timely submission	2	2
Total marks	10	8

R. R. H.

Name and Signature of the Faculty Incharge

[Signature]

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

[Signature]

HoD/EEE
HOD EEE

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



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**

PROBLEM SOLVING

MINI PROJECT



SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

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

Kaikkuruchi, Pudukkottai, Tamilnadu – 622 303, India

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2021-2022

PROBLEM SOLVING METHOD

LIST OF STUDENTS III YEAR EEE-PROBLEM SOLVING METHOD

BATCH NO	REG.NO	NAME	YEA R/ SEM	TOPICS	LEARNING METHOD
1.	912619105001	AASHIKA R	III/VI	SMART BUILDING AUTOMATION	PROBLEM SOLVING METHOD -- MINI PROJECT
	912619105003	ABITHA P	III/VI		
	912619105008	PAVITHRA M	III/VI		
2.	912619105004	ARTHY N	III/VI	HIGH VOLTAGE GAIN NON-COUPLED INDUCTOR SEPIC CONVERTER	
	912619105009	PRAGADEESHWARI A	III/VI		
	912619105301	RAGAVI R	III/VI		
3.	912619105002	ABINAYA S	III/VI	SMART ENERGY MANAGEMENT SYSTEM IN BUILDING USING MATLAB	
	912619105005	DEEPIKA R	III/VI		
	912619105007	NISHA S	III/VI		
	912619105010	SIVARANJANI S	III/VI		

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
COLLEGE FOR WOMEN
Kaikkuruchi - 622 303, Pudukkottai Dt.



SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

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

Kaikkuruchi, Pudukkottai, Tamilnadu – 622 303, India

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

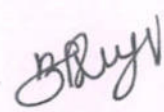
ACADEMIC YEAR 2021-2022

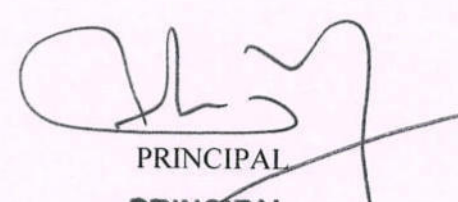
PROBLEM SOLVING METHOD

LIST OF STUDENTS III YEAR EEE-PROBLEM SOLVING METHOD

BATCH NO	REG.NO	NAME	YEAR / SEM	PROJECT TITLE	GUIDE NAME
1.	912619105001	AASHIKA R	III/VI	SMART BUILDING AUTOMATION	MRS.R.Ākilandeswari AP/EEE
	912619105003	ABITHA P	III/VI		
	912619105008	PAVITHRA M	III/VI		
2.	912619105004	ARTHY N	III/VI	HIGH VOLTAGE GAIN NON-COUPLED INDUCTOR SEPIC CONVERTER	Ms.Raga Brindha AP/EEE
	912619105009	PRAGADEESHWARI A	III/VI		
	912619105301	RAGAVI R	III/VI		
3.	912619105002	ABINAYA S	III/VI	SMART ENERGY MANAGEMENT SYSTEM IN BUILDING USING MATLAB	Mr.J.Sathiyaraj AP/EEE
	912619105005	DEEPIKA R	III/VI		
	912619105007	NISHA S	III/VI		
	912619105010	SIVARANJANI S	III/VI		


PROJECT COORDINATOR


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


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


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



SMART BUILDING AUTOMATION
A MINI PROJECT REPORT



Submitted by

R.AASHIKA

Reg. No (912619105001)

P.ABITHA

Reg. No (912619105003)

M.PAVITHRA

Reg. No (912619105008)

in partial fulfillment for the award of the degree

of

BACHELOR OF ENGINEERING

in

ELECTRICAL AND ELECTRONICAL ENGINEERING

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

KAIKKURICHI, PUDUKKOTTAI-622 303

ANNA UNIVERSITY : CHENNAI 600 025

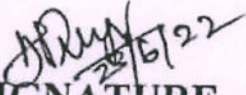
JUNE 2022

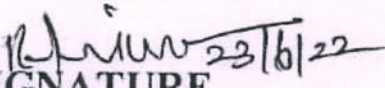
Dr. S. THILAGAVATHI M.E., Ph.D.,
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurichi - 622 303, Pudukkottai Dt.

ANNA UNIVERSITY : CHENNAI 600 025


BONAFIDE CERTIFICATE

Certified that this project report "SMART BUILDING AUTOMATION" is the bonafide work of "R.AASHIKA (Reg. No 912619105001), P.ABITHA (Reg. No 912619105003), M.PAVITHRA (Reg. No 912619105008)" who carried out the project work under my supervision.


SIGNATURE
Mrs.P.PRIYA M.E,P.hd.,
Assistant Professor/EEE
HOD of EEE,
SBECW,
Kaikkurichi-622 303


SIGNATURE
Mrs. R.AKILANDESHWARI M.E.,
Assistant Professor/EEE
SUPERVISOR,
SBECW,
Kaikkurichi-622 303

Submitted for the project work and viva-voce held on...24.6.22...


INTERNAL EXAMINER


EXTERNAL EXAMINER


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



**A HIGH VOLTAGE GAIN NON-
COUPLED INDUCTOR
SEPIC CONVERTER**



A MINI PROJECT REPORT

Submitted by

N.ARTHY

Reg. No (912619105004)

A.PRAGADEESHWARI

Reg. No (912619105009)

R.RAGAVI

Reg. No (912619105301)

in partial fulfillment for the award of the degree

of

BACHELOR OF ENGINEERING

in

ELECTRICAL AND ELECTRONICS ENGINEERING

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

KAIKKURICHI, PUDUKKOTTAI-622 303

ANNA UNIVERSITY : CHENNAI 600 025

JUNE 2022

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

ANNA UNIVERSITY : CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "A HIGH VOLTAGE GAIN NON-COUPLED INDUCTOR SEPIC CONVERTER" is the bona-fide work of "N.ARTHY (912619105004), A.PRAGADEESHWARI ((912619105009), R.RAGAVI (912619105301)" who carried out the project work under my supervision.


SIGNATURE


Mrs.B.PRIYA M.E, P. hd.,

HOD

Department Of EEE,

SBECW,

Kaikkurichi-622 303


SIGNATURE

Ms. S.RAGA BRINTHA M.E.,

SUPERVISOR

Department of EEE

SBECW,

Kaikkurichi-622 303

Submitted for the project work and viva-voce held on. 24/6/22.....


INTERNAL EXAMINER


EXTERNAL EXAMINER

||

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



**SMART ENERGY MANAGEMENT
SYSTEM IN BUILDING UNSING MATLAB**



A PROJECT REPORT

Submitted by

S.ABINAYA	(912619105002)
R.DEEPIKA	(912619105005)
S.NISHA	(912619105007)
S.SIVARANJANI	(912619105010)

in partial fulfillment for the award of the degree

of

BACHELOR OF ENGINEERING

in

ELECTRICAL AND ELECTRONICS ENGINEERING

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

ANNA UNIVERSITY: CHENNAI 622 025

JUNE 2022

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

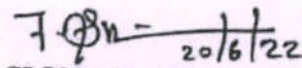
ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "SMART ENERGY MANAGEMENT SYSTEM IN BUILDING USING MATLAB" is the bonafide work of "S.ABINAYA (912619105002), R.DEEPIKA (912619105005), S.NISHA (912619105007) and S.SIVARANJANI (912619105010)" who carried out the project work under my Supervision.



SIGNATURE

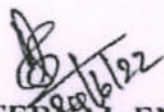
Mrs. B. PRIYA M.E., Ph.D.,
HEAD OF THE DEPARTMENT
Dept of EEE,
Sri Bharathi Engineering
College for Women,
Kaikkurichi -622 303.


SIGNATURE

Mr. J. SATHYARAJ M.E.,
SUPERVISOR
Dept of EEE,
Sri Bharathi Engineering
College for Women,
Kaikkurichi -622 303.

Submitted for University project viva-voce held on 24.6.22


INTERNAL EXAMINER


EXTERNAL EXAMINER


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



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**

PROBLEM SOLVING

PROJECT



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

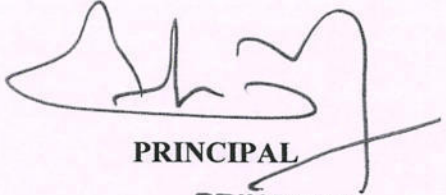
LIST OF STUDENTS-IV YEAR EEE- PROBLEM SOLVING METHOD

ACADEMIC YEAR 2021-2022

BATCH NO	REG NO	NAME	PROJECT TITLE	PROJECT SUPERVISOR
I	912618105001	AARTHI G	MULTI CHARGING E-VEHICLES BATTERY MANAGEMENT SYSTEM	MR.J.SATHYARAJ
	912618105002	AASHA R		
	912618105003	AGARI S		
	912618105004	JEEVITHA R		
II	912618105005	NISHA K	OPTIMAL POWER GENERATION FOR CRITICAL AND NON CRITICAL LOAD WITH HYBRID RENEWABLE SYSTEM	MRS.B.PRIYA
	912618105006	RAMANA R		
	912618105007	SNEHA S		
	912618105301	VINOTHINI V		


PROJECT COORDINATOR


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


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


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



**MULTI CHARGING E-VEHICLES
BATTERY MANAGEMENT SYSTEM**



A PROJECT REPORT

Submitted by

G.AARTHI	(912618105001)
R.AASHA	(912618105002)
S.AGARI	(912618105003)
R.JEEVITHA	(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,
KAIKKURICHI, PUDUKKOTTAI-622 303.**

ANNA UNIVERSITY: CHENNAI 622 025

JUNE 2022

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

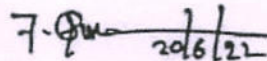
ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "MULTI CHARGING E - VEHICLES BATTERY MANAGEMENT SYSTEM" is the bonafide work of "G.AARTHI (912618105001), R.AASHA (912618105002), S.AGARI (912618105003) and R.JEEVITHA (912618105004)" who carried out the project work under my Supervision.



SIGNATURE

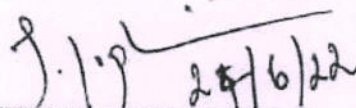
Mrs. B. PRIYA M.E., Ph.D*
HEAD OF THE DEPARTMENT
Dept of EEE,
Sri Bharathi Engineering
College for Women,
Kaikkurichi -622 303.


SIGNATURE

Mr. J. SATHYARAJ M.E.,
SUPERVISOR
Dept of EEE,
Sri Bharathi Engineering
College for Women,
Kaikkurichi -622 303.

Submitted for University project viva-voce held on 24.06.2022


INTERNAL EXAMINER


EXTERNAL EXAMINER


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



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



A PROJECT REPORT

Submitted by

K.NISHA	(912618105005)
R.RAMANA	(912618105006)
S.SNEHA	(912618105007)
V.VINOTHINI	(912618105301)

In partial fulfillment for the award of the degree

of

BACHELOR OF ENGINEERING

in

ELECTRICAL AND ELECTRONICS ENGINEERING

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

ANNA UNIVERSITY: CHENNAI 600 025

JUNE 2022

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

ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "OPTIMAL POWER GENERATION FOR CRITICAL AND NON CRITICAL LOAD WITH HYBRID RENEWABLE SYSTEM" is the Bonafide work of "K.NISHA (912618105005), R.RAMANA (912618105006), S.SNEHA (912618105007),V.VINOTHINI (912618105301)"

who carried out the project work under my supervision.

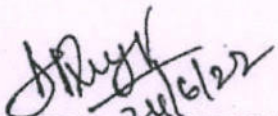

SIGNATURE

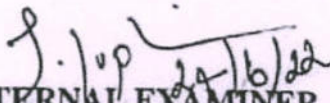
Mrs. B. PRIYA ME.,Phd.,
Asst. Professor & Head,
Electrical and Electronics Engineering,
Sri Bharathi Engineering,
College for Women,
Kaikkurichi - 622 303.


SIGNATURE

Mrs. B. PRIYA ME.,Phd.,
SUPERVISOR/Asst. Professor,
Electrical and Electronics Engineering,
Sri Bharathi Engineering,
College for Women,
Kaikkurichi - 622 303.

Submitted for the Viva-Voice Examinations held at "Sri Bharathi Engineering College for Women, Kaikkurichi" on...24..06..2022.....


INTERNAL EXAMINAR


EXTERNAL EXAMINER


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