



KPR Institute of Engineering
and Technology

(Autonomous)

Avinashi Road, Arasur, Coimbatore - 641 407

Department of Electronics and Communication Engineering
(Accredited by NBA)

NEWSLETTER- SEPTEMBER 2023 ISSUE



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➤ **Vision**

To be a centre of excellence for education, research and development in the field of Electronics and Communication Engineering to meet the growing needs of the 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 the needs of the society.
- Inculcate professionalism, ethical values and lifelong learning.

➤ **Programme Educational Objectives**

Graduates of BE-ECE program, after four years of graduation, will

- **PEO 1:** Apply principles of Electronics and Communication Engineering to provide solutions to the emerging problems in the society.
- **PEO 2:** Embrace technological challenges through skill upgradation or higher education or research.
- **PEO 3:** Exhibit leadership qualities with professional and ethical values.

EVENT ORGANIZED

- Department of Electronics and Communication Engineering in association with office of alumni relations and IETE organises alumni lecture series 3 on 09.09.2023. Resource person: Mr. Sajja Vignesh (2018 - 2022), Jr. Engineer, VVDN Technologies Ltd, Pollachi. The 'Technology in Day-to-Day Life' webinar aimed to explore the ubiquitous presence and influence of technology in our everyday lives. The webinar began by discussing the concept of smart homes, where technology has developed the way we interact with our living spaces. The resource person highlighted the role of IoT (Internet of Things) devices in controlling home appliances, security systems, and even managing energy consumption remotely. They emphasized how smart homes enhance convenience, energy efficiency, and security for homeowners. Social media platforms were discussed in terms of their influence on our daily lives. He also highlighted the positives, such as connecting people globally and disseminating information, but also discussed concerns about privacy and the addictive nature of these platforms. Topics included the development of 5G technology, the integration of augmented reality (AR) and virtual reality (VR) into various applications. He concluded with a glimpse into the future of technology in daily life. This webinar provided valuable insights into how technology has transformed various aspects of our daily routines and its implications for the future. Students were interactive throughout the session



- The Department of Electronics and Communication- Students' Association SPARTRANZ organized

a webinar on 'Career Opportunities in Electronics Engineering' on 09.09.2023 at 03.00 PM. The webinar was broadcast ed in Thanam Hall also. Mr. Renjith.C.V, Electrical Architect/Digital Lead, Philips India Ltd, Pune. was the resource person for this webinar. More than 100 students from second and third year of Electronics and Communication Engineering department attended this webinar. In this webinar, resource person have given ideas about different types of industries. He Has given a brief introduction about skill set requirements of various IT companies like TCS, HCL, Wipro, etc., , Product based companies such as GE, Honeywell,etc., , Electronics and Semiconductor Manufacturing companies such as Jabil, Flextronics, Texas Instruments, Xilinx, etc. He elaborated the opportunities in various countries and given an idea about the entrance exams. The sessions was very useful to the students.



- Event Report: The Department of Electronics and Communication Engineering successfully organized an Industry Expert Lecture Series on IoT Architectures and Protocols, held on September 19, 2023, at the ECE Board Room. The event featured Mr. Hemanand Ramasamy, the CEO of Machdatum Pvt Ltd, Coimbatore, as the resource person. This lecture series was tailored to enrich the knowledge of honors students in the field of IoT, and it achieved its objectives admirably. Throughout the day, students were engaged in a comprehensive learning experience. Mr. Hemanand Ramasamy, drawing from his extensive expertise, provided valuable insights into the intricate world of IoT. He discussed cutting-edge trends, architectures, and protocols, offering a practical perspective that resonated with the students. His presentation encouraged interaction, with students actively participating and seeking clarification on various IoT-related topics. The event also provided an excellent networking

opportunity for students, allowing them to establish connections with Mr. Hemanand Ramasamy, a prominent figure in the industry. These connections may open doors to future collaborations and internship prospects. In summary, the Industry Expert Lecture Series on IoT Architectures and Protocols proved highly beneficial, enhancing the knowledge and networking capabilities of honors students, and reinforcing the department's commitment to fostering excellence in electronics and communication engineering.



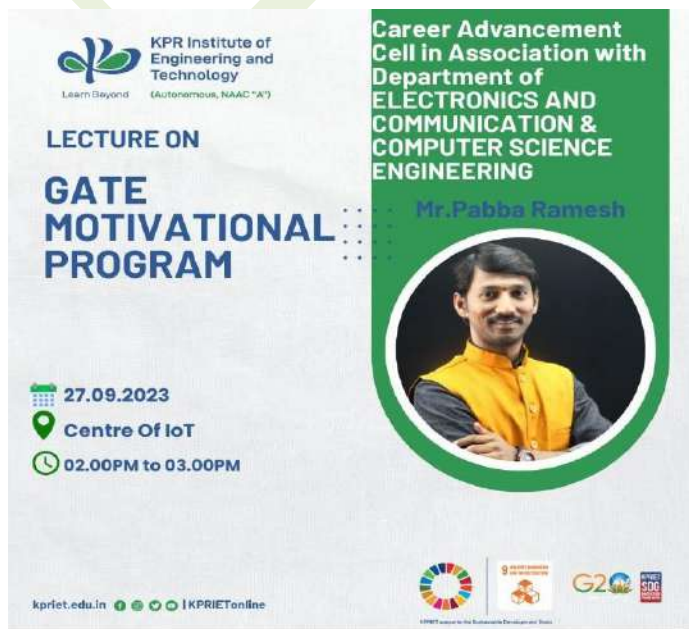
- Department of Electronics and communication Engineering in association with office of alumni relations organizes Alumni Lecture series II on Keys to success for first year Electronics and communication Engineering students. Resource person for the webinar is Ms.M.Vallikannu (2018 - 2022),System Engineer, Infosys Private Limited, Chennai. Dr.B.Jaishankar, Welcomed the gathering and resource person for the webinar. She started the session with opportunities of higher studies in abroad. Resource person highlighted some common principles and qualities that tend to contribute to success in many areas of life. She insisted students to have a achievable goal that provide direction and purpose. Success often requires a strong work ethic and a commitment to putting in the time and effort necessary to achieve goals. Building relationships and a strong professional network can provide opportunities, support, and guidance that can be instrumental in achieving success. She informed students to develop self-control and the ability to stay focused on goals. A positive mindset can help to overcome challenges and stay motivated. Developing leadership and teamwork skills can be a key to success. Students were interactive throughout the entire session.



- The Department of Electronics and Communication Engineering has organized the Inaugural of department students' association on 22.09.23. Mr.R.Boopathi, Head Engineering, Pricol Engineering Industries Private Limited, Coimbatore, Tamilnadu was the chief guest for the inaugural function. The gathering was welcomed by Ms.Kirthika of III ECE. Dr.J.Indra, Professor and Head of the department delivered the special address on this occasion. she has highlighted the department's remarkable achievements, notable publications, evolving research patterns, and commendable projects undertaken by the talented students. Her speech served as a testament to the department's commitment to excellence. An also she has listed the number of events conducted during the last academic year. Mr,.R. Boopathi delivered the chief guest address. He has shared valuable insights on core opportunities in the field of electronics and communication engineering. His talk not only enlightened the students but also provided them with a glimpse into the real-world applications of their studies. The department news letter for the month of august was released by the chief guest. Dr.D.Sharmila, Professor/ECE and Controller of Examination, KPRIET, received the newsletter. The office bearers of the students' association for the academic year 2023-2024 were introduced by Dr.K.Murugan, Associate Professor/ECE. Mr. Boobendaran of III ECE delivered the vote of thanks.



- Name of the Event : Gate Motivational Program. Date and Venue : 27.09.2023 and IoT Lab,ECE. Name of the resource person : Mr. Pabba Ramesh. The students who are interested in GATE preparation were called to attend the event. Students from ECE, CSE and BME attended the event. ACE Academy, renowned for its expertise in GATE exam coaching, organized a motivational speech event aimed at inspiring and guiding students preparing for the Graduate Aptitude Test in Engineering (GATE). (i) The speaker delivered a powerful speech filled with motivational stories, personal experiences, and tips for GATE preparation. They emphasized the importance of dedication, perseverance, and strategic planning. (ii) The event included an interactive session where students could ask questions and seek advice from the speaker. This engagement allowed for a personalized connection with the audience. (iii) Students gained a clearer understanding of their goals and the steps required to achieve success in the GATE exam.(iv) The event boosted the confidence of participants by instilling a belief in their abilities to excel in the exam. The students gave positive feedback about the event.



FACULTY AS RESOURCE SPEAKER

- Dr.K.S.Tamilselvan, Professor, Department of ECE, KPR Institute of Engineering and Technology as a scrutinizing committee member “ 3D Ruthenium Oxide Nanocarriers: A Transport Module for Efficient Heterogeneous Photocatalysis of Industrial Dyes “ organised by KPR Institute of Engineering and Technology on 29.09.2023.



FACULTY PUBLICATIONS

- L. Kalaivani, R.V.Maheswari, B.Vigneshwaran, Alagar Karthick, **Murugan Kathirvelu**, & Fausto Garcia Marquez Pedro. (2023). Partial discharge based recognition of water droplets location in high voltage insulator using convolutional neural network – bacterial foraging algorithm based optimized machine learning classifier. Measurement, 221, 113527. <https://doi.org/10.1016/j.measurement.2023.113527>
- S. Dinesh, **S. M. Ramesh**; Speed, area, power analysis of modified carry select adder with conventional carry select adder. *AIP Conf. Proc.* 13 September 2023; 2764 (1): 060036. <https://doi.org/10.1063/5.0144638>

- N. Vidhya, **V. Seethalakshmi**, A. Arul, J. Dhanasekar, N. Vinodhini; Era of reversible logic based quantum computing on low power applications. *AIP Conf. Proc.* 13 September 2023; 2764 (1): 060038. <https://doi.org/10.1063/5.0171879>
- S. Cibichakkaravarthi, P. Thangaraj, **S. Suganyadevi**; Deep learning based Covid-19 image classification from CT and X-ray images. *AIP Conf. Proc.* 13 September 2023; 2764 (1): 060015. <https://doi.org/10.1063/5.0144244>
- Chandraprabha Soundarajan, **Ram Nivas Duraisamy**, Muralidharan Jayabalan, Gulothungan Govindharajan, Pradeepkumar Gopalakrishnan, Satheesh Kumar Shanmugam; Short term predictive maintenance using machine learning models. *AIP Conf. Proc.* 13 September 2023; 2764 (1): 060035. <https://doi.org/10.1063/5.0173800>
- **Suganyadevi**, S., Shamia, D., Seethalakshmi, V., Balasamy, K., Sathya, K. (2023). Surveillance of Robotic Boat Using Iot and Image Processing. In: Dhanaraj, R.K., Rawal, B.S., Krishnamoorthi, S., Balusamy, B. (eds) Artificial Intelligence in IoT and Cyborgization. Studies in Computational Intelligence, vol 1103. Springer, Singapore. https://doi.org/10.1007/978-981-99-4303-6_6
- Mehta, P., Gaur, A., Kumar, C., Nella, A., Bhowmick, A., **Maheswar Rajagopal** . (2023). Energy Harvesting Techniques and Trends in Electronic Applications. In: Nella, A., Bhowmick, A., Kumar, C., Rajagopal, M. (eds) Energy Harvesting Trends for Low Power Compact Electronic Devices. EAI/Springer Innovations in Communication and Computing. Springer, Cham. https://doi.org/10.1007/978-3-031-35965-1_11
- **M. Saravanan**, **Eswaran Parthasarathy**, **J. Ajayan**, **T. Shanmugaraja**, **J. Mercy**, **R. Lawanya** & **B. Jaishankar** (2023). Biomedical Devices Adopting Energy-Harvesting Schemes. In: Nella, A., Bhowmick, A., Kumar, C., Rajagopal, M. (eds) Energy Harvesting Trends for Low Power Compact Electronic Devices. EAI/Springer Innovations in Communication and Computing. Springer, Cham. https://doi.org/10.1007/978-3-031-35965-1_4
- Nidhya, R., Pavithra, D., Kalpana, R., **Kathirvelu, M.**, Jayarajan, P. (2023). Energy Harvesting Scheme Using Queuing Theory for Wireless Body Area Network. In: Nella, A., Bhowmick, A., Kumar, C., Rajagopal, M. (eds) Energy Harvesting Trends for Low Power Compact Electronic Devices. EAI/Springer Innovations in Communication and Computing. Springer, Cham. https://doi.org/10.1007/978-3-031-35965-1_9
- Sharmila, A., Priya, E.L.D., **Tamilselvan, K.S.**, Anand, K.R.G. (2023). AAL with Deep Learning to Classify the Diseases Remotely from the Image Data. In: Barsocchi, P., Parvathaneni, N.S., Garg, A., Bhoi, A.K., Palumbo, F. (eds) Enabling Person-Centric Healthcare Using Ambient Assistive Technology. Studies in Computational Intelligence, vol 1108. Springer, Cham. https://doi.org/10.1007/978-3-031-38281-9_5

FACULTY PARTICIPATION

Name of the Faculty	Title of FDP/STTP/OFDP/Conference/Online Course	Organization Name	Start Date	End Date
Dr.S.M.Ramesh	Intelligent feed forward neural network classifier detects pumpkin leaf disease	KPR Institute of Engineering and Technology	13-09-2023	13-09-2023
Mr.S.Satheesh kumar	Novel Light Intensity based blood haemoglobin analyzer for detecting traits of sickle cell disorder	New Horizon College of Engineering	22-09-2023	22-09-2023
Ms.M.Supriya	A high performance low power 2-4 decoder design with modified mixed logic	KPR Institute of Engineering and Technology	20-09-2023	20-09-2023
Dr.M.Kalamani	Web Based Plant Leaf Disease Detection and Prescription Module	New Horizon College of Engineering	22-09-2023	22-09-2023
Mr.S.Satheesh kumar	Antenna Design Technologies for Intelligent Transport Systems	Anna University- CEG Guindy	25-09-2023	27-09-2023
Dr.M.Kalamani	NPTEL - Teaching and Learning in General Programs: TALG	IISc, Bangalore	27-07-2023	23-08-2023
Dr.S.M.Ramesh	Exploring Horizons : The Next Wave of AI and Data Science	SRM TRP Engineering College, Tiruchirapalli, Tamilnadu	25.09.2023	29.09.2023
Ms. S.Priyadharsini	Trust Based Immune System for Secure Communication in Wireless Network	IPEM, Ghaziabad	21.09.2023	21.09.2023

STUDENT PARTICIPATION

S.No	Event Name	No of students participated
1	Online course	38
2	workshop	Nil

3	Contest (Quiz, Coding Contest, club events, etc.)	07
4	Paper presentation	Nil
5	Internship	Nil
6	Project Presentation	Nil
7	NSS, YRC activities	01

STUDENT ACHIEVEMENT

S.No	Name of the Student	Year	Title of the Event	Organized by (Name of College and Club)	Prize - Merit Position
1.	Pradeebha V K	III-B	Renothon'23	SNS College of Technology	III
2.	Monika S	III-B	Renothon'23	SNS College of Technology	III
3.	Karthick R	III-B	Renothon'23	SNS college of Technology	III
4.	Kirubhakar P	III-B	Renothon'23	SNS college of Technology	III
5.	Harsitaa shree S	III-A	Technovista '23	Sri Eshwar College of Engineering	I & II
6.	Charulatha S	III-A	Technovista '23	Sri Eshwar College of Engineering	I & II
7.	Lavanya E	III-B	Technovista '23	Sri Eshwar College of Engineering	II
8.	Ranjithkumar C	III - C	Aaruush'23 / Reroute(line follwer)	SRM University	I (Rs.15,000/-)
9.	Yaswanth K S	III - C	Aaruush'23 / Reroute(line follwer)	SRM University	I (Rs.15,000/-)
10	Sumanth G K	III - C	Aaruush'23 / Reroute(line follwer)	SRM University	I (Rs.15,000/-)

11	Trivikram M	III - C	Aaruush'23 / Reroute(line follwer)	SRM University	II (Rs.10,000/-)
12	Sachin N	III - C	Aaruush'23 / Reroute(line follwer)	SRM University	II (Rs.10,000/-)
13	Ranjith Kumar M	III - C	Aaruush'23 / Reroute(line follwer)	SRM University	II (Rs.10,000/-)
14	Ranjithkumar C	III - C	Conscientia'23 / line follower	IIST, Trivandrum	I
15	Tharun K	III - C	Conscientia'23 / line follower	IIST, Trivandrum	I
16	Udhayadharanish B	III - C	Conscientia'23 / line follower	IIST, Trivandrum	I
17	Thashnamurthy S	III - C	Conscientia'23 / line follower	IIST, Trivandrum	I
18	Santhosh M	III - C	Conscientia'23 / line follower	IIST, Trivandrum	I
19	Pavan S	III - C	Conscientia'23 / line follower	IIST, Trivandrum	I
20	Balaji N M	III - A	Conscientia'23 / line follower	IIST, Trivandrum	II
21	Sivagurubala C S	III-C	Conscientia'23/ Line follower	IIST Trivandrum	II
22	Sivashanmugam M	III-C	Conscientia'23/Line follower	IIST Trivandrum	II
23	Sabarish Sriram	III-C	Conscientia'23/Line follower	IIST Trivandrum	II
24	Madavan S	IV - B	Conscientia'23/ (Drone Race)	IIST Trivandrum	II
25	Madavan S	IV - B	Aaruush'23 (Drone Race)	SRM University	I
26	Lalith K	IV - B	Aaruush'23 (Drone Race)	SRM University	III
27	Arthi R	III - A	Open Sight 50 m Rifle Prone Category	GV Mavlankar Shooting Championship	Bronze Model

PLACEMENT ACTIVITIES

S.No	Name of the Student	Name of the Company	Package
1	Sethupathi K	Equiniti India Private Limited	4.5LPA
2	Adhi Ganapathy R	Equiniti India Private Limited	4.5LPA
3	Kishore A	Equiniti India Private Limited	4.5LPA
4	Lalith K	Equiniti India Private Limited	4.5LPA
5	Sowndhar M	Equiniti India Private Limited	4.5LPA
6	Vinayakrishna S	Equiniti India Private Limited	4.5LPA
7	Madhavan S	Equiniti India Private Limited	4.5LPA
8	Praveen Kumar S	Equiniti India Private Limited	4.5LPA
9	Soundrika P	Accenture	4.2LPA
10	Pranathi S	Accenture	4.2LPA
11	Levin Joseph Raj A	Accenture	4.2LPA
12	Athish C B	Accenture	4.2LPA
13	Sowndhar M	Accenture	4.2LPA
14	Kavya A S	Accenture	4.2LPA
15	Chakravarthi C T R	Accenture	4.2LPA

IIPC ACTIVITIES

INDUSTRY VISITS

- Dr.K.S.Tamilselvan visited M/s.Cloudi5 Academia, Coimbatore on 26.09.2023 and discussed about various collaborative research activities and student internship.



- Dr.K.S.Tamilselvan along with six second year ECE students visited M/s.Codei5 Academia, Coimbatore on 26.09.2023

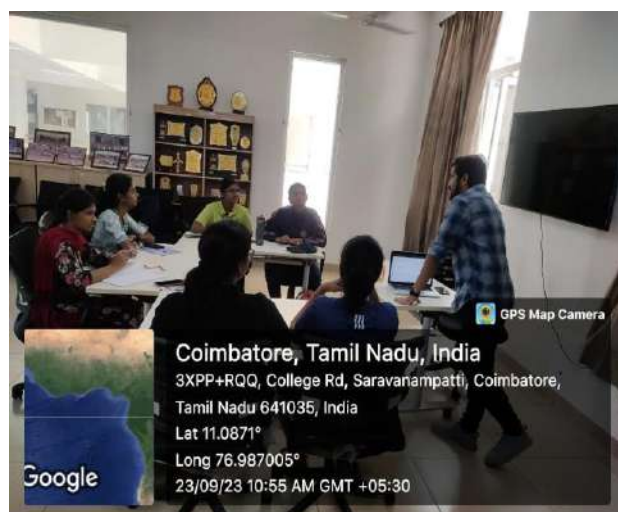


- Dr.M.Kalamani and Dr.R.Jaikumar visited Steel Graft Engineering, Ganapathy, Coimbatore on 30.09.2023 for the casing work of the developed V Guard consultancy project.



MoU Activity

Mr.N.Syed Mahadhi, Junior Software Engineer, M/s.Caliber Interconnects delivered an expert lecture for our ECE students on 23.09.2023





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