

Department of Electronics and Communication Engineering (Accredited by NBA)

Volume No.10 - Issue 1



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Vision

To be a center 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 to the needs of the society
- Inculcate professionalism, ethical values and lifelong learning

Program Educational Objectives

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

EVENT ORGANIZED

ROLE OF ISTE IN ENHANCING THE STUDENT PORTFOLIO

On August 10, 2024, students of the Indian Society for Technical Education (ISTE) conducted the "Technical Connection" event forengineering students, guided by Muralidharan J. The event aimed to enhance technical knowledge and foster collaboration among participants. Structured into two rounds, the first round featured 20 questions testing participants understanding of various technical concepts. A total of 30 teams participated, showcasing diverse talent. After evaluation, 15 teams advanced to the second round, which presented 10 additional challenging questions to further assess their problem-solving abilities. The event attracted participation from different departments, promoting interdepartmental collaboration and learning. It served as a platform for students to engage, share ideas, and develop essential skills crucial for their engineering careers. The enthusiasm and dedication displayed reflect the vibrant academic culture, emphasizing ISTE's role in nurturing future engineers. Overall, the "Technical Connection" event was a significant success, highlighting the importance of technical education.





TECH QUIZ

On August 10, 2024, the IETE Student's Forum in collaboration with the SPARTRANZ Association organized a technical connection game named "TECH QUIZ". The primary objective was to provide students with an engaging platform to test and improve their technical knowledge through a competitive quiz format. The event attracted significant interest, with over 40 students participating. Each participant demonstrated keen enthusiasm and a strong understanding of various technical concepts. The collaboration between the IETE Student's Forum and the SPARTRANZ Association played a vital role in making this event a success, and it serves as a stepping-stone for more collaborative efforts in the future.



INAUGURATION OF ECE ASSOCIATION

Department of Electronics and Communication Engineering, organized an inaugural function on August 17, 2024, to introduce executive members of department association "SPARTRANZ-24" and various professional chapters IEEE Electron Devices Society (IEEE-ED), IEEE Communication Society (IEEE-CS), and Institution of Electronics and Telecommunication Engineers (IETE) students forum, Indian Society for Technical Education (ISTE). The chief guest of the inaugural event was Mr. HareeshHariraman, an MCU application engineer from Texas Instruments in the USA. Mr. Hareesh Hariraman discussed on the "opportunities of embedded design in industry." Dr. M. Kathirvelu, Professor and Head elaborated the objective of professional society organizations and their function in educational institutions. The executive members were introduced by the faculty coordinators for each society, Dr. M. Kathirvelu (IEEE-ED), S. Finney Daniel Shadrach (IEEE-CS), J. Muraliharan

(ISTE), Mr. G.K. Jakir Hussain (IETE), and J. Prasad (Spartranz). Dr. M. Kalamani Professor and Head of Division A gave the vote of gratitude.





ONE WEEK NATIONAL LEVEL WORKSHOP ON "FROM THEORY TO PRACTICE: MILLIMETER WAVE & THZ ANTENNAS FOR MODERN APPLICATIONS"

The SERB-sponsored one-week national-level workshop on "From Theory to Practice: Millimeter Wave & THz Antennas for Modern Applications" was conducted from 19th to 23rd August 2024 at KPR Institute of Engineering and Technology, Coimbatore. Esteemed resource persons such as Dr. R. Lenin Raja (AA Laboratories, New Delhi), Dr. JoseminBala (Karunya Institute of Technology and Sciences), Prof. Amarjit Kumar (NIT Warangal), Dr. SukomalDey (IIT Palakkad), Dr. GulamNabiAlsath M (Anna University, Chennai), and others delivered insightful sessions. The program included hands-on training on cutting-edge antenna design and fabrication techniques, offering participants a comprehensive understanding of modern mmWave and THz applications. Experts, researchers, and practitioners explored the advanced technologies and applications of millimeter wave (mmWave) and terahertz (THz) antennas and learnt current research challenges and potential solutions. Over 50 participants, including postgraduate students, research scholars, and faculty, from various institutions engaged in practical exercises, demonstrations, and applying theoretical concepts. Collaborative interactions fostered research partnerships and knowledge exchange among academic and industry professionals. The workshop provided insights into the latest trends and applications of mmWave and THz antennas in cutting-edge communication systems.





EXPERT LECTURE TITLED "LOGIC LEVEL OPTIMIZATION"

The Department of Electronics and Communication Engineering (ECE) organized an expert lecture for the second-year PG VLSI Design students titled 'Logic Level Optimization' on 30th August 2024. The session, delivered by Mr. Samuel Tensingh, Senior Member of IEEE from the University of Sydney, Australia, was conducted in online mode. This lecture aligned with the second unit of their subject P23VLP20 - Low Power VLSI Design. The students gained a clear understanding of the basic concepts of logic-level optimization and explored various approaches to achieving optimization through different logic-level functions.



WORKSHOP ON PCB: ASSEMBLING AND DISASSEMBLING

The Department of Electronics and Communication Engineering (ECE) organized a workshop on "PCB: Assembling and Disassembling" on 31st August 2024, providing hands-on training and practical insights into Printed Circuit Board assembly and troubleshooting techniques. Students learned about various techniques and best practices involved in assembling the components in a PCB. Also they came to know how to remove or replace a faulty component in a PCB board. Students gained practical hands-on experience with PCB soldering techniques. Students also learned about the good practices involved in placing the components in a PCB Board.





ALUMNI LECTURE SERIES I

The Department of Electronics and Communication Engineering (ECE) organized the Alumni Lecture Series I on 31st August 2024. The session featured Ms. Kemya J, Member Technical Staff at Zoho, as the distinguished speaker. This lecture provided valuable insights into industry practices and inspired students by showcasing the professional journey and expertise of a successful alumnus.

Career development is an ongoing process managing learning, work, and career. Here are some key aspects considered in this session.

- 1. Self-Assessment Identify Strengths and Weaknesses: Reflect on your skills, interests, values, and personality. Set Goals: Short-term and long-term goals can guide your career path.
- 2. Skill Development Continuous Learning: Take courses, attend workshops, or pursue certifications relevant to your field. Soft Skills: Communication, teamwork, and leadership skills are crucial.

- 3. Networking Build Connections: Attend industry events, join professional organizations, and connect on platforms like LinkedIn. Mentorship: Find mentors who can provide guidance and support.
- 4.Experience Internships/Volunteering: Gain practical experience to enhance your resume. Projects: Work on projects that showcase your skills and interests.
- 5.Career Planning Research Opportunities: Stay informed about job trends and potential career paths. Create a Career Map: Outline the steps needed to reach your career goals.
- 6. Work-Life Balance Prioritize Well-being: Ensure that your career development aligns with your personal life and well-being.
- 7. Regular Review Evaluate Progress: Periodically assess your career goals and make adjustments as needed.



ISTE SEMINAR ON INDUSTRIAL CIRCUIT DESIGN

The Department of Electronics and Communication Engineering (ECE) organized an ISTE Seminar on Industrial Circuit Design on 31st August 2024. The seminar was conducted by Mr. Shyam S R, Engineer at VVDN Technologies, who shared his expertise on practical approaches to designing circuits for industrial applications. This session offered students a comprehensive understanding of real-world circuit design challenges and solutions. Students gained practical skills in designing, analysing, and troubleshooting industrial circuits used in manufacturing, automation, and power systems. Students work with industry-standard tools and software that prepared them for practical applications, enhancing their design and testing capabilities. Students contributed to the creation in a more efficient and sustainable industrial systems, driving advancements in technology and energy use.





WORKSHOP ON CRYPTO IN DAILY LIFE AND FINANCIAL AVENUES AS A STUDENT

The Department of Electronics and Communication Engineering (ECE) organized a Workshop on Crypto in Daily Life and Financial Avenues as a Student on 31st August 2024. The session was led by Mr. VigneshBhaiya, Founder of FACELESS NFT, who provided insightful perspectives on the practical applications of cryptocurrency in everyday life and its potential as a financial tool for students. The workshop offered participants a deeper understanding of bloc kchain technology, crypto currency usage, and emerging opportunities in the financial ecosystem. Cryptocurrency helps students understand financial concepts like blockchain, decentralized finance (DeFi), and market volatility. Crypto offers an alternative investment avenue, enabling students to start building wealth but also facing significant risks due to market fluctuations. Students can use cryptocurrency for online transactions, including paying for goods, services, or even educational resources. Crypto encourages innovation, allowing students to develop block chain projects, decentralized apps (DApps), or engage in

crypto mining. Learning about crypto currency and block chain can position students for future jobs in fintech, decentralized systems, and related industries.





Music Debugging

The student's association SPARTRANZ, department of Electronics and Communication Engineering, organised an event "Music Debugging, on 31.08.2024 at KPRIET. The objective of this





event is to focus on troubleshooting and enhancing musical performances or compositions. The event helped the audience to create a productive and engaging environment for musicians and enthusiasts looking to enhance their craft! The event was guided by Dr. J. Prasad Assistant Professor (Sl.G.) and Mr. Jakir Hussain G K Assistant Professor (Sl.G.). The event aimed to enhance musical knowledge and foster collaboration among participants. Structured into two rounds, each round featured 15 questions testing participants' understanding of various musical concepts. A total of 32 teams participated, showcasing diverse talent. After evaluation, 15 teams advanced to the second roundand presented an additional 15 challenging questions to further assess their problem-solving abilities within the realm of music.

BRAINSTORM BASH

On September 14, 2024, the IETE Student's Forum organized a technical quiz game named "BRAINSTORM BASH," which took place at D-105 in the ECE Block, starting at 2:00 PM. The primary objective was to provide students with an engaging platform to test and improve their technical knowledge through a competitive quiz format, which included "Who am I" style questions. The BRAINSTORM BASH was a well-received and successful event, fostering both learning and competition among the participants. The collaboration between the IETE Student's Forum played a vital role in making this event a success, and it serves as a stepping stone for more collaborative efforts in the future.





INTERACTIVE SESSION ON ORGAN DONATION

The Department of Electronics and Communication Engineering, in collaboration with the Rotaract Club of KPRIET, organized an impactful event on 14.09.2024, focusing on two significant topics: Organ Donation and Disability Etiquette. Dr. Mithra, an esteemed Hepatologist from VGM Hospital, Coimbatore, led the sessions. The first session highlighted the life-saving potential of organ donation, aiming to educate attendees, dispel myths, and encourage them to consider becoming organ donors. The second session focused on promoting inclusivity and understanding, providing valuable insights into disability etiquette and challenging stereotypes surrounding disabilities.



SPARTRANZ ASSOCIATION - "Dare to do"

association SPARTRANZ, The student's department of Electronics Communication Engineering organized an event "Dare to do" on 14.09.2024. The objective of this event is to encourage Risk-Taking, Build Confidence, Foster Teamwork, Enhance Problem-Solving Skills, Promote Physical Activity, Develop Leadership Qualities and Inspire Future Actions. These objectives can help create a dynamic and impactful event that encourages personal growth and community building! The event was guided by Dr. J. Prasad, Assistant Professor (Sl.G.) and Mr. Jakir Hussain G K, Assistant Professor (Sl.G.). This event was designed to offer students an entertaining break from their usual academic routines while promoting teamwork and creative thinking. Held in room D-106, the event saw 30 students come together to participate in light-hearted but exciting challenges. The interactive activities were designed to test participants' ability to think on their feet, solve problems, and take bold

decisions in a fun and pressure-free environment. The positive feedback from students highlighted the importance of such recreational events in enhancing the overall student experience.



INNOVATION BEYOND IMAGINATION

The IEEE EDS event, "Innovation Beyond Imagination," was held on 20th September 2024, aiming to unleash students' creativity and challenge their technical limits through two exciting rounds. Thisprogram was headed by Dr. M. Kathirvelu, Professor and Head, along with D. Ram Nivas, AP II, and Ms. Sri Prabanjani, Student Chair.In Round 1, titled "Talk Tech, Quick!", students were tasked with sharing their thoughts about a device in just one minute. Round 2, named "Sci-Fi Showdown," encouraged participants to let their imaginations run wild as they explained how today's devices and tools could bring their sci-fi dream gadgets to life.The students participated with utmost enthusiasm and delivered extraordinary presentations. The winners and runners-up were honored for their impressive creativity and technical insight.



IEEE ELECTRON DEVICES SOCIETY

The IEEE EDS Society recently organized a hands-on Soldering and Desoldering Practices Workshop on 28th September 2024 to equip students with essential skills for working with electronic circuits. The experienced faculty members Mr. D. Ram Nivas and Mr. S. Ramesh, who guided the participants through the theoretical and practical aspects of soldering and desoldering components on printed circuit boards (PCBs), conducted the session. During the session, the students were introduced to the fundamentals of soldering and desoldering, including the tools and materials used, such as soldering irons, solder wire, flux, desoldering pumps, and braid. To enhance learning, hands-on experience was provided to students, allowing them to practice the techniques themselves under the guidance of the faculty. The practical skills acquired during this session will aid them in future academic projects and professional development in electronics.









QUIZ BUCKERS

The "Quiz Buckers" event was a thrilling academic competition aimed at enhancing knowledge and teamwork among students that was held on October 5, 2024. The event brought together 76 enthusiastic participants from various departments. The primary objective was to provide students with an engaging platform to test and improve their technical knowledge through a competitive quiz format. The "Quiz Buckers" event saw an impressive turnout, with 76 students actively participating, showcasing a strong interest across various disciplines.



IDENTIFICATION, SOLDERING, AND DESOLDERING OF ELECTRONIC COMPONENTS

On October 5, 2024, the IETE Student Forum organized a training program focused on the identification, soldering, and desoldering of electronic components. The event provided hands-on experience for first year students in essential electronics skills. The primary objectives of the program was to familiarize students with basic electronic components such as resistors, capacitors, diodes, and transistors. The program saw active participation from 32 students, who were enthusiastic about learning and applying the knowledge, who ensured smooth execution of the event. By the end of the training, participants were proficient in identifying electronic components, as well as soldering and desoldering techniques.





IEEE's "Rise: Shape the Future, Lead the Change"

The Department of Electronics and Communication Engineering, in collaboration with IEEE KPRIET's Communication Society (ComSoc), organized an informative session titled IEEE's Rise: Shape the Future, Lead the Change on 5.10.2024. This initiative emphasizes empowering engineers and technologists to drive global change through innovation while highlighting IEEE's commitment to advancing technology for the benefit of humanity. The session aimed to raise awareness about IEEE's pivotal role in shaping the future of technology and inspiring leadership. The gathering was addressed by Mr. Dhevadharshan S, an active IEEE volunteer, founder of DoSo, Chair of IEEE KPRIET's ComSoc, and Head of Public Relations for IEEE KPRIET SB. His insights motivated participants to explore opportunities for driving transformative efforts in the technological domain.



EXPERT TALK ON Building Your Digital Footprint: Career Launchpad for Students

The Department of Electronics and Communication Engineering organized an insightful expert talk titled Building Your Digital Footprint: Career Launchpad for Students on 5th October 2024. Conducted by IV-year ECE students Mr. Sri Shyamnath R and Mr. Varun Murthi S, the session was tailored for first-year students to understand the significance of social media in shaping their careers.

The talk highlighted key areas, including:

1. How social media aids in building a successful career

- 2. Effective LinkedIn strategies for students
- 3. Building authority on LinkedIn
- 4. Securing internships through LinkedIn

This session empowered students with actionable insights to leverage social media platforms like LinkedIn to enhance their professional presence, secure internships, and kickstart their career journey.



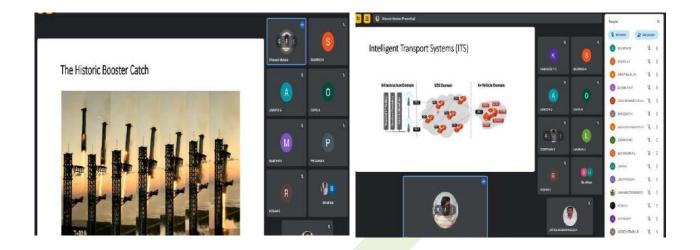
FLIP, LAND, CONQUER - THE XOX THROWDOWN

The Department of Electronics and Communication Engineering organized an engaging tournament on 19.10.2024, which featured multiple rounds of Tic-Tac-Toe in teams. Each match involved one player using "X" and the other using "O," with teams being determined by a spin wheel, introducing an element of luck. Matches continued until a winner emerged or a tie occurred. In the case of a tie, a bottle flip challenge served as a tiebreaker. The tournament proceeded through elimination rounds, with the spin wheel determining new teams. This format tested both strategic thinking and quick decision-making, while the combination of Tic-Tac-Toe and bottle flip tiebreakers added excitement and unpredictability to the event.





The Department of Electronics and Communication Engineering, in collaboration with the Alumni Association, hosted an insightful session on 19.10.2024, focusing on "Sensor-Driven Innovations in Vehicle-to-Everything (V2X) Communication." The event aimed to provide students with a deeper understanding of how sensor technology is revolutionizing V2X communication. It featured an interactive Q&A session, where attendees discussed potential career paths in the V2X and automotive industries. Many students were inspired by the resource person's journey from being an alumnus of KPR Institute to becoming a lead engineer at Renault Nissan.



Advances in Digital Signal Processing

The Department of Electronics and Communication Engineering conducted a session on Advances in Digital Signal Processing (DSP) on 19.10.2024. The session began with a distinction between analog, digital, and discrete signals. Analog signals were explained as being continuous in time and amplitude, digital signals as being represented by discrete values, and discrete signals as having discrete time intervals but potentially continuous amplitude. The professor then covered quantization, the process of converting continuous amplitude signals into discrete levels, and sampling, which involves converting continuous-time signals into discrete-time signals. The Nyquist-Shannon sampling theorem was introduced, highlighting the importance of sampling at more than twice the highest frequency component. This session provided a solid foundation for exploring the fundamental principles and applications of DSP.



ALUMNI LECTURE SERIES – II MASTERING FRONT-END TECHNOLOGIES

The Department of Electronics and Communication Engineering hosted the second session of the Alumni Lecture Series on 19th October 2024. The topic, Mastering Front-End Technologies, was presented by Mr. Bharath G, an alumnus from the 2017–2021 batch and currently a Technical Lead at EY.The session, attended by III-year ECE students, commenced at 11:00 AM. Mr. Bharath shared valuable insights into cutting-edge front-end technologies, industry trends, and career paths in web development. His expertise and personal journey inspired students to explore the dynamic field of front-end development, making the session highly engaging and impactful.

Mastering LinkedIn: Build Your Professional Brand

The Department of Electronics and Communication Engineering organized an informative session titled Mastering LinkedIn: Build Your Professional Brand on 19th October 2024. Delivered by Rtr. Aswin K Velusamy, an alumnus from the 2020–2024 batch and a Freelance Placement Trainer, the session aimed to enhance the professional branding of first-year ECE students held from 11:00 AM to 1:00 PM, the session focused on equipping students with the skills needed to establish a compelling LinkedIn profile, expand their professional networks, and engage with industry leaders. Participants were guided on how to tailor their profiles to specific engineering domains, connect with professionals, and explore internship opportunities. The session also emphasized the importance of early career planning, which is crucial for building a solid foundation for future success. Through this interactive session, students gained valuable insights and actionable strategies to build their professional brand in the competitive job market.



"Antennas for Wellness: Advancing Medical Diagnostics and Treatment through Wireless Technologies"

On October 19, 2024, Mr. Satheesh Kumar Palanisamy delivered an insightful lecture on "Antennas for Wellness: Advancing Medical Diagnostics and Treatment through Wireless Technologies" attracting an audience of 44 participants. The lecture covered how advances in antenna technology are increasingly being applied in health and wellness domains, especially in wearable devices and remote health monitoring. Mr. Satheeshkumar, a renowned expert in wireless communication and antenna design, brought extensive practical and theoretical knowledge to the session, enlightening the participants on the transformative role of antennas in wellness and healthcare. The event provided participants with a clearer understanding of how antenna technology can shape the future of healthcare, encouraging new research and innovation in this exciting area.



SPARTRANZ ORGANIZES DOODLE DETECTIVES

On October 19, 2024, the Department of Electronics and Communication Engineering, in association with Spartranz, hosted the event "Doodle Detectives" at D-106, within the campus.

Guided by Dr. J. Prasad and Mr. Jakir Hussain G.K., and 40 students participated in teams of four. The event fostered a spirit of collaboration and friendly competition, with students from various departments engaging in the lively activity. "Doodle Detectives" was not only a creative exercise but also a platform for students to bond, share ideas, and enhance their problem-solving abilities, reflecting Spartranz's commitment to fostering a holistic learning environment.





BEYOND DEGREES: BUILDING SKILLS AND SUCCEEDING IN TODAY'S JOB MARKET

The Department of Electronics and Communication Engineering hosted an enlightening session titled Beyond Degrees: Building Skills and Succeeding in Today's Job Market on 26th October 2024. The session was led by Mr. Amudhan R T, an esteemed alumnus from the 2020–2024 batch and a Software Engineer at Palo Alto Networks. Designed for first-year ECE students, the event took place from 11:00 AM to 1:00 PM. Mr. Amudhan shared valuable insights into the importance of acquiring industry-relevant skills beyond academic achievements. He emphasized the need to bridge the gap between theoretical knowledge and practical applications, equipping students with strategies to remain competitive and adaptable

in a dynamic job market. The session was well-received, inspiring participants to focus on skill enhancement as a cornerstone of their professional journey.



FACULTY AS A RESOURCE PERSON

- ➤ Dr. V. Seethalakshmi/Professor, Dr. N. Sathishkumar / Assistant Professor (III) & Mr. M. Singaram, Assistant Professor (II) Department of ECE, acted as a Resource person for the SERB One Week National Level Workshop on "From Theory to Practice: Millimeter Wave & Thz Antennas for Modern Applications" organized by KPR Institute of Engineering and Technology from 19-08-2024 to 23-08-2024.
- ➤ Dr. V. Seethalakshmi /Professor, Department of ECE, KPR Institute of Engineering and Technology as a Resource person for the One Day National Level Workshop on "Wearable and Implantable antenna using HFSS" organized by the Department of Electronics and Communication Engineering at KalaignarKarunanidhi Institute of Technology, Coimbatore on 1st October 2024.

FACULTY PUBLICATIONS

- ▶ **G K Hussain,** Z AkkilAhamed, P Arun Kumar, M S Kumar, & S JeevanAbishek. (2024). Artificial Intelligence based Smart Guard for Home Automation. 2024 2nd International Conference on Sustainable Computing and Smart Systems (ICSCSS), 3, 1570–1575. https://doi.org/10.1109/icscss60660.2024.10625615.
- ➤ S.M. Ramesh, Sengottaiyan. N, Vanathi. D, Manoja. R, Tamizharasu. K, & Kalyanasundaram.P. (2024). Prediction of cardiac disease using naive Bayes algorithm. 2024 2nd International Conference on Sustainable Computing and Smart Systems (ICSCSS), 16, 994–997. https://doi.org/10.1109/icscss60660.2024.10624905
- D, Vanathi., Ramesh, S. M., K, Sudha., K, Tamizharasu., N, Sengottaiyan., & P, K. (2024a). A machine learning perspective for predicting chronic kidney disease. 2024 2nd International

- Conference on Sustainable Computing and Smart Systems (ICSCSS), 989–993. https://doi.org/10.1109/icscss60660.2024.10625341
- ➤ **R. Monisha,** K. S. Tamilselvan, & A. Sharmila. (2024). Advancing Plant Disease Detection with hybrid models: Vision Transformer and CNN-based approaches. Studies in Computational Intelligence, 275–307. https://doi.org/10.1007/978-3-031-67450-1_11
- ➢ G Rahul, D Ram Nivas, V Vinisha, S Yeshwanthkumar, & B Shivasanthosh. (2024). Automated Defect Detection System for automobile accessory manufacturing using Yolov5. 2024 IEEE Students Conference on Engineering and Systems (SCES), 1–6. https://doi.org/10.1109/sces61914.2024.10652413
- ➤ P.E. Kamalakkannan, B. Vinoth Kumar, &M. Kalamani (2024). Optimal nonlinear fractional-order proportional-integral-derivative controller design using a novel hybrid atom search optimization for nonlinear continuously stirred tank reactor. Thermal Science and Engineering Progress, 54, 102862. https://www.sciencedirect.com/science/article/abs/pii/S2451904924004803.
- ➤ N Sathishkumar, SatheeshKumarPalanisamy, Rajesh Natarajan, Anitha V.R, KhmaiesOuahada, & Habib Hamam. (2024). Experimental investigations of dual functional substrate integrated waveguide antenna with enhanced directivity for 5G Mobile Communications. Heliyon, 10(17). https://doi.org/10.1016/j.heliyon.2024.e36929.
- ➤ Muralidharan J,Kavya A S, Krishna T A, Negashri K, &Prasanna M. (2024). Remote Respiratory Health Monitoring System. 2024 International Conference on Smart Systems for Electrical, Electronics, Communication and Computer Engineering (ICSSEECC), 48, 321–326. https://doi.org/10.1109/icsseecc61126.2024.10649446.
- ➤ KuntavaiThangavel, PrasanthAruchamy, **Prasad Joghee**, &ChandrasekarPalanisamy. (2024). Investigating the performance optimization of three-quantum-well high electron mobility transistor device: Analyzing operational characteristics and gate voltage influence. Physica Status Solidi (a). https://doi.org/10.1002/pssa.202400448.
- ➤ N. Sathishkumar, B. Anitha, A. Anzel Muhammad, B.V. Gokul Raj, & P.S. Bhuvanesh. (2024). Design of SIW based dual feed antenna for 5G Communication Systems. 2024 Ninth International Conference on Science Technology Engineering and Mathematics (ICONSTEM), 10, 1–5. https://doi.org/10.1109/iconstem60960.2024.10568882.
- M.M. Aswin, S. Dharnesh, S. Jaswanthika, K. Ajay, V. Seethalakshmi, & S. Nithya. (2024). Elderly care companion robot with Smart Medication and Health Monitoring. AIP Conference Proceedings, 3232, 030007. https://doi.org/10.1063/5.0236020.
- ➤ V. Seethalakshmi, S. AbhieePriethiev, K. Arun, V. Dharshana, & C. Gopikrishnan. (2024). Smartphone controlled robotic arm for Hospital Pharmacy Automation. AIP Conference Proceedings, 3232, 030006. https://doi.org/10.1063/5.0236249.

> S. Nithya, V. Seethalakshmi, S. Amrudhavarshini, K. Anandhi, R. Aswin, & S. Indhumathi. (2024). Smart hand rehabilitation glove with assistive grasping capabilities. AIP Conference Proceedings, 3232, 030009. https://doi.org/10.1063/5.0236573

FACULTY& STAFF PARTICIPATION

Name of the	Title of FDP/STTP/OFDP/	Organization		
Faculty/Staff	Conference/Online Course	Name	Start Date	End Date
Ms. M.D.Saranya	Paper Presentation	Adichunchanagiri Institute of Technology	01.08.2024	02.08.2024
Mr.T.Venkatesh	Introduction to Generative AI Learning Path- Prompt Design in Vertex AI	NASSCOM and Google Cloud	06-08-2024	20-08-2024
Dr. J. Indra	Serb Sponsored International Conference on AI Driven Innovations in Healthcare, Telecommunications, Energy and Industrial Sectors	Erode Sengunthar Engineering College	08-08-2024	09-08-2024
Ms. M.D.Saranya	Evolution of Generative Ai	Methodist College of Engineering and Technology	19-08-2024	24-08-2024
Mr. G. Pradeep Kumar	Evolution of Generative Ai - Past, Present And Future	Methodist College of Engineering and Technology	19-08-2024	24-08-2024
Dr. S.M. Ramesh	Program On Generative Ai	Vardhaman College of Engineering	27-08-2024	31-08-2024
D.J. Prasad	Icaans24 (International Conference on Advances in Aerospace and Navigation Systems)	ACS College of Engineering	22-08-2024	-
Mr. S. Ramesh	Introduction to Machine Learning	Great Learning	02-09-2024	06-09-2024
Ms. M.D.Saranya	ATAL - FDP	KPRIET	21-09-2024	28-09-2024

Dr. M. Kathirvelu	AICTE Universal Human Values - II	KPRIET	23-09-2024	30-09-2023
Dr. J. Muralidharan	AICTE Universal Human Values - II	KPRIET	23-09-2024	30-09-2023
Dr. R. Jaikumar	AICTE Universal Human Values - II	KPRIET	23-09-2024	30-09-2023
Mr. GK. Jakir Hussain	AICTE Universal Human Values - II	KPRIET	23-09-2024	30-09-2023
Mr. S. Sathishkumar	AICTE Universal Human Values - II	KPRIET	23-09-2024	30-09-2023
Mr. G. Pradeepkumar	AICTE Universal Human Values - II	KPRIET	23-09-2024	30-09-2023
Ms. M D Saranya	STP on Advanced Pedagogy	Coimbatore Institute of Technology	23-10-2024	28-10-2024
Mr. G. Pradeepkumar	STP on Advanced Pedagogy	Coimbatore Institute of Technology	23-10-2024	28-10-2024



FACULTY NPTEL ACHIEVEMENTS

S.N	Faculty Name	Course Name	Organizati	Date	Reward
0			on Name	/Period	obtained
1	Dr. M. Kathirvelu	Design Thinking – A Primer	NPTEL	July to	Elite
				Sep 2024	

	T	1		,	
2	Dr. D. Venugopal	Making Learning Engaging	NPTEL	July to	Elite+Silver
		Through Interactive games		Sep 2024	
3	Dr. B. Jaishankar	Teaching and Learning in	NPTEL	July to	Elite+Silver
		General Programs: TALG		Sep 2024	
4	Mr. D. Ram Nivas	Innovation by Design	NPTEL	July to	Elite+Silver(T
				Sep 2024	opper 1%)
5	Dr. J. Muralidharan	Teaching and Learning in	NPTEL	July to	Elite
		General Programs: TALG		Sep 2024	
6	Mr. M. Singaram	Design Thinking – A Primer	NPTEL	July to	Elite
				Sep 2024	
7	Dr. J. Prasad	VLSI Interconnects	NPTEL	July to	Elite
				Sep 2024	

STUDENT PARTICIPATION

S.No	Event Name	No of students participated
1.	Online course	183
2.	Workshop	12
3.	Contest (Quiz, Coding Contest, club events, etc.)	58
4.	Paper presentation	3
5.	Internship	5

INDUSTRY VISITS

➤ Dr.J.Indra, Dr.K.Kalirajan, Mr.S.Balamurali and Ms.D.Suganya Devi visited Mechmet Engineers, Fanuc Indi Pvt. Ltd., and Effica Automation, Coimbatore on 23.08.2024and discussed student internships, Industry guest lectures, Faculty Internships and consultancy activities.





- ➤ Mr. S. Ramesh visited Pioneer Circuits Pvt. Ltd Ganapathy, Coimbatore on 19.08.2024 and discussed consultancy activities.
- ➤ Dr. T. Jagadesh visited Techno great Power Automation LLP and Indus Electronics India Private Limited Coimbatore on 12.08.2024 and discussed Students Internship.



Mr. S. Satheesh Kumar visited Zenfet Technologies Saravanampatti, Coimbatore on 13.08.2024 and discussed regarding projects and innovation support for 2025 batch students.



Mr. S. Ramesh visited Lumen Systems, Ondipudur, Coimbatore on 12.08.2024 and discussed Students Internship & 12 students attended Internship for week from 12.08.2024 to 17.08.2024.



➤ Dr. B. Jaishankar and Dr. T. Jagadesh visited ZF Wind Power Private limited, Karumathampatti, Coimbatore on 08.08.2024 and discussed about the Students Internship and Research Projects.



Mr. S. Ramesh visited Pioneer Circuits Private Limited, Ganapathy, Coimbatore on 19.08.2024 and discussed about the Consultancy Activities and Students Internship.



- ➤ Mr. S. Ramesh visited IVA Technos Private Limited, Coimbatore on 02.09.2024 and discussed about the Students Internship.
- Dr. T. Jagadesh visited Printronics Industrial Automation, SITRA, Coimbatore on 05.09.2024 and discussed about Students Internship and Students Industry Visit.
- ➤ Dr. T. Jagadesh visited, Coimbatore on Aaviza Electronics Private Limited, Goldwins, Coimbatore on 05.09.2024 and discussed about Consultancy Projects.
- ➤ Mr. G. Pradeepkumar visited Caliber Interconnects Solutions Private Limited, Thudiyalur, Coimbatore on 06.09.2024 and discussed about the students Internship with stipend, Industry Visit and Placement.



▶ Dr.S. Finney Daniel Shadrach and Mr. M. Ramesh visited InnoMectronic Private Limited, Avarampalayam, Coimbatore on 13.09.2024 and discussed about the Students Internship and Consultancy Projects.



➤ Mr. M. Singaram and Dr. T. Jagadesh visited Brinn Tech Pvt Ltd and Ozotec, Karumathampatti, Coimbatore on 14.09.2024 and discussed about Students Internship and Consultancy Projects.



➤ Dr. V. Seethalakshmi visited Mobitech Wireless Solutions Private Limited, Perudurai, Erode on 23.09.2024 and discussed about the students internship with stipend and Students Industry Visits.





- > Dr. D. Sharmila visited AXIS Global Automation Company, Goldwins, Coimbatore on 24.09.2024 and Discussed about the Faculty Internship, Students Internship with stipend and Guest Lecture by Industry Person.
- > Dr. B. Jaishankar and Dr. T. Jagadesh visited Tactile braille India Private Limited, Sundarapuram, Coimbatore on 08.10.2024 and discussed about Student Internship.
- > Dr. J. Indra and Dr. B. Jaishankar visited Lyle technologies, Saibaba colony, Coimbatore on 15.10.2024 and discussed about Consultancy projects and Student Internship.
- ➤ Dr. J. Indra and Dr. B. Jaishankar visited Sinetec Technologies, Saibaba colony, Coimbatore on 15.10.2024 and discussed about Consultancy projects and Student Internship.



