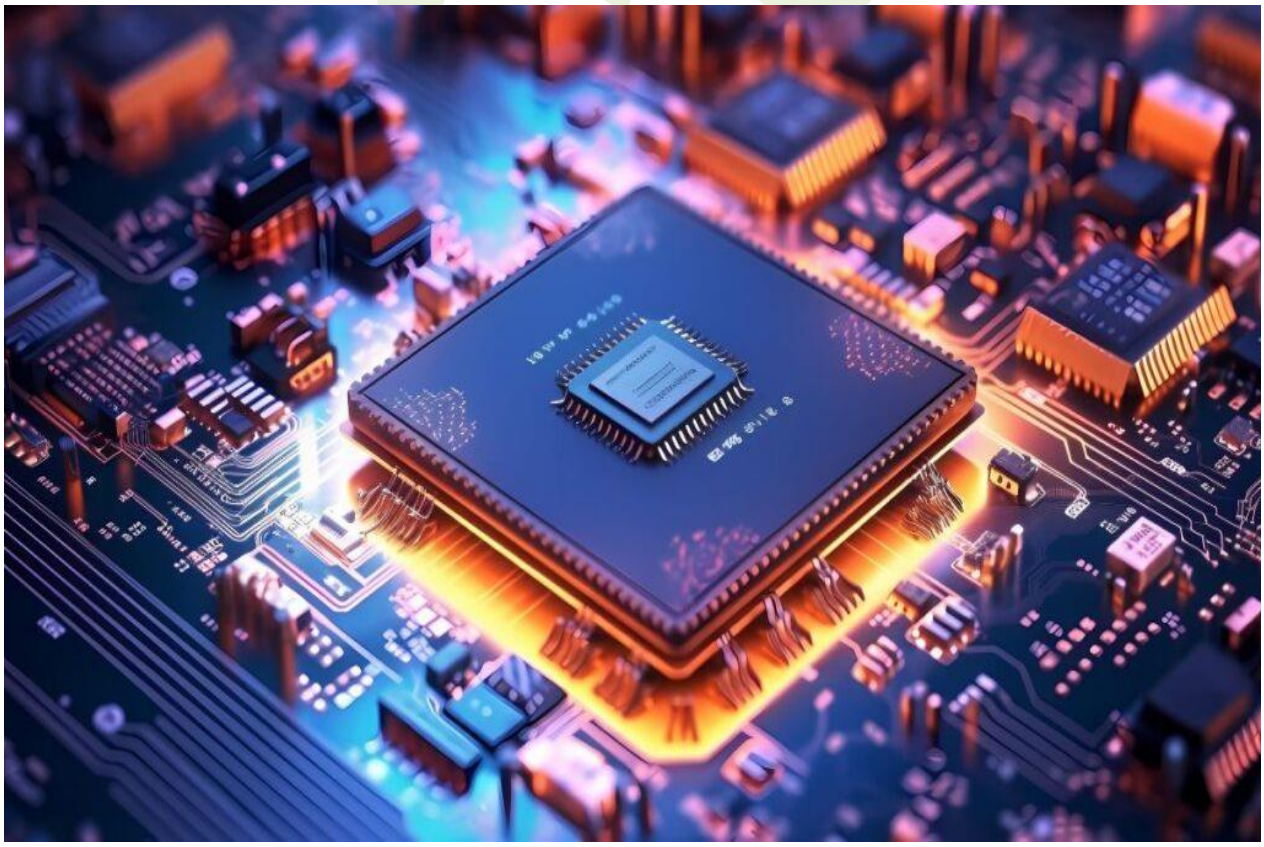
KPR Institute of Engineering and Technology
(Autonomous)
Avinashi Road, Arasur, Coimbatore - 641 407

LEARN BEYOND

Department of Electronics and Communication Engineering
(Accredited by NBA)

Volume No.10 - Issue 4



EDITORIAL BOARD

Vision

To be a center of excellence for education, research and development in the field of ECEto meet the growing needs of society.

Mission

- Develop competencies in emerging technologies through skill-based education collaborating with industries of repute
- Provide conducive environment for research and innovation to cater to the needs of society
- Inculcate professionalism, ethical values and lifelong learning

Program Educational Objectives

- PEO1: Apply principles of ECE to provide solutions to the emerging problems in society.
- PEO2: Embrace technological challenges through skill upgradation or higher education or research.
- PEO3: Exhibit leadership qualities with professional and ethical values

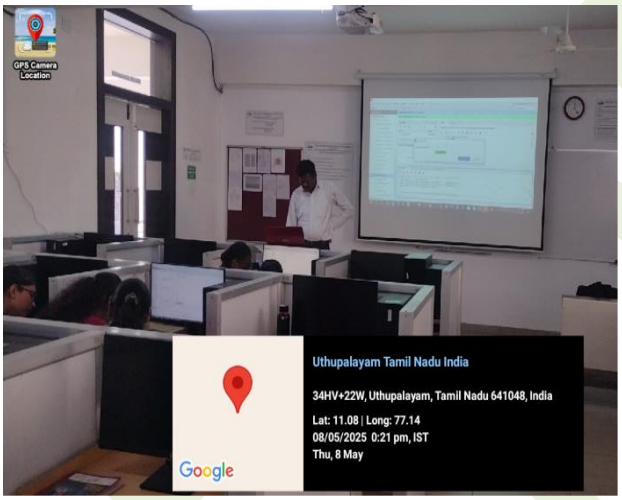
EVENTS ORGANIZED

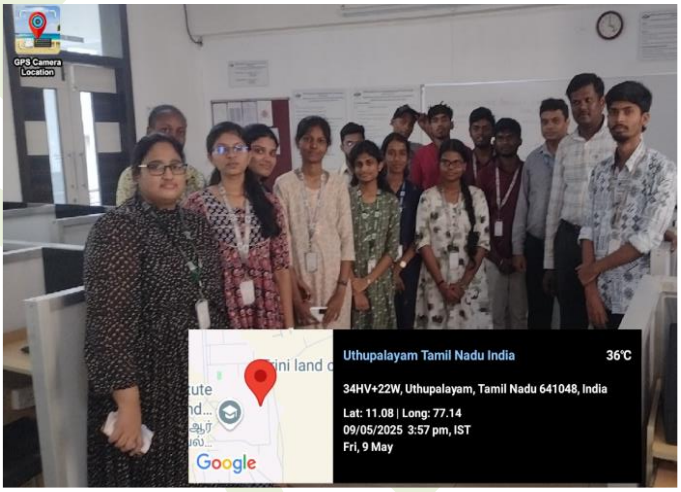
Hands on training System Design using FPGA

The Department of ECE, in association with the student association SPARTRANZ, organized a three-day intensive hands-on training program titled "System Design Using FPGA" on 8th and 9th May 2025 from 9:30 AM to 4:00 PM at the DSN Laboratory. This department-level on-campus expert talk, aligned with SDG 4: Quality Education, was designed exclusively for students to enhance their knowledge and practical skills in the area of digital system design using Field-Programmable Gate Arrays (FPGAs). The session was coordinated by Mr. J. Prasad and facilitated by Mr. S. Prabhu, Project Lead, Zepto Logic Technologies Private Limited, who served as the resource person. The program witnessed the participation of 14 students, providing them with a valuable platform to explore advanced concepts in the VLSI and digital electronics domain.

The training commenced with an introduction to the fundamentals of digital electronics, focusing on combinational and sequential logic, their significance in digital circuit design, and their practical implementation on Artix-7 FPGA boards. Students gained hands-on experience in designing and simulating circuits using hardware description languages (HDLs) like Verilog, as well as working with industry-standard FPGA development tools. On day one, topics such as the implementation of basic combinational and sequential logic circuits were covered, followed by an assessment of students through simple logic design exercises on the FPGA board. Day two focused on the architecture and resource utilization of the Artix-7 FPGA, enabling students to implement various practical circuits, including full adders, counters, seven-segment displays, universal shift registers, and multiplexers. The sessions were highly interactive, with students actively asking questions, engaging in discussions, and clarifying technical doubts with the expert.

By the end of the program, students were able to understand combinational and sequential logic circuits and finite state machines, write Verilog HDL code for implementing logic circuits, comprehend the FPGA implementation process on Artix-7 boards, and recognize the critical role of FPGA technology in VLSI design. Moreover, they gained awareness of different roles of VLSI engineers in the industry, thereby bridging the gap between academic learning and practical industrial requirements. This hands-on training session successfully empowered participants with both theoretical knowledge and practical exposure, fostering technical competence and preparing them for future opportunities in semiconductor and FPGA-based system design industries.





Brainstorming session 3

The Department of ECE, in association with the IEEE Circuits and Systems Society, organized “Brainstorming Session 3” on 3rd May 2025 from 1:00 PM to 4:00 PM. This online club-level presentation session, aligned with SDG 4: Quality Education, was designed to support students in developing innovative technical projects and strengthening their applications for IEEE grants. The session was coordinated by Mr. Balamurali S, Assistant Professor II, who also served as the resource person. A total of 15 students participated in this highly interactive session.

The brainstorming session focused on guiding students through idea generation, project conceptualization, and refining their technical and documentation skills. Participants explored project alignment with current research trends, effective technical content writing, and presentation enhancement techniques, with emphasis on preparing competitive proposals for IEEE funding opportunities. The online format allowed for

dynamic discussions and individual mentoring, enabling students to clarify doubts, exchange creative inputs, and collaboratively polish their project plans.

As an outcome, students gained a deeper understanding of the process of identifying impactful problems, structuring project proposals, and presenting them effectively in alignment with IEEE grant expectations. The session not only enhanced their technical and communication skills but also motivated them to actively participate in IEEE activities, bridging the gap between conceptual ideas and implementable projects while fostering a culture of innovation and professional growth within the student community.

Brainstorming session 4

The Department of ECE, in collaboration with the IEEE Circuits and Systems Society, conducted "Brainstorming Session 4" on 10th May 2025 from 9:00 AM to 1:00 PM. This online club-level activity, aligned with SDG 11: Sustainable Cities and Communities, SDG 4: Quality Education, and SDG 9: Industry, Innovation, and Infrastructure, was designed to equip students with the skills required to develop innovative project ideas and successfully apply for various IEEE societal activity grants. The session was coordinated and facilitated by Mr. Balamurali S, Assistant Professor II, KPRIET, with active participation from 15 students.

This brainstorming session provided a platform for students to refine their project concepts, align their ideas with real-world community needs, and structure proposals in accordance with IEEE's funding requirements. Participants engaged in interactive discussions, received guidance on technical content preparation, and explored strategies for presenting impactful proposals that bridge technology and societal development. The online mode encouraged collaborative learning and creative input-sharing among students from diverse interest areas.

The session successfully enhanced students' understanding of the grant application process, project relevance to societal challenges, and the integration of sustainable and innovative practices into their technical solutions. It motivated students to actively participate in IEEE initiatives, strengthened their proposal-writing and presentation skills, and fostered a spirit of innovation and social responsibility within the student community.

IoT with Raspberry Pi

The Department of ECE organized a two-day value-added program on “IoT with Raspberry Pi” for second-year ECE students on 10th and 12th May 2025 at the Center for IoT, Department of ECE. This department-level training initiative, aligned with SDG 4: Quality Education and SDG 9: Industry, Innovation and Infrastructure, aimed to provide practical exposure to Internet of Things (IoT) applications using the Raspberry Pi platform. The session was coordinated by Mr. R. Jaikumar, Assistant Professor, and witnessed the enthusiastic participation of 43 students.

The program began with a step-by-step walkthrough of Raspberry Pi Operating System installation, SD card preparation, and initial board configuration, equipping students with the essential skills to set up the hardware and software environment. Participants then explored interfacing various sensors such as temperature, humidity, and motion detectors through GPIO programming, data acquisition, and real-time sensor data visualization.

Further, the training introduced wireless communication techniques by integrating ESP8266 and ESP32 modules for Wi-Fi-based remote monitoring and control. A highlight of the session was the implementation of a live video streaming system using ESP32-CAM and Raspberry Pi, covering camera configuration, IP streaming, and real-time video transmission over a local network. The final module combined all learned components into a fully functional IoT system, enabling students to collect and monitor sensor data through web dashboards and serial outputs, providing a complete perspective of real-time IoT operations.

The program was highly interactive, encouraging active student participation, collaborative problem-solving, and discussions on real-world IoT applications in automation, surveillance, and smart systems. This hands-on training enriched the students’ technical skills, strengthened their understanding of embedded systems, and prepared them for future projects, internships, and research activities in the rapidly growing IoT domain.

Teachers for New-Gen Learners with SILT Approach

The Department of ECE, in collaboration with IETE and Spartranz, successfully organized an international workshop on “Antenna Design, Fabrication, and Testing” on March 14, 2025, from 11:00 AM to 12:30 PM at the IV ECE C classroom, KPR Institute of Engineering and Technology. This workshop was an association activity aligned with SDG 4: Quality Education, and was primarily organized for students.

The event was coordinated by Dr. J. Prasad and Mr. Jakir Hussain G K, with guidance from Prof. V. Seethalakshmi, the Faculty In-Charge. A total of 237 external participants from various colleges attended the workshop, making it a highly successful and engaging learning experience.

The objective of the workshop was to bridge the gap between theoretical knowledge and practical application in the field of antenna technology. The event provided participants with a comprehensive understanding of antenna design, fabrication, and testing, essential for careers in wireless communication, radar, and satellite systems. The session began with theoretical discussions, focusing on the fundamentals of antenna design, types of antennas, and their applications in communication systems. Key topics included antenna fundamentals, performance parameters such as gain, radiation patterns, and bandwidth, as well as the importance of selecting appropriate materials for fabrication.

A key highlight of the event was the hands-on session, where participants actively engaged in antenna design and fabrication. They also had the opportunity to visit the Smart Antenna Lab within the ECE department, where they were able to apply

theoretical knowledge in practical settings, enhancing their understanding of real-world applications of antenna technology.

The workshop concluded with an interactive session, allowing participants to ask questions and share insights gained from the session. The event successfully fostered technical curiosity and innovation among the participants, encouraging them to explore further advancements in the field of antenna technology. Overall, the workshop was an enriching learning experience that equipped students with the essential skills to pursue careers in wireless communications and antenna design. It successfully provided both theoretical knowledge and practical exposure to the rapidly evolving field of antenna technologies.

Design and Verification Concepts using EDA Tools

The Department of ECE, in association with IETE and Spartranz, successfully organized an international-level workshop titled “Workshop on IoT” on March 14, 2025, from 11:00 AM to 12:30 PM. The session was conducted on campus at the Centre for IoT, KPR Institute of Engineering and Technology, as part of the Fiestaa'25 technical celebration. The event was aligned with SDG 4: Quality Education and aimed to provide students with practical insights into the rapidly evolving world of the Internet of Things (IoT).

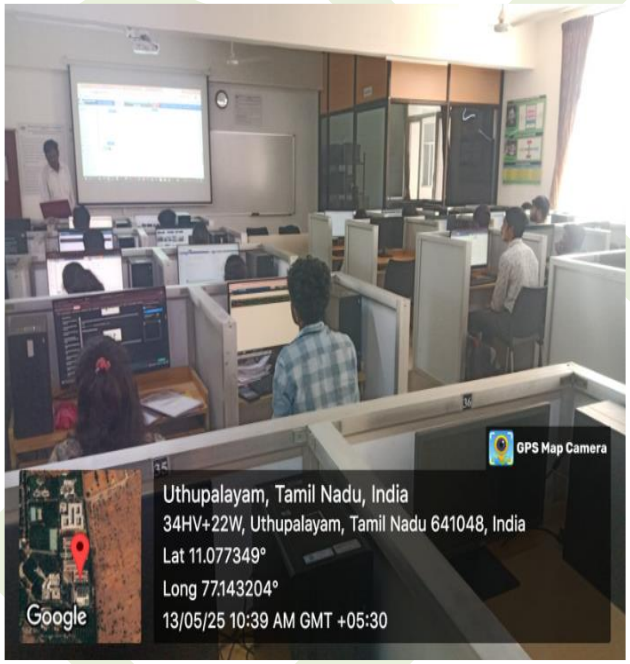
The workshop was convened by Dr. Prasad J and Mr. Jakir Hussain G K, and the resource persons included Dr. R. Jaikumar, Mr. Balamurali S, and Mrs. S. Priyadharshini, Assistant Professors from KPR Institute of Engineering and Technology. Their combined expertise enabled a well-rounded and engaging session for all attendees. With an impressive participation of over 224 students from various institutions, the workshop served as a comprehensive introduction to IoT technologies, tools, and real-world applications. The session covered fundamental topics such as IoT system architecture, hardware-software integration, sensor networks, communication protocols like MQTT and HTTP, and security considerations within IoT ecosystems.

The workshop was highly interactive, blending theoretical discussions, live demonstrations, and hands-on activities that allowed students to work with basic IoT setups and development tools. Participants explored the structure and functionality of

IoT systems and learned how to build simple projects, integrate sensors, and transmit data securely across networks.

By the end of the session, students were not only familiar with the tools and platforms used in IoT development but also gained confidence in applying their knowledge to build and test IoT prototypes. The event significantly contributed to the students' technical competence and encouraged them to explore future career and research opportunities in smart systems, embedded technologies, and industrial IoT.

Overall, the Workshop on IoT provided a valuable learning platform for aspiring engineers, combining foundational knowledge with industry-relevant skills and practical exposure. The success of the session reaffirmed the department's commitment to offering experiential learning through high-impact academic-industry collaborations.



Hands on Training - IoT

The Department of Electronics and Communication Engineering, in association with the Career Development Cell (CDC), organized a Hands-on Training on IoT on 20th May 2025 from 9:30 AM to 4:30 PM on campus. The workshop was conducted in alignment with SDG 17: Partnerships to Achieve the Goal, SDG 4: Quality Education, and SDG 9: Industry, Innovation, and Infrastructure, aiming to provide students with practical skills and exposure to modern Internet of Things (IoT) technologies.

The session was coordinated by Mr. Venkatesh T (EC082) and Mr. Ram Nivas D (13057). The resource persons for the event were Ms. Dhivya C and Mr. Sushantha K,

both serving as Application Engineers from Silicon Labs. Their expertise brought valuable industry insights into the academic learning environment.

The training introduced students to the fundamental concepts of IoT, including hardware platforms, sensor integration, communication protocols, and cloud connectivity. Through interactive demonstrations and guided exercises, participants learned how to interface sensors and actuators, manage data acquisition, and enable device-to-cloud communication. The hands-on approach provided practical exposure to configuring IoT devices, understanding real-world challenges, and exploring emerging trends in smart and connected systems.

By the end of the session, students developed enhanced technical competencies in IoT system development, bridging the gap between classroom learning and industry practices. This workshop not only strengthened their problem-solving skills but also prepared them for future academic projects, internships, and careers in IoT, embedded systems, and automation technologies.

Guest Lecture on Campus to corporate

The Department of Electronics and Communication Engineering, in collaboration with the Career Development Cell (CDC), organized a Guest Lecture on the theme “Campus to Corporate” on 20th May 2025 from 2:00 PM to 5:00 PM on campus. The lecture was conducted in alignment with SDG 17: Partnerships to Achieve the Goal and SDG 4: Quality Education, with the objective of preparing students for a smooth transition from academic life to the professional corporate environment.

The session was coordinated by Dr. Venkatesh T (EC082) and Mr. Ram Nivas D (13057). The guest speakers were Dr. Venkatesh N, R&D Training Lead, and Mr. Jackson Johnson, Senior Talent Acquisition, both from Silicon Labs. Their combined technical and HR perspectives provided students with a holistic understanding of both skill-building and corporate expectations.

The lecture focused on essential topics including corporate culture, professional communication, technical skill alignment, interview preparation, and career growth strategies. The speakers highlighted the differences between academic learning and industry demands, emphasizing adaptability, problem-solving, teamwork, and

continuous learning as key factors for success. Students were also introduced to industry hiring processes, resume building tips, and insights into emerging technologies shaping the future of ECEcareers.

The interactive Q&A session allowed participants to seek personalized guidance regarding career pathways, industry certifications, and the skills most valued in leading technology companies.

By the end of the session, students gained clarity and confidence about corporate expectations, enabling them to bridge the gap between classroom knowledge and workplace requirements. The session served as an inspiring and practical guide, equipping future engineers with the mindset and preparation needed for successful entry into the corporate world.

Industry Expert Lecture for Honors students

The Department of ECE organized an Industry Expert Lecture exclusively for Honors students on 10th May 2025, from 9:30 AM to 4:30 PM, held on campus. This session aligned with SDG 15: Life on Land, SDG 4: Quality Education, SDG 8: Decent Work and Economic Growth, and SDG 9: Industry, Innovation, and Infrastructure, emphasizing the department's commitment to bridging advanced industry practices with academic learning.

The lecture was coordinated by Dr. Jaikumar R (EC110). The resource person, Mr. Karthick Sundar, Tech Lead at Multicoreware, shared his expertise on advanced controllers for IIoT (Industrial Internet of Things). The session provided students with

insights into the design, implementation, and optimization of advanced controllers, focusing on their role in next-generation industrial automation systems.

In addition to theoretical knowledge, the session featured a hands-on component on AWS (Amazon Web Services), enabling students to understand the integration of cloud technologies with industrial controllers. Participants explored practical use cases, deployment strategies, and security considerations relevant to IIoT solutions, enhancing both their technical knowledge and practical skills.

Through interactive discussions, Mr. Karthick Sundar addressed emerging trends, real-world challenges, and career opportunities in IIoT and cloud-integrated control systems. The lecture empowered Honors students with valuable exposure to cutting-edge industrial practices, preparing them for research, higher studies, and advanced career pathways in the field of embedded and industrial automation systems.

OCC on Matlab to Python

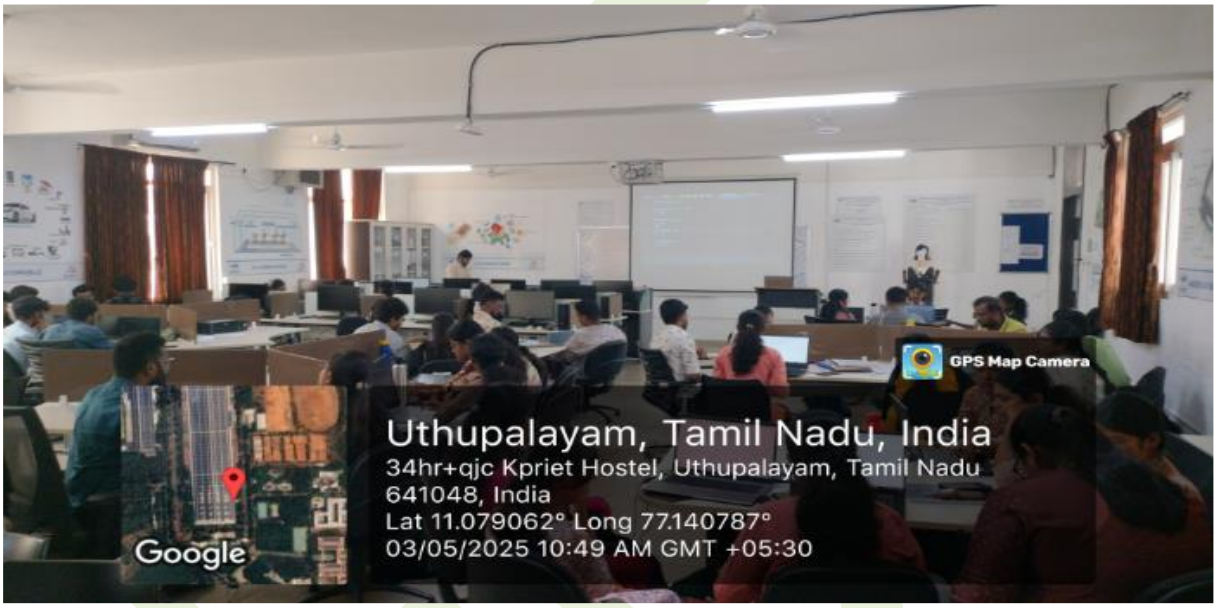
The Department of ECE conducted an OCC (One Credit Course) on Matlab to Python on 2nd May 2025 from 9:00 AM to 5:00 PM at the campus. The session was organized as part of the department's continuous effort to equip students with modern programming skills and bridge the gap between industry and academia. This program aligned with multiple Sustainable Development Goals (SDGs), namely SDG 15: Life on Land, SDG 4: Quality Education, SDG 8: Decent Work and Economic Growth, and SDG 9: Industry, Innovation and Infrastructure.

The session was coordinated by Mr. Jaikumar R (EC110). The resource person, Mr. Karthickraja T, Embedded Automotive Engineer at BOSCH, Coimbatore, shared his expertise on transitioning from Matlab-based programming environments to Python, a skill highly in demand in industries dealing with data analysis, embedded systems, and control engineering.

The training focused on introducing Python as a versatile alternative to Matlab, covering key topics such as numerical computation, data visualization, signal processing, and control system modeling using Python libraries like NumPy, SciPy, and Matplotlib. Students gained hands-on experience translating Matlab scripts into Python code, enabling them to adapt existing projects and workflows to open-source platforms.

Through practical sessions and real-time examples, students were introduced to the integration of Python with modern cloud and IoT platforms, with a special hands-on session on AWS to showcase how Python can be leveraged for cloud-based data processing and deployment in real-world applications.

This OCC provided students with valuable exposure to industry-relevant tools, enhanced their programming proficiency, and expanded their ability to work across multiple platforms, thereby strengthening their readiness for research, internships, and employment in software-driven engineering domains.



Farewell celebration for 2021-25 batch students

The Department of ECE successfully organized an international-level association activity titled “Paper Presentation” on 15th March 2025, from 10:00 AM to 12:00 PM at D-207, ECE Block, as part of Fiestaa’25. The event was convened by Dr. J. Prasad and Mr. Jakir Hussain G K, and coordinated by Mr. Balamurali S. This academic initiative was aligned with SDG 4: Quality Education, aiming to promote research communication and analytical thinking among students.

The primary objective of the event was to offer a platform for students to present their technical papers, communicate research findings, and demonstrate innovation and critical thinking. Participants were evaluated on various parameters including clarity of communication, technical depth, novelty of contribution, visual presentation, time management, and response to questions. A total of 236 students participated, presenting

in four parallel sessions held and the event featured an esteemed panel of jury members including Dr. S. M. Ramesh, Dr. Arijit De, Mrs. Archita Hore, Mrs. Rima Deka, Dr. Debashish Pal, Mr. Ashish Ranjan Shadangi, and Mr. Himangshu Deka, all faculty members from KPR Institute of Engineering and Technology.

Participants delivered presentations on diverse topics across electronics, communication, computing, and interdisciplinary domains. The event fostered an intellectually stimulating environment, promoting research articulation, academic discussion, and knowledge exchange. Students demonstrated higher-order thinking and technical clarity through their responses to queries from the jury.

The “Paper Presentation” event successfully enhanced students’ confidence, research communication skills, and exposure to peer feedback. The engaging format and constructive critiques provided by the jury helped participants reflect on their academic growth and research direction. The event was highly appreciated by attendees and reinforced the department’s commitment to academic excellence, innovation, and professional development.

FACULTY PUBLICATIONS

- Nirmal Kumar R., Valarmathi R. S., & Kalamani M. (2025). Advanced multiplier architecture optimization for accelerated arithmetic operations and its integration in wireless sensor network applications. *Technical Gazette*, 32(3), 1054–1065. https://hrcak.srce.hr/en/330572

- Saravanan K., Jaikumar R., Stalin Allwin Devaraj, & Om Prakash Kumar. (2025). Connected map-induced resource allocation scheme for cognitive radio network quality of service maximization. *Scientific Reports*, 15, Article 14037. This study proposes an innovative resource allocation strategy leveraging connected map-induced techniques to enhance quality of service in cognitive radio networks, offering improved efficiency, reliability, and spectrum utilization for next-generation wireless communication systems. https://www.nature.com/articles/s41598-025-98946-5.

- Jaikumar R., Arun Sekar Rajasekaran, M.V. Nageswara Rao, & Anand Nayyar. (2025). FEMT-FL: A novel flexible energy management technique using federated learning for energy management in IoT-based distributed green

computing systems. *Computer Standards & Interfaces*, 94, 04017. This work introduces FEMT-FL, an innovative federated learning-based approach for flexible and efficient energy management in IoT-driven green computing infrastructures, enhancing scalability, sustainability, and real-time decision-making across distributed systems. https://www.sciencedirect.com/science/article/abs/pii/S0920548925000467#:~:text=The%20FL%2Dbased%20model%20enlarges,used%20for%20further%20management%20process.

- Jaikumar R., Leena B., Kathirvelu M., & Gurumoorthy G. K. (2025). HPPS: Harmonized privacy-preserving scheme for the Internet of Things and edge-collaborated smart city services. *International Journal of Information Security*. This study presents HPPS, a secure and harmonized framework designed to protect privacy while enabling efficient IoT–edge collaboration in smart city environments, addressing key challenges in data confidentiality, scalability, and real-time service delivery. https://link.springer.com/epdf/10.1007/s10207-025-01046-8?sharing_token=uVuCkRFByuW2CF31Y5Ye7fe4RwlQNchNByi7wbcMAY5jOX312AjAqGKV8lDP6tdEGGIVkzRpFg20eKbCXvPojCbCvHB3827iLgYqZaLp3gydj29usxxgslFkxgUUP8VycYYCyl0feMaw0UDILcHy0sz_dV6AouZGPFOg0YjhnzU%3D
- Thangavel Shanmugaraja, Natesapillai Karthikeyan, Subburathinam Karthik, & Balamurugan Bharathi. (2025). A super-resolution generative adversarial networks and partition-based adaptive filtering technique to detect and remove flickers in digital color images. *PLOS ONE*, 20(5). This research proposes a combined SR-GAN and adaptive filtering framework for accurate detection and removal of flickers in digital color images, enhancing image clarity, stability, and overall visual quality in multimedia processing applications. https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0317758

- Raja M. A., Jaganathan S., Jegadeesh Kumar R., Maheswaran M., Sivakami K., & Ramesh S. M. (2025). Early diagnosis of pre-osteoarthritis by

phonoarthrography using artificial intelligence. *Power System Technology*, 49(2), 791–806. This study leverages AI-driven phonoarthrography techniques to detect early signs of pre-osteoarthritis, offering a non-invasive, accurate, and efficient diagnostic pathway to improve early intervention and patient care in musculoskeletal health.

https://powertechjournal.com/index.php/journal/article/view/1844

FACULTY& STAFF PARTICIPATION

S. No.	Name of the Faculty/Staff	Title of FDP/STTP/OFDP/ Conference/Online Course	Organization Name	Date
1	Mr. Balamurali S	Semiconductor fabrication and characterization	IISC	01/05/2025
2	Dr.Seethalakshimi V	DST, NCSTC, Research proposal presentation	IIT Delhi	07/05/2025
3	Ms.M.D.Saranya	Artificial Intelligence and Machine Learning	KPRIET	07/05/2025
4	Dr. Archita Hore	FDP on AIML	KPRIET	07/05/2025
5	Dr.Ashish Ranjan Shadangi	FDP on AIML	KPRIET	07/05/2025
6	Dr.K.Kalirajan	Project Presentation	IIT Delhi	08/05/2025
7	Ms.M.D.Saranya	IoT Based Electricity Energy Meter Monitoring	KPRIET	09/05/2025
8	Dr.S.M.Ramesh	ISMSEE 25	KPRIET	09/05/2025
9	Mrs. Suganya Devi S	International Symposium on Contemporary Challenges on Intelligence Computation of Material Science and	KPRIET	09/05/2025

		Energy Engineering (ICMSEE'25)		
10	Mr. Jakir Hussain G K	Industrial Visit	Soften technologies	10/05/2025
11	Mr. Balamurali S	Advanced Communication for Professional Excellence	KPRIET	12/05/2025
12	Mr. Balamurali S	SEMulator3D Software Online Lecture and Demo Session	KPRIET	12/05/2025
13	Dr. Singaram M	Advanced Communication for Professional Excellence	KPRIET	12/05/2025
14	Dr. Finney Daniel Shadrach S	Faculty Development Program on Skill Building for Tomorrow: Research Writing, Wireless Technology & Professional Excellence	KPRIET	12/05/2025
15	Ms. M. Supriya	SEMulator3D Software Online Lecture and Demo Session	KPRIET	12/05/2025
16	Dr.Debashish Pal	Advanced Communication for Professional Excellence	KPRIET	12/05/2025
17	Dr. Archita Hore	Basics of Analog design and layout	Puncham Semicon	19/05/2025
18	Mr. Jakir Hussain G K	Embedded Systems Training	Cranes Varsity	22/05/2025
19	Dr. Jai Shankar B	CEEE	IIT Delhi	26/05/2025
20	Dr.Venugopal D	AI Bootcamp for Senior Educators	L & T Edutech	26/05/2025
21	Dr.Pandiyan P	CEEE Program	III Kanpur	28/05/2025
22	Ms.M.D.Saranya	CEEE Program - INAE - Infosys	IIT - Madras	01/06/2025
23	Dr. Murugan K	CEEE Program - INAE - Infosys	IIT - Madras	01/06/2025
24	Ms. M. Supriya	CEEE Program - INAE - Infosys	IIT - Madras	01/06/2025

25	Dr. Jai Shankar B	Research lab visit	IIT Delhi	05/06/2025
26	Dr. Murugan K	Research lab visit	IIT - Madras	09/06/2025
27	Ms. M. Supriya	Research lab visit	IIT - Madras	09/06/2025
28	Dr.Kathirvelu M	Syllabus framework for KONE Internship	KONE Elevators Chennai	09/06/2025
29	Ms.M.D.Saranya	Lab Visit	IIT - Madras	10/06/2025
30	Mr. Balamurali S	QIP PG certification onsemiconductortechnologies	IIT Surat	16/06/2025
31	Dr.Seethalakshimi V	Industrial visit	Precimeasure Pvt. Ltd.	20/06/2025
32	Ms.M.D.Saranya	Paper Presentation - ICIRCA 2025	KPRIET	25/06/2025
33	Mrs. Suganyadevi S	Smart Communication 2025 Second International Conference on Cognitive Robotics and Intelligent Systems ICC ROBINS 2025	KPRIET	25/06/2025
34	Sharmi Ganguly	Malaviya Mission Teachers Trainning Programme	KPRIET	25/06/2025
35	Dr.Venugopal D	AICTE QIP PG Certification program	IIT - Kottayam	30/06/2025
36	Mrs. Suganyadevi S	Software Development for Computer Vision using OpenCV	Mechmet Engineers	30/06/2025
37	Dr.S.M.Ramesh	Software Development for Computer Vision using OpenCV	Mechmet Engineers	30/06/2025
38	Mr. Balamurali S	Learning Experience through AI powered lenses	SASTRA university	30/06/2025

39	Dr.Pandiyan P	Learning practices using AI tools	SASTRA university	30/06/2025

STUDENT PARTICIPATION

S.No	Event Name	No of students participated
1	Online course	10
2	Workshop	3
3	Contest (Quiz, Coding Contest, club events, etc.)	15
4	Paper presentation	15
5	Internship	44
6	Project Presentation	0
7	NSS, YRC activities	4

STUDENT ACHIEVEMENT

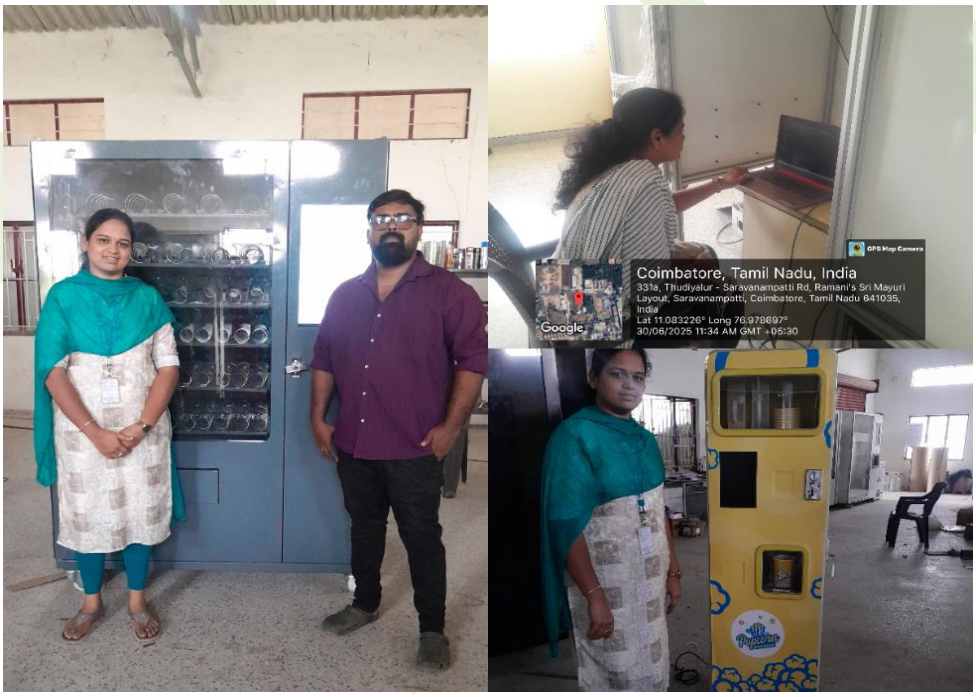
S.No	Name of the Student(s)	Achievements /Awards / Acitivities	Title of the Event	Organized by (Name of the College and club)
1.	Monithvikram S - II EC B	II prize with Cash prize ₹ 2500	Hackathon	KPRIET
2.	Nandika V K - II EC B	II prize	Technical quiz	KPRIET
3.	Tharun Babu V V - II EC C, Raksha P – II EC C, Swetha S – II EC C	II prize	Circuit debugging/celestia '25	KPRIET
4.	Vishwesh V N - II EC A	II prize	Circuit Debugging	KPRIET

IIPC ACTIVITIES

Faculty Internship

As part of ongoing IIPC initiatives to strengthen industry-academia collaboration and enhance faculty expertise in emerging technologies, industry visits and internships were undertaken during June–July 2025.

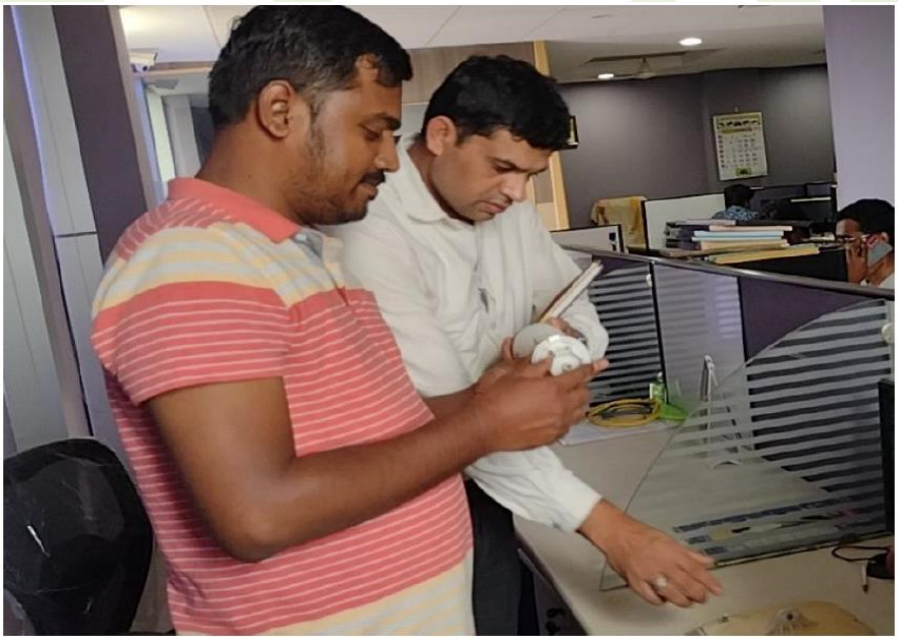
From June 30, 2025, to July 6, 2025, Ms. Suganyadevi successfully completed a one-week internship at Mechmet Engineers, providing valuable exposure to modern industrial automation practices and production systems. She explored the applications of AI-assisted industrial vision systems, learning how automated imaging technologies are used for defect detection, measurement accuracy, and classification in high-precision production lines.



Dr. Sharmi Ganguly, Assistant Professor (III), Department of Electronics and Communication Engineering, successfully completed a one-week internship at Farmish Live Private Limited from July 5, 2025, to July 11, 2025. The internship provided valuable insights into sustainable technology development, agricultural innovation, and institutional growth strategies.

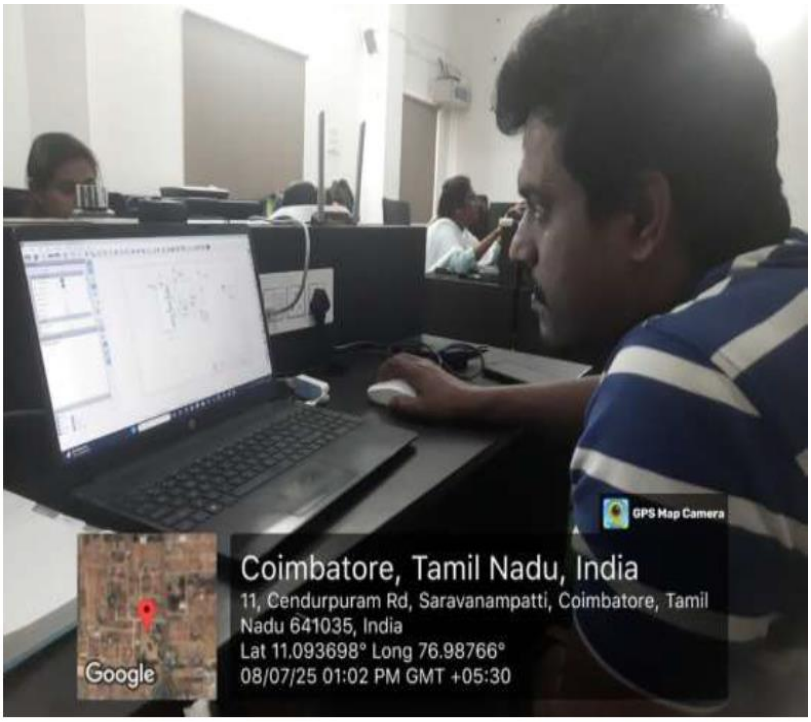
Dr. Arjit, Assistant Professor, Department of Electronics and Communication Engineering, successfully completed a one-week internship at Mechmet Engineers, Coimbatore, from June 9, 2025, to June 13, 2025. The internship provided valuable exposure to advanced manufacturing practices, industrial process optimization, and strategies for institutional-industry engagement.

Dr. J. Prasad, Assistant Professor, Department of Electronics and Communication Engineering, successfully completed a one-week internship at Zepto Logic Technologies Private Limited, Coimbatore, from June 26, 2025, to July 3, 2025. The internship offered in-depth exposure to embedded systems, IoT applications, and industry-focused research collaborations.



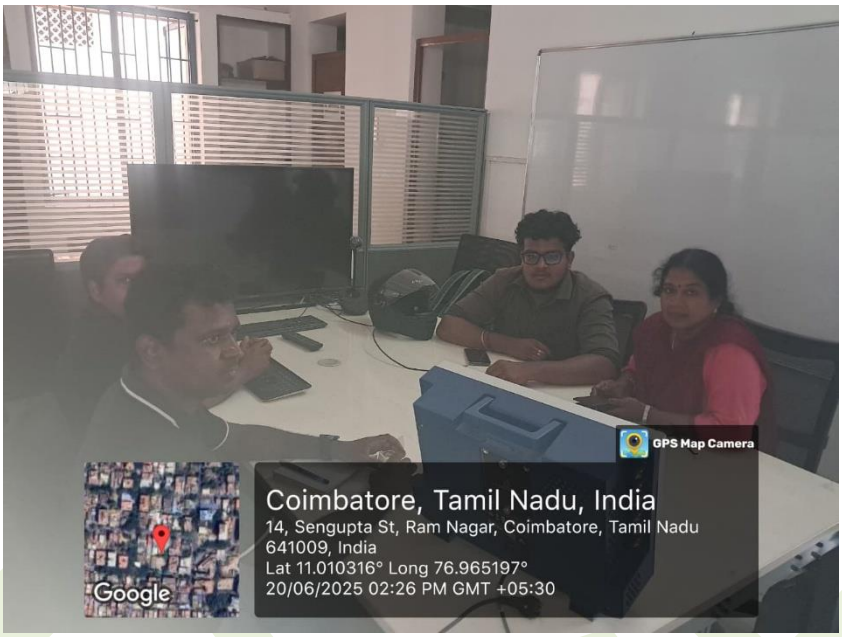
As part of the IIPC initiatives to strengthen industry-academia collaboration and provide experiential exposure, Dr. R. Jaikumar, Assistant Professor, Department of Electronics and Communication Engineering, successfully completed a one-week internship at TOP CLASS ENTERTAINMENT LLP, Coimbatore, from July 5, 2025, to July 11, 2025.

The internship offered unique insights into media technologies, creative content development, and the role of digital innovation in the entertainment industry.



Ms.S.Priyadharshini, Assistant Professor, Department of Electronics and Communication Engineering, successfully completed a one-week internship at TOP CLASS ENTERTAINMENT LLP, Coimbatore, from July 5, 2025, to July 11, 2025. The internship offered unique insights into media technologies, creative content development, and the role of digital innovation in the entertainment industry.

As part of the IIPC initiatives to enhance industry-academia partnerships and provide real-time exposure to industrial practices, Dr. V. Seethalakshmi and Mr. Aswin undertook an industry visit to Precimeasure Control Private Limited, Coimbatore, on June 20, 2025. The visit provided valuable insights into advanced control systems, energy management solutions, and industry-relevant applications.



As part of the ongoing IIPC initiatives to strengthen industry-academia collaboration, promote innovation-driven learning, and provide faculty with real-time industrial exposure, Dr. M. Kalamani and Dr. R. Jaikumar undertook an industry visit to the Centre of Excellence – IoT at PSG iTech, Coimbatore, on July 16, 2025. The visit served as an enriching platform to understand the latest advancements in Internet of Things (IoT), explore collaborative opportunities with a premier research centre, and identify pathways to integrate industrial practices with academic learning.