

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



NEWSLETTER



ELECTROBLITZ

VOLUME 8, ISSUE 4
April 2022

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VISION AND MISSION OF THE DEPARTMENT

Vision:

To be the **centre 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)

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 the public health and safety, and the 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 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.

FACULTY DETAILS

S.NO	NAME OF THE FACULTY	DESIGNATION
1.	Dr.V.Kumar Chinnaiyan	Professor & Head
2.	Dr.J.Karpagam	Professor
3.	Dr.K.Mohana Sundaram	Professor
4.	Dr.R.Uthirasamy	Professor
5.	Dr.V.S.Chandrika	Associate Professor
6.	Dr.P.Pandiyan	Associate Professor
7.	Dr.A.Karthick	Associate Professor
8.	Mr.S.Vivekanandan	Assistant Professor (Sl.G)
9.	Mr.G.Saravanan	Assistant Professor (Sl.G)
10.	Mr.R.Sampathkumar	Assistant Professor (Sl.G)
11.	Dr.C.Pazhanimuthu	Assistant Professor (Sl.G)
12.	Dr.I.Baranilingesan	Assistant Professor (Sl.G)
13.	Dr.S.Ravindran	Assistant Professor (Sl.G)
14.	Dr.A.Matheswaran	Assistant Professor (Sl.G)
15.	Dr.V.Parimala	Assistant Professor (Sl.G)
16.	Mr.D.Sathish Kumar	Assistant Professor (Sr.G)
17.	Ms.B.Lalitha	Assistant Professor (Sr.G)
18.	Ms.R.Revathi	Assistant Professor (Sr.G)

19.	Mr.A.Mohamed Ibrahim	Assistant Professor (Sr.G)
20.	Mr.P.Ravikumar	Assistant Professor (Sr.G)
21.	Mr.V.Kamalkumar	Assistant Professor(Sr.G)
22.	Mr.C.J.Vignesh	Assistant Professor(Sr.G)
23.	Mr.K.Balamurugan	Assistant Professor
24.	Ms.P.Praveena	Assistant Professor
25.	Mr.C.Dinesh	Assistant Professor
26.	Mr.M.Mohana Sundaram	Assistant Professor
27.	Mr.M.Mohanasundaram	Assistant Professor

SUPPORTING STAFF

S.NO	NAME OF THE STAFF	DESIGNATION
1.	Mr.M.Vinothkumar	Lab Technician
2.	Mr.C.Gopalakrishnan	Lab Technician
3.	Mr.R.Vinothkumar	Lab Technician
4.	Mr.K.S.M.Manoj Kumar	Lab Technician
5.	Mr.T.Loganathan	Lab Technician
6.	Ms.P.Parameshwari	Office Assistant

ASSOCIATION ACTIVITIES

Quiz Series on Electric Vehicles – XXXI

The department of Electrical and Electronics Engineering organized a “Quiz Series on Electric Vehicles – XXXV” on 16/04/2022 open to all, who are keen on emerging EV technologies. The poster is circulated to various Institutions and in social media digitally. Participants from various Institutions, Universities and Industries across India have participated in this quiz.

The poster is for a quiz series organized by the Department of Electrical and Electronics Engineering at KPR Institute of Engineering and Technology (Autonomous, NAAC "A") in collaboration with the IEEE Students' Branch (SB60107085). The quiz is titled "Quiz Series on Electric Vehicles - XXXV" and is held on 16.04.2022. The poster features the KPR Institute logo, the IEEE logo, and a QR code. The text on the poster includes: "Department of Electrical and Electronics Engineering", "Conducts", "Come and Play the Quiz to Assess Your knowledge update on EV!", "on 16.04.2022", "Join us! and Play the Quiz", "https://forms.gle/58LWFHCQQdAkee1P7", "Secure 50%! Grab your e-certificate!", and the names of the organizers: Dr. S. Ravindran (Assistant Professor (GLO) / EEE) and Dr. V. Kumar Chinnaiyan (Professor & Head / EEE). The KPR Institute logo and website (kpriet.ac.in) are also present.

Batteries for Mild Hybrid Electric Vehicles

The department of Electrical and Electronics Engineering organized a webinar on “Batteries for Mild Hybrid Electric Vehicles” on 19/04/2022 for faculty and students’ community. A heart-warming welcome was delivered by Dr.S.Shanmugam, Chairman, IE(I) Coimbatore Local Centre and Presidential address given by Dr.V.Kumar Chinnaiyan, Professor and Head, Department of EEE. Dr.C.Pazhanimuthu, AP (Sl.G) has introduced the guest speaker. Dr. Sundar Mayavan, Principal Scientist, Lead Acid Battery Section, CSIR-Central Electrochemical Research Institute, Karaikudi has delivered valuable presentation. The resource person shared their wide experience in real time application of batteries. The vote of thanks was delivered by Dr.J.Krishnamoorthi, Honorary Secretary, IE(I) Coimbatore Local Centre. There were 70 participants attended the webinar and get benefited. The department of EEE thanks to the management and IE(I) Coimbatore Local Centre for providing this opportunity to conduct the webinar successfully.

Department of Electrical and Electronics Engineering

in association with Institution of Engineers (India),
Coimbatore Local Centre

Organizes a

Webinar on

Batteries for Mild Hybrid Electric Vehicles

Resource Person



Dr. Sundar Mayavan
Principal Scientist
Lead Acid Battery Section
Battery Performance Testing and Evaluation Centre
CSIR - Central Electrochemical Research Institute, Karaikudi

 **19.04.2022**  **03:00 - 04:00 PM**

Convenor
Dr. V. Kumar Chinnaiyan
Professor & Head/EEE

Coordinator
Dr. C. Pazhanimuthu
AP (SI.G)/EEE


meet.google.com/jnr-kynp-jtu



kpriet.ac.in      /KPRIETonline

IQAC Webinar – April 2022

The Internal Quality Assurance Cell (IQAC) in association with Department of EEE organized a webinar series for 2023 and 2024 batch on 20/04/2022. A heart-warming welcome was delivered by Dr.J.Karpagam, Head – IQAC, Prof/EEE and Dr.V.Kumar Chinnaiyan addressed the gathering and shared the importance of competitive exams for getting into the PSUs in the current scenario. Er.K.Madhuleka, Management Trainee, Tata Consultancy Services, Chennai an alumnus of 2020 has been invited as a resource person to deliver the information about the preparatory tips and other state government opportunities in India. She has shared her personal experience about how to get ready and crack the examination. The session was an eye opening for all the participants. Prof.R.Revathi, AP (Sr.G)/EEE, delivered the vote of thanks.

KPR Institute of Engineering and Technology
Learn Beyond
Autonomous, MAAC 'A'
Aulnesh Road, Arasur, Coimbatore.

INTERNAL QUALITY ASSURANCE CELL (IQAC)
in association with
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Organizes a

Webinar on
HOW TO CRACK GOVERNMENT EXAMS

20/04/2022
6.00 PM TO 7.00 PM

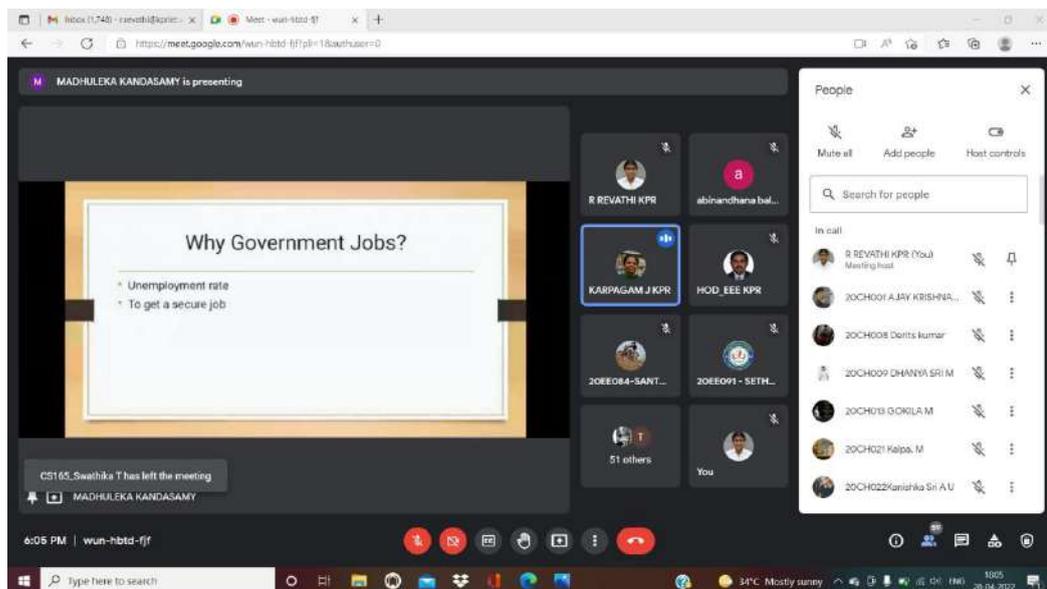
meet.google.com/wun-hbtd-fjf

Convenor
Dr. V.Kumar Chinnaiyan
Professor & Head/EEE
Dr. J.J.Karpagam
Head - IQAC
Professor/EEE

Coordinator
Ms. R.Revathi
AP(Sr.B) / EEE

SUSTAINABLE DEVELOPMENT GOALS

kpriet.ac.in



Hands-on Workshop on Simcenter Magnet Software

The department of Electrical and Electronics Engineering organized a hands-on workshop on “Simcenter Magnet Software” on 21/04/2022 and 22/04/2022. A heart-warming welcome was delivered by Prof.B.Lalitha, AP (Sr.G). Prof.C.J.Vignesh, AP (Sr.G)/EEE has delivered valuable hands-on presentation. The hands-on program provided the experience on installation of Simcenter Magnet Software, menu and tools usage, 2D design, application of Magnet software. The vote of thanks was delivered by Dr.C.Pazhanimuthu, AP (Sr.G)/EEE. There were 10 students and 05 faculty actively participated the programme and get benefited. The department of EEE thanks to the management for providing this opportunity to conduct the two-day workshop successfully.

EIWTC

Organizes a

Hands-on Workshop Simcenter Magnet Software

Resource Person



Mr.C.J.Vignesh
Assistant Professor (Sr.G)
Department of EEE
KPRIET

Course Outline

- Basics of MagNet software
- Model building in MagNet software
- Statics 2D modelling of electromagnet
- Brushless motor - 2D transient with motion
- Import and export design model into solid work
- Statics BLDC motor and induction motor design
- Flux analysis and field study on motor model

Workshop Fee:

Rs. 500/- (Including Lunch and Refreshment)

 21.04.2022 | 22.04.2022

 09.00 AM - 04.00 PM

Coordinators

Mr.C.J.Vignesh, AP (Sr.G)/EEE
Ms.B.Lalitha, AP (Sr.G)/EEE
Dr.C.Pazhanimuthu, AP (Sl.G)/EEE



EKKI - KPRIET

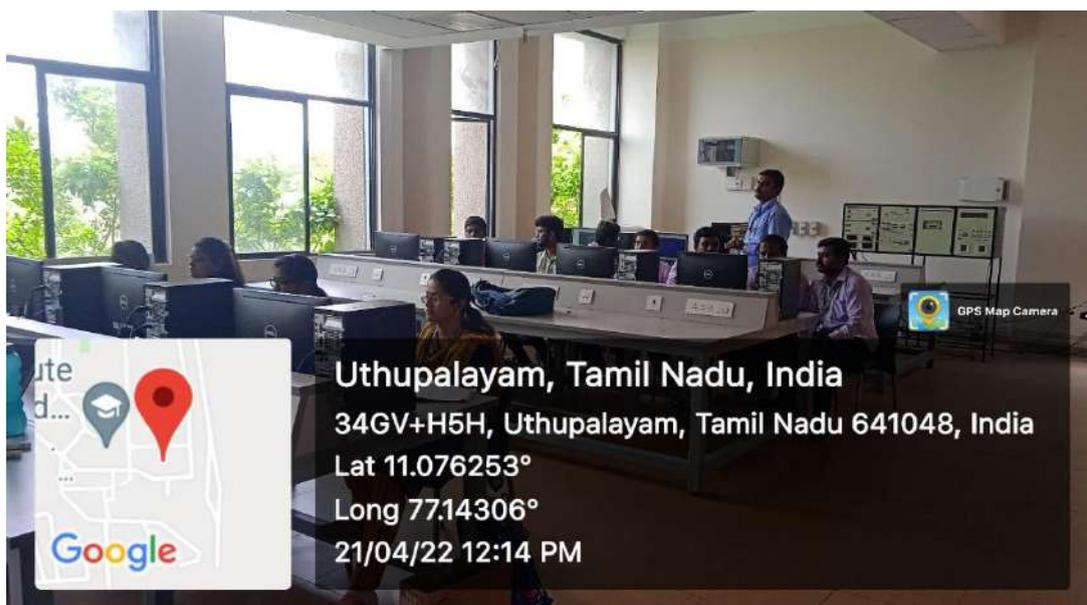
International Water Technology Centre

kpriet.ac.in

 /KPRIETOnline

Registration

<https://forms.gle/6RpMxL9QYH1UDwHt6>



MoU Signing Ceremony

The department of Electrical and Electronics Engineering KPRIET, Coimbatore had signed the Memorandum of Understanding (MoU) with EaziBiz Technologies Pvt. Ltd., Coimbatore on 29/04/2022. The delegates from EaziBiz Technologies Pvt. Ltd. are Mr.Palanivel, CEO and Mr.Navin Kumar, Project Manager. Dr.M.Akila, Principal and Chief Executive Dr.A.M.Natarajan appreciated Dr.V.Kumar Chinnaiyan Head of the Department / EEE and faculty members for the efforts towards skill development activities for students in the upcoming technologies and allied areas.



Webinar Energy Efficient Lamps

The department of Electrical and Electronics Engineering organized a webinar on “Energy Efficient Lamps” on 29/04/2022 for student community. A heart-warming welcome was delivered by Prof.R.Revathi, AP (Sl.G), Dept. of EEE. Dr.Ramji Tiwari, AP/EEE, Sri Krishna College of Engineering and Technology, Coimbatore has delivered valuable presentation on lighting systems, importance and recent technologies in renewable resources and energy conservation measures. The webinar program provided some of the interesting facts on the usage of energy efficient lamps and energy conservation techniques to the student members. The vote of thanks was delivered by Dr.P.Pandiyan, AsP/EEE. There were 45 students attended the programme and get benefited. The department of EEE thanks to the management for providing this opportunity to conduct the webinar program successfully.



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



ENSAV Club

in association with Department of EEE
Organizes a
Webinar on

Energy Efficient Lamps

Resource Person



Dr. Ramji Tiwari
Assistant Professor
Sri Krishna College of Engineering
and Technology, Coimbatore

Convenor

Dr.V.Kumar Chinnaiyan
Professor & Head/EEE



29 April 2022



04:00 PM - 05:00 PM

Coordinators

Dr.P.Pandiyan, AsP/EEE
Prof.R.Revathi, AP (Sr.G)/EEE



meet.google.com/sjc-mrsh-two



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Meet - sjc-mrsh-two - Google Chrome
meet.google.com/sjc-mrsh-two?authuser=0

Ramji Tiwari is presenting

Energy Conservation Measures in Lighting Systems

- Use of LED lamps for indicating lamps will reduce the energy consumption.
- Use of compact fluorescent lamps in place of incandescent lamps, reduce the lighting energy by 70%.
- Use of mirror optic fluorescent lamps increases the lighting level considerably.
- Use of HPSV lamps in place of MPSV lamps reduce the energy consumption by 60%
- As the lighting level is inversely proportional to square of the distance, optimizing the height of lamp will aid in reduction of lighting energy.

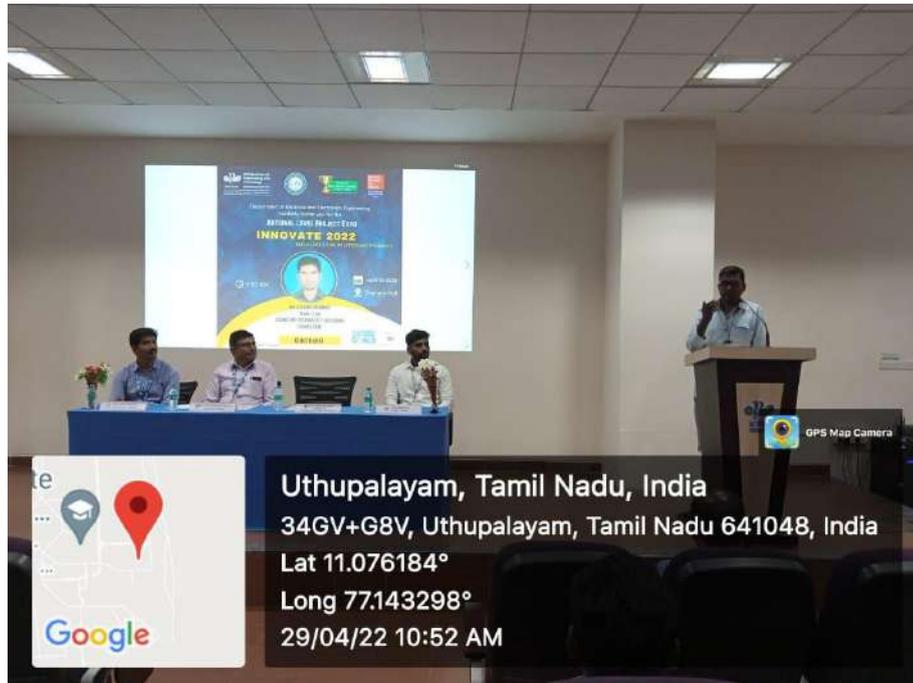
Participants: Ramji Tiwari, R REVATHI KPR, You



Innovate 2022- Project Expo for Polytechnic Students

The Department of Electrical and Electronics Engineering of KPR Institute of Engineering and Technology organized “Innovate 2022 – Project Expo for Polytechnic Students” on 29/04/ 2022. Mr.K.Bharath, II EEE welcomed the gathering. Dr. V.Kumar Chinnaiyan, Professor & Head / EEE, gave the felicitation and highlighted the advantages of conducting this kind of project expo. Dr. M.Akila, Principal, gave the presidential address and deliberated the importance of studies to the outside participants. Mr.S.S.Dinesh Kumar, Team Lead, CTS, Coimbatore addressed the participants regarding the importance of inventions, career growth in IT and core field and importance of higher studies. The participants from various parts of the state showcased their technical talents in the project presentation, paper presentation, photography and talent hunt. Finally, the prizes were announced in the valedictory session. Ms.A.Kamatchi, II EEE delivered the vote of thanks and event came to conclusion. Totally 66 polytechnic students were benefited.

The poster for 'Innovate 2022' is set against a dark blue background with a perspective view of a hallway. At the top, it features logos for KPR Institute of Engineering and Technology (Learn Beyond, TNEA Counseling Code: 2754), KPR IET, AICTE-CH Best Industry-Linkage Award-2020, Institution's Innovation Council, and Great Place to Work Certified. The main title 'INNOVATE 2022' is in large, bold, orange letters, with the subtitle 'Exclusively for Polytechnic Students' below it. The central focus is a red hexagon with the text 'WIN EXCITING PRIZES'. Surrounding this are four activity icons: 'PROJECT PRESENTATION' (people at a screen), 'TALENT HUNT' (musical notes), 'PHOTOGRAPHY' (camera icon), and 'PAPER PRESENTATION' (people at a table). Below these are the names and contact numbers of Faculty Coordinators (Prof. B. Lalitha, Dr. V. S. Chandrika, Dr. R. Sampathkumar) and Student Coordinators (Mr. E. Abeal Dhanabal, Mr. C. Rajesh Kumar, Mr. S. Mithunesh). A registration box at the bottom left includes a QR code, the text 'Register Here', and the fee 'Rs.100/- Per Head' with the URL 'https://forms.gle/s6a3NbnCL3Hg7C1CA'. The date 'APRIL 29' is prominently displayed in red. At the bottom right, there are logos for the United Nations and a book icon.



Parents Teachers Meeting

The parents' meeting was convened on 30/04/2022 at 02.00 pm in Thanam Hall. Prof. S. Vivekanandan, Assistant Professor (Sl.G), Department of Electrical and Electronics Engineering has welcomed the parents for the meeting. Dr. V. Kumar Chinnaiyan, Professor & Head, presided over the function and presented the Vision & Mission, Salient features of the Department & Institution to the parents. Dr. R. Sampathkumar, Assistant Professor (Sl.G), delivered the vote of thanks. The meeting was attended by around 120 parents.





Publication by the Faculty Members

- ❖ S.Purushotham, Dr. V.Parimala, Sanal Kumar S, “Soft Switching Converters for R-Converter for Domestic Induction by using MATLAB”, IEEE, April 2022.
- ❖ Dr. Chandrika V S, Sree Southry S, A. V. G. A. Marthanda, “Chopping Down on Industry 4.0 using Automatic Power Factor Correction Units to Boost Power Performance, IEEE, April 2022.

Books Publication by the Faculty Members

- ❖ K. Balamurugan, S. Vivekanandan, S. Ravindran, V. Kamalkumar, “Internet of Battery: Battery Monitoring System using IoT”, Research Trends in Multidisciplinary Research, April 2022.

Patent by the Faculty Members

- ❖ Mrs. B. Lalitha, Dr. S. Ravindran, Mr. C.J. Vignesh, “Optimized Impeller of a Pump with Efficient Delivery”, Publication No. 202241011390, April, 2022.

List of Eminent Academicians/Scientists Visit

S.No.	Name and Designation	Organization
1	Dr.S.Shanmugam, Chairman	IE(I) Coimbatore Local Centre
2	Dr.J.Krishnamoorthi, Honorary Secretary	IE(I) Coimbatore Local Centre
3	Dr. Sundar Mayavan Principal Scientist Lead Acid Battery Section	CSIR-Central Electrochemical Research Institute Karaikudi
4	Er.K.Madhuleka, Management Trainee	Tata Consultancy Services, Chennai
5	Mr.Palanivel, CEO	EaziBiz Technologies Pvt. Ltd, Coimbatore
6	Mr.Navin Kumar, Project Manager	EaziBiz Technologies Pvt. Ltd, Coimbatore
7	Dr.Ramji Tiwari, AP/EEE	Sri Krishna College of Engineering and Technology, Coimbatore
8	Mr.S.S.Dinesh Kumar, Team Lead	CTS, Coimbatore

Faculty Participation in FDP/Seminar/Workshop/Orientation Program

S.No	Faculty Name	Type of the Event	Event Name	Venue	Duration of the Event
1	Mr.S.Vivekanandhan	FDP	Future Trends and Advances in Electrical Sciences	Online	04/04/2022 - 08/04/2022
2	Mr.K.Balamurugan	FDP	Future Trends and Advances in Electrical Sciences	Online	04/04/2022 - 08/04/2022
3	Dr.V.Parimala	FDP	Future Trends and Advances in Electrical Sciences	Online	04/04/2022 - 08/04/2022
4	Dr.I.Baranilingesan	FDP	Future Trends and Advances in Electrical Sciences	Online	04/04/2022 - 08/04/2022

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R & D

h index	95+	i10	110+	Publications	410+
Patents	22+	Conferences	120+	Copyrights	1
NPTEL	250+	Awards	18+	Citations	5450+

Funds Received



Internships

Students	Faculty
300+ 2018-19	25+ 2018-19
350+ 2019-20	50+ 2019-20
380+ 2020-21	56+ 2020-21
310+ 2020-21 * Dec 2021	25+ 2020-21 * Dec 2021

CONTACT

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