



ERODE SENGUNTHAR ENGINEERING COLLEGE

(An Autonomous Institution)

PERUNDURAI, ERODE - 638057



DEPARTMENT OF ELECTRONICS AND
COMMUNICATION ENGINEERING

NEWSLETTER **WHIZZCOM CHRONICLE**



VOLUME - II

JAN - JUNE 2024



ABOUT THE DEPARTMENT

The Department of Electronics and Communication Engineering was started in the year of 2000. It offers UG Programme (B.E.) in Electronics and Communication Engineering and PG Programme (M.E.) in Applied Electronics. The Department has also been recognized as a centre for carrying out Ph.D. Programme under Anna University. It has good infrastructural facilities with well- experienced and dedicated team of faculty members. The Department has signed MoU with various companies and has collaboration in Research & Development / Student Projects Consultancy works. The Department organizes National level Students' Technical Symposia and Project Exhibition every year.

VISION

To impart professional excellence, leadership qualities and competence, embedded with character in students and serve the society through research.

MISSION

- Create Learning Environment to serve the societal needs.
- Promote innovative ideas and augment research to improve the quality of life through application of technology.
- Impart State of art Technical Education to groom engineers with high professional standards.
- Provide high quality ethical engineers for the Benefit of the Society.



Programme Educational Objectives (PEOs)

- Impart the learners, an ability to understand and analytical, academic use and communication skills effectively with special emphasis to fulfill societal needs.
- Inspire the beginners to enrich their skills throughout career by learning about emerging technologies, adapting and accepting the changes to achieve leadership position in industry or academia.
- Prepare graduates to innovate products/solutions through research to real life problems for boosting the economy of the region and the nation.
- Prepare graduates to work effectively as a team and practice ethics in the profession with a sense of social responsibility.

**Courses Offered: B.E.
Electronics and
Communication
Engineering (4 Years),
M.E. Applied
Electronics (2 YEARS)
& Ph.D.,(3 years)**

Program Specific Outcomes (PSO)

PSO1: Interpretation Skills: Acquire skills to design, verify and validate electronic functional elements for a variety of applications.

PSO2: Core Competences: Ability to use hardware and software tools to solve complex problems in VLSI, Communication, RF and Embedded Systems.

PSO 3: Attitude: Develop an attitude of lifelong learning for sustained career advancement and adapt to the changing multidisciplinary profession.



MESSAGE FROM THE HOD

DR.S.BHARATHIDASAN

I am pleased to announce the release of the Department of Electronics and Communication Engineering's Newsletter for the Academic Year 2023–24. This edition highlights the various activities, accomplishments, and contributions of our esteemed faculty and talented students over the past year.

It gives me great pleasure to present The Whizzcom Chronicle, the official newsletter of the department, now ready for launch. This year, we place a strong emphasis on fostering creativity and innovation alongside academic excellence. The newsletter serves as a valuable platform for showcasing the innovations, achievements, and insights of our students, faculty, and staff.

We hope this publication will inspire and guide both faculty and students in identifying opportunities and shaping their academic and professional journeys. I would like to commend the Editorial Team for their outstanding efforts in thoughtfully compiling and presenting the department's milestones and activities throughout the year.

SERVICE

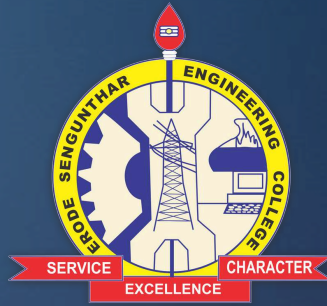
CHARACTER

EXCELLENCE



TABLE OF CONTENTS

- 1. Association Activities**
- 2. R&D Proposals Granted/Submitted**
- 3. Professional Society Membership**
- 4. Faculty Participation/Achievements**
- 5. Book Publications**
- 6. Student's Participation**
- 7. Student's Achievements**
- 8. NPTEL Course Details**



ASSOCIATION ACTIVITIES

In 2024, **Mr. Manimaran Asaithambi**, Assistant Manager at VI Solutions, Bangalore, led two major events. The National Conference on Recent Innovations in Engineering and Technology (NCRIET 2023) was held on March 7, attracting 180 participants. Later, on May 17, he conducted a workshop on NI-SDR Hardware USRP 2920, which was attended by 95 participants.



We are excited to share the post event report of a one day Seminar on "Exploring International Career with Scholarship for Studies in Abroad" organized by the Department of ECE in association with Career Guidance Cell held on 13.02.2024 Tuesday at 2 P.M. The chief guest for the same was **Mrs. Neena Priya**, Tead Head, Bluestone Overseas Consultants, Erode. She delivered a session to create awareness on Higher Studies opportunities in abroad and the relevant schemes.



It feels pleasure to share the post event report of an one day workshop on "What's Next After Graduation" organized by the Department of ECE in association with Career Guidance Cell on 14.02.2024 at Main Block Seminar Hall. The chief guest for the program was **Mr. Thiagarajan Thirunavukkarasu**, Director, T.I.M.E Institute, Erode & Salem who delivered a session to create an awareness on career opportunities and competitive exams for our students. Through the interactive discussions, activities, and expert insights, attendees were able to gain clarity, confidence, and actionable plans to kick-start their careers and achieve success in their chosen fields.



It is our pleasure and privilege to share that **Mr. Jayabal**, Alumni student addressed the students of the Department of ECE regarding the job opportunities in core company and IT sector along with his experience on 28.02.2024 in the department premises.



It gives us immense pleasure to share that the Department of ECE in association with Students Association WHIZZCOM organized a one day Technical Seminar entitled "Recent Advancements in Electronics" - an Industry Oriented Job Perspective for the students of ECE at Smart Classroom on 30.01.2024 and 29.02.2024. The Chief Guest for the same was **Dr. Sundaram**, Professor/Department of ECE, Erode Sengunthar Engineering College, Thudupathi, Erode



We are happy to announce that the Department of ECE in association with Institution's Innovation Council organize a seminar on "A Special Awareness Program on Competitive Exams" on 11.03.2024 at ECE Seminar Hall. The chief guest for the program is **Mr. M. Prabakaran**, Administrative Officer, ETS Academy, Bengaluru. The objective of this event is to provide awareness to the students about the various state as well as central government competitive exams and the preparation strategies.



We are extremely happy to share that our IV year ECE students **Mr.S.Balasubramaniam**, **Mr.S.Dharanidharan** and **Mr.A.Mouli** delivered a hands on session under the title "Electronic Projects and Simulation in Real World Applications" for our II ECE students on 29.02.2024 and 01.03.2024 at ECE Smart Classroom. Students were able to learn live demo and hands on experience on Tinker CAD software and related real time projects.



We are honoured and motivated to share the post event report of the Webinar entitled "Global Fluency – Embracing the World through Languages "organized by the Department of ECE in association with Career Guidance Cell, ESEC held on 20.06.2024 Thursday at 11.30 A.M in online mode. The resource person the event was **Ms.Savitha Reddy**, CEO, inlingua Bangalore, Founder, Language Station, Bengaluru. The speaker delivered a lecture to get awareness on learning foreign languages towards career growth, admission to foreign universities, and jobs abroad. She also pointed out the global opportunities and language courses offered by their organization etc.,



We are delighted to share that the Department of ECE in association with Institution Innovation Council organized a workshop on Building an Entrepreneurial Ecosystem for the ECE students on 28.02.2024 Wednesday. The resource person for the same was **Mr. T. Gobinath**, Project Associate, Startup-TN who delivered an excellent session and motivated students to become an entrepreneur.



We are extremely happy to share that the Department of ECE conducted an Alumni Talk by **Mr.Selva Raju** (2009-2013 batch), HR Manager, Rapid Data, Chennai on 06.03.2024 at ECE Smart Classroom for the II Year students. He shared about his experience as HR Manager, Recent advancements in Industry, Job opportunities, Interview preparation strategies etc.,



It is our immense pleasure to announce that the Department of ECE is organizing a Workshop on "Training on NI SDR Hardware USRP - 2920" on 17th May, 2024 at ECE smart classroom. The chief guest for the event is **Mr. Manimaran Asaithambi**, Assistant Manager, VI Solutions, Bengaluru. The objective of the program is to impart knowledge on interfacing SDR and GNU Radio for supporting very high frequency visible light communication

**Erode Sengunthar Engineering College**
(AUTONOMOUS)
Perundurai, Tamilnadu

Department of
Electronics and Communication Engineering
workshop
"Training on NI SDR Hardware USRP - 2920"

**Mr. Manimaran Asaithambi,**
Assistant Manager,
VI Solutions, Bangalore

Thiru. G. Kamalamurugan,
Correspondent, ESEC

Thiru. S. N. Thangaraju,
Secretary, ESET

Dr. V. Venkatachalam
Principal, ESEC

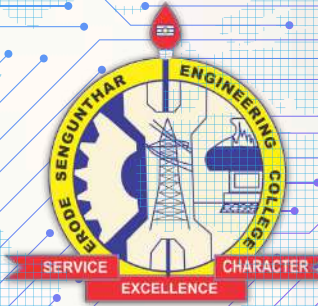
Co-ordinators :
Dr. R. Kalavani, Professor, Dept. of ECE
Ms. K. R. Priyadarshini, Asst. Professor, Dept. of ECE

**17th May 2024**

www.esec.ac.in

TNEA Counselling Code : 2707

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FACULTY **PARTICIPATION** **&** **ACHIEVEMENTS**

RESEARCH PROPOSALS BY THE FACULTY

Dr. R. Kalaivani secured **Rs. 2,00,000** for a conference on "AI-driven Innovations in Healthcare, Telecommunications, Energy, and Industrial Sectors" in 2024. Supported by SERB, the conference was completed as planned. This initiative highlights advancements in AI applications across multiple industries.

V. Thamizharasan was granted **Rs. 50,000** for a seminar on "Implementation of Machine Learning and Artificial Intelligence Algorithm in VLSI Design" in 2024, funded by BRNS. The seminar was held between November 13-15, 2023, and marked successful completion. The focus was on integrating AI techniques into semiconductor design.

Dhivya Priya E.L received **Rs. 13,00,000** for a project titled "IoT based Low Cost Compact Dyeing Machine Using Arduino" under the MSME Idea Hackathon 2.0, granted between 2023-24. The project aims to develop affordable, smart dyeing technology using IoT for industrial applications.

Dhivya Priya E.L was granted **Rs. 1,00,000** for a workshop on "Futuristic Development based IIoT 5.0 with the Integration of Sustainable Development Goals (SDG)" in 2023-24, funded by SERB. The workshop was held from November 20 to December 12, 2023, focusing on next-gen IIoT and sustainability.

AWARDS

Dr. R. Kalaivani received the Outstanding Contribution in Research Award 2023-2024 from **Erode Sengunthar Engineering College (ESEC)** for her impactful work. Her research expertise spans areas like electrochemistry and biosensors, with notable publications and funded projects.



Dhivya Priya E L received the ESEC Achiever award for 2023-24 for her outstanding contribution in IoT Training at **Erode Sengunthar Engineering College (ESEC)**. This recognition highlights her exceptional work and dedication to advancing IoT technologies.

NPTEL COURSE

Dr. R. Kalaivani completed Analog Communication course from IIT Kharagpur with 65% and earned Elite distinction.

Dr. S. Karthick completed the "NBA Accreditation and Teaching-Learning in Engineering (NATE)" course from IIT Madras, scoring 65%.

Mr. M. Karthikkumar completed the "Computer Networks and Internet Protocol" course from IIT Kharagpur, scoring 80% and earning Elite+Silver distinction.

Ms. E.L. Dhivya Priya completed the "Principles of Communication Systems I" course through NPTEL, scoring 94% and earning Elite + Gold distinction.

Mr. S. Gladson completed the 8-week NPTEL course "EE11 - Analog Circuits" through SWAYAM, scoring 75% and earning Elite Silver distinction.

Ms. J. S. Sharanyanivasini scored 51% in Embedded Systems Design course from IIT Kharagpur.

RESOURCE PERSON

Ms. E.L. Dhivya Priya served as a resource person for the "Supervised Learning" session in a 5-day Faculty Development Program on Artificial Intelligence and Machine Learning at Salem College of Engineering and Technology, Salem, on January 19, 2024. Her expertise contributed to faculty development in AI/ML domains.

Ms. E.L. Dhivya Priya's session on "Applications of IoT in UAV's" at Erode Sengunthar Engineering College. You might try looking online for more information about IoT in drones or contact the college directly – they might have more insights!

Ms. E.L. Dhivya Priya served as an Offline Resource Person on 15.02.2024 in the SERB-sponsored five-day seminar at Erode Sengunthar Engineering College.

She delivered a session on "Hybrid Renewable Energy System in Research Perspective" under the theme of green energy for sustainable development.

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FDP/STTP

Dr. M. Sundaram attended the FDP on Emerging Technology in Computer Science, enhancing his knowledge in cutting-edge technologies. The program focused on innovative approaches and applications in computer science. It provided valuable insights into emerging trends and future directions.

Dr. M. Sundaram participated in the FDP on Adaptability & Resilience, developing skills to cope with rapid changes in academia. The program emphasized the importance of adaptability and resilience in academic settings. It provided strategies for managing stress and achieving work-life balance.

Dr. S. Karthick attended the FDP on Energy Conservation Domains in Electric Vehicles, gaining expertise in sustainable energy solutions. The program covered innovative technologies and applications in electric vehicles. It provided insights into energy conservation and management.

Dr. S. Karthick participated in the FDP on Adaptability & Resilience, developing skills to cope with rapid changes in academia. The program emphasized the importance of adaptability and resilience in academic settings. It provided strategies for managing stress and achieving work-life balance.

Mr. M. Karthikkumar attended a 15-day FDP on Adaptability & Resilience in Academia from February 14 to March 1, 2024, at Vaishnav College

Ms. S. Dhivya participated in a 6-day FDP on Emerging Technologies in Computer Science from January 22 to 27, 2024, at Eswari Engineering College, Chennai. Both attended as offline participants.

Ms. K.R. Priyadharshini attended a 6-day FDP on Emerging Technologies in Computer Science from January 22 to 27, 2024, at Eswari Engineering College, Chennai. She participated as an offline participant.

Mr. M. Balamurugan attended a 6-day FDP on Emerging Technologies in Computer Science from January 22 to 27, 2024, at Eswari Engineering College, Chennai.

Mr. M. Karthikkumar completed a 15-day FDP on Adaptability & Resilience in Academia from February 14 to March 1, 2024, at Vaishnav College. Both participated offline

Ms. E. L. Dhivyapriya also attended the same 6-day FDP on Emerging Technologies in Computer Science from January 22 to 27, 2024, at Eswari Engineering College, Chennai. She participated offline

Mr. S. Gladson participated in three FDPs in 2024. The first was a 2-day FDP on Unlocking Potential Emerging Technologies in Computing Techniques held on February 5 and 6, conducted by the Department of CSE at Dr. M.G.R. Educational and Research Institute, Chennai, as an online participant. The second was a 5-day FDP on Advanced Teaching Excellence Innovation for Modern Technical Education from May 6 to 10, organized by the Department of EEE & ECE at Nanjiah Lingammal Polytechnic College, Coimbatore, also online. The third was a 5-day FDP titled “AI Insights: Predictive Power of ML, DL and NLP” from May 14 to 18, conducted by the Department of AI & ML at Sphoorthy Engineering College, Hyderabad, attended online.

Ms. N.R. Raghapriya attended a 5-day FDP titled “AI Insights: Predictive Power of ML, DL and NLP” from May 14 to 18, 2024. This program was organized by the Department of AI & ML at Sphoorthy Engineering College, Hyderabad. She participated as an online participant

ONLINE COURSE

S. Gladson attended a 21-day Virtual Masterclass on Generative AI from 08.01.2024 to 27.01.2024, organized by Pantech eLearning Pvt. Ltd. The training was conducted online and focused on advanced concepts in Generative AI

S. Gladson successfully completed a 21-day Virtual Masterclass on Embedded Systems (Arduino) from 14th February 2024 to 5th March 2024. The training was conducted online by Pantech eLearning Pvt. Ltd. and focused on hands-on learning and application development using Arduino

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CONFERENCE PUBLICATIONS

Dr. R. Kalaivani presented on “Healthcare Monitoring System Using Arduino with ThinkSpeak” at the 4th International Conference on Artificial Intelligence, 5G Communications and Network Technologies (ICA5NT 2024). The conference was held at Velammal Institute of Technology, Chennai, on March 21 and 22, 2024.

Dr. R. Kalaivani also presented on “Identification and Formulation of Key Contribution High Potential Medicinal Molecules by Citrus sinensis and Citrus limetta” at the 5th International Conference on Advances in Mechanical Engineering (ICAME 2024). This event took place at SRM, Chennai, on March 20 and 22, 2024.

Dr. R. Kalaivani presented “Harvesting - A Case Study from Mettur Dam Drainage Channel, Salem Tamil Nadu, India” at the 5th International Conference on Advances in Mechanical Engineering (ICAME 2024), held at SRM, Chennai, on March 20 and 22, 2024.

Dr. R. Kalaivani presented on “Energy Management of Hybrid Electric Vehicles Using Cascaded Fuzzy Logic Controller” at the 2nd International Conference on Computer, Communication and Control (IC4 2024), held in Indore, India, on February 9 and 10, 2024.

Dr. R. Kalaivani presented “Analysis on Modulation and Demodulation Techniques for Visible Light Communication” at the 5th International Conference on Innovative Trends in Information Technology (ICITIIT 2024), organized by IEEE, Kottayam, on March 15 and 16, 2024.

Dr. S. Karthick presented on “Wireless EV Charging Topology with Integrated Energy Storage” at the 8th International Conference on Engineering Technology and Science (ICETS'24), held at Muthayammal College of Engineering, Rasipuram, on March 20, 2024.

Ms. M.A. Asuvanti presented “Design of Efficient Approximate Multipliers Using 4-2 Compressor for Optimization and Error Management” at the 6th International Conference on Material Science and Manufacturing Technology (ICMSMT 2024). The conference was held at Akshaya College of Engineering and Technology, Coimbatore, on May 3 and 4, 2024.

Ms. C. Mekala presented on “Microbial Fuel Cell: Unleashing Sustainable Solution for Domestic Wastewater Treatment and Bioelectricity Harvesting” at the 5th International Conference on Advances in Mechanical Engineering. This event took place at SRM Institute of Science and Technology from March 20 to 22, 2024.

Ms. K.R. Priya Dharshini presented “Real Time Crops Disease Identifier Using Deep Learning” at the International Conference on Artificial Intelligence, 5G Communications and Network Technologies (ICA5NT 2024). The conference was held at Velammal Institute of Technology, Chennai, on March 21 and 22, 2024.

Ms. K.R. Priya Dharshini also presented on “Design and Implementation of Fingerprint Prediction Enabled Passport Authentication System” at the International Conference on Advances in Communications, Computing and Electronic Systems (ACCES-2024). This conference was held at Malineni Lakshmaiah Women’s Engineering College on April 6, 2024.

Ms. R. Savitha presented on “Healthcare Monitoring System Using Arduino with ThinkSpeak” at the 4th International Conference on Artificial Intelligence, 5G Communications and Network Technologies (ICA5NT 2024), held at Velammal Institute of Technology, Chennai, on March 21 and 22, 2024.

Ms. N. Gomathi presented “An Effective Machine Learning Model to Detect and Analyze the Autism Spectrum Disorder” at the International Conference on Cognitive Robotics and Intelligent Systems (ICC-ROBINS), held at KPR Institute of Engineering and Technology, Coimbatore, from April 17 to 19, 2024.

JOURNAL PUBLICATIONS

Dr. R. Kalaivani has published several research papers in international journals covering topics like deep learning for fabric defect detection, channel estimation using MIMO-PSK, dynamic pricing in cloud computing with reinforcement learning, intrusion detection in IIoT, and advanced MIMO-OFDM techniques.

Dr. M. Sundaram contributed papers on spin orbit magnetic random access memory for CNN in-memory acceleration and edible oil quality detection using microwave technologies, both published in reputed international journals.

Dr. S. Karthick published research on integrated energy storage systems for efficient wireless EV charging in the journal Power System Technology.

Mr. V. Thamizharasan authored papers on FPGA implementation of efficient Vedic multipliers and binary multiplier architectures using hybrid compressors, published in the International Journal of Electronics and Scientific Reports.

Ms. K.R. Priya Dharshini has publications on multimodal bioscript authentication using MATLAB and channel estimation with MIMO-PSK modulation techniques in IEEE and engineering science proceedings.

Mr. S. Gladson along with co-authors, published work on an automatic train anti-collision system using LoRA technology in the TANZ Research Journal.

Ms. R. Savitha presented on “Healthcare Monitoring System Using Arduino with ThinkSpeak” at the 4th International Conference on Artificial Intelligence, 5G Communications and Network Technologies (ICA5NT 2024), held at Velammal Institute of Technology, Chennai, on March 21 and 22, 2024.

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PATENT PUBLICATIONS

Dr. R. Kalaivani developed a "Smart Air Purification System for Elevated Indoor Environmental Solutions," published on April 22, 2024. This innovative system aims to enhance indoor air quality using advanced technology. It contributes to healthier living environments in smart cities.

Ms. M.A. Asuvanti was granted a patent for an "Artificial Intelligence Based Device for Detecting Cardiac Disease" on April 14, 2024. The device uses AI algorithms to improve early detection of heart conditions. This technology promises better health monitoring and patient care.

Ms. J. S. Sharanyanivasini published a patent for an "Enhanced Vehicle Safety with Smart Driver Fatigue Detection and Video Recording System for Safety" on March 23, 2024. The system is designed to reduce road accidents by monitoring driver alertness. It integrates real-time video recording for added security.

Dhivya Priya E.L. was granted **Rs. 8,000** for an FDP/STC on "Refresher Course in Engineering Physics" by NITTTR Chandigarh in 2023-24. This short-term course enhanced foundational engineering physics knowledge for faculty development.

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BOOKS PUBLISHED BY THE FACULTY



Ms.K.R. Priya Dharshini also authored Introductory Concepts of Internet of Things in the book Futuristic Trends in Network & Communication Technologies (May 2024). Published by IIP Series, this work introduces foundational IoT concepts and is Scopus indexed.



Dhivya Priya E L authored a chapter on Recycling of Electronic Wastes in the book Sustainable Management of Electronic Waste (Feb 2024) published by Wiley. The work discusses practical recycling methodologies and statistics, indexed by Scopus.

Dhivya Priya E L contributed to the book Futuristic Trends in Network and Communication Technologies (May 2024), published by IIP Proceedings. This work covers emerging trends in communication networks.

FACULTY AS REVIEWER IN CONFERENCES AND JOURNALS

Dr.R. Kalaivani also published research on "rule4ml: An Open-Source Tool for ML Models on FPGA" in Machine Learning: Science and Technology (Impact factor 6.2). Indexed by IOP Science, Scopus, and WoS.

Dr.R. Kalaivani presented advanced diabetic retinopathy classification using context-gated dilated convolutional networks at the IEEE International Conference on Integrated Intelligence and Communication Systems (ICIICS–2024).

V. Thamizharasan published design innovations in low-power, high-speed adders in journals like Analog Integrated Circuits and Signal Processing and The Journal of Supercomputing, both SCI indexed.

Dhivya Priya E L contributed to multiple IEEE international conferences in 2023-24, covering topics such as disease prediction, accident detection, plant sickness recognition, and stock market prediction using AI and ML models.

Dhivya Priya E L is an active reviewer and contributor at international conferences including ICSIEM-2024 and ICDSIS-2024, presenting papers on prosthetic hand control, landslide monitoring, gender equality, and deep learning-based attack detection.





STUDENTS PARTICIPATION & ACHIVEMENTS

TECHNICAL EVENT

ACHIVEMENTS

Andrix Vinusha G (II/IV) participated in the Code Debugging event at METAZIUM'23, organized by S.A. Engineering College, Chennai. The event was conducted at the national level on 20th and 21st February 2024, where Andrix Vinusha secured the Third Prize for her outstanding technical performance.

Prasiga M (II/IV) attended the Code Debugging event held during METAZIUM'23 at S.A. Engineering College, Chennai. This national-level event took place on 20th and 21st February 2024, and she achieved the Third Prize for her commendable efforts in coding and problem-solving.

Gowthulalam M (II/IV) took part in the Code Debugging competition conducted during METAZIUM'23 at S.A. Engineering College, Chennai. The national-level event was held on 20th and 21st February 2024, where he won the Third Prize for his excellent technical skills.

Benith R (II/IV) participated in the Code Debugging event at METAZIUM'23, organized by S.A. Engineering College, Chennai. The national-level competition was held on 20th and 21st February 2024, and he earned the Third Prize for his performance.

Jeevanantham K (II/IV) attended the Code Debugging event during METAZIUM'23 at S.A. Engineering College, Chennai. The event took place at the national level on 20th and 21st February 2024, and he was awarded the Third Prize for his contribution and coding excellence.

Suriya B (III/V) participated in the Technical Quiz event at Ultriz'23, organized by Ultra College of Engineering and Technology, Madurai. The national-level quiz was held on 6th and 7th March 2024, where he showcased his technical knowledge and secured the First Prize.

Abi Arjun R (II/IV) also took part in the Technical Quiz at Ultriz'23, conducted by Ultra College of Engineering and Technology, Madurai. This national-level event occurred on 6th and 7th March 2024, and he achieved the First Prize through his remarkable technical understanding and quiz performance.

PAPER PRESENTATION

ACHIEVEMENTS

Manoj A (III/VI) presented a paper titled “Blockchain Based Authentication Frameworks for Securing Vehicular Ad-Hoc Networks” at the International Conference on Computer, Cybernetics and Education (ICCCE–2023), organized by Kongu Engineering College, Perundurai. This international-level conference was conducted on 23rd and 24th February 2024, where he received the First Prize for his innovative presentation and technical research work.

TECHNICAL EVENTS BY STUDENTS

Naveenraj S (II/IV) participated in the Circuit Surge event during “Henosis 2K24” held at Dr. N.G.P Institute of Technology, Coimbatore, on 4–5 March 2024 (National Level – Participation).

Numerous students from II, III, and IV years — including Anushree R.S, Aswin S, Deepak S, Dharani V, Dharanidharan S, Hemasri A, Kavın Prasanth S, Kiruthiga S.V, Manikandan M, Namakeshwari S, Pavithra P, Praveen K, Saranya S, Shamathi K, Siddharthan K, Surendhar D, Susindran T, Thilak G, Vignesh M, Yogesh S, Midhun T, Sri Naveen Kumar, Rohith G, Abi Arjun R, Ajay A, Anbuselvan G, Arun Raj T, Aswath S.M, Aswini V, Benith R, Deepan N, Devisreetha D, Dinakaran S, Dinesh Kumar A, Giridharan G, Kalaimathi S, Mohan Kumar N, Muthukkumaran M, Nithish Rajan V, Ram Prakash A, Sabitha M, Sanjay S, Shangaesh V, Shiyam Deepak A, Srijaa S, Vignesh S, Vijay Sarathi S, and Yaswanth Kumar A — actively participated in the Circuit Surge event during “Henosis 2K24” at Dr. N.G.P Institute of Technology, Coimbatore, from 4–5 March 2024 (National Level – Participation).

Circuit Surge Event, Henosys 2K24, Dr. N.G.P. Institute of Technology, Coimbatore – held from 04.03.2024 to 05.03.2024.

Participant: **Naveenraj S**

Vinoth Kumar M (III/V) took part in the Brain Blast event during “YUKTA:24” conducted at PSG Institute of Technology, Coimbatore, on 15–16 March 2024 (National Level – Participation).

Santhosh S (III/V) participated in the Brain Blast event during “YUKTA:24” at PSG Institute of Technology, Coimbatore, on 15–16 March 2024 (National Level – Participation).

Adhithya Varadh R (II/III) took part in the Brain Blast technical event during “YUKTA:24” held at PSG Institute of Technology, Coimbatore, on 15–16 March 2024 (National Level – Participation).

Rohinth M (II/III) participated in Brain Blast during “YUKTA:24” at PSG Institute of Technology, Coimbatore, on 15–16 March 2024 (National Level – Participation).

Thinakaran M (II/III) attended the Brain Blast event during “YUKTA:24” at PSG Institute of Technology, Coimbatore, on 15–16 March 2024 (National Level – Participation).

Vasanthkumar S (II/III) participated in Brain Blast during “YUKTA:24” at PSG Institute of Technology, Coimbatore, on 15–16 March 2024 (National Level – Participation).

Deepan N (III/V) participated in a Technical Quiz on 29 October 2024 at Christ the King Engineering College, Coimbatore (National Level – Participation).

Suriyaprakash G (II/III) took part in the Brain Blast event during “YUKTA:24” held at PSG Institute of Technology, Coimbatore, on 15–16 March 2024 (National Level – Participation).

Harish M (II/IV) participated in Brain Blast during “YUKTA:24” conducted at PSG Institute of Technology, Coimbatore, on 15–16 March 2024 (National Level – Participation).

Sanjay S (II/III) took part in Brain Blast during “YUKTA:24” at PSG Institute of Technology, Coimbatore, on 15–16 March 2024 (National Level – Participation).

Logesh A (II/III) took part in Brain Blast during “YUKTA:24” at PSG Institute of Technology, Coimbatore, on 15–16 March 2024 (National Level – Participation).

Akash R.A (II/III) participated in the Brain Blast event during “YUKTA:24” at PSG Institute of Technology, Coimbatore, on 15–16 March 2024 (National Level – Participation).

WORKSHOP BY STUDENTS

Multiple students — including **Esakiganeshan R, Surya V, Dharanish V, Gokil Raj, Kavitha P, Gowtham N, Sukanth S, Narayanan E, Tharanitharan, Mahesh Bala B, Iniyavan V, Gokulakrishnan E, and Guruprakash G** — attended a workshop on “Arduino Robotics and Ultrasonic Radar” on 8 March 2024 at SNS College of Technology, Coimbatore (National Level – Participation).

Hari Ragaventhara S.R attended a workshop titled “Auditing the Smart Contract Security Using Blockchain Technology” on 6–7 March 2024 at SRM Institute of Technology and Science, Chennai (National Level – Participation).

Nandhini R, Nikhil A, and Vigneshwara M attended a workshop on “PCB Designing” on 15–16 March 2024 at PSG Institute of Technology and Applied Research, Coimbatore (National Level – Participation).

Akash S attended a PCB Design Workshop from 11–16 March 2024 at Rathinam Group of Institutions, Coimbatore (National Level – Participation).

Andrix Vinusha G and Hemaniverthane (III/V) attended the “Lift Off, Drone Workshop” on 22–23 March 2024 at the Indian Institute of Information Technology, Kottayam (National Level – Participation).

Santhosh R, Miruthula J, and Susila Jenifer A attended a workshop on “Internet of Things (IoT)” on 6 April 2024 at Hindustan Institute of Technology & Science, Coimbatore (National Level – Participation).

Hari Ragaventhara S.R attended a workshop titled “Auditing the Smart Contract Security Using Blockchain Technology” on 6–7 March 2024 at SRM Institute of Technology and Science, Chennai (National Level – Participation).

Nandhini R, Nikhil A, and Vigneshwara M attended a workshop on “PCB Designing” on 15–16 March 2024 at PSG Institute of Technology and Applied Research, Coimbatore (National Level – Participation).

Akash S attended a PCB Design Workshop from 11–16 March 2024 at Rathinam Group of Institutions, Coimbatore (National Level – Participation).

Vishal S.V, Ragulgandhi S, and Arjun R participated in the “Drone Da Corsa” event on 16 February 2024 at Sri Ramakrishna Engineering College, Coimbatore (National Level – Participation).

Vignesh G attended a workshop titled “Web Design and Development” on 17 February 2024 at LeadPro Infotech (National Level – Participation).

Naveenraj S participated in a hands-on session titled “Arduino Sensor Playground” on 4–5 March 2024 at Dr. N.G.P Institute of Technology, Coimbatore (National Level – Participation).

Nishanth M, Vitheesh C, Logesh V, and Mathan Kumar S.U attended a workshop on “Electric Vehicles” on 1–2 March 2024 at Coimbatore Institute of Technology, Coimbatore (National Level – Participation).

Several students — including **Nikhil A, Miruthula J, Parthipan R, Manoj A, Santhosh R, Susila Jenifer A, Sabarinathan N.S, Vasantha Kumar S, Suriya Prakash G, Mohana Sundaram K, Megan K.B, Deepika B, Abinaya K, Ashish Brindan S, Boobala Krishnan S, Gowtham S, Hariharan S, Joysonraj A, Khushjeet Kumar, Krishnaveni N, Logesh Kumar M, Muthulakshmi B, Peshithra P, Ragul B, Mohnika S, Sathiya Narayanan T, Somprakash V, and Munirathinam S** — attended workshops through 2024 on MATLAB & SIMULINK, Master the Machine (ML), GitHub Copilot, IoT–Edge to Cloud using NI myRIO, and Industry 5.0 Applications, held at Bannari Amman Institute of Technology, PSG Tech, Kings College of Engineering, and VIT Vellore (National Level – Participation).

Gowri T, Keerthana C, Dhanuja Shri, Harini G, and Harithra K participated in a workshop titled “Electrospinning for Nanofibre Production at the Makerspace, Center of Excellence for Additive Manufacturing” on 6 May 2024 at Sathyabama Institute of Technology & Science, Chennai (National Level – Participation).

Arul Varsan S, Hemalatha S, Tamilarasan S, Rithanya A.G, Myvizhi S, Vasanthkumar S, Suriyaprakash G, and Santhosh R attended an online workshop titled “UX Kickstarter” from 9–15 July 2024 (National Level – Participation)

Keerthana C (III/V) attended a workshop titled “Gen-AI with Cloud” on 5 October 2024 at Kongu Engineering College, Perundurai (National Level – Participation).

CONFERENCE BY STUDENTS

International Conference on Research Trends in AI & IoT Infrastructure and Industry (AIIII 2024), Centre for Research, Anna University, Chennai – held from 06.03.2024 to 08.03.2024.

Participants: **Balamurugan V.M, Arjun R, Cipiraj R.P, and Mageshwar B.**

One-Day National Seminar on “Anti-Counterfeiting: Challenges and Opportunities in Engineering”, Excel Engineering College, Komarapalayam – on 19.03.2024.

Participants: **Logesh A and Akash R.A.**

SERB Sponsored Three-Day National Level Seminar on “Navigating the Future with AI in Unmanned Aerial Vehicle Technology”, Excel Engineering College, Komarapalayam – from 13.03.2024 to 15.03.2024.

Participants: **Abi Arjun R, Ajithkumar S, Arulvarshan S, Dinesh, and Iniyavan V.**

INTERNSHIPS BY STUDENTS

Caliber Embedded Systems, Erode – from 11.03.2024 to 15.03.2024 (5 days).
Participants: **Siva Prakash M, Syam Deepak A, Natrajan B, Nagendraprasath K, Nithish Rajan V, Ram Prasath M.**

Narayanasamy Layout, Coimbatore – from 08.04.2024 to 19.04.2024 (11 days).
Participants: **Narayanan E, Sukanth S, Sabarinathan N.S, Vignesh G, Munirathinam S, Vasanth Kumar S, Gowtham R, Gowtham S, Deepak Kumar P, Krishnan U, Ajay A.**



INDUSTRIAL VISIT

We are extremely happy to share that our IV Year students had gone for an Industrial Visit to Vikram Sarabhai Space Centre (VSSC), Thiruvananthapuram on 23.02.2024 and 24.02.2024 as a part of teaching and learning process. Students grasped the opportunity to learn about the design and development of launch vehicle technology such as Polar Satellite Launch Vehicle (PSLV), Geosynchronous Satellite Launch Vehicle (GSLV) Geosynchronous Satellite Launch Vehicle (GSLV) Mk III, Reusable Launch Vehicles, advanced technology vehicles, air-breathing propulsion and critical technologies towards human spaceflight..





WOMEN'S DAY 2K24 CELEBRATION



M.GOWSALYA IV-ECE



V.BHAVANI II-ECE

Best Outgoing Student – 2024

Name: S. Ramya Gowri

Year: IV BE ECE

Semester / Branch: VIII / ECE

CGPA: 8.9

Class-Wise Toppers – 2024

First Year:

1.R.P. Cipiraj – II / ECE-A – CGPA: 9.42 – First Rank

2.Nandha Kumar S – II / ECE-B – CGPA: 8.9 – First Rank

Second Year:

3. Anushree R – IV / ECE – CGPA: 9.0 – First Rank

Third Year:

4. Purnachandriga R – VI / ECE – CGPA: 8.894 – First Rank

Fourth Year:

5. Jamunarani G.K – VIII / ECE – CGPA: 9.12 – First Rank

Postgraduate (M.E – Applied Electronics):

6. Divya A – IV / M.E (AE) – CGPA: 9.75 – First Rank

7. Mohana G – IV / M.E (AE) – CGPA: 9.75 – First Rank

8. Shumaima K.C – II / M.E (AE) – CGPA: 8.395 – First Rank



STUDENTS PLACED



AGILE ELECTROMECHANICAL COMPANY LLC, UAE – 8.2 LP



G. VELAN – IV ECE



P. VIMALANANDH – IV ECE



**A. VIDHYASAGAR
IV ECE**



**M. VIGNESH
IV ECE**

TECHNOFORTE – 4.0 LPA



**S. DHARANIDHARAN
IV ECE**



**S. YOGESH
IV ECE**

HEXAWARE – 3.6 LPA



R. S. ANUSHREE – IV ECE

CARTRABBIT – 3.4 LPA



S. ASWIN – IV ECE

WEBBARAX – 3.2 LPA



T. NANDHINI – IV ECE

JILABA SOFTWARE SERVICE PVT. LTD – 3.2 LPA



R. APSARA IV-ECE



M. LOGESH KUMAR IV-ECE

SANJAY TECHNOLOGIES – 2.8 LPA



G.GURU VIGNESH
IV-ECE



K.PRAVEEN
IV-ECE



S.HARIHARAN
IV-ECE



T.KAVIN
IV-ECE



D.VANITHA
IV-ECE

JOBWORLD – 2.8 LPA



B.MUTHULAKSHMI
IV-ECE

INVENDIS TECHNOLOGIES – 2.8 LPA



MARIA ABINESH
IV-ECE

EFFICA AUTOMATION – 2.69 LPA



M. SRIDHARAN – IV ECE



T.SATHIYA NARAYANAN
IV-ECE



T. MIDHUN
IV-ECE

INDUS ELECTRONICS – 2.4 LPA



K. PRABHU
IV-ECE



K. SIDHARTHAN
IV-ECE



V.DHARANI
IV-ECE



P.SASITHARAN
IV-ECE

VI-MICROSYSTEMS – 2.4 LPA



N.KRISHNAVENI
IV-ECE



K.SHANMATHI
IV-ECE



D.SURENDHAR
IV-ECE



G.THILAK
IV-ECE

NCR CORPORATION INDIA PVT. LTD – 2.4 LPA



C.MAHASRI
IV-ECE



V.KUMAR
IV-ECE



GIFTSON SAMUEL
IV-ECE



S.NAMAKESWARI
IV-ECE



S.DURGADEVI
IV-ECE



A.HEMASRI
IV-ECE



S.GOWTHAM
IV-ECE



D.MANIKANDAN
IV-ECE



S.SIVA
IV-ECE

PEGATRON INDIA PVT. LTD – 2.3 LPA



S.BALASUBRAMANIAM
IV-ECE



S.VENKATESH
IV-ECE



P.PAVITHRA
IV-ECE



K.ABINAYA
IV-ECE



S.FELIX JACKSON
IV-ECE



R.DEEPIKA
IV-ECE



S.JEEVITHAA
IV-ECE



S.V.KIRUTHIGA
IV-ECE



M.MANIKANDAN
IV-ECE



M.PRIYA DHARSHINI
IV-ECE



P.HEMA NANDHINI
IV-ECE



T.SUSINDRAN
IV-ECE



V.SHACHI MISHRA
IV-ECE



P.HARSHINI
IV-ECE

ASCENT CIRCUITS – 2.16 LPA



S. ASWIN
IV-ECE



S. BOOBALAKRISHNAN
IV-ECE



S. KAVIN PRASATH
IV-ECE



A. TAMIL
IV-ECE



G. ROHITH
IV-ECE



R. SHANMUGANATHAN
IV-ECE

BRIGADE LED PVT. LTD – 2.16 LPA



K. SHANMUGAM
IV-ECE



M. VIGNESH
IV-ECE

Q-GATE SOLUTIONS – 2.0 LPA



R. DHANUSH
IV-ECE



A. MOULI
IV-ECE

Editorial Team



MR.S. GLADSON AP/ECE
CO-ORDINATOR

I AM TRULY HONORED TO HAVE CONTRIBUTED TO THE CREATION OF MAGAZINE AND I EXTEND MY HEARTFELT GRATITUDE TO THE ENTIRE TEAM WHOSE DEDICATION MADE THIS POSSIBLE.

DR.S. BHARATHIDASAN HOD/ECE

I AM DELIGHTED TO HAVE LED THE TEAM OF EDITORS WHO CONTRIBUTED TO THIS MAGAZINE. THEIR CREATIVITY, CURIOSITY, AND COMMITMENT HAVE TRULY BROUGHT THIS PUBLICATION TO LIFE. WORKING WITH MY STUDENTS HAS BEEN A REWARDING AND MEMORABLE EXPERIENCE.



EDITOR : SANJAY V



CONTENT WRITERS :
KISHOR A S
MATHANKUMAR S U
SRISANJAY SMITH P

Written with heart! Edited with soul!!



WHIZZCOM CHRONICLE **THANK YOU** 2023-24