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VISION AND MISSION OF THE DEPARTMENT

Vision:

To be a premier center for quality education, innovation and research in the field of Electrical and Electronics Engineering to meet the global challenges with professional ethics and social consciousness.

Mission:

- ❖ Provide a holistic environment to students through knowledge-centric and skill-based education
- ❖ Collaborate with industries for effective research and innovation in ElectricalEngineering and allied areas
- ❖ Enable students to serve the society through prolific ideas with professionalism and ethical values

Programme Educational Objectives (PEOs)

The Graduates of B.E. Electrical and Electronics Engineering, four years after graduation, will

PEO1: Apply the acquired knowledge and skills to meet the emerging needs of thesociety and also excel in their chosen profession

PEO2: Adapt to emerging technologies and continuously upskill through activeresearch in Electrical Engineering and allied areas

PEO3: Demonstrate leadership skills and practice their profession conforming toethical and human values

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 engineeringpractice.

- **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 technologicalchange.

Programme Specific Outcomes (PSOs)

The Graduates of Electrical and Electronics Engineering will be able to

   PSO1: Analyse, design and test power electronic components integrated withcomputer-based systems to meet industrial and societal needs

   PSO2: Deploy modern engineering tools to model, simulate, fabricate and integrate electrical systems with renewable energy to enhance sustainability

FACULTY DETAILS

S.NO	NAME OF THE FACULTY	DESIGNATION
1.	Dr.K.Mohana Sundaram	Professor & Head
2.	Dr.V.S.Chandrika	Professor
3.	Dr.P.Pandiyan	Associate Professor
4.	Dr.A.Karthick	Associate Professor
5.	Dr.C.Pazhanimuthu	Associate Professor
6.	Dr.V.Parimala	Associate Professor
7.	Mr.G.Saravanan	Assistant Professor (Sl.G)
8.	Dr.R.Sampathkumar	Assistant Professor (Sl.G)
9.	Dr.D.Sathish Kumar	Assistant Professor (Sl.G)
10.	Dr.I.Baranilingesan	Assistant Professor (Sl.G)
11.	Dr.S.Ravindran	Assistant Professor (Sl.G)
12.	Dr.A.Rakesh Kumar	Assistant Professor (Sl.G)
13.	Dr.P.Naveen	Assistant Professor (Sl.G)
14.	Dr.T.Ramesh Kumar	Assistant Professor (Sl.G)
15.	Dr.P.Ravikumar	Assistant Professor (Sr.G)
16.	Dr.N.Prakash	Assistant Professor (Sr.G)
17.	Dr.Rangu Seshu Kumar	Assistant Professor (Sr.G)
18.	Ms.B.Lalitha	Assistant Professor (Sr.G)
19.	Ms.R.Revathi	Assistant Professor (Sr.G)

20.	Mr.A.Mohamed Ibrahim	Assistant Professor (Sr.G)
21.	Mr.V.Kamalkumar	Assistant Professor (Sr.G)
22.	Mr.C.J.Vignesh	Assistant Professor (Sr.G)
23.	Mr.C.Dinesh	Assistant Professor (Sr.G)
24.	Mr.K.Balamurugan	Assistant Professor
25.	Mr.M.Mohana Sundaram	Assistant Professor
26.	Mr.G.Xavier Richards	Assistant Professor

SUPPORTING STAFF

S.NO	NAME OF THE STAFF	DESIGNATION
1.	Mr.M.Vinoth Kumar	Technical Officer
2.	Mr.R.Vinoth Kumar	Technical Officer
3.	Mr.C.Gobalakrishnan	Lab Technician
4.	Mr.M.Muthukumar	Lab Instructor
5.	Mr.M.Karuppusamy	Lab Technician
6.	Ms.R.Suvalakshmi	Lab Technician
7.	Mr.M.Soundharrajan	Lab Instructor
8.	Mr.G.Siva Sankar	Technical Assistant
9.	Ms.P.Parameshwari	Office Assistant

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ASSOCIATION ACTIVITIES

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Alumni Series I - Building Bridges

       The Alumni Interaction with III-Year and IV-Year Students was organized by the Department of Electrical and Electronics Engineering on 22/07/2023 at EE Tutorial Hall. The eventaimed to provide a platform for senior students to connect with successful alumni, gain insightsinto their future journeys and receive guidance for their own career paths.Event Highlights:Opening Remarks: The event commenced with opening remarks from Dr.K.Mohana Sundaram, HoD/EEE, who welcomed the esteemed alumni and the students. He emphasized the importance of learning from the experiences of alumni who once stood in the students' shoes.Alumni Speaker Sessions: The event featured by S. Jithendra distinguished alumni who graduated in 2013. He share his personal and professional experiences after leaving the institution and spoke about the career choices, challenges faced and significant achievements.

       The Alumni engaged in a candid conversation about transition from college life to professional life, work-life balance, and the importance of continuous learning.Q&A Session: The students actively participated in a question-and-answer session, seeking advice from the alumni on topics such as job searching and interview preparation. The alumni graciously addressed each question, offered practical tips and suggestions.Networking Opportunities: Students had the chance to seek mentorship, exchange contact information, and discuss specific career interests with the alumni.Alumni Feedback: The alumni shared his feedback on the institution's academic programs and campus life, offering valuable suggestions for improvement.Conclusion: The Alumni Interaction with III-Year and IV-Year Students was an enlightening and enriching event, leaving a profound impact on both the alumni and the students. The event fostered a sense of camaraderie to set ambitious career goals. The alumni generously shared his experiences and wisdom, providing invaluable guidance for the students' future endeavors.The organizing team extends sincere gratitude to JITHENDRA S for his invaluable contribution and the students for their active engagement. This event has further strengthened the bond between the institution and its alumni community and it will continue to be an essential tradition in nurturing the success of KPRIET's graduating students.

Three Days Hands on Training on "Designing Edge AI Applications with IoT

The department of electrical and Electronics engineering organized the three says hands on training on Designing Edge AI applications with IoT . The event coordinator Prof . G.Saravanan welcome the gathering. Mr . Rohit Prajapati, Technical Director , DigiToad Technologies deliberated the STM32CUBE IDE installation process and board pin configurations on 19/07/2023.During the session, everyone has experienced the program execution and inspired logic implementation on the board . Next day, Mr. Lingam Laishram , guided the installation process of Nano Edge AI Studio and license activation . He demonstrated the many industry case studies and program execution in AI Studio . All the participants are experienced the real-time applications: anomaly detection, classification of signals , predictive model . Also inspired the data set generation using sensors . The DigiToad Technologies team members are well explained in sensor selection for specific application and interfacing technique. In the last day, they were deliberated the AI module with IoT and compatibility of board with other IDE . The event ended with vote of thanks delivered by Dr. I.Baranilingesan, AP (Sl.G) / EEE.

Publication by the Faculty Members

1. Dr.K.Mohana Sundaram, "Adaptive Controller for Bridgeless New SEPIC Integrated Landsman Converter for PFC in Induction Motor", Electric Power Components and Systems, July 2023.

2. Dr.V.S.Chandrika, "Performance Analysis of a Seven-Level Multilevel Inverter in Grid-Connected Systems", SSRG International Journal of Electrical and Electronics Engineering, Volume 10, Issue 6, Page No. 9 – 22, June 2023.

3. Dr.P.Pandiyan, "Technological advancements toward smart energy management in smart cities", Energy Reports 10 (2023), Page No. 648 – 677.

4. Dr.V.Parimala, "Comparative study of conventional solar still with and without black-painted wick materials: energy and exergy study", Desalination and Water Treatment 294 (2023), Page No. 11 – 19.

5. Dr.V.Parimala, "Water depth effect on energy, exergy losses, and exergy efficiency of solar still with wick materials: an experimental research", Environmental Science and Pollution Research, July 2023.

List of Eminent Academicians/Scientists Visit

S.No.	Name and Designation	Organization
1	Mr. S. Jithendra Project Lead	Value Labs, Coimbatore
2	Mr. Rohit Prajapati, Technical Director ,	DigiToad Technologies, Bengaluru
3	Mr. Lingam Laishram, Technical Engineer	DigiToad Technologies, Bengaluru
4	Ms. Mrinalini Bark, Application Engineer	DigiToad Technologies, Bengaluru

Faculty Participation in FDP/Seminar/Workshop/Orientation Program

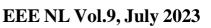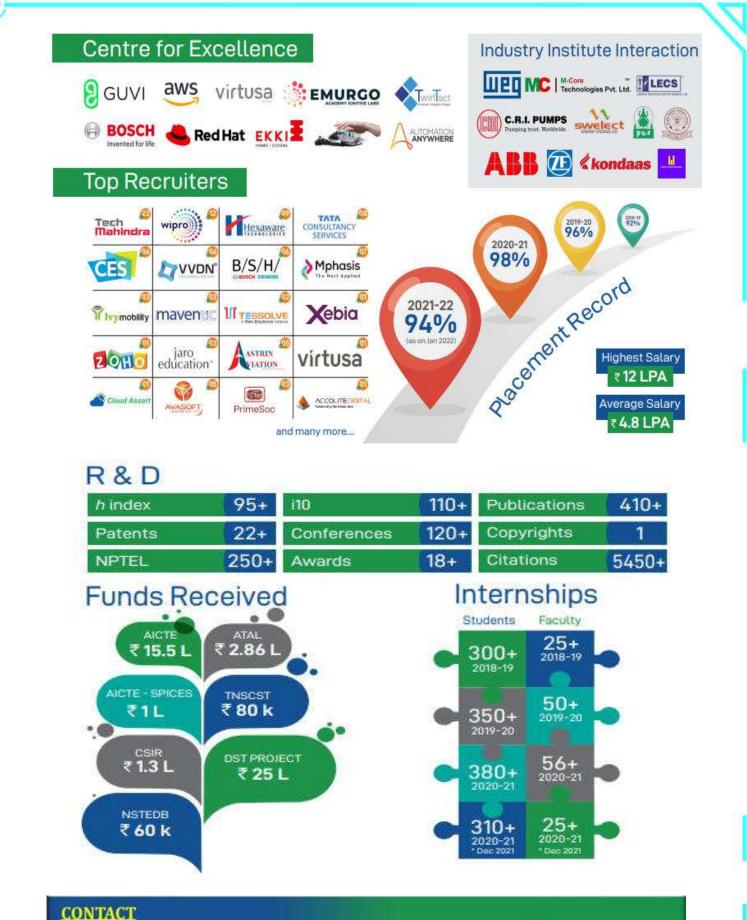| S. No	Faculty Name	Type of the Event	Event Name	Name of the Organization	Duration of the Event
1	Mr.C.J.Vignesh	Workshop	Integrating Autodesk Fusion 360 in Engineering Subjects	Lendi Institute of Engineering and Technology, Vizag	26/06/2023 - 01/07/2023
2	Dr.C.Pazhanimuthu	Conference	Computing, Communication and Networking Technologies	IIT, Delhi	06/07/2023 - 08/07/2023
3	Dr.C.Pazhanimuthu	Workshop	Future of Sustainability: Electric Vehicles and Smart Grid	SRM Institute of Science & Technology, Chennai	27/07/2023 - 29/07/2023
4	Ms.B.Lalitha	Workshop	Future of Sustainability: Electric Vehicles and Smart Grid	SRM Institute of Science & Technology, Chennai	27/07/2023 - 29/07/2023
5	Mr.K.Balamurugan	Workshop	Future of Sustainability: Electric Vehicles and Smart Grid	SRM Institute of Science & Technology, Chennai	27/07/2023 - 29/07/2023
6	Mr.C.J.Vignesh	Workshop	Future of Sustainability: Electric Vehicles and Smart Grid	SRM Institute of Science & Technology, Chennai	27/07/2023 - 29/07/2023
7	Dr.C.Pazhanimuthu	Workshop	Industrial IoT using LORAWAN Technology	Enthu Technology Solutions, Coimbatore	29/07/2023
8	Dr.I.Baranilingesan	Workshop	Realization of Communication Microgrid using Opal-RT	VIT, Chennai	31/07/2023 - 04/08/2023

Faculty Internship Details

S. No	Faculty Name	Company Name	Internship Starting Date	Internship Ending Date
1	Dr.C.Pazhanimuthu	MAS Solar systems Pvt. Ltd., SIDCO Private Industrial Estate, Coimbatore	01-07-2023	07-07-2023
2	Mr.V.Kamalkumar	Innovative Invaders Technologies, Coimbatore	01-07-2023	07-07-2023
3	Dr.A.Karthick	VGR Automation, Coimbatore	03-07-2023	08-07-2023
4	Mr.A.Mohamed Ibrahim	MAS Solar systems Pvt. Ltd., SIDCO Private Industrial Estate, Coimbatore	03-07-2023	07-07-2023

Students Participation in Seminar/Workshop/Hands on Training/ Orientation Program

S.No	Student Name	Year & Section	Event Name	Name of the Organization	Duration of the Event
1	Maha Vishnu G	IV EEE A	Hackathon	SNS Square Consultancy Pvt. Ltd & Mindful AI	16/07/2023
2	Keerthi Ragavendran S	III EEE A	Workshop	SRM Institute of Science & Technology, Chennai	27/07/2023 - 29/07/2023
3	Harish P S	III EEE A	Workshop	SRM Institute of Science & Technology, Chennai	27/07/2023 - 29/07/2023
4	Dhanush S	III EEE A	Workshop	SRM Institute of Science & Technology, Chennai	27/07/2023 - 29/07/2023
5	Abishek K	III EEE A	Workshop	SRM Institute of Science & Technology, Chennai	27/07/2023 - 29/07/2023
6	Vishnu M	III EEE A	Workshop	SRM Institute of Science & Technology, Chennai	27/07/2023 - 29/07/2023

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Top Recruiters

Tech Mahindra (22)	wipro (12)	Hexaware Technologies (09)	TATA CONSULTANCY SERVICES (08)
CES (06)	VVDN Technologies (06)	B/S/H/ BOSCH SIEMENS (06)	Mphasis The Next Applied (07)
Ivymobility (03)	mavenbc (03)	TESSOLVE A Hero Electronix Venture (02)	Xebia (03)
ZOHO (01)	jaro education (03)	ASTRIN AVIATION (05)	virtusa (01)
Cloud Assert (01)	AVASOFT (05)	PrimeSoc (03)	ACCOLITE DIGITAL (01)

and many more....

Placement Record

- 2021-22 **94%** (as on Jan 2022)
- 2020-21 **98%**
- 2019-20 **96%**
- 2018-19 **92%**

Highest Salary ₹ 12 LPA

Average Salary ₹ 4.8 LPA

R & D

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

Funds Received

- AICTE ₹ 15.5 L
- ATAL ₹ 2.86 L
- AICTE - SPICES ₹ 1 L
- TNSCST ₹ 80 k
- CSIR ₹ 1.3 L
- DST PROJECT ₹ 25 L
- NSTEDB ₹ 60 k

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