



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

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Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

Criteria 2

Teaching-Learning and Evaluation

350

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

2022-2023

**ELECTRICAL AND ELECTRONICS
ENGINEERING
PROBLEM SOLVING**

Activity	Number of Students attended	Page No.
Tutorial	12	3
Mini Project	06	8
Project	10	15
TOTAL SUDENTS ATTENDED	28	-



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2022-2023

**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 2022-2023

PROBLEM SOLVING METHOD

LIST OF STUDENTS II YEAR EEE-PROBLEM SOLVING METHOD

S.NO	REG.NO	NAME	YEAR/ SEM	LEARNING METHOD
1.	912621105001	GOKULAPRAVEENA A	II/III	PROBLEM SOLVING METHOD- TUTORIAL EE3301- ELECTROMAGNETIC FIELDS.
2.	912621105004	SUMITHRA S	II/III	

Name and signature of the Faculty Incharge

HoD/EEE

HOD EEE

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

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

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DEPARTMENT OF ELECTRONICS AND ELECTRICAL ENGINEERING

Tutorial Answer Sheet

Name of the Student: *S. Sumithra*

AU Register Number: *912621105004*

Tutorial – 02		Date of Issue:	16.09.22	Marks	10
Course code	EE3301	Course Title	ELECTROMAGNETIC FIELDS		
Year	II	Semester	III	Date of Submission:	23.09.22

Q.No	Questions	CO
1	A positive charge of 3×10^{-2} C located at $P_1(3, -2, -4)$ m and negative charge of 5×10^{-6} C is located at $P_2(1, -4, 3)$ m. Find (i) vector force on negative charge (ii) Magnitude of force on charge at P_1	C202.1
2	Find the electric field intensity at a point P located at $(0, 0, h)$ m due to charge of surface charge density σ C/m ² uniformly distributed over the circular disc $r \leq a, z=0$ m and correlate your result by applying gauss's law.	C202.1
3	State Curl - theorems and applications.	C202.1

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.,
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2022-2023

PROBLEM SOLVING METHOD

LIST OF STUDENTS IV YEAR EEE-PROBLEM SOLVING METHOD

S.NO	REG.NO	NAME	YEAR / SEM	LEARNING METHOD
1.	912619105001	AASHIKA R	IV/VII	PROBLEM SOLVING METHOD – TUTORIAL EE8702- POWER SYSTEM OPERATION AND CONTROL
2.	912619105002	ABINAYA S	IV/VII	
3.	912619105003	ABITHA P	IV/VII	
4.	912619105004	ARTHY N	IV/VII	
5.	912619105005	DEEPIKA R	IV/VII	
6.	912619105007	NISHA S	IV/VII	
7.	912619105008	PAVITHRA M	IV/VII	
8.	912619105009	PRAGADEESHWARI A	IV/VII	
9.	912619105010	SIVARANJANI S	IV/VII	
10.	912619105301	RAGAVI R	IV/VII	

Name and signature of the Faculty Incharge

HoD/EEE

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KAIKKURUCHI,
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DEPARTMENT OF ELECTRONICS AND ELECTRICAL ENGINEERING

Tutorial Answer Sheet

Name of the Student: *S. Nisha*

AU Register Number: *912619103007*

Tutorial – 01		Date of Issue:	15.09.22	Marks	10
Course code	EE8702	Course Title	POWER SYSTEM OPERATION AND CONTROL		
Year	IV	Semester	VII	Date of Submission:	22.09.22

Q.No	Questions	CO
1	Explain with the detail necessity of voltage and frequency regulation in power system.	C402.1
2	(a) Analyze the need for voltage and frequency regulation in power system. (b) A generating station has maximum demand of 400 MW. The annual load factor is 65% and capacity factor is 50% analyse the reserve capacity of the plant.	C402.1
3	Two synchronous generators operating in parallel. Their capacities are 300MW and 400MW. The droop characteristics of their governors are 4% and 5% from no load to full load. Assuming that the generators are operating at 50HZ at no load, how would be a load of 600MW shared between them. Calculate the system frequency at this load? Assume free governor action.	C402.1

Mark Allocation

Rubrics	Marks Allocated	Marks obtained
Problem solving approach	6	5
Correctness of Answer	2	2
Timely submission	2	2
Total marks	10	09

Name and Signature of the Faculty Incharge

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



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Criteria 2

Teaching-Learning and Evaluation

350

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

2022-2023

**ELECTRICAL AND ELECTRONICS
ENGINEERING**

PROBLEM SOLVING

MINI PROJECT



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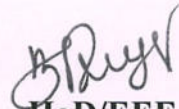
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2022-2023

PROBLEM SOLVING METHOD

LIST OF STUDENTS III YEAR EEE-PROBLEM SOLVING METHOD

S.NO	REG.NO	NAME	YEAR/ SEM	TOPICS	LEARNING METHOD
1.	912620105001	KAYALVIZHI K	III/VI	HIGH ENERGY THEFT DETECTION WITH REMOTE ALERT SYSTEM	PROBLEM SOLVING METHOD- MINI PROJECT
	912620105003	SRINANTHANA S	III/VI		
	912620105305	SRIBHARATHI S	III/VI		
2.	912620105002	RAMADEVI S	III/VI	AUTOMATIC POWER FACTOR COMPENSATION FOR INDUSTRIAL PURPOSE TO MINIMIZE PENALTY	
	912620105302	KAVIYA R	III/VI		
	912620105303	KOPPERUNDEVI S	III/VI		


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KAIKKURICHI
PUDUKKOTTAI


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PRINCIPAL
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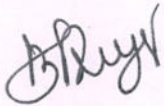
ACADEMIC YEAR 2022-2023


PROBLEM SOLVING METHOD

LIST OF STUDENTS III YEAR EEE-PROBLEM SOLVING METHOD

BATCH NO	REG.NO	NAME	YEAR/ SEM	PROJECT TITLE	GUIDE NAME
1.	912620105001	KAYALVIZHI K	III/VI	HIGH ENERGY THEFT DETECTION WITH REMOTE ALERT SYSTEM	Mrs.BOWRNILA AP/EEE
	912620105003	SRINANTHANA S	III/VI		
	912620105305	SRIBHARATHI S	III/VI		
2.	912620105002	RAMADEVI S	III/VI	AUTOMATIC POWER FACTOR COMPENSATION FOR INDUSTRIAL PURPOSE TO MINIMIZE PENALTY	Mr.T.PARTHIBAN AP/EEE
	912620105302	KAVIYA R	III/VI		
	912620105303	KOPPERUNDEVI S	III/VI		


PROJECT COORDINATOR


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


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



HIGH ENERGY THEFT DETECTION WITH REMOTE ALERT SYSTEM

A MINI PROJECT REPORT

Submitted by

KAYALVIZHI.K	(912620105001)
SRINANTHANA.S	(912620105003)
SRIBHARATHI.S	(912620105305)

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

MAY 2023

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 mini project report "HIGH ENERGY THEFT DETECTION WITH REMOTE ALERT SYSTEM" is the bonafied work of K. KAYALVIZHI (912620105001), S. SRINANTHANA (912620105003), S. SRIBHARATHI (912620105305) who carried out the project work under my supervision.

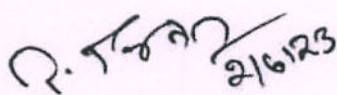

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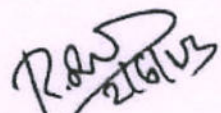
Mrs. B. PRIYA M. E, (Ph.D.),
HEAD OF THE DEPARTMENT,
Dept of EEE,
Sri Bharathi Engineering College
For Women,
Kaikkurichi,
Pudukkottai- 622 303.


SIGNATURE

Mrs. P. BOWNILA M.E.,
ASSISTANT PROFESSOR,
SUPERVISOR
Dept of EEE,
Sri Bharathi Engineering College
For Women, Kaikkurichi,
Pudukkottai -622 303.

Submitted for the project work and viva-voce held on02.06.2023


INTERNAL EXAMINER


EXTERNAL EXAMINER


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



AUTOMATIC POWER FACTOR COMPENSATION FOR INDUSTRIAL PURPOSE TO MINIMIZE PENALTY

A MINI PROJECT REPORT

Submitted by

RAMADEVI.S	(912620105002)
KAVIYA.R	(912620105302)
KOPPERUNDEVI.S	(912620105303)

In partial fulfillment for the award of the degree

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SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN,

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ANNA UNIVERSITY: CHENNAI 600 025

MAY 2023

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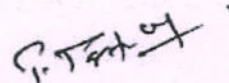
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Certified that this mini project report "AUTOMATIC POWER FACTOR COMPENSATION FOR INDUSTRIAL PURPOSE TO MINIMIZE PENALTY" is the bonafied work of S. RAMADEVI (912620105002), R. KAVIYA (912620105302), S. KOPPERUNDEVI (912620105303) who carried out the project work under my supervision.



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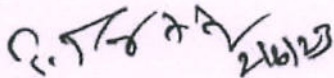
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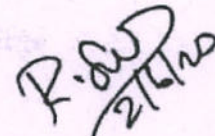
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Mr. T.PARTHIBAN M.E.,
ASSISTANT PROFESSOR,
SUPERVISOR
Dept of EEE,
Sri Bharathi Engineering College
For Women, Kaikkurichi,
Pudukkottai -622 303.

Submitted for the project work and viva-voce held on ...27.5.23...



INTERNAL EXAMINER



EXTERNAL EXAMINER

(R. SEVAMANICKANDAN)



Dr. S.THILAGAVATHI M.E.,Ph.D.,
PRINCIPAL
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2022-2023

**ELECTRICAL AND ELECTRONICS
ENGINEERING**

PROBLEM SOLVING

PROJECT



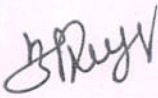
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

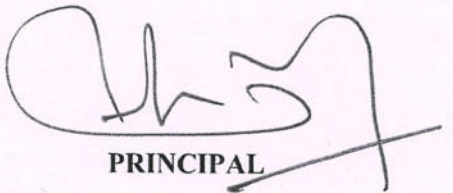
LIST OF STUDENTS-IV YEAR EEE- PROBLEM SOLVING METHOD

ACADEMIC YEAR 2022-2023

BATCH NO	REG NO	NAME	PROJECT TITLE	PROJECT SUPERVISOR
I	912619105001	AASHIKA R	NOVEL AGRICULTURAL MONITORING SYSTEM WITH MATLAB VALIDATION	MR.T.PARTHIBAN
	912619105003	ABITHA P		
	912619105007	NISHA S		
II	912620105002	ABINAYA S	VALIDATION OF MATLAB IN MONITORING THE PARAMETERS OF A SINGLE PHASE INDUCTION MOTOR USING AN ESP32 MICROCONTROLLER	MRS.B.PRIYA
	912619105008	PAVITHRA M		
	912619105010	SIVARANJANI S		
III	912619105004	ARTHY N	SMART VENTILATION SYSTEM AND HEALTH CARE CONTROL USING IOT AND BIG DATA ANALYSIS	MR.T.PARTHIBAN
	912619105005	DEEPIKA R		
	912619105009	PRAGADEESHWARI A		
	912619105301	RAGAVI R		


PROJECT COORDINATOR


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SRI BHARATHI ENGINEERING
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**NOVEL AGRICULTURAL MONITORING SYSTEM
WITH MATLAB VALIDATION**

A PROJECT REPORT

Submitted by

AASHIKA.R	(912619105001)
ABITHA.P	(912619105003)
NISHA.S	(912619105007)

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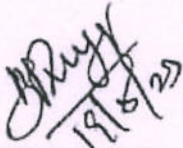
MAY 2023


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

Certified that this project report "NOVEL AGRICULTURAL MONITORING SYSTEM WITH MATLAB VALIDATION" is the bonafied work of R. AASHIKA (912619105001), P. ABITHA (912619105003), S. NISHA (912619105007) who carried out the project work under my supervision.



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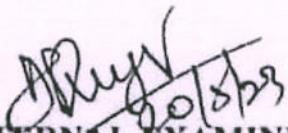
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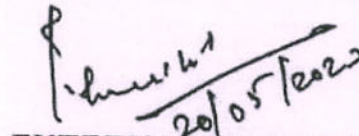
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Submitted for the project work and viva-voce held on20/05/2022



INTERNAL EXAMINER



EXTERNAL EXAMINER



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PRINCIPAL
SRI BHARATHI ENGINEERING
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Kaikkurichi - 622 303, Pudukkottai Dt.



VALIDATION OF MATLAB IN MONITORING THE PARAMETERS OF A SINGLE-PHASE INDUCTION MOTOR USING AN ESP32 MICROCONTROLLER

A PROJECT REPORT

Submitted by

ABINAYA.S	(912619105002)
PAVITHRA.M	(912619105008)
SIVARANJANI.S	(912619105010)

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MAY 2023

Dr. S. THILAGAVATHI M.E., Ph.D.,
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Certified that this project report "VALIDATION OF MATLAB IN MONITORING THE PARAMETERS OF A SINGLE-PHASE INDUCTION MOTOR USING AN ESP32 MICROCONTROLLER" is the bonafide work of S. ABINAYA (912619105002), M. PAVITHRA (912619105008), S.SIVARANJANI (912619105010) who carried out the project work under my supervision.

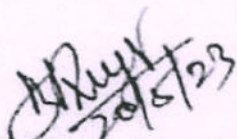

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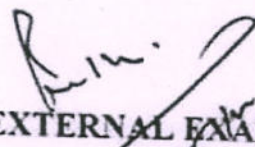
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SIGNATURE

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Submitted for project work and viva voce held on 20.5.2023


INTERNAL EXAMINER


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



SMART VENTILATION SYSTEM AND HEALTH CARE CONTROL USING IOT AND BIG DATA ANALYTICS

A PROJECT REPORT

Submitted by

ARTHY.N	(912619105004)
DEEPIKA.R	(912619105005)
PRAGADEESHWARIA	(912619105009)
RAGAVI.R	(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

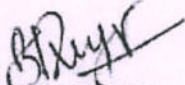
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Dr. S. THILAGAVATHI M.E., Ph.D.,
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN,
Kaikkurichi - 622 303, Pudukkottai Dt.

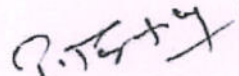
ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "SMART VENTILATION SYSTEM AND HEALTH CARE CONTROL USING IOT AND BIG DATA ANALYTICS" is the bonafide work of N. ARTHY (912619105004), R. DEEPIKA (912619105005), A. PRAGADEESHWARI (912619105009) and R. RAGAVI (912619105301) who carried out the project work under my supervision.

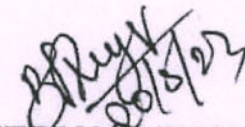

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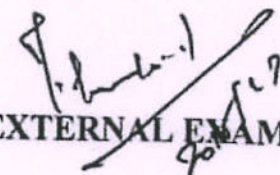
Mrs. B. PRIYA, M. E, (Ph.D.),,
HEAD OF THE DEPARTMENT,
Dept of EEE,
Sri Bharathi Engineering
College For women,
Kaikkurichi,
Pudukkottai- 622 303.


SIGNATURE

Mr. T. PARTHIBAN, M.E,
ASSISTANT PROFESSOR,
SUPERVISOR
Dept of EEE,
Sri Bharathi Engineering college
for women, Kaikkurichi,
Pudukkottai - 622 303.

Submitted for project work and viva voce held on 20.5.2023


INTERNAL EXAMINER


EXTERNAL EXAMINER


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