



SRI BHARATHI

ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)
Kaikkurichi, Pudukkottai -622 303

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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)

2019-2020

**ELECTRICAL AND ELECTRONICS
ENGINEERING
PROBLEM SOLVING**

Activity	Number of Students Attended	Page No.
Tutorial	8	3
Project	12	6
Mini Project	8	16
TOTAL STUDENTS ATTENDED	28	-



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2019-2020

**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 2019-2020

PROBLEM SOLVING METHOD

LIST OF STUDENTS II YEAR EEE-PROBLEM SOLVING METHOD

SL.NO	REG.NO	NAME	YEAR/SEM	LEARNING METHOD
1.	912618105001	AARTHI G	II/IV	PROBLEM SOLVING METHOD-TUTORIAL EE8401-ELECTRICAL MACHINES-II
2.	912618105002	AASHA R	II/IV	
3.	912618105003	AGARI S	II/IV	
4.	912618105004	JEEVITHA R	II/IV	
5.	912618105005	NISHA K	II/IV	
6.	912618105006	RAMANA R	II/IV	
7.	912618105007	SNEHA S	II/IV	
8.	912618105301	VINOTHINI V	II/IV	

A. Binrose

Name and signature of the Faculty Incharge

[Signature]
HOD/EEE

HOD EEE
SRI BHARATHI ENGINEERING
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KAIKKURICHI,
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[Signature]
Dr. S. THILAGAVATHI M.E., Ph.D.,
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DEPARTMENT OF ELECTRONICS AND ELECTRICAL ENGINEERING

Tutorial Answer Sheet

Name of the Student: *K. Nisha*

AU Register Number: *912618105005*

Tutorial – 02			Date of Issue:	06.01.20	Marks	10
Course code	EE8401	Course Title	Electrical Machines - II			
Year	II	Semester	IV	Date of Submission:	13.01.20	

Q.No	Questions	CO
1	(a) Define armature reaction and explain the effect of armature reaction on different power factor loads of synchronous generators. (b) Derive the EMF equation of a 3-phase synchronous machine.	C210.1
2	Describe how the direct and quadrature-axis reactances of a salient-pole synchronous generator and describe the features of synchronous impedance.	C210.1
3	(a) Explain phasor diagram of one phase of a synchronous generator and describe the features of synchronous impedance. (b) A 3-phase, 50 Hz, star-connected alternator with 2-layer winding is running at 600 rpm. It has 12 turns/coil, 4 slots/pole/phase and a coil-pitch of 10 slots. If flux/pole is 0.035 Wb sinusoidally distributed, find the phase and line emf's induced. Assume that the total turns/phases are series connected.	C210.1

Mark Allocation

Rubrics	Marks Allocated	Marks obtained
Problem solving approach	6	5
Correctness of Answer	2	2
Timely submission	2	2
Total marks	10	9

A. Binrose
Name and Signature of the Faculty Incharge

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ENGINEERING**

PROBLEM SOLVING

PROJECT



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

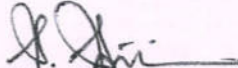
LIST OF STUDENTS-IV YEAR EEE- PROBLEM SOLVING METHOD

ACADEMIC YEAR 2019-2020

BATCH NO	REG NO	NAME	PROJECT TITLE	PROJECT SUPERVISOR
I	912616105001	ABIRAMI M	NEW CASCADED MULTILEVEL INVERTER TOPOLOGY WITH REDUCED SWITCH COUNT	MRS.R.AKILANDESWARI
	912616105002	AJITHA R		
	912616105004	GIRIJA V		
II	912616105003	JOTHIKA A	SOLAR POWERED MOBILE CHARGER	MRS.A.PRIMROSE
	912616105006	SURIYAKALA R		
	912616105007	MAHESWARI R		
III	912616105001	KARUNAMBIGAL A	WEATHER RELATED POWER OUTAGES AND POWER SYSTEM RESILIENCY	MS.R.RAGADHARSINI
	912616105002	SARANYA G		
	912616105004	PRINCY ROSELIN I		
IV	912616105003	PRASANNA K	IOT BASED SOLAR TRACKING SYSTEM	MR.J.SATHYARAJ
	912616105006	SNEHA V		
	912616105007	SUBHASRI T		


PROJECT COORDINATOR


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KAIKKURICHI - 622 303.
PUDUKKOTTAI DISTRICT



**NEW CASCADED MULTILEVEL INVERTER
TOPOLOGY WITH REDUCED SWITCH
COUNT**



A PROJECT REPORT

Submitted by

ABIRAMI M

Reg. No (912616105001)

AJITHA R

Reg. No (912616105002)

GIRIJA V

Reg. No (912616105003)

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

APRIL 2020

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

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BONAFIDE CERTIFICATE

Certified that this project report **“NEW CASCADED MULTILEVEL INVERTER TOPOLOGY WITH REDUCED SWITCH COUNT** “is the bonafide work of **ABIRAMI M (912616105001), AJITHA R (912616105002), and GIRIJA V (912616105003)** who carried out the project work under my supervision.

SIGNATURE

**Mrs.S.SUSILA DEVI M.E.,
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Pudukkottai-622303.**

Submitted for the project work and viva –voce held on

INTERNAL EXAMINER*

EXTERNAL EXAMINER*

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


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Kaikkuruchi - 622 303, Pudukkottai Dt.**



SOLAR POWERED MOBILE CHARGER



A PROJECT REPORT

Submitted by

JOTHIKA A

Reg. No (912616105006)

SURIYAKALA R

Reg. No (912616105013)

MAHESWARI R

Reg. No (912616105301)

In partial fulfillment for the award of the degree

of

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ANNA UNIVERSITY: CHENNAI 600025

BONAFIDE CERTIFICATE

Certified that this project report "SOLAR POWERED MOBILE CHARGER" is the bonafide work of JOTHIKA A (912616105006), SURIYAKALA R (912616105013) and MAHESWARI R (912616105301) who carried out the project work under my supervision.

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**WEATHER RELATED POWER OUTAGES AND
POWER SYSTEM RESILIENCY**



A PROJECT REPORT

Submitted by

**KARUNAMBIGAL A
SARANYA G
PRINCY ROSELINI**

Reg. No (912616105007)

Reg. No (912616105009)

Reg. No (912616105302)

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BONAFIDE CERTIFICATE

Certified that this project report "WEATHER RELATED POWER OUTAGES AND POWER SYSTEM RESILIENCY "is the bonafide work of KARUNAMBIGAL A (912616105007), SARANYA (912616105009) and PRINCY ROSELIN (912616105302) who carried out the project work under my supervision.

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Pudukkottai-622303.

Submitted for the project work and viva -voce held on

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EXTERNAL EXAMINER*


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



IOT BASED SOLAR TRACKING SYSTEM



A PROJECT REPORT

Submitted by

PRASANNA K

Reg. No (912616105008)

SNEHA V

Reg. No (912616105010)

SUBHASRI T

Reg. No (912616105011)

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COLLEGE FOR WOMEN

ANNA UNIVERSITY: CHENNAI 600025

BONAFIDE CERTIFICATE

Certified that this project report "IOT BASED SOLAR TRACKING SYSTEM" "is the bonafide work of PRASANNA K (912616105008), SNEHA V (912616105010) and SUBHASRI T (912616105011) who carried out the project work under my supervision.

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Mr. J.SATHYARAJ M.E.,
SUPERVISOR / Asst Professor,
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Pudukkottai-622303.

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Criteria 2

Teaching-Learning and Evaluation

350

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

2019-2020

**ELECTRICAL AND ELECTRONICS
ENGINEERING**

PROBLEM SOLVING

MINI PROJECT



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2019-2020

PROBLEM SOLVING METHOD

LIST OF STUDENTS III YEAR EEE-PROBLEM SOLVING METHOD

BATCH NO	REG.NO	NAME	YEAR/SEM	TOPIC	LEARNING METHOD
1	912617105001	NAZEERA BANU I	III/VI	SPEED CONTROL OF DC MOTOR USING 4 QUADRANT CHOPPER	PROBLEM SOLVING METHOD-MINI PROJECT
	912617105002	PARTHIKA S	III/VI		
	912617105004	SAJINA K	III/VI		
	912617105005	SELSIYA R	III/VI		
2	912617105003	PRIYA T	III/VI	DESIGN OF 2 QUADRANT BUCK BOOST CONVERTER USING MICROCONTROLLER	
	912617105006	THENMOZHI J	III/VI		
	912617105007	VANITHA E	III/VI		
	912617105302	SIYAMALADEVI S	III/VI		



HOD/EEE

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Dr. S. THILAGAVATHI M.E., Ph.D.,
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ACADEMIC YEAR 2019-2020

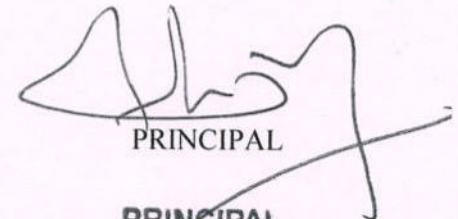
PROBLEM SOLVING METHOD

LIST OF STUDENTS III YEAR EEE-MINI PROJECT BATCH LIST

BATCH NO	REG.NO	NAME	YEAR/ SEM	PROJECT TITLE	GUIDE NAME
1	912617105001	NAZEERA BANU I	III/VI	SPEED CONTROL OF DC MOTOR USING 4 QUADRANT CHOPPER	Mrs.S.Susila Devi AP/EEE
	912617105002	PARTHIKA S	III/VI		
	912617105004	SAJINA K	III/VI		
	912617105005	SELSIYA R	III/VI		
2	912617105003	PRIYA T	III/VI	DESIGN OF 2 QUADRANT BUCK BOOST CONVERTER USING MICROCONTROLLER	Mr.J.Sathiyaraj AP/EEE
	912617105006	THENMOZHI J	III/VI		
	912617105007	VANITHA E	III/VI		
	912617105302	SIYAMALADEVI S	III/VI		


PROJECT COORDINATOR


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PUDUKKOTTAI DISTRICT


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Kaikkuruchi - 622 303, Pudukkottai Dt.



**SPEED CONTROL OF DC MOTOR USING 4
QUADRANT CHOPPER**



A MINI PROJECT REPORT

Submitted by

NAZEERA BANU I

Reg. No (912617105001)

PARTHIKA S

Reg. No (912617105002)

SAJINA K

Reg. No (912617105004)

SELSIYA R

Reg. No (912617105005)

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JUNE 2020

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Kaikkurchi - 622 303, Pudukkottai Dt.

ANNA UNIVERSITY: CHENNAI 600025

BONAFIDE CERTIFICATE

Certified that this mini project report “ **SPEED CONTROL OF DC MOTOR USING 4 QUADRANT CHOPPER** “ is the bonafide work of **NAZEERA BANU I (912617105001)** , **PARTHIKA S (912617105002)**, **SAJINA K (912617105004)**, **SELSIYA R (912617105005)** who carried out the mini project work under my supervision.

SIGNATURE

Mrs.S.SUSILA DEVI M.E.,
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INTERNAL EXAMINER*

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Kaikkurchi - 622 303, Pudukkottai Dt.



**DESIGN OF 2 QUADRANT BUCK BOOST
CONVERTER USING MICROCONTROLLER**



A MINI PROJECT REPORT

Submitted by

PRIYA T

Reg. No (912617105003)

THENMOZHI J

Reg. No (912617105006)

VANITHA E

Reg. No (912617105007)

SIYAMALADEVI S

Reg. No (912617105302)

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JUNE 2020

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ANNA UNIVERSITY: CHENNAI 600025

BONAFIDE CERTIFICATE

Certified that this mini project report "DESIGN OF 2 QUADRANT BUCK BOOST CONVERTER USING MICROCONTROLLER" is the bonafide work of PRIYA T (912617105003), THENMOZHI J (912617105006), VANITHA E (912617105007), SIYAMALADEVI S (912617105302) who carried out the mini project work under my supervision.

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