KPRIET
Learn Beyond

Department of Electrical and Electronics Engineering
KPR Institute of Engineering and Technology

News Letter

Volume 10,
Issue 7
July 2024

News Letter Editorial Team

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

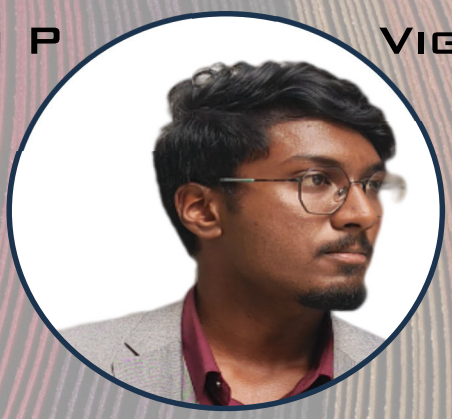
FACULTY ADVISOR

Lalitha B, AP(Sr.G)/EEE

Student Coordinator

Sudharshan P
IV EEE -B

Vigneshwaran M
IV EEE -B



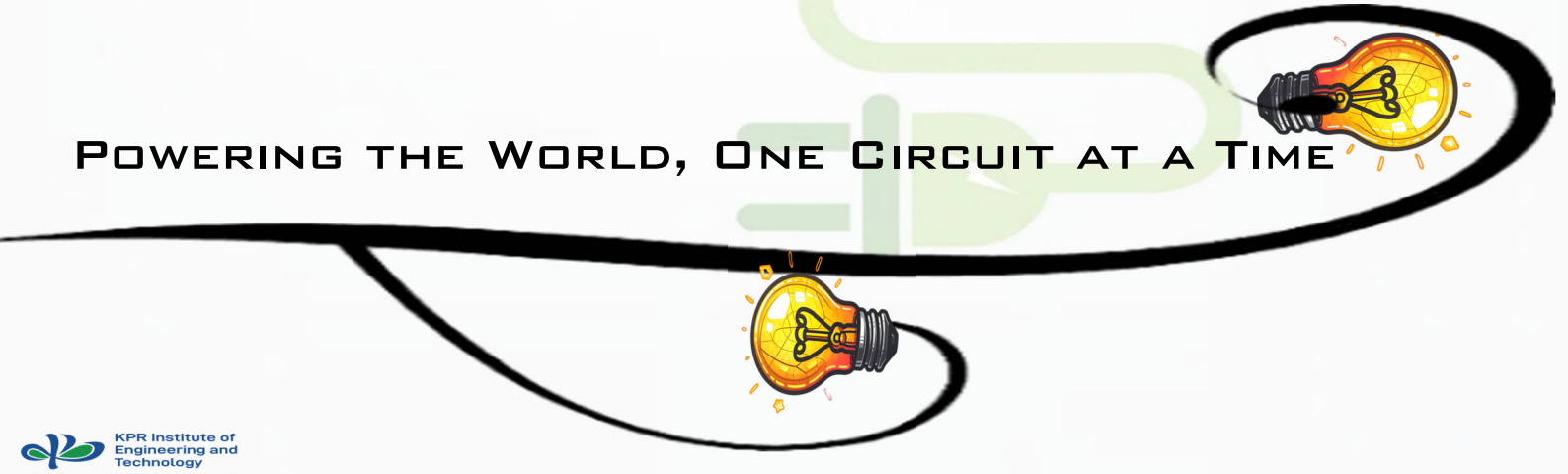
Salem Noel D
IV EEEE -B

Table of Contents

About The Department

Welcome to the Department of Electrical & Electronics Engineering (EEE) at KPR institute of engineering And Technology (KPRIET) in Coimbatore.

The Department of Electrical and Electronics Engineering was one of the first few disciplines started at the time of inception. The department is accredited with NBA under Tier-I and offers UG with an intake of 60 students. The department has eight well-equipped laboratories and CoE's Viz. EKKI-KPRIET International Water Technology Centre, Mitsubishi Automation, and Bosch Automation Centre, for enhancing the innovative design thinking and practical skills of the students and faculty members on campus. The sheer enthusiasm and hard work of the faculty and students of the department helped make it one of the best departments on campus. The department believes in serious academic pursuit and encourages radical and original thinking which paves the way for creativity and innovative ideas. The zeal and fervor with which the department is working will surely help it to achieve further success. The department was recognized as the Best Industry Linked Institute (Electrical and Allied Engineering Institute) by the AICTE-CII Survey in 2020.



VISION

To be the **center of higher learning** in the field of Electrical and Electronics Engineering by educating the students to meet the **global challenges** with **professional ethics and social consciousness**.

MISSION

- Providing **technical, intellectual and ethical** environment to the students through **knowledge-centric education and research**.
- Collaborating with industries in the vicinity, nationally and internationally for exposure and **innovation**.
- Enabling the students to **serve the society** through **prolific ideas**.

PROGRAMME EDUCATIONAL OBJECTIVES (PEOS)

The Graduates of Electrical and Electronics Engineering will

- **PEO1** Possess an adequate knowledge to meet the needs of the stakeholders and excel in their chosen profession with good communication and managerial skills.
- **PEO2** Adapt to emerging technologies and practice their profession confirming to ethical and human values.
- **PEO3** Continuously improve the habit of self-study through professional development activities.

Programme Outcomes (POs)
Programme Specific Outcomes (PSOs)

Graduates of Electrical and Electronics Engineering will be able to:

- **PO1** Engineering Knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- **PO2** Problem Analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences
- **PO3** Design/development of Solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for public health and safety, and cultural, societal, and environmental considerations.
- **PO4** Conduct Investigations of Complex Problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- **PO5** Modern Tool Usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- **PO6** The Engineer and Society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- **PO7** Environment and Sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

- **PO8** Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- **PO9** Individual and Team Work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- **PO10** Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- **PO11** Project Management and Finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- **PO12** Life-long Learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change

PROGRAMME SPECIFIC OUTCOMES (PSOS)

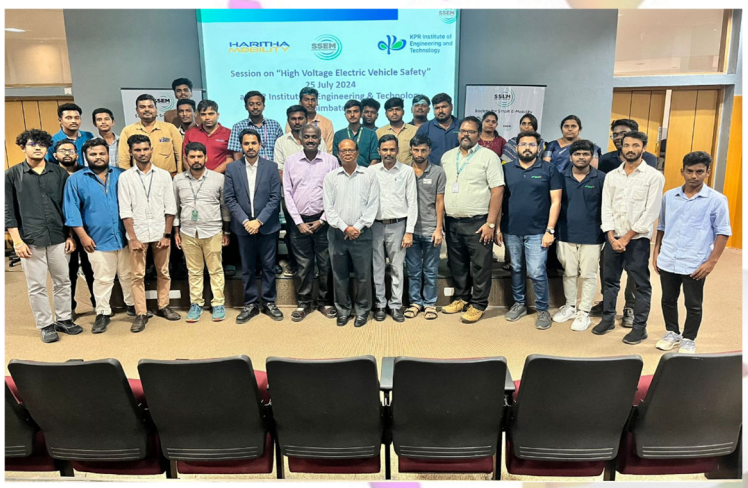
Graduates of Electrical and Electronics Engineering will be able to:

- PSO1 Develop skills to the expectations of the dynamic industrial practices in Electrical Engineering and allied areas
- PSO2 Analyze, design, and integrate various renewable energy sources to meet the energy demand.

EVENTS

WORK SHOP ON HIGH VOLTAGE FOR ELECTRIC VEHICLE SAFETY

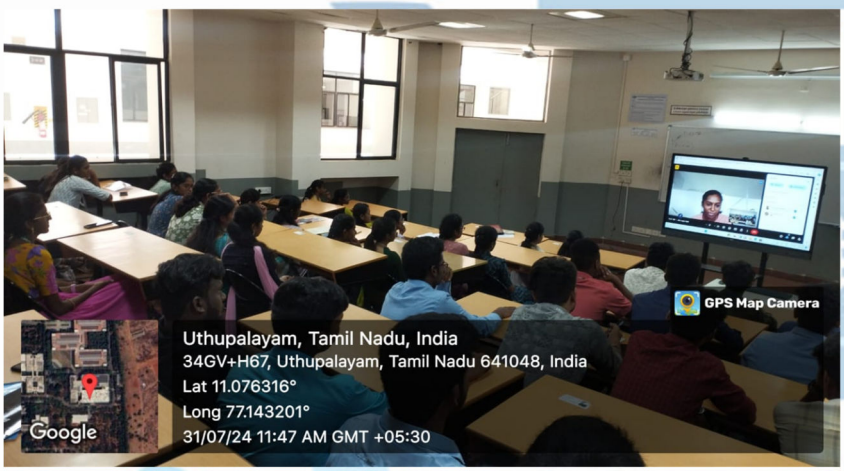
The Department of EEE and SSEM jointly organized a High Voltage for Electric Vehicle Safety workshop on 25/07/2024. **Dr K Mohanasundaram** welcomes the gathering and is the resource person. Mr. Prasanth Kumar Palani, Chief Technical Consultant, Haritha Mobility Solution resources person. High-voltage systems in electric vehicles (EVs) offer several benefits: Improved Efficiency: Higher voltage reduces the current for the same power, which minimizes resistive losses and improves overall efficiency. Faster Charging: High-voltage systems enable faster charging times, as they can handle higher power levels. Better Performance: High-voltage systems can provide more power to the electric motors, resulting in better acceleration and performance. Reduced Weight: Higher voltage allows for using smaller, lighter wiring and components, reducing the vehicle's overall weight. Increased Range: Improved efficiency and performance contribute to longer driving ranges on a single charge. Safety Protocols: Emergency shutdown mechanisms and disconnects are implemented to safely deactivate the high-voltage system during faults or accidents. Training: Proper training for technicians and first responders to handle high-voltage systems safely. These measures ensure the safe operation and maintenance of high-voltage EVs, protecting users and technicians from electrical hazards. High-voltage systems, typically ranging from 400V to 800V and beyond, are becoming standard in modern EVs to meet the demands for better performance, efficiency, and faster charging capabilities.

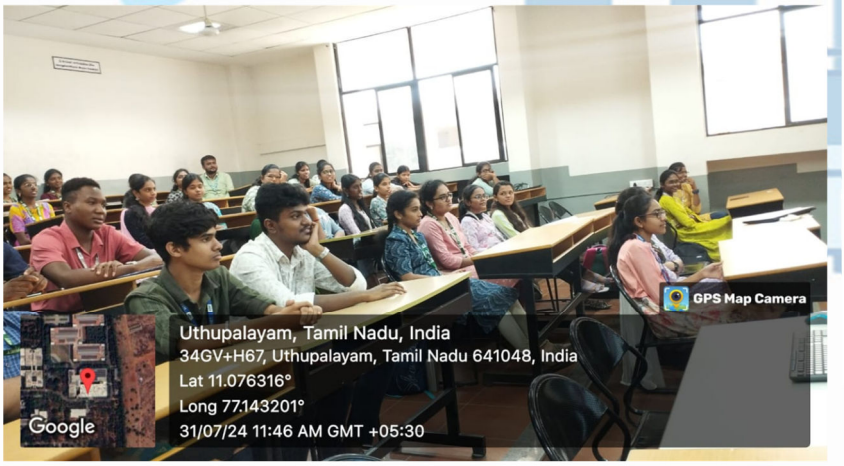


EVENTS

ALUMNI SERIES 1 - EXPERIENCE, EXCHANGE, ELEVATE

The Department of EEE organized the first alumni interaction session of the 2024-2025 academic year for II EEE students on 31/07/2024. The event featured Er. Sushmitha S P, an alumnus of the 2018-2022 batch and currently an Embedded Software Engineer at VVDN Technologies. The session aimed to inspire and elevate junior students by sharing valuable career insights and experiences. Key Highlights1. Welcome and Introduction: The event began with a warm welcome from the Head of the Department, who introduced Er. Sushmitha and highlighted her achievements since graduating. Her role at VVDN Technologies was emphasized as an inspiration for current students aspiring to enter the embedded software industry.2. Career Journey: Er. Sushmitha shared her career journey, starting from her time as a student in the EEE department to her current position at VVDN Technologies. She discussed the challenges she faced, the skills she developed, and the opportunities she seized to advance her career.3. Industry Insights: In her talk, Er. Sushmitha provided in-depth insights into the embedded software industry. She discussed the latest trends, technologies, and innovations in the field, giving students a glimpse into the real-world applications of their studies.4. Skills and Preparation: Emphasizing the importance of continuous learning, Er. Sushmitha advised students on the essential technical and soft skills needed to excel in the industry. She shared tips on how to prepare for job interviews, internships, and the transition from academia to the professional world.5. Q&A Session: The interaction included a vibrant Q&A session where students asked Er. Sushmitha various questions about her experiences, career decisions, and the challenges she encountered. Her candid responses and practical advice were highly appreciated by the attendees. Conclusion The alumni interaction with Er. Sushmitha S P was a valuable and enriching experience for all attendees. The Department of EEE plans to continue such interactions, recognizing their importance in guiding and inspiring future engineers.





FACULTY TRAINING

Dr. K. Mohana Sundaram,
Professor & Head / EEE attended the AICTE QIP PG Certificate Program on Data Science at IIT Bhilai from 01/07/2024 to 12/07/2024.

FACULTY TRAINING

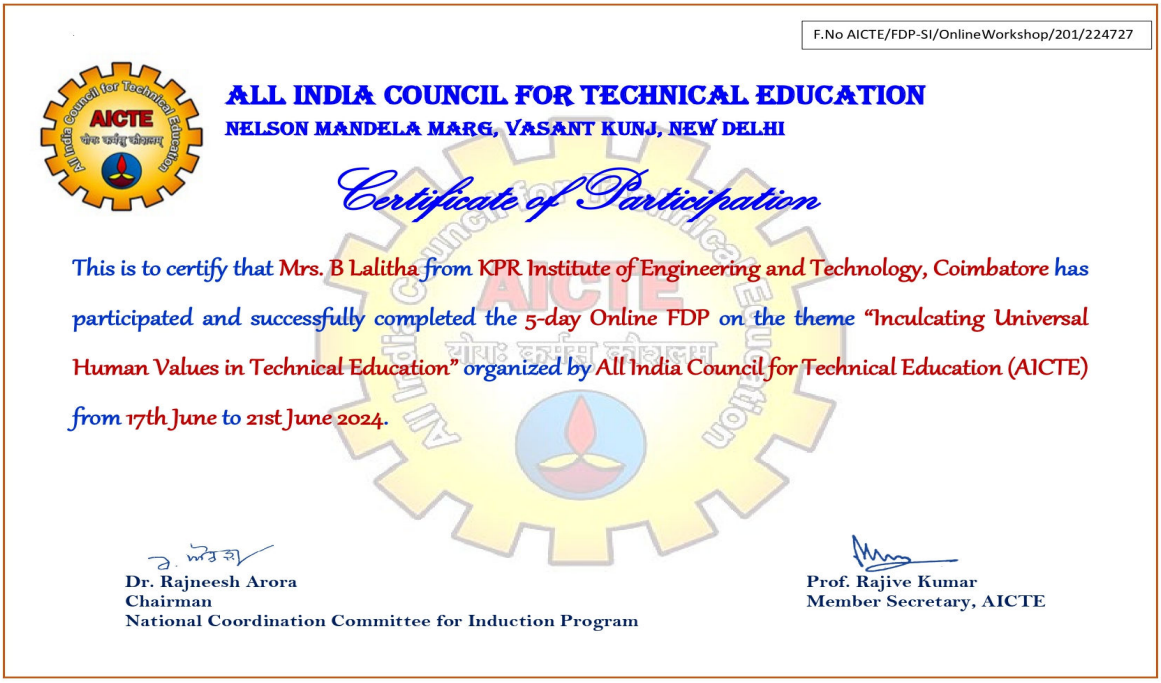
Dr. P. Pandiyan, Associate Professor / EEE and **Ms. B. Lalitha,** AP (Sr.G) / EEE were participated FDP on Computational Thinking and Problem Solving at Amirta Vishwa Vidyapeetham from 08/07/2024 to 12/07/2024.

FACULTY TRINING

Dr. I. Baranilingesan, AP **(S**l.G)/EEE and **Dr. S. Ravindran,** AP **(S**l.G)/EEE completed the Design Thinking Course at The School of Design Thinking, Chennai from 10/07/2024 to 12/07/2024

FACULTY TRAINING

Ms.B.Lalitha, AP(Sr.G) **and Mr.V.Kamalkumar,** AP(Sr.G) has completed the five day Online FDP on the theme "Inculcating Universal Human Values in Technical Education I" organized by All India Council for Technical Education (AICTE) from 17/07/2024 to 21/07/2024.



F.No AICTE/FDP-SI/OnlineWorkshop/201/224727

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION
NELSON MANDELA MARG, VASANT KUNJ, NEW DELHI

Certificate of Participation

This is to certify that Mrs. B Lalitha from KPR Institute of Engineering and Technology, Coimbatore has participated and successfully completed the 5-day Online FDP on the theme "Inculcating Universal Human Values in Technical Education" organized by All India Council for Technical Education (AICTE) from 17th June to 21st June 2024.

Dr. Rajneesh Arora
Chairman
National Coordination Committee for Induction Program

Prof. Rajive Kumar
Member Secretary, AICTE

F.No AICTE/FDP-SI/OnlineWorkshop/201/224702

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION
NELSON MANDELA MARG, VASANT KUNJ, NEW DELHI

Certificate of Participation

This is to certify that Mr. V. Kamalkumar from KPR Institute of Engineering and Technology, Coimbatore has participated and successfully completed the 5-day Online FDP on the theme "Inculcating Universal Human Values in Technical Education" organized by All India Council for Technical Education (AICTE) from 17th June to 21st June 2024.

Dr. Rajneesh Arora
Chairman
National Coordination Committee for Induction Program

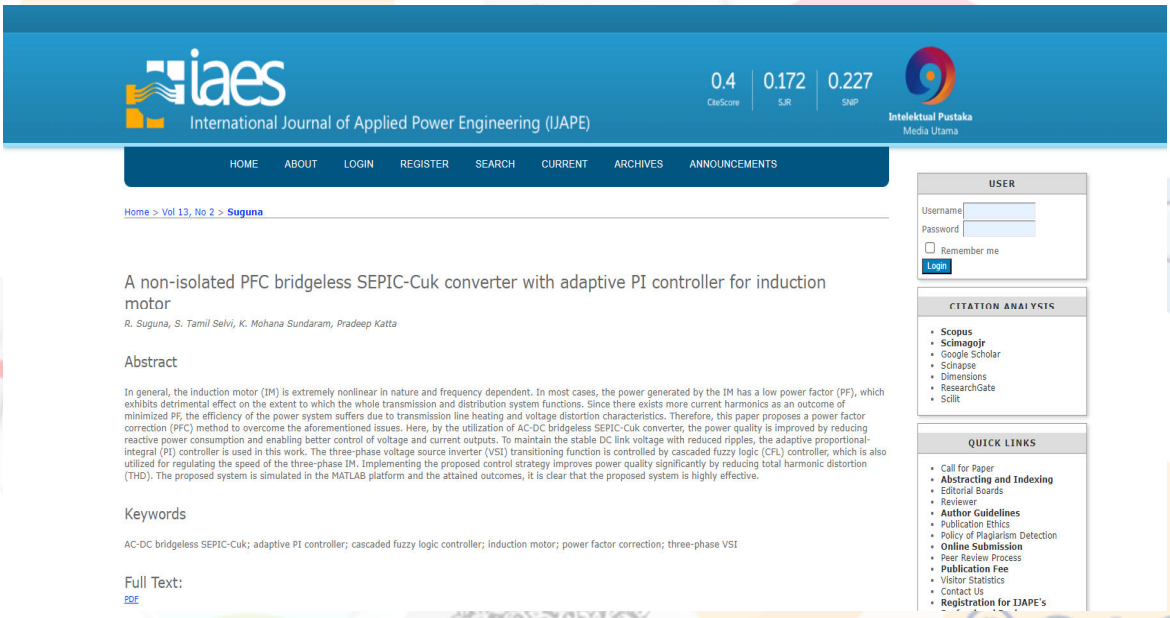
Prof. Rajive Kumar
Member Secretary, AICTE

FACULTY TRAINING

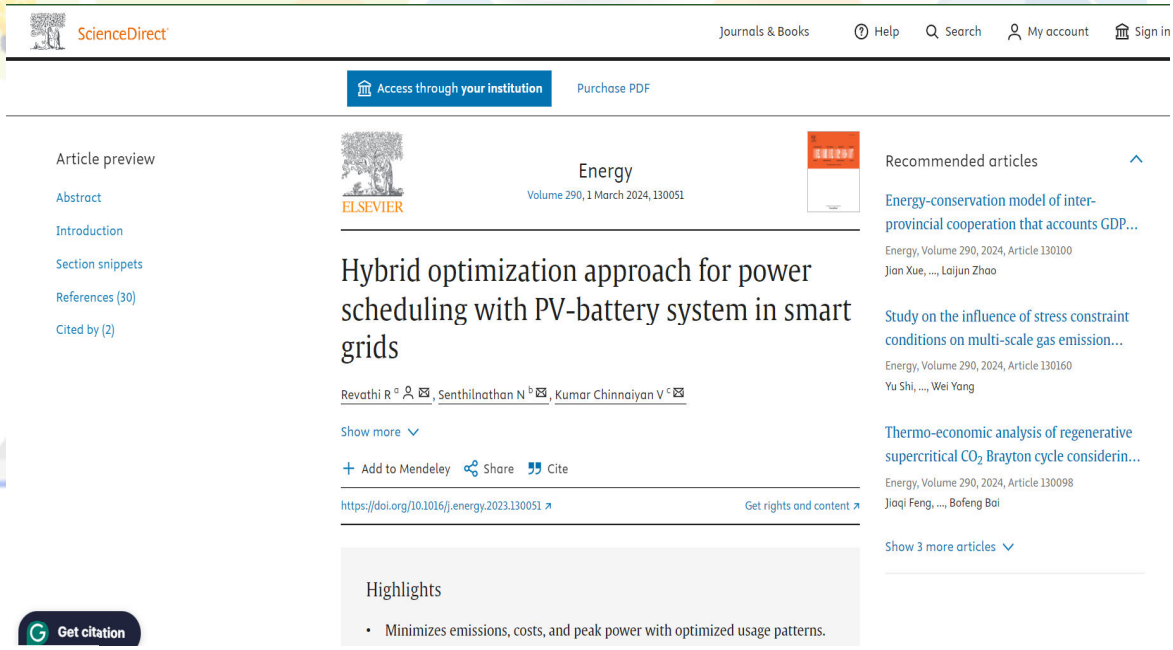
Mr.C.Dinesh, AP(Sr.G) and **Mr.K.Balamurugan,** AP has completed the face to face FDP on the theme "Universal Human Values I & II" organized by All India Council for Technical Education (AICTE) from 26/07/2024 to 02/08/2024 at PSNA College of Engineering and Technology

PUBLICATION DETAILS

K. Mohana Sundaram, "A non-isolated PFC bridgeless SEPIC-Cuk converter with adaptive PI controller for induction motor", International Journal of Applied Power Engineering, Vol.13, Issue 2, Page 282-293.
DOI: http://doi.org/10.11591/ijape.v13.i2.pp282-293



Revathi Ramalingam, "Hybrid optimization approach for power scheduling with PV-battery system in smart grids", Energy, Vol.290
DOI: https://doi.org/10.1016/j.energy.2023.130051

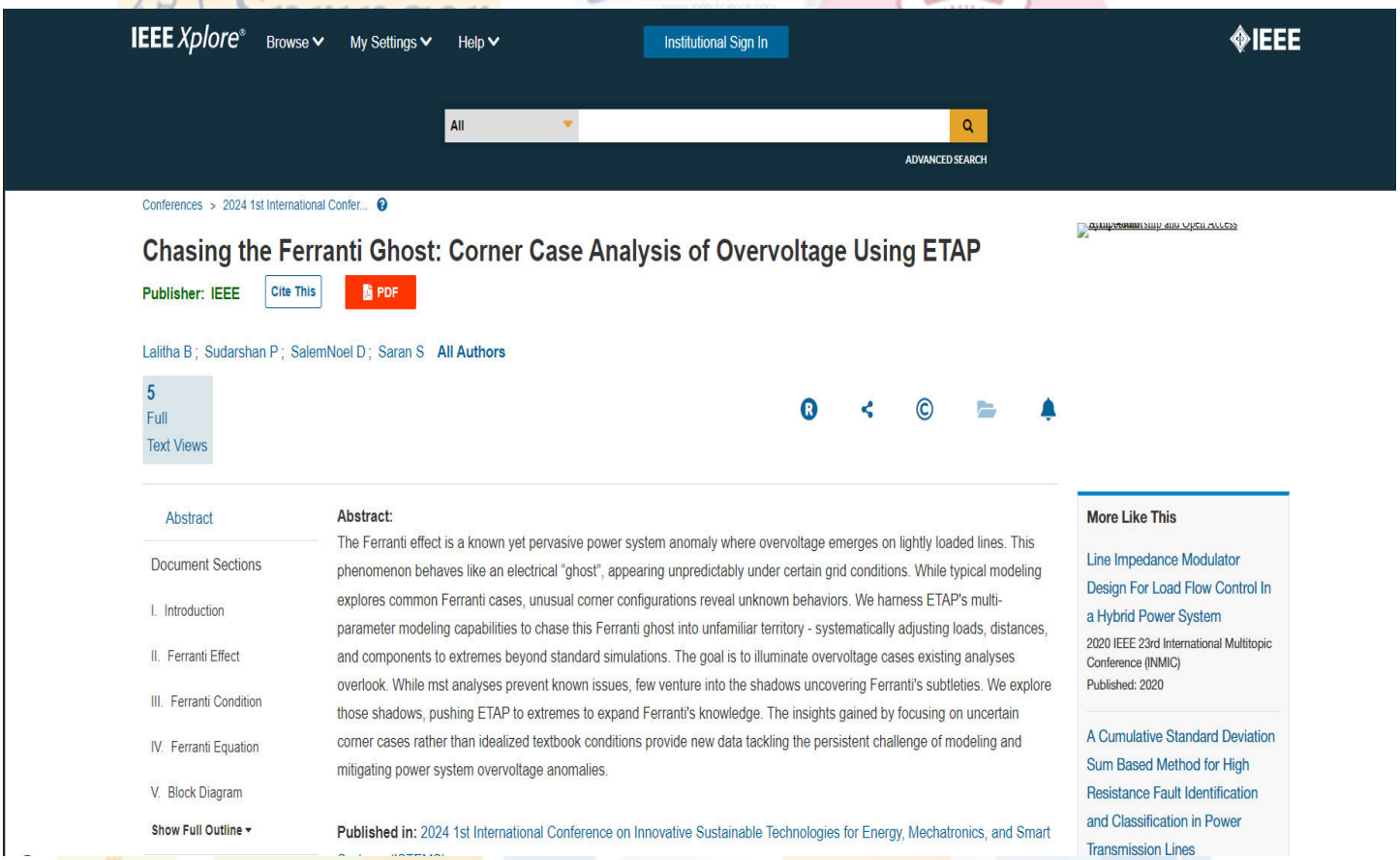


PUBLICATION DETAILS

B. Lalitha, "Chasing the Ferranti Ghost: Corner Case Analysis of Overvoltage Using ETAP"ISTEMS-24

DOI: 10.1109/ISTEMS60181.2024.10560093

Author: *Lalitha B; Sudarshan P; Salem Noel D; Saran S*



Faculty Internship Details

Sl.No	Faculty Name	Designation	Company/Organization (Full Address)	Internship Period	
				From	To
1.	Dr. V.S. Chandrika	Professor	Pinnacle Lithium Power, Chinniyampalayam, Coimbatore	21-05-2024	28-05-2024
2.	Dr. A. Karthick	Associate Professor	Pinnacle lithium power	06/06/2024	06/12/2024
3.	Dr. G. Saravanan	Assistant Professor (Sl.G)	VAct Technologies Private Limited, Coimbatore	11.07.2024	17.07.2024
4.	Dr. C. Pazhanimuthu	Assistant Professor (Sl.G)	ARKtech Automation Solutions(P) ltd	21-06-2024	27-06-2024
5.	Dr. I. Baranilingesan	Assistant Professor (Sl.G)	The apple Textil Engineering,Tirupur	18/06/2024	24/06/2024
6.	Dr. S. Ravindran	Assistant Professor (Sl.G)	Foretech Electric pvt Ltd, coimbatore	26-06-2024	05-07-2024
7.	Dr. V. Parimala	Assistant Professor (Sl.G)	Foretech Electric pvt Ltd, coimbatore	26-06-2024	05-07-2024
8.	Ms. B. Lalitha	Assistant Professor (Sr.G)	CRI Pumps - Ransar Industries I	29-06-2024	12-07-2024
9.	Dr. A. Mohamed Ibrahim	Assistant Professor (Sr.G)	Foretech Electric pvt Ltd, coimbatore	26-06-2024	05-07-2024
10.	Mr. V. Kamal Kumar	Assistant Professor (Sr.G)	VAct Technologies Private Limited, Coimbatore	11.07.2024	17.07.2024
11.	Mr. C.J.Vignesh	Assistant Professor (Sr.G)	Indospace, Coimbatore	21-06-2024	27-06-2024
12.	Mr. C. Dinesh	Assistant Professor (Sr.G)	Fenzo Power Solutions, Coimbatore	08-07-2024	13-07-2024
13.	Mr. K. Balamurugan	Assistant Professor	Indospace, Coimbatore	21-06-2024	27-06-2024
14.	Mr. M. Mohanasundaram	Assistant Professor	VERSA DRIVES, Idikarai, Coimbatore	22-07-2024	26-07-2024

Student Internship Details

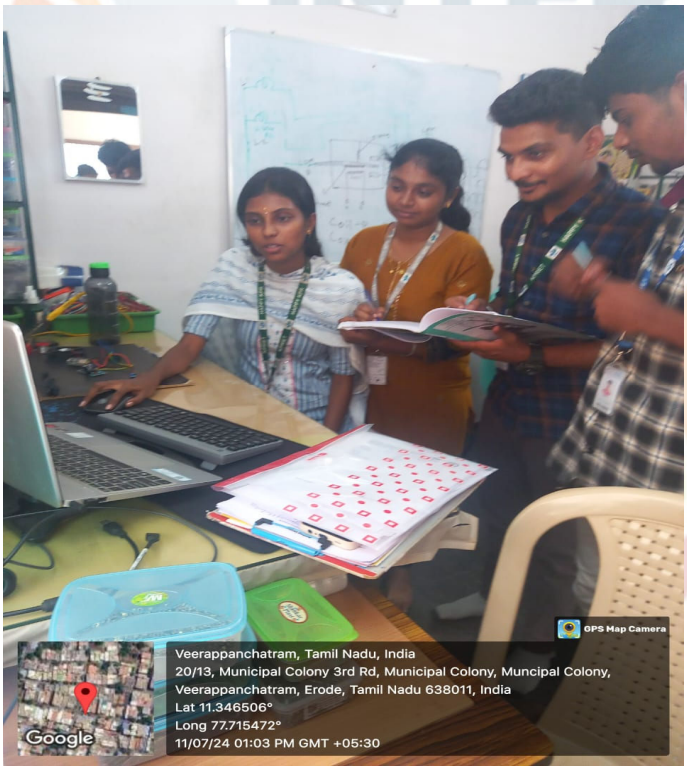
Sl. No	Year	Name Of The Student	Company /Organization Name
1	III	Adhithya A	Macsoft Electronic Controls Pvt Ltd, Coimbatore
2	III	Amreth.A.B	V-Guard Industries,Perundurai
3	III	S.Ananyaa Sri	Simta Astrix , Coimbatore
4	III	Anjana R J	Keltron Equipment Complex, Kerala
5	III	Asir Ahamed M	Macsoft Electronic Controls Pvt Ltd, Coimbatore
6	III	Deepak D	Padmavahini Transformers Private Limited, Coimbatore
7	III	Dhanuja K	Intelle Power Systems And Automation Private Limited, Coimbatore
8	III	Dharshini D	Nexgen Instruments
9	III	Dhinakaran D V	Greentech Megawatt Private Limited
10	III	R Dhinesh	Mahendra Pumps, Coimbatore
11	III	Dilip Rathore. K	Nexgen Instruments, Erode
12	III	M.Eniya Varthini	Aviation And Robotics Club, Kpriet, Coimbatore
13	III	Giri Prasath B P	Bhairav Industries, Coimbatore
14	III	Gowshick M S	Bhairav Industries, Coimbatore
15	III	Haripriya S	Intelle Power Systems And Automation Private Limited, Coimbatore
16	III	Jagadeesh	Padmavahini Transformers Private Limited, Coimbatore
17	III	Jai Aakash S.D	Tino Engineering Pvt Ltd, Tirunelveli
18	III	Jaya Shalini.B	Intelle Power Systems And Automation Private Limited, Coimbatore
19	III	Jeevanesan.T	Haven Foundations Pvt Ltd, Chennai
20	III	Jeffery Vibin J	Macsoft Electronic Controls Pvt Ltd, Coimbatore
21	III	Joseph Adithyan M	Kovai Tech Engineers, Coimbatore
22	III	Karpaga Varsini M	Ajhantha Industries, Avinashi
23	III	Karthikeyan M	National Institute Of Technology, Trichy
24	III	Kavin. V	Ajhantha Industries, Avinashi
25	III	Kaviya.S.P	Mahendra Pumps, Coimbatore
26	III	Keerthana D	CRI PUMPS, Coimbatore
27	III	S.Logantharan	Aditithyaa Techno India Private Limited, Coimbatore
28	III	Mariya Ashile K	Greentech Megawatt Pvt Ltd, Coimbatore
29	III	Mohana Priya M	Aviation And Robotics Club, Kpriet, Coimbatore
30	III	Nadhish V	Mahendra Pumps, Coimbatore
31	III	Nanditha B	Mahendra Pumps, Coimbatore
32	III	Narendar M	Samson Industries, Coimbatore
33	III	Naveen Kumar R	Aatithyaa Techno India Private Limited, Coimbatore
34	III	Parameswaran S	Ajhantha Industries, Avinashi
35	III	Pradakshina D	Ajhantha Industries, Avinashi
36	III	Pradeep T M	Mahendra Pumps, Coimbatore

Student Internship Details

Sl.No	Year	Name Of The Student	Company /Organization Name
37	III	S T Praveen Kesava	Mahendra Pumps, Coimbatore
38	III	Praveen Kumar K	Intelle Power And Automation Private Limited, Coimbatore
39	III	V M Praveen Kumar	Mahendra Pumps, Coimbatore
40	III	Preethi S	Ss Systems, Coimbatore
41	III	Ranjani M	Aviation And Robotics Club, Kpriet, Coimbatore
42	III	M.Rathish Kumar	Mahendra Pumps, Coimbatore
43	III	Md Saddab Ansari	Nepal Heavy Electrical & Mechanical Works, Nepal
44	III	P R Santhosh Karthigeyan	Bhairav Industries, Coimbatore
45	III	Sarvesh P	Macsoft Electronic Controls Pvt Ltd, Coimbatore
46	III	Sathurnithy S	Greentech Megawatt Private Limited, Coimbatore
47	III	Sathya.K	Agricultural Engineering Department And Farmers Welfare Department, Thiruvarur
48	III	Shesan K	Nxtgen Instruments, Erode
49	III	Sivananthan.C	National Institute Of Technology,Tiruchirappalli
50	III	Soundarkumar S	Aatithyaa Techno India Private Limited, Coimbatore
51	III	Sowkanthika V.K	Nxtgen Instruments, Erode
52	III	Subika T	Ajhantha Industries, Avinashi
53	III	Sujay S	Bhairav Industries, Coimbatore
54	III	Sundar	Aatithyaa Techno India Private Limited, Coimbatore
55	III	Swetha R	Intelle Power And Automation Pvt Ltd, Coimbatore
56	III	Thrivesh S	Tino Engineering Private Limited, Tirunelveli
57	III	Sk Varun	Intelle Power And Automation Private Limited, Coimbatore
58	III	Vignesh M	Ss Systems, Coimbatore
59	III	Vishal Kannan S I	Ss Systems, Coimbatore
60	III	Vishva K S	Syfero Synergistics, Coimbatore
61	III	Nithin Pranesh	Samson Industries, Coimbatore
62	III	Nithish Mahendran	National Institute Of Technology, Trichy
63	III	M Suthir Kumar	Mahendra Pumps, Coimbatore
64	III	Aravindha Prakash L	Premium Power Lines, Coimbatore
65	III	Harshavarthan V S	Premium Power Lines, Coimbatore
66	III	Mahesh Rajar A	Premium Power Lines, Coimbatore
67	III	G Prashant Iyer	Macsoft Electronic Controls Pvt Ltd, Coimbatore
68	III	Sanjay S	Premium Power Lines, Coimbatore
69	III	Syed Hakkeem B H	Premium Power Lines, Coimbatore

Student Internship Details

Student Internship Details



Student Internship Details

Student Internship Details

Student Internship Details

Placement

Students Placed in ABB-Batch 2025

ALAGAR SAMY R

DHARANI M

DWARAKAN P R

GOWTHAM R

HARINI J

PRANEESH KUMAR C G

RAGURAM S

SANJAY D

SOUNDRYA A

SRILESH J

SRIMATHI S

SUKANT S

VIJAY G

STUDENTS PLACED IN BOSCH-BATCH 2025

NEHA A K

SAKTHI PRIYA. C

STUDENTS PLACED IN KONE ELEVATOR - BATCH 2025

AGAASH V S

ASHMITA T

CHITRIKA HP

HAMSAVARTHINI

KEERTHI RAGAVENDRAN S

ROSHINI U

SOUNDRYA A

SUKANT. S

LAVENDAL

AHIL MOZHI G T

BATCH 2025

QUINBAY TECHNOLOGIES

DEVSIVA A N BATCH 2025

TESSOLVE

BINGLANG LAM

BATCH 2025

WOM

MUTHURAJ C BATCH 2025

INTERNATIONAL INTERNSHIP

KPR Institute of Engineering and Technology
Learn Beyond (Autonomous, NAAC "A")

BON Voyage

INTERNSHIP WITH STIPEND
(3 months)

國立中央大學 National Central University

TO
NATIONAL CENTRAL UNIVERSITY
TAIWAN

KPR INTERNATIONAL CENTRE
&
DEPARTMENT OF ELECTRICAL AND
ELECTRONICS ENGINEERING

INTERNATIONAL
INTERNSHIP

Ms. Ashmita Thangavel
Batch (2021-2025)
Department of Electrical and
Electronics Engineering

inter
inter

KPR Institute of Engineering and Technology
Learn Beyond (Autonomous, NAAC "A")

BON Voyage

INTERNSHIP WITH STIPEND
(3 months)

TO
NATIONAL SUN YAT- SEN UNIVERSITY
TAIWAN

KPR INTERNATIONAL CENTRE
&
DEPARTMENT OF ELECTRICAL AND
ELECTRONICS ENGINEERING

KPR Institute of Engineering and Technology
Learn Beyond (Autonomous, NAAC "A")

INTERNATIONAL
INTERNSHIP

Ms. Keerthiga Mayilsamy
Batch (2021-2025)
Department of Electrical and
Electronics Engineering

KPR Institute of Engineering and Technology
Learn Beyond (Autonomous, NAAC "A")

BON Voyage

INTERNSHIP WITH STIPEND
(4 months)

國立彰化師範大學 National Changhua University of Education

TO
NATIONAL CHANGHUA UNIVERSITY
OF EDUCATION, TAIWAN

KPR INTERNATIONAL CENTRE
&
DEPARTMENT OF ELECTRICAL AND
ELECTRONICS ENGINEERING

INTERNATIONAL
INTERNSHIP

Ms. Gopika Balachandar
Batch (2021-2025)
Department of Electrical and
Electronics Engineering


KPR Institute of Engineering and Technology
Learn Beyond
(Autonomous, NAAC "A")
BON Voyage
KPR
INSTITUTE OF ENGINEERING AND TECHNOLOGY
(Autonomous)
" Time to Fly and Explore new horizons"
KPR International Centre
Congratulations to the students for funded research internship at Taiwan!!
kpriet.ac.in /KPRIETonline


機 械
SINCE 1977
DEPARTMENT OF MECHANICAL ENGINEERING
NATIONAL CENTRAL UNIVERSITY