

Department of Electrical and Electronics Engineering

Batch Allocation

Degree & Branch: B.E., Electrical and Electronics Engineering

Year & Semester: IV & VIII

Course Code & Name EE1821 & Project Work

Academic year & Sem.: 2023-24 (Even Semester)

Student's Strength: 36

S. No.	Batch	Roll No.	Reg. No.	Student's Name	Project Title	Project Supervisor
1.	1	20UEE011	920420UEE011	AMRUTHA SRI.G	Fabrication of low-cost digital meter for various electrical application	Dr. D. Prince Winston, Prof. & Head/EEE
2.	2	20UEE006	920420UEE006	SHALINI.D	Development of ecofriendly battery balancing kit for electric vehicle applications	Dr. D. Prince Winston, Prof. & Head/EEE
3.	2	20UEE016	920420UEE016	BHAVYA SREE.C	Development of ecofriendly battery balancing kit for electric vehicle applications	Dr. D. Prince Winston, Prof. & Head/EEE
4.	3	20UEE003	920420UEE003	GOBINATH .M	Maximization of output power for the different position of photovoltaic panel with reduced area: An Integrative experimental investigation	Dr. B. Gurukarthik Babu, AP/EEE
5.	3	20UEE004	920420UEE004	RAMKUM AR.K	Maximization of output power for the different position of photovoltaic panel with reduced area: An Integrative experimental investigation	Dr. B. Gurukarthik Babu, AP/EEE
6.	3	20UEE005	920420UEE005	VIJAY.K	Maximization of output power for the different position of photovoltaic panel with reduced	Dr. B. Gurukarthik Babu, AP/EEE



S. No.	Batch	Roll No.	Reg. No.	Student's Name	Project Title	Project Supervisor
					area: An Integrative experimental investigation	
7.	3	20UEE013	920420UEE013	HARAI HARA PRABHU.R	Maximization of output power for the different position of photovoltaic panel with reduced area: An Integrative experimental investigation	Dr. B. Gurukarthik Babu, AP/EEE
8.	4	20UEE009	920420UEE009	DEVAKALI DASS.K	Integration and optimization of wireless electric vehicle charging infrastructure	Dr. G. Sakthivel, AP/EEE
9.	4	20UEE024	920420UEE024	BIJESH.A	Integration and optimization of wireless electric vehicle charging infrastructure	Dr. G. Sakthivel, AP/EEE
10.	5	20UEE008	920420UEE008	SANJAY BHARATHI .B	Performance assessment of a bifacial solar photovoltaic system: A Comparative analysis	Er. K. Ganesan, AP/EEE
11.	5	20UEE010	920420UEE010	MOHAMED LUQMAAN .P	Performance assessment of a bifacial solar photovoltaic system: A Comparative analysis	Er. K. Ganesan, AP/EEE
12.	5	20UEE034	920420UEE034	LOGESH.S	Performance assessment of a bifacial solar photovoltaic system: A Comparative analysis	Er. K. Ganesan, AP/EEE
13.	5	20UEE038	920420UEE038	M.ROHITH RAJU	Performance assessment of a bifacial solar photovoltaic system: A Comparative analysis	Er. K. Ganesan, AP/EEE
14.	6	20UEE002	920420UEE002	VISHAL.M. S	Performance evaluation of a vertical bifacial solar photovoltaic system: An experimental analysis	Er. K. Ganesan, AP/EEE



S. No.	Batch	Roll No.	Reg. No.	Student's Name	Project Title	Project Supervisor
15.	6	20UEE019	920420UEE019	SANTHOS HKUMAR.P	Performance evaluation of a vertical bifacial solar photovoltaic system: An experimental analysis	Er. K. Ganesan, AP/EEE
16.	6	20UEE028	920420UEE028	SUDHARS ON.S	Performance evaluation of a vertical bifacial solar photovoltaic system: An experimental analysis	Er. K. Ganesan, AP/EEE
17.	6	20UEE033	920420UEE033	SRI SANJAY RAM. K	Performance evaluation of a vertical bifacial solar photovoltaic system: An experimental analysis	Er. K. Ganesan, AP/EEE
18.	7	20UEE021	920420UEE021	SHAILEAS H.M	Speed control of induction motor by ultrasonic radar object detection	Mr. R. Ganesan, AP/EEE
19.	7	20UEE025	920420UEE025	VIJAYAKU MAR.K	Speed control of induction motor by ultrasonic radar object detection	Mr. R. Ganesan, AP/EEE
20.	7	20UEE029	920420UEE029	NAVANEE THA KRISHNAN .N	Speed control of induction motor by ultrasonic radar object detection	Mr. R. Ganesan, AP/EEE
21.	7	20UEE030	920420UEE030	BALAMUR UGAN.N	Speed control of induction motor by ultrasonic radar object detection	Mr. R. Ganesan, AP/EEE
22.	8	20UEE017	920420UEE017	NISHITHA. S	Optimal tilt angle of solar panel	Er. S. Jegan, AP/EEE
23.	8	20UEE020	920420UEE020	SANTHIYA BHARATHI .K	Optimal tilt angle of solar panel	Er. S. Jegan, AP/EEE
24.	8	20UEE023	920420UEE023	KOWSIKA. K	Optimal tilt angle of solar panel	Er. S. Jegan, AP/EEE
25.	8	20UEE026	920420UEE026	KEERTHA NA.G	Optimal tilt angle of solar panel	Er. S. Jegan, AP/EEE



S. No.	Batch	Roll No.	Reg. No.	Student's Name	Project Title	Project Supervisor
26.	9	20UEE001	920420UEE001	SAKTHIVE L.N	Artificial intelligence based adaptive protection for a microgrid with distributed energy resources	Er. T. Hariprasath, AP/EEE
27.	9	20UEE015	920420UEE015	SRIDHAR. K	Artificial intelligence based adaptive protection for a microgrid with distributed energy resources	Er. T. Hariprasath, AP/EEE
28.	9	20UEE018	920420UEE018	KIRUBHAK ARAN.G	Artificial intelligence based adaptive protection for a microgrid with distributed energy resources	Er. T. Hariprasath, AP/EEE
29.	9	20UEE032	920420UEE032	MOHAMED KALITH.S	Artificial intelligence based adaptive protection for a microgrid with distributed energy resources	Er. T. Hariprasath, AP/EEE
30.	10	20UEE007	920420UEE007	THIRUPPA THI.P	Preparation of ecofriendly fireworks composition with Prosopis juliflora seed powder and analysis of static electricity	Er. T. Hariprasath, AP/EEE & Er. J. Uma Maheswari, AP/EIE
31.	10	20UEE035	920420UEE035	MARTIN SAIMAN.R	Preparation of ecofriendly fireworks composition with Prosopis juliflora seed powder and analysis of static electricity	Er. T. Hariprasath, AP/EEE & Er. J. Uma Maheswari, AP/EIE
32.	10	20UEE036	920420UEE036	VIJAY.P	Preparation of ecofriendly fireworks composition with Prosopis juliflora seed powder and analysis of static electricity	Er. T. Hariprasath, AP/EEE & Er. J. Uma Maheswari, AP/EIE



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S. No.	Batch	Roll No.	Reg. No.	Student's Name	Project Title	Project Supervisor
33.	10	20UEE037	920420UEE037	SRIDHAR. B	Preparation of ecofriendly fireworks composition with Prosopis julifora seed powder and analysis of static electricity	Er. T. Hariprasath, AP/EEE & Er. J. Uma Maheswari, AP/EIE
34.	11	20UEE012	920420UEE012	ANANTH.K	Controllable socket for timed electrical appliance activation	Mr. T. Hariprasath, AP/EEE
35.	11	20UEE014	920420UEE014	ARUN.M	Controllable socket for timed electrical appliance activation	Mr. T. Hariprasath, AP/EEE
36.	11	20UEE027	920420UEE027	SUDHARS AN.J	Controllable socket for timed electrical appliance activation	Mr. T. Hariprasath, AP/EEE

Staff in Charge

Dr. B. Gurukarthik Babu

Assistant Professor/EEE

Kamaraj College of Engineering
and Technology, Virudhunagar.

HoD/EEE

Dr. D. Prince Winston

Professor & Head / EEE

Kamaraj College of Engineering
and Technology, Virudhunagar.

FABRICATION OF LOW COST DIGITAL METER FOR VARIOUS ELECTRICAL APPLICATIONS

A PROJECT REPORT

Submitted by

G. AMRUTHA SRI (920420UEE011)

In partial fulfillment for the award of the degree of

BACHELOR OF ENGINEERING

IN

ELECTRICAL AND ELECTRONICS ENGINEERING



**DEPARTMENT OF ELECTRICAL AND ELECTRONICS
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**KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY
(An Autonomous Institution - Affiliated to Anna University, Chennai)**

K.VELLAKULAM - 625 701 (Near Virudhunagar)

APRIL 2024

KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY
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K.VELLAKULAM - 625 701 (Near Virudhunagar)

BONAFIDE CERTIFICATE

Certified that the project report "FABRICATION OF LOW COST DIGITAL FOR
VARIOUS ELECTRICAL APPLICATIONS" is the bonafide work of
G. AMRUTHA SRI (920420UEE011) who carried out the project work
under my supervision.



SIGNATURE

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Head of the Department,Professor
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INTERNAL EXAMINER

[Dr. B. Guruskarthik Babu]



EXTERNAL EXAMINER

Dr. M. Muhaiddeen
MSEC.

DEVELOPMENT OF ECO FRIENDLY BATTERY BALANCING KIT FOR ELECTRIC VEHICLE APPLICATIONS

A PROJECT REPORT

Submitted by

SHALINI D (920420UEE006)

BHAVYA SREE C (920420UEE016)

in partial fulfillment for the award of the degree of

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BONAFIDE CERTIFICATE

Certified that the project report "DEVELOPMENT OF ECO FRIENDLY BATTERYBALANCING KIT FOR ELECTRIC VEHICLE APPLICATIONS" is the bonafide work of D.SHALINI (920420UEE006) & C. BHAVYA SREE(920420UEE016) who carried out the project work under my supervision.


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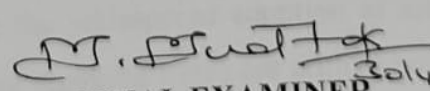
Dr.D.Prince Winston M.E.,Ph.D.,
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INTERNAL EXAMINER

[Dr. B. Ganeshaiah Babu]


EXTERNAL EXAMINER

[Dr. M. Muhaimdeen
Asst. Prof, MEE]

**MAXIMIZATION OF OUTPUT POWER FOR THE DIFFERENT
POSITION OF PHOTOVOLTAIC PANEL WITH REDUCED
AREA: AN INTEGRATIVE EXPERIMENTAL INVESTIGATION**

A PROJECT REPORT

Submitted by

GOBINATH M (920420UEE003)

RAMKUMAR K (920420UEE004)

VIJAY K (920420UEE005)

HARIHARAPRABHU (920420UEE013)

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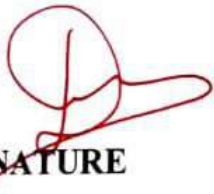
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BONAFIDE CERTIFICATE

Certified that the project report "A MAXIMIZATION OF OUTPUT POWER FOR THE DIFFERENT POSITION OF PHOTOVOLTAIC PANEL WITH REDUCED AREA : AN INTEGRATIVE EXPERIMENTAL INVESTIGATION" is the bonafide work of "M. GOBINATH (20UEE003), K. RAMKUMAR (920420UEE004), K. VIJAY (920420UEE005) & R. HARIHARA PRABHU (920420UEE013)" who carried out the project work under my supervision.



SIGNATURE

Dr. D. PRINCE WINSTON, M.E.,Ph.D.,

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SIGNATURE

Dr. B. GURUKARTHIK BABU, M.E.,Ph.D.,

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Virudhunagar - 625 701.



INTERNAL EXAMINER

[Dr. B. Gurukarthik Babu]

F.16.



EXTERNAL EXAMINER

(Dr. M. Muhaidheem
Asst. Prof., MSEC)

Integration and Optimization of Wireless Electric Vehicle Charging Infrastructure

A PROJECT REPORT

Submitted by

DEVAKALIDASS K (920420UEE009)

BIJESH A (920420UEE024)

in partial fulfillment for the award of the degree of

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APRIL 2024

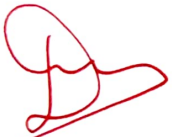
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BONAFIDE CERTIFICATE

Certified that the project report "INTEGRATION AND OPTIMIZATION OF WIRELESS ELECTRIC VEHICLE CHARGING INFRASTRUCTURE" is the bonafide work of "DEVAKALIDASS K (920420UEE009) & BIJESH A (920420UEE024)" who carried out the project work under my supervision.



SIGNATURE

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Head of the Department,

Professor EEE,

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SIGNATURE

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SUPERVISOR,

AP/EEE,

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INTERNAL EXAMINER

(Dr. B. Gunkarnik babu)



EXTERNAL EXAMINER

(Dr. M. M. Chaidheer

Asst. Prof.

PERFORMANCE ASSESSMENT OF A BIFACIAL SOLAR PHOTOVOLTIC SYSTEM: A COMPARATIVE ANALYSIS

A PROJECT REPORT

Submitted by

SANJAY BHARATHI .B (920420UEE008)

LOGESH. S (920420UEE034)

MOHAMED LUQMAAN. P (920420UEE010)

ROHITH RAJU. M (920420UEE038)

in partial fulfillment for the award of the degree of

BACHELOR OF ENGINEERING

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APRIL 2024

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BONAFIDE CERTIFICATE

Certified that the project report “**PERFORMANCE ASSESSMENT OF A BIFACIAL SOLAR PHOTOVOLTIC SYSTEM: A COMPARATIVE ANALYSIS**” is the bona fide work of **SANJAY BHARATHI (920420UEE008), LOGESH.S (920420UEE034), MOHAMED LUQMAAN .P (920420UEE010), ROHITH RAJU. M (920420UEE038)**” who carried out the project work under my supervision.


SIGNATURE

Dr. D. Prince Winston, M.E., Ph.D.
Head of the Department,
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SIGNATURE

Dr. K. Ganesan, M.E., Ph.D.
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INTERNAL EXAMINER

[Dr. B. Ganukarthik babu]


EXTERNAL EXAMINER

(Dr. M. Muralidharan
Asst. Lect., MYRC

PERFORMANCE EVALUATION OF A VERTICAL BIFACIAL SOLAR PHOTOVOLTAIC SYSTEM: AN EXPERIMENTAL ANALYSIS

A PROJECT REPORT

Submitted by

VISHAL MS (920420UEE002) SUDHARSON S
(920420UEE028) SRISANJAYRAM K
(920420UEE033) SANTHOSH KUMAR P
(920420UEE019)

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APRIL 2024

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BONAFIDE CERTIFICATE

Certified that the project report "PERFORMANCE EVALUATION OF A VERTICAL BIFACIAL SOLARPHOTOVOLTAIC SYSTEM: AN EXPERIMENTAL ANALYSIS" is the bona fide work of VISHAL M S (920420UEE002), SUDHARSON S (920420UEE028), SRISANJAYRAM K (920420UEE033), SANTHOSHKUMAR P (920420UEE019)" who carried out the project work under my supervision.



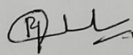
SIGNATURE

Dr. D. Prince Winston, M.E., Ph.D.
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Professor,
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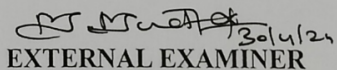
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Dr. K. Ganesan, M.E., Ph.D.
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INTERNAL EXAMINER

[Dr. S. Jeyaraj Kumar]



EXTERNAL EXAMINER

[Dr. M. M. Mahalingam]
Asst. Prof., MSEC

VORTEX INDUCED VIBRATING WIND TURBINE

A PROJECT REPORT

Submitted by

SHAILEASH M (920420UEE021)

VIJAYAKUMAR K (920420UEE025)

NAVANEETHAKRISHNAN N (920420UEE029)

BALAMURUGAN N (920420UEE025)

in partial fulfillment for the award of the degree of

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K.VELLAKULAM, VIRUDHUNAGAR - 625 701

BONAFIDE CERTIFICATE

Certified that the project report "VORTEX INDUCED VIBRATING WIND TURBINE" is the bonafide work of " M. SHAILEASH (920420UEE021), K. VIJAYAKUMAR (920420UEE025), N. NAVANEETHAKRISHNAN (920420UEE029), N. BALAMURUGAN (20UEE030) " who carried out the project work under my supervision.


SIGNATURE

Dr. D. Prince Winston, M.E.,ph.D.,

Head of the Department,

Designation,

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Virudhunagar – 625 701.


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Mr. R. Ganesan, M.E.(Ph.D.),

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Designation,

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Virudhunagar - 625 701.



INTERNAL EXAMINER

(Dr. B. S. Kumar)


EXTERNAL EXAMINER

(Dr. M. M. Muneer)
Asst. Prof., MEC

Optimal Tilt Angle of a Bifacial Solar PV Module for Maximum Power Output: A Case Study For KCET

A PROJECT REPORT

Submitted by

**NISHITHA S (920420UEE017) SANTHIYA
BHARATHI K (920420UEE020)
KOWSIKA K (920420UEE023)
KEERTHANA G (920420UEE026)**

in partial fulfillment for the award of the degree of

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APRIL 2024

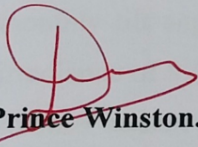
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K.VELLAKULAM, VIRUDHUNAGAR - 625 701

BONAFIDE CERTIFICATE

Certified that the project report "OPTIMAL TILT ANGLE OF A BIFACIAL SOLAR PV MODULE FOR MAXIMUM POWER OUTPUT: A CASE STUDY FOR KCET" is the bonafide work of " **SANTHIYA BHARATHI K (920420UEE020), KEERTHANA G (920420UEE026), KOWSIKA K (920420UEE023), NISHITHA S (920420UEE017)** " who carried out the project work under my supervision.

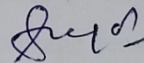


Prince Winston. D M.E., Ph.D

Head of the Department,
HoD/EEE,

Dept. of Electrical and Electronics
Engineering,

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Virudhunagar - 625 701.

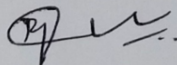


Jegan. S M.E., Ph. D

Supervisor,
AP/EEE,

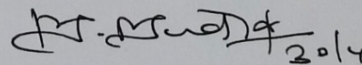
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INTERNAL EXAMINER

[Dr B. Gurusankar Reddy]
F.16.1



EXTERNAL EXAMINER

(Dr. M. Mubaidheen
ASP (EE, MDEC)

ARTIFICIAL INTELLIGENCE BASED ADAPTIVE PROTECTION FOR A MICROGRID WITH DISTRIBUTED ENERGY SYSTEM

A PROJECT REPORT

Submitted by

SAKTHIVEL N (920420UEE001)

SRIDHAR K (920420UEE015)

KIRUBHAKARAN G (920420UEE018)

MOHAMED KALITH S (920420UEE032)

in partial fulfillment for the award of the degree of

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**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY
(An Autonomous Institution - Affiliated to Anna University, Chennai)
K.VELLAKULAM, VIRUDHUNAGAR - 625 701**

APRIL 2024


KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY

(An Autonomous Institution- Affiliated to Anna University, Chennai)

K.VELLAKULAM, VIRUDHUNAGAR - 625 701

BONAFIDE CERTIFICATE

Certified that the project report "ARTIFICIAL INTELLIGENCE BASED ADAPTIVE PROTECTION FOR A MICROGRID WITH DISTRIBUTED ENERGY SYSTEM" is the bonafide work of "N. SAKTHIVEL (920420UEE001), K. SRIDHAR (920420UEE015), G. KIRUBHAKARAN (920420UEE018) and S. MOHAMED KALITH (920420UEE032)" who carried out the project work under my supervision.



SIGNATURE

Dr. D. Prince Winston, M.E., Ph.D.,
Head of the Department,
Professor,
Dept. of EEE,
Kamaraj College of Engg & Tech,
K.Vellakulam,
Virudhunagar - 625701.



SIGNATURE

Er. T. Hari Prasath, M.E.,
SUPERVISOR,
Assistant Professor,
Dept. of EEE,
Kamaraj College of Engg & Tech,
K.Vellakulam,
Virudhunagar - 625701.



INTERNAL EXAMINER

[Dr. B. Gurusankar]



EXTERNAL EXAMINER

[Dr. M. Muralidhar]
Asst. Prof., MEE

PREPARATION OF ECO-FRIENDLY FIREWORKS COMPOSITION WITH PROSOPIS JULIFORA SEED POWDER

A PROJECT REPORT

Submitted by

THIRUPPATHI. P (920420UEE007)

MARTIN SAIMAN. R (920420UEE035)

VIJAY. P (920420UEE036)

SRIDHAR. B (920420UEE037)

in partial fulfillment for the award of the degree of

**BACHELOR OF ENGINEERING
IN
ELECTRICAL AND ELECTRONICS ENGINEERING**



**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY
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APRIL 2024

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(An Autonomous Institution- Affiliated to Anna University, Chennai)

K.VELLAKULAM, VIRUDHUNAGAR - 625 701

BONAFIDE CERTIFICATE

Certified that the project report **“PREPARATION OF ECO-FRIENDLY FIREWORKS COMPOSITION WITH PROSOPIS JULIFORA SEED POWDER”** is the bonafide work of **“THIRUPPATHI P (20UEE007), MARTIN SAIMAN R (20UEE035), VIJAY P (20UEE036) and SRIDHAR . B (20UEE037)”** who carried out the project work under my supervision.

SIGNATURE

Dr. D. Prince Winston, M.E., Ph.D.

Head of the Department,

Professor,

Dept. of EEE,

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K.Vellakulam,

Virudhunagar - 625701.

SIGNATURE

Er. T. Hari Prasath, M.E.

SUPERVISOR,

Assistant Professor,

Dept. of EEE,

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K.Vellakulam,

Virudhunagar - 625701.

INTERNAL EXAMINER

EXTERNAL EXAMINER

CONTROLLABLE SOCKET FOR TIMED ELECTRICAL APPLIANCE ACTIVATION

A PROJECT REPORT

Submitted by

ANANTH K (920420UEE012)

ARUN M (920420UEE014)

SUDHARSAN J (920420UEE027)

in partial fulfillment for the award of the degree of

**BACHELOR OF ENGINEERING
IN
ELECTRICAL AND ELECTRONICS ENGINEERING**



**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY
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K. VELLAKULAM, VIRUDHUNAGAR - 625 701**

APRIL 2024

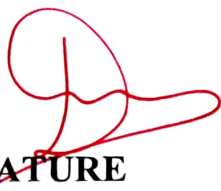
KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY

(An Autonomous Institution- Affiliated to Anna University, Chennai)

K.VELLAKULAM, VIRUDHUNAGAR - 625 701

BONAFIDE CERTIFICATE

Certified that the project report "CONTROLLABLE SOCKET FOR TIMED ELECTRICAL APPLIANCE ACTIVATION" is the bonafide work of "K.ANANTH (920420UEE012), M.ARUN (920420UEE014) & J.SUDHARSAN (920420UEE027)" who carried out the project work under my supervision.



SIGNATURE

Dr. D. PRINCEWINSTON, M.E., Ph.D.,

Head of the Department,

Professor,

Dept. of Electrical and Electronics

Engineering,

Kamaraj College of Engg & Tech,

K.Vellakulam,

Virudhunagar - 625701.



SIGNATURE

Mr. T. HARI PRASATH, M.E.,

SUPERVISOR,

Assistant Professor,

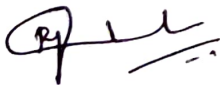
Dept. of Electrical and Electronics

Engineering,

Kamaraj College of Engg & Tech,

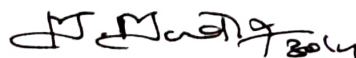
K.Vellakulam,

Virudhunagar - 625701.



INTERNAL EXAMINER

[Dr. B. Gurusankar Babu]



EXTERNAL EXAMINER

(Dr. M. Muralidharan
Asst. Prof., M.E.C



(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)

S.P.G.Chidambara Nadar - C.Nagammal Campus

S.P.G.C. Nagar, K.Vellakulam – 625 701 (Near VIRUDHUNAGAR).

Department of Electrical and Electronics Engineering

Batch Allocation

Degree & Branch: M.E., Power Systems Engineering
Year & Semester: II & IV
Course Code & Name PS1421 & Project Work - Phase II
Academic year & Sem.: 2023-24 (Even Semester)
Student's Strength: 2

S. No.	Batch	Roll No.	Reg. No.	Student's Name	Project Title	Project Supervisor
1.	1	22PPS01	920422411001	Devisridhivy adharshini M	Comparative analysis of various reconfiguration techniques for partial shading conditions in Solar Photovoltaic systems	Dr. B. Gurukarthik Babu, AP/EEE
2.	2	22PPS02	920422411002	Dona Mol A S	Enhancing the efficiency of Solar Photovoltaic panel with the golden ratio for different partial shading scenarios	Dr. D. Prince Winston, Prof. & Head/EEE

Staff in Charge

Dr. B. Gurukarthik Babu

Assistant Professor/EEE

Kamaraj College of Engineering
and Technology, Virudhunagar.

HoD/EEE

Dr. D. Prince Winston

Professor & Head / EEE

Kamaraj College of Engineering
and Technology, Virudhunagar.

COMPARATIVE ANALYSIS OF VARIOUS RECONFIGURATION TECHNIQUES FOR PARTIAL SHADING CONDITIONS IN SOLAR PHOTOVOLTAIC SYSTEMS

A THESIS

Submitted by

DEVISRIDHIVYADHARSHINI M (920422411001)

in partial fulfillment for the award of the degree of

**MASTER OF ENGINEERING
IN
POWER SYSTEMS ENGINEERING**



**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY**

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APRIL 2024

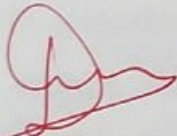
KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY

(An Autonomous Institution- Affiliated to Anna University, Chennai)

K.VELLAKULAM, VIRUDHUNAGAR - 625 701.

BONAFIDE CERTIFICATE

Certified that this Thesis titled “**COMPARATIVE ANALYSIS OF VARIOUS RECONFIGURATION TECHNIQUES FOR PARTIAL SHADING CONDITIONS IN SOLAR PHOTOVOLTAIC SYSTEMS**” is the bonafide work of **DEVISRIDHIVYADHARSHINI M (920422411001)** who carried out the work under my supervision. Certified further that to the best of my knowledge the work reported herein does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.



SIGNATURE

Dr. D. Prince Winston M.E., Ph.D.,
HEAD OF THE DEPARTMENT,

Professor,

Dept. of EEE,

Kamaraj College of Engg & Tech,

K.Vellakulam,

Virudhunagar – 625 701.



SIGNATURE

Dr. B. Gurukarthik Babu M.E., Ph.D.,
SUPERVISOR,

Assistant Professor,

Dept. of EEE,

Kamaraj College of Engg & Tech,

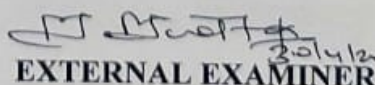
K.Vellakulam,

Virudhunagar – 625 701.



INTERNAL EXAMINER

[Dr. B. Gurukarthik Babu]


EXTERNAL EXAMINER

[Dr. M. Muhaiddeen
BSP/EEE, MSEC]

Enhancing the Efficiency of Solar Photovoltaic Panel with Golden Ratio for Different Partial Shading Scenarios

A THESIS

Submitted by

DONA MOL A S (92042241100)

in partial fulfillment for the award of the degree of

**MASTER OF ENGINEERING
IN
POWER SYSTEMS ENGINEERING**



**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY**

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K.VELLAKULAM, VIRUDHUNAGAR - 625 701

APRIL 2024

KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY
(An Autonomous Institution- Affiliated to Anna University, Chennai)
K. VELLAKULAM, VIRUDHUNAGAR - 625 701.


BONAFIDE CERTIFICATE

Certified that this Thesis titled “**ENHANCING THE EFFICIENCY OF SOLAR PHOTOVOLTAIC PANEL WITH GOLDEN RATIO FOR DIFFERENT PARTIAL SHADING SCENARIOS**” is the bonafide work of **DONA MOL A S (920422411002)** who carried out the work under my supervision. Certified further that to the best of my knowledge the work reported herein does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.



SIGNATURE

Dr. D. Prince Winston M.E., Ph.D.,
Head of the Department,
Professor,
Dept. of EEE,
Kamaraj College of Engg & Tech,
K. Vellakulam,
Virudhunagar – 625 701.



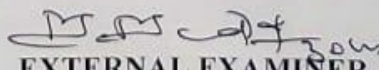
INTERNAL EXAMINER

Dr. B. Jayaraj
(Dr. B. Jayaraj)



SIGNATURE

Dr. D. Prince Winston M.E., Ph.D.,
Dr. G. Sakthivel M.E., Ph.D.,
Supervisors,
Dept. of EEE,
Kamaraj College of Engg & Tech,
K. Vellakulam,
Virudhunagar – 625 701.



EXTERNAL EXAMINER

Dr. M. Muralidharan
Asst. Prof. in EEE

DEPARTMENT OF EEE

Industrial Training / Internship / Inplant Training details

S.No.	Roll Number	Register Number	Name of the Student	No. of Days	No. of Hours	From Date	To Date	Name of the Industry	Address of the Industry
1	21UEE002	920421105022	THIGAN.K.J	17	119	19.06.2023	05.07.2023	Azure soft tech	Azure soft tech, Madurai
2	21UEE003	920421105003	AJAY.M	17	119	19.06.2023	05.07.2023	Azure soft tech	Azure soft tech, Madurai
3	21UEE004	920421105018	SHREENACHIAAR.K.P	46	322	05.06.2023	20.07.2023	NIT, Trichy	NIT, Trichy
4	21UEE011	920421105006	DARSAN.S	30	210	10.06.2023	10.07.2023	Futurik technology	Futurik technology, Madurai
5	21UEE021	920421105016	SENTHIL VELAN.B	16	112	19.06.2023	05.07.2023	Azure soft tech	Azure soft tech, Madurai
6	21UEE022	920421105015	PRAKASH.A	16	112	19.06.2023	05.07.2023	Azure soft tech	Azure soft tech, Madurai
7	21UEE023	920421105012	KARTHICK GOWTHAM.C	22	154	20.06.2023	11.07.2023	Friends electrical Pvt Ltd	Friends electrical Pvt Ltd
8	21UEE025	920421105305	VISWAMBARAN.R	22	154	20.06.2023	11.07.2023	Friends electrical Pvt Ltd	Friends electrical Pvt Ltd, Madurai
9	21UEE026	920421105301	JEGADEESH MANIYAN.A	22	154	20.06.2023	11.07.2023	Friends electrical Pvt Ltd	Friends electrical Pvt Ltd, Madurai
10	21UEE027	920421105304	NARESHKUMAR.V	22	154	20.06.2023	11.07.2023	Friends electrical Pvt Ltd	Friends electrical Pvt Ltd, Madurai
11	21UEE028	920421105303	NALLAIAH.M	22	154	20.06.2023	11.07.2023	Friends electrical Pvt Ltd	Friends electrical Pvt Ltd, Madurai
12	21UEE030	920421105302	MOHAMEDSAJUDHEEN.	22	154	20.06.2023	11.07.2023	Friends electrical Pvt Ltd	Friends electrical Pvt Ltd, Madurai



AZURE Soft Tech Solutions

Innovation Explored

July 05, 2023

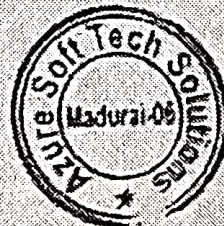
Ref: ASTS/INT/2023/065

TO WHOM IT MAY CONCERN

This is to certify that Mr. THIGAN K J (Reg. No. 920421105022) Third year B.E – Electrical and Electronics Engineering student of Kamaraj College of Engineering & Technology, Virudhunagar, had been associated with AZURE Soft Tech Solutions as an Intern – and has successfully completed his mini project in Recent Frontend Frameworks for the period from June 19, 2023 to July 05, 2023.

During the tenure with us, we found Mr. THIGAN K J, sincere and result oriented.

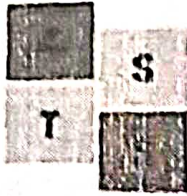
We wish Mr. THIGAN K J, all the best for his future endeavors.



For Azure Soft Tech Solutions

RAMESH V

Operation Head



AZURE Soft Tech Solutions

Innovation Explored

July 05, 2023

Ref: ASTS/INT/2023/066

TO WHOM IT MAY CONCERN

This is to certify that Mr. AJAY M (Reg. No. 920421105003) Third year B.E – Electrical and Electronics Engineering student of Kamaraj College of Engineering & Technology, Virudhunagar, had been associated with AZURE Soft Tech Solutions as an Intern – and has successfully completed his mini project in Recent Frontend Frameworks for the period from June 19, 2023 to July 05, 2023.

During the tenure with us, we found Mr. AJAY M, sincere and result oriented.

We wish Mr. AJAY M, all the best for his future endeavors.



For Azure Soft Tech Solutions

RAMESH V

Operation Head



वैद्युतिकी व कणकीय अभियांत्रिकी.

राष्ट्रीय प्रौद्योगिकी संस्थान तिरुचिरापल्ली, तमिलनाडु - 620 015, भारत

Department of Electrical and Electronics Engineering

National Institute of Technology Tiruchirappalli, Tamil Nadu - 620 015, India

www.nitt.edu

Tel : + 91(0)431-2503250 E-mail :

S.kumar@nitt.edu

20th July 2023

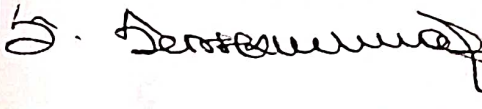
INTERNSHIP CERTIFICATE

This is to certify that Ms. K. P. SHREE NACHIAAR, [21UEE004] from Kamaraj College of Engineering and Technology, S.P.G. Chidambara Nadar, C.Nagammal Campus, Vellakulam, Tamil Nadu-625701, has completed the internship program at Department of Electrical and Electronics Engineering, National Institute of Technology, Tiruchirappalli-620015.

Ms. K. P. SHREE NACHIAAR, started joining the program from 5th June 2023 to 20th July 2023. During her stay at NIT Tiruchirappalli as an Intern, she learnt the Fundamentals, Modelling and Simulation of Battery, Battery Management systems for Electric Vehicle (EV) Applications and also, she displays enthusiasm, leadership, self-discipline, and self-motivation.

We wish all the very best in her future endeavours.

Sincerely,

 20/07/2023

डॉ. सु. सेंथिल कुमार / Dr. S. SENTHIL KUMAR

सहायकी प्राध्यापक / Associate Professor

वैद्युतिकी व कणकीय अभियांत्रिकी / Department of Electrical and Electronics Engineering

राष्ट्रीय प्रौद्योगिकी संस्थान / National Institute of Technology

तिरुचिरापल्ली - 620 015 / Tiruchirappalli - 620 015.

तमिलनाडु, भारत / TamilNadu, INDIA





Futurik Technologies

Innovation at its Best

Reg No. FYFL210004390061

Internship Certificate

This Certificate has been awarded to

S. PADMINI

on completion of ONE month of Internship in the area of

WEB DEVELOPMENT AND SERVER HOSTING

Presented on 10.6.2023 day of 10.7.2023. In appreciation of your work



Dd

Durga Muralidharan
Head Operations



July 05, 2023

Ref: ASTS/INT/2023/067

TO WHOM IT MAY CONCERN

This is to certify that Mr. SENTHIL VELAN B (Reg. No. 920421105016) Third year B.E – Electrical and Electronics Engineering student of Kamaraj College of Engineering & Technology, Virudhunagar, had been associated with AZURE Soft Tech Solutions as an Intern – and has successfully completed his mini project in Recent Frontend Frameworks for the period from June 19, 2023 to July 05, 2023.

During the tenure with us, we found Mr. SENTHIL VELAN B, sincere and result oriented.

We wish Mr. SENTHIL VELAN B, all the best for his future endeavors.



For Azure Soft Tech Solutions

RAMESH V

Operation Head



+91-63693 12310



0452-7968996



hr@azuresofttechsolutions.com



www.azuresofttechsolutions.com



No.74, Pandiyan Nagar Thirunagar, Madurai Tamilnadu- 625006





AZURE Soft Tech Solutions

Innovation Explained

July 05, 2023

Ref: ASTS/INT/2023/068

TO WHOM IT MAY CONCERN

This is to certify that Mr. PRAKASH A (Reg. No. 920421105015) Third year B.E – Electrical and Electronics Engineering student of Kamaraj College of Engineering & Technology, Virudhunagar, had been associated with AZURE Soft Tech Solutions as an Intern – and has successfully completed his mini project in Recent Frontend Frameworks for the period from June 19, 2023 to July 05, 2023.

During the tenure with us, we found Mr. PRAKASH A, sincere and result oriented.

We wish Mr. PRAKASH A, all the best for his future endeavors.



For Azure Soft Tech Solutions

RAMESH V

Operation Head



+91 83623 12310



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No.74, Pondanagar Nagar, Thirunagar, Madurai, Tamilnadu - 625005



Cell No: 994227048
8754621775



FRIENDS ELECTRICALS

Director of Electrical
BASKARAN

71, Anna Nagar,
Samayanallur, Madurai - 625402

DATE: 11.7.2023

TO WHOM SO EVEN IT MAY CONCERN

This is to certify that Mr. C. Karthick gowtham The students of Electrical and Electronics Engineering (EEE) from Kamaraj College Of Engineering and Technology has successfully completed internship training program on Busbar connection , Cable laying Learning and Working Process in our organization **FRIENDS ELECTRICALS PVT LTD** from 20.06.2023 to 11.07.2023 During the live project his performance is certified as good.

WE WISH ALL SUCCESS IN ACADEMIC PERFORMANCE

For Friends Electricals Pvt Ltd.,

For Friends Electricals



Director of Electrical

Authorized Signatory

Call No: 954227048
8754621775



FRIENDS ELECTRICALS

Director of Electrical
BASKARAN

71/S, Anna Nagar,
Samayanallur, Madurai - 625402

DATE:11.07.2023

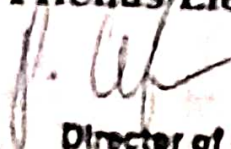
TO WHOM SO EVEN IT MAY CONCERN

This is to certify that Mr. **R.VISHWAMBARAN** The students of Electrical and Electronics Engineering (EEE) from Kamaraj College Of Engineering and Technology has successfully completed internship training program on Busbar connection , Cable laying Learning and Working Process in our organization **FRIENDS ELECTRICALS PVT LTD** from 20.06.2023 to 11.07.2023
During the live project his performance is certified as good.

WE WISH ALL SUCCESS IN ACADEMIC PERFORMANCE

For Friends Electricals Pvt Ltd.,

For Friends Electricals



Director of Electrical

Authorized Signatory

Cell No: 994217040
8754621775



FRIENDS ELECTRICALS

Director of Electrical
BASARAN

71/5, Anna Nagar,
Sembayamallur, Madurai - 625402

DATE: 21.07.2023

TO WHOM SO EVEN IT MAY CONCERN

This is to certify that Mr. **A. JEGADEESH MANIYAN** The students of Electrical and Electronics Engineering (EEE) from Kamara College Of Engineering and Technology has successfully completed internship training program on Substation connection, Cable laying Learning and Working Process in our organization **FRIENDS ELECTRICALS PVT LTD** from 20.05.2023 to 31.07.2023. During this live project his performance is testified as good.

WE WISH ALL SUCCESS IN ACADEMIC PERFORMANCE

For Friends Electricals Pvt Ltd.,

For Friends Electricals


Director of Electrical

Authorized Signatory

Cell No 994227048
8754621775

FRIENDS ELECTRICALS

Director of Electrical
BASKARAN

71/5, Anna Nagar,
Samayanallur, Madurai - 625402

DATE: 11.07.2023

TO WHOM SO EVEN IT MAY CONCERN

This is to certify that Mr. **NARESHKUMAR.V** The students of Electrical and Electronics Engineering (EEE) from Kamaraj College Of Engineering and Technology has successfully completed internship training program on Busbar connection , Cable laying Learning and Working Process in our organization **FRIENDS ELECTRICALS PVT LTD** from 20.06.2023 to 11.07.2023 During the live project his performance is certified as good.

WE WISH ALL SUCCESS IN ACADEMIC PERFORMANCE

For Friends Electricals Pvt Ltd.,

For Friends Electricals


Director of Electrical

Authorized Signatory

Cell No: 994227048
8754621775



FRIENDS ELECTRICALS

Director of Electrical
BASKARAN

71/5, Anna Nagar,
Samayanallur, Madurai - 625402

DATE:11.07.2023

TO WHOM SO EVEN IT MAY CONCERN

This is to certify that Mr. **M. Nallaiah** The students of Electrical and Electronics Engineering (EEE) from Kamaraj College Of Engineering and Technology has successfully completed Internship training program on Busbar connection , Cable laying Learning and Working Process in our organization **FRIENDS ELECTRICALS PVT LTD** from 20.06.2023 to 11.07.2023
During the live project his performance is certified as good.

WE WISH ALL SUCCESS IN ACADEMIC PERFORMANCE

For Friends Electricals Pvt Ltd.,

For Friends Electricals


Director of Electrical

Authorized Signatory

Internship certificate

Cell No: 9942270411
8754621775



FRIENDS ELECTRICALS

Director of Electrical
BASKARAN

71/5, Anna Nagar,
Samayanallur, Madurai - 625402

DATE:11.07.2023

TO WHOM SO EVEN IT MAY CONCERN

This is to certify that Mr. A. MOHAMEDSAJUDHEEN The students of Electrical and Electronics Engineering (EEE) from Kamaraj College Of Engineering and Technology has successfully completed Internship training program on Busbar connection , Cable laying Learning and Working Process in our organization FRIENDS ELECTRICALS PVT LTD from 20.06.2023 to 11.07.2023 During the live project his performance is certified as good.

WE WISH ALL SUCCESS IN ACADEMIC PERFORMANCE

For Friends Electricals Pvt Ltd.,

For Friends Electricals

Director of Electrical

Authorized Signatory