



Kongunadu
College of Engineering & Technology
[Autonomous]



(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai, Accredited by NBA(CSE,ECE,EEE & MECH),
Accredited by NAAC, Recognized by UGC with 2(f) & 12(B) and ISO 9001:2015 Certified Institution)

Namakkal - Trichy Main Road, Tholurpatti (P.O.), Thottiyam (TK), Trichy (Dt.) - 621 215.

Department of Electronics and Communication Engineering



DECRA NEWSLETTER

★ Contents

- Department Vision, Mission, PEOs, PSOs & POs
- Professional Bodies Activities
 - IETE Students Forum
 - ISTE Student Chapter
- Programme Conducted by the Department
 - Conference / Workshop / Seminar / FDP / Guest Lecture
- Staff Contributions
 - NPTEL
 - Publication of Book/Manual
 - Publication in Journals
 - Publication in Conferences
 - Programme attended (Webinar / Workshop / FDP / Training / Others)
 - Industrial Training
- Students Contributions
 - NPTEL
 - Publication in Conferences
 - Publication in Journals
 - Prizes
 - Industry Visit
 - Value Added Course
 - Internship
- College Vision & Mission

★ DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

★ VISION

To create highly skilled, proficient and excellent Electronics and Communication Engineers having professional ethics, passion and competence to adapt to the latest transformations in technology.

★ MISSION

- Promoting quality teaching and effective learning to face the global challenges.
- Enriching professionals of high caliber to excel in their careers through students' overall development.
- Promoting education that imparts multidisciplinary design approaches, innovation and creativity.

★ PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

PEO 1 : Graduates shall exhibit the skills and knowledge required to design, develop and implement solutions for real life problems.

PEO 2 : Graduates shall excel in professional career, higher education and research.

PEO 3 : Graduates shall demonstrate professionalism, entrepreneurship, ethical behavior, communication skills and collaborative team work to adapt the emerging trends by engaging in lifelong learning.

★ PROGRAM SPECIFIC OUTCOMES (PSOs)

PSO 1 : Students shall have skills and knowledge to work and design on PCB, analog and digital systems, adhoc and sensor networks, embedded and communication systems.

PSO 2 : Students are able to perform and design in the simulation tools and IoT related modules.

★ PROGRAM OUTCOMES (POs)

Engineering Graduates will be able to :

1. Engineering knowledge : Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

2. Problem analysis : Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

3. Design/development of solutions : Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

4. Conduct investigations of complex problems : Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

5. Modern tool usage : Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

6. The engineer and society : Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

7. Environment and sustainability : Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

8. Ethics : Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

9. Individual and team work : Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

10. Communication : Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

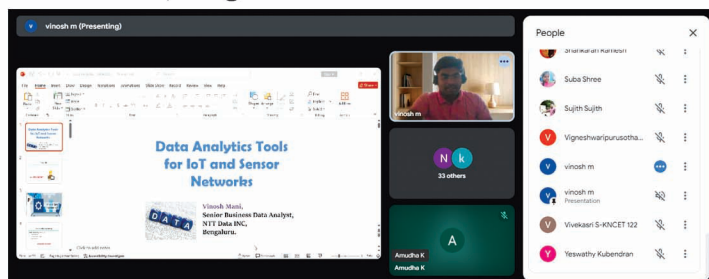
11. Project management and finance : Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

12. Life-long learning : Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

★ PROFESSIONAL BODIES ACTIVITIES

★ IETE Students Forum

Webinar on 'Data Analytics Tools for IoT and Sensor Networks' was organized on 25th April 2025. The resource person was Mr.Vinosh Mani, Senior Business Data Analyst, NTT DATA INC, Bengaluru.

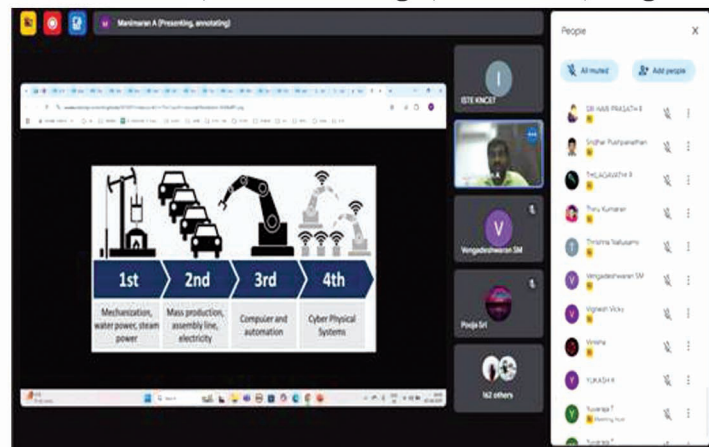


Workshop on 'PCB Design and Fabrication' was conducted on 24th February 2025. The resource person was Mr.Sundaresan Muthiah, Proprietor, M.S.B Electronic Industries, Salem.



★ ISTE Student Chapter

Webinar on "Emerging Trends in Industry 4.0" was organized on 2nd April 2025. The Resource Person was Mr.A.Manimaran, Assistant Manager, VI Solutions, Bengaluru.



Intra College Quiz Competition "QWAVEZ-2k25" was organized on 24th February 2025.

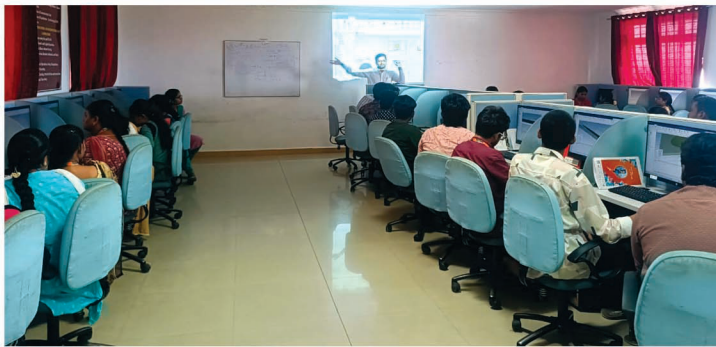


* Programme Conducted by the Department
 * (Conference/Workshop/Seminar/FDP/ Guest Lecture/Training/Webinar/ Others)

Seminar on 'Cloud Intelligence: Revolutionizing Communication with AI' was organized on 26th April 2025. The resource person was Mr.Kalaivanan Eswaramoorthy, Technical specialist, IBM India (Global Business Services), Chennai.



Workshop on 'Wearable Antenna Design' was conducted on 2nd April 2025. The resource person was Mr.T.Jayanandan, Founder & CEO, Tesla Minds, Nandanam, Chennai.



Seminar on 'Frontend Web Development - React' was organized on 29th March 2025. The resource person was Mr.S.Karthick, Software Engineer, Kissflow Pvt Ltd., Chennai.



Seminar on 'Career Guidance on Future Embedded and Automotive Systems' was organized on 19th March 2025. The resource person was Mr.A.Mohsin Khan, Technical Head VLSI & Embedded Automotive, Cranes Varsity Pvt Ltd., Bangalore.



Seminar on 'Carving a Niche Career in Embedded System Design' was organized on 17th March 2025. The resource person was Dr.M.Vijaya kumar, Managing Director, IndiGuard Systems Private Limited, Thajavur.



Seminar on 'PCB's and their Impact in Modern Trends' was organized on 14th March 2025. The resource person was Mr.R.Vishnu priyan, Junior Electronics Engineer, Fizix Innovation Labs, Chennai.



Seminar on 'SIPI in Semiconductor Industry' was organized on 22nd February 2025. The resource person was Mr.K.Shajudeen, Engineer Simulations, Caliber Interconnects, Coimbatore.



Seminar on 'Exploring VLSI - From Fundamentals and Design Flows to Modern Verification' was organized on 25th January 2025. The resource person was Mr.A.Jagan, Programmer Analyst, Object Automation System Solutions Pvt Ltd, Chennai.



★ Staff Contribution

Mr.T.Dineshkumar, AP of Electronics and Communication Engineering department acted as a Reviewer in 'Computers and Electronics in Agriculture' on 28th April 2025.

Dr.B.Umarani, Professor of Electronics and Communication Engineering department gave a Guest Lecture at AMS Engineering College on 28th March 2025.

Mr.T.Dineshkumar, AP of Electronics and Communication Engineering department acted as a Reviewer in 'Optics and Laser Technology' on 17th March 2025.

Mr.T.Dineshkumar, AP of Electronics and Communication Engineering department acted as a Reviewer in 'Heliyon, a Cell Press journal' on 15th March 2025.

Dr.M.Paranthaman, ASP of Electronics and Communication Engineering department acted as a Reviewer in 'MDPI Journals' during the Academic Year 2024 to 2025.

Dr.M.Paranthaman, ASP of Electronics and Communication Engineering department gave a Technical Presentation at Velammal College of Engineering and Technology, Madurai on 30th January 2025.

Mr.T.Dineshkumar, AP of Electronics and Communication Engineering department acted as a Reviewer in 'Elsevier Reviewer Hub' on 21st January 2025.

★ NPTEL

The following faculty members completed NPTEL courses during the period January to April 2025.

Dr.M.Dharmalingam - Business Fundamentals for Entrepreneurs

Dr.P.Elayaraja & Mr.N.Jayapal - Introduction to Embedded System Design

Dr.V.Krishnakumar - Introduction to Industry 4.0 and Industrial Internet of Things

Dr.V.Bharathi - Principles of Management

Mr.S.Baskar - Introduction to Internet of Things

Mrs.T.Benisteena - Sensors and Actuators

Mr.S.Hari Kumar- Computer Networks and Internet Protocol

★ Publication of Book/Manual

Dr.B.Umarani & Dr.M.Paranthaman 'Electric Circuits and Electron Devices' The Charulatha Publications, June 2025, ISBN: 978-93-49002-71-5

Dr.P.Elayaraja & Mrs.T.Beni Steena 'Analog Electronic Circuits Design' The Charulatha Publications, June 2025, ISBN: 978-93-49002-91-3

Dr.A.Nithya, Dr.G.Jamuna & Dr.R.Asokan 'Universal Human Values 2 Understanding Harmony' Pearson India Education Services Pvt.Ltd, Jan 2025, ISBN: 978-93-671-3923-3

★ Publication in Journals by Staff

Palraj Karupphasamy, Dharmalingam Murugesan & Jacob Wekalao, 'Design and Optimization of a Hybrid Graphene - Copper Terahertz Metasurfaces Biosensor for High- Sensitivity Malaria Detection: Integration of Machine Learning for Performance Enhancement and Binary Encoding Applications', Plasmonics, June 2025, DOI: <https://doi.org/10.1007/s11468-025-03099-w> (Scopus / SCIE / Web of Science)

Anitha Rajesh, Ramamurthy Dineshkumar, Saranya Shanmugam, Jaehyuk Cho & Sathishkumar Veerappam palayam Easwaramoorthy, 'Enhancing security in social computing systems through knowledge learning techniques', Egyptian Informatics Journal, Vol.30, June 2025, 100675, DOI:<https://doi.org/10.1016/j.eij.2025.100675> (Scopus/ SCIE/Web of Science)

S Sangeetha & B Umarani, 'MRI Image-Based Parkinson's disease classification using Deep Maxout fuzzy EfficientNet', Biomedical Signal Processing and Control, Vol.103, June 2025, 107416 DOI:<https://doi.org/10.1016/j.bspc.2024.107416> (Scopus/SCIE/Web of Science)

Beni Steena Thankaraj, Asokan Ramasamy & Balaji Venkatachalam Rajarajan, 'Beam steering permutation switch using annular photonic crystal for optical networks', Journal of Optics, Vol.27, No.5, May 2025, DOI: <https://doi.org/10.1088/2040-8986/adcbdd> (Scopus/SCIE/Web of Science)

M.Duraisamy, M.Thangavel, S.Lalitha, K.Jayaram, S.Kumarganesh, K.Martin Sagayam, Binay Kumar Pandey, Digvijay Pandey & Suresh Kumar Sahani, 'Development of an Ion-Sensitive Field-Effect Transistor Device for High-Performance Diagnostic and Clinical Biomedical Applications', Engineering Reports, April 2025. DOI: <https://doi.org/10.1002/eng2.70126> (Scopus/SCIE/Web of Science)

T.Yuvaraj, M.Thirumalai, M.Dharmalingam, Sudhakar Babu Thanikanti & Sanjeevikumar Padmanaban, 'Smart energy management for revenue optimization and grid independence in an Indian RDS', Energy Conversion and Management: X, Vol.26, April 2025. DOI:<https://doi.org/10.1016/j.ecmx.2025.100955> (Scopus / SCIE / Web of Science)

★ Publication in Conference by Staff

K.Suresh, Shaik Heena, **P.Elajaraja**, Ala'a Al-Shaikh, Neeraj Sunheriya & Raziff Hamsan, 'An Intelligent Classification Logic to Differentiate Crops and Weeds based on Learning assisted Image Processing Technique', 2025 International Conference on Frontier Technologies and Solutions (ICFTS), June 2025, DOI: 10.1109/ICFTS62006.2025.11031507

R.Asokan, **M.Dharmalingam**, **K.Amudha** & **R.Baskar**, 'Experimental Analysis for Detecting Moving Objects behind Walls using Wi-Vi Technology', 2025 International Conference on Computing and Communication Technologies (ICCT), June 2025, DOI: 10.1109/ICCT63501.2025.11020042

Fateh Bahadur Kunwar, Satyajee Srivastava, R.Dhivya, Monika Gulati, **K.Amudha** & D.Antony Arul Raj, 'Enhanced Student Stress Prediction in Higher Education Using a TriBranch CNN Framework', 2025 3rd International Conference on Integrated Circuits and Communication Systems (ICICACS), Published in IEEE Explore: April 2025. DOI: 10.1109/ICICACS65178.2025.10968227

V.Sangeetha, S.Padmakala, Y.M.Mahaboob John, **P.Elajaraja** & KG Parthiban, 'Multi-Dimensional Recurrent Neural Networks Hyperspectral image classification, 2024 International Conference on Distributed Systems, Computer Networks and Cybersecurity (ICDSCNC), IEEE Explore Published: April 2025, DOI:10.1109/ICDSCNC62492.2024.10939765

M.Seenivasan, **Dr.M.Paranthaman** & **Mrs.K.Yazhini**, 'T' Slot Microstrip Patch Antenna Performance for a Realistic Wireless Local Area Network (WLAN) Application', International Conference on Integrating Recent Innovations in Science and Technology (ICIRIST 2K25) at Dhanalakshmi Srinivasan Engineering College, Perambalur on 25th April 2025, ISBN: 978-93-342-8222-1

P.Rajasekar, Alok Kumar, V.Prema Latha, **N.Jayapal**, Boddu Soundarya Santhoshi & K.Karthik, 'Advancing IC Fault Localization and Diagnosis Through Machine Learning', 2025 International Conference on Multi-Agent Systems for Collaborative Intelligence (ICMSCI), IEEE Explore Published: February 2025, DOI: 10.1109/ICMSCI62561.2025.10894506.

K.Sheikdavood, **R.Asokan**, **Dineshkumar Thangaraju**, S K Vedhashree, R.Lakshmi & R.Arul Arumugam, 'Sustainable Power Generation from Waste: Reducing Landfill Waste and Meeting Growing Energy Demands', 2024 3rd International Conference on Automation, Computing and Renewable Systems (ICACRS), Published in IEEE Explore: January 2025, DOI: 10.1109/ICACRS62842.2024.10841770

K.Dinesh Kumar, K.Manikandan, S.Edwin Raja, B.Prabhu Shankar, Jayavadivel Ravi & **T.Beni Steena**, 'Detecting Fake URLs and Preventing Malware Using Machine Learning', 2024 International Conference on Intelligent Computing and Emerging Communication Technologies (ICEC), Published in IEEE Explore: January 2025, DOI: 10.1109/ICEC59683.2024.10837506.

★ Programme attended by the Staff (Webinar/Workshop/FDP/Training/Others)

Mr.C.Srinivasan, AP of Electronics and Communication Engineering department attended FDP on 'Microsoft Power BI Data Analyst Associate' organized by ICT Academy on 19th to 23rd May 2025.

Mrs.M.Geethalakshmi, AP of Electronics and Communication Engineering department attended Workshop on 'Building D-apps using Blockchain' organized by KPR Institute of Engineering and Technology on 09th & 10th May 2025.

Mr.T.Dineshkumar, AP of Electronics and Communication Engineering department attended Workshop on 'An Introduction to Biomaterials Science & Engineering' organized by Poornima University, Jaipur on 06th May 2025.

Dr.M.Dharmalingam, Professor of Electronics and Communication Engineering department attended NPTEL-FDP on 'Business Fundamentals for Entrepreneurs' organized by NPTEL-AICTE on 1st January to 30th April 2025.

Dr.V.Krishnakumar, AP of Electronics and Communication Engineering department attended NPTEL-FDP on 'Introduction to Industrial 4.0 and Industrial Internet of Things' organized by NPTEL-AICTE on 1st January to 30th April 2025.

Mrs.T.Beni Steena, AP of Electronics and Communication Engineering department attended NPTEL-FDP on 'Sensors and Actuators' organized by NPTEL-AICTE on 1st January to 30th April 2025.

Mr.S.Baskar, AP of Electronics and Communication Engineering department attended NPTEL-FDP on 'Introduction to Internet of Things' organized by NPTEL-AICTE on 1st January to 30th April 2025.

Mr.T.Dineshkumar, AP of Electronics and Communication Engineering department acted as a Reviewer at Galgotias University, Uttar Pradesh' on 04th to 06th April 2025.

Mr.T.Dineshkumar, AP of Electronics and Communication Engineering department attended FDP on 'Cyber Security' organized by Skill Dzire with AICTE on 17th to 31st March 2025.

Dr.M.Paranthaman, ASP of Electronics and Communication Engineering department attended FDP on 'VLSI' organized by Skill Dzire with AICTE on 17th to 31st March 2025.

Mrs.T.Meenal, ASP, Mr.S.Harikumer, AP, Mr.C.Srinivasan, AP & Mr.A.Mohan Kumar, AP of Electronics and Communication Engineering department attended FDP on 'AI and Cloud Based Tools for Research' organized by NITTTR, Chandigarh at Kongunadu College of Engineering and Technology, Trichy from 24th to 28th March 2025.

Mrs.S.Lalitha, AP & Mrs.C.P.Niranjana, AP of Electronics and Communication Engineering department attended Workshop on 'Prototype/Process Design and Development' organized by M.Kumarasamy College of Engineering, Karur on 27th & 28th March 2025.

Dr.P.Elaiyaraja, ASP & Mrs.C.P.Niranjana, AP of Electronics and Communication Engineering department attended Workshop on 'Industrial Applications of Artificial Intelligence' organized by Vellore Institute of Technology, Vellore on 13th March 2025.

Mr.T.Dineshkumar, AP of Electronics and Communication Engineering department attended Workshop on 'AI-Powered Cyber Security: The Future of Digital Defense' organized by ECLearnix on 08th March 2025.

Dr.B.Umarani, Professor of Electronics and Communication Engineering department attended Workshop on 'Mastering Scaling, Measurement Techniques and Questionnaire Development' organized by Academia Insight Institute of Research Studies on 08th March 2025.

Dr.K.Amudha, Professor, Mrs.K.Yazhini, AP & Mr.A.Mohan Kumar, AP of Electronics and Communication Engineering department attended Workshop on 'Antenna Design' organized by K.Ramakrishnan College of Engineering, Trichy on 08th March 2025.

Mrs.S.Sandhiya, AP of Electronics and Communication Engineering department attended FDP on 'Fostering Research & Development to Drive Technological Progress and Innovation for Sustainable Growth' organized by Roever Engineering College, Perambalur from 03rd to 08th March 2025.

Mr.S.Baskar, AP & Mrs.C.P.Niranjana, AP of Electronics and Communication Engineering department attended FDP on 'Methods of Research and Publication Ethics' organized by NITTTR, Chandigarh at Kongunadu College of Engineering and Technology, Trichy from 17th to 21st February 2025.

Mr.S.Harikumer, AP, Mrs.M.Geethalakshmi, AP & Mrs.S.Lalith, AP of Electronics and Communication Engineering department attended ATAL-FDP on 'AI-Enhanced 6G: Pioneering the Next Generation of Wireless Innovation' organized by Bannari Amman Institute of Technology from 10th to 15th February 2025.

Dr.V.Bharathi, AP of Electronics and Communication Engineering department attended FDP on 'Competency Based Engineering Education' organized by Ramco Institute of Technology, Rajapalayam from 10th to 15th February 2025.

Mrs.M.Geethalakshmi, AP of Electronics and Communication Engineering department attended ATAL-FDP on 'Generative AI Techniques, Tools, And Applications' organized by National Institute of Technology from 03rd to 08th February 2025.

Mrs.T.Meenal, ASP, Mr.T.Dineshkumar, AP, Mr.S.Baskar, AP & Mrs.C.P.Niranjana, AP of Electronics and Communication Engineering department attended ATAL-FDP on 'Recent Advancements and Challenges in Integration of IoT and 5G/6G Wireless Communication: Building the Next Gen Connectivity' organized by Kongunadu College of Engineering and Technology, Trichy from 03rd to 08th February 2025.

Mrs.C.P.Niranjana, AP of Electronics and Communication Engineering department attended ATAL-FDP on 'Recent Advancements and Challenges in Integration of IoT and 5G/6G Wireless Communication: Building the Next Gen Connectivity' organized by Government Engineering College, Rajkot from 27th January to 01st February 2025.

Mrs.T.Beni Steena, AP, Mrs.S.Lalitha, AP & Mr.C.Srinivasan, AP of Electronics and Communication Engineering department attended FDP on 'Science, Technology and Innovation for Sustainable Development' organized by NITTTR, Chandigarh at Kongunadu College of Engineering and Technology, Trichy from 27th to 31st January 2025.

Mr.T.Dineshkumar, AP of Electronics and Communication Engineering department attended ATAL-FDP on 'Innovative Medical Healthcare using Augmented Reality and Virtual Reality' organized by Gnanamani College of Technology, Namakkal from 20th to 25th January 2025.

Mrs.T.Meenal, AP, Mrs.T.Beni Steena, AP & Mr.T.Dineshkumar, AP of Electronics and Communication Engineering department attended FDP on 'IoT in Focus: Emerging Trends & Real World' organized by Sri Sai Ram Engineering College, Chennai, from 20th to 25th January 2025.

Dr.P.Elaiyaraja, ASP & Mr.N.Jayapal, AP of Electronics and Communication Engineering department attended ATAL-FDP on 'Driving the Future 2025-2030 : Smart Cities and Urban Mobility' organized by IFET College of Engineering, Villupuram from 20th to 25th January 2025.

Dr.V.Bharathi, AP of Electronics and Communication Engineering department attended ATAL-FDP on 'Smart cities and its Mobility' organized by IFET College of Engineering, Villupuram from 20th to 25th January 2025.

Ms.S.Saranya, AP & Mrs.K.Yazhini, AP of Electronics and Communication Engineering department attended ATAL-FDP on 'AI and Quantum Computing: Glimpsing the Near Future' organized by Sri Sai Ram Engineering College, Chennai, from 20th to 25th January 2025.

Mrs.S.Sandhiya, AP of Electronics and Communication Engineering department attended ATAL-FDP on 'Advanced Research Trends for New Semiconductor Chip Designing' organized by Saveetha Engineering College from 20th to 25th January 2025.

Dr.T.Yuvaraja, ASP of Electronics and Communication Engineering department attended FDP on 'Artificial Intelligence Techniques in VLSI Design' organized by PSNA College of Engineering and Technology, Dindigul from 20th to 25th January 2025.

Mrs.K.Yazhini, AP of Electronics and Communication Engineering department attended FDP on 'Emerging Trends in VLSI Chip Design for Communication Applications using AI and ML' organized by J.P College of Engineering, Tenkasi from 20th to 24th January 2025.

Dr.V.Bharathi, AP of Electronics and Communication Engineering department attended Seminar on 'Advanced Mathematical Modelling in AI' organized by Springer Nature on 10th & 11th January 2025

Dr.R.Asokan, Professor of Electronics and Communication Engineering department attended FDP on '5G and Next Generation Wireless Networks' organized by Sreenidhi Institute of Science and Technology from 06th to 11th January 2025.

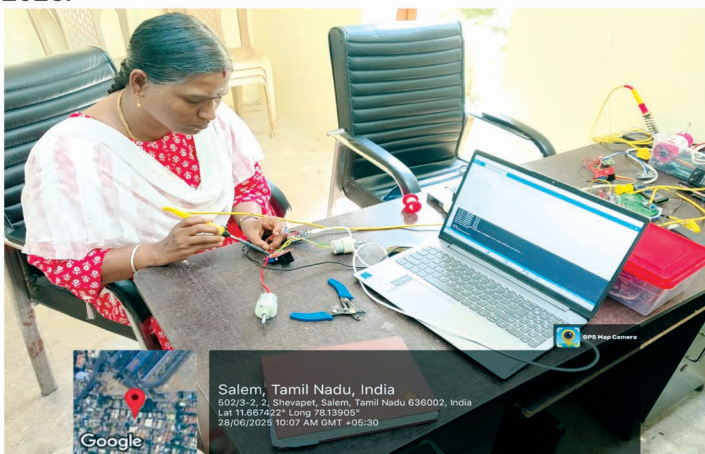
Mr.A.Mohan Kumar, AP of Electronics and Communication Engineering department attended Workshop on 'Cyber Welfare Vulnerability Management' organized by Recilens Corporation in collaboration with Zoho Books on 07th & 08th January 2025.

✳️ Faculty Industrial Training

Dr.K.Amudha, Prof & Mrs.T.Meenal, ASP of Electronics and Communication Engineering department attended industrial training at Enthi Technology Solutions, Coimbatore on 30th June 2025.



Mrs.T.Meenal, ASP of Electronics and Communication Engineering department attended industrial training at Caliber Embedded System, Salem from 27th to 29th June 2025.



Mrs.M.Geethalakshmi, AP & Mrs.S.Lalitha, AP of Electronics and Communication Engineering department attended industrial training at Marcellotech, Trichy from 4th to 6th June 2025.



Dr.T.Yuvaraja, AP & Mr.T.Dineshkumar, AP of Electronics and Communication Engineering department attended industrial training at IRRD Automations, Karur from 27th to 30th June 2025.



Dr.B.Umarani, Prof, Mrs.T.Beni Steena, AP & Mrs.S.Sandhiya, AP of Electronics and Communication Engineering department attended industrial training at Power Integrated Solutions, Trichy from 27th to 30th June 2025.



A.Mohan Kumar, AP & C.Srinivasan, AP of Electronics and Communication Engineering department attended industrial training at Prashan Medical Technologies, Salem from 20th to 23rd June 2025.



Dr.V.Bharathi, AP & Dr.P.Elayaraja, ASP of Electronics and Communication Engineering department attended industrial training at Egston Electronics Private Limited, Trichy from 31st May to 03rd June 2025



Mrs.K.Yazhini, AP & Mrs.S.Saranya, AP of Electronics and Communication Engineering department attended industrial training at Nascent Groups, Trichy from 30th, 31st May & 2nd June 2025.



Mr.S.Harikumar, AP & Dr.M.Paranthaman, ASP of Electronics and Communication Engineering department attended industrial training at Viwise Tech Softwares, Trichy from 28th to 30th May 2025.



S.Baskar, AP & N.Jayapal, AP of Electronics and Communication Engineering department attended industrial training at Ettik Enigneering private Limited, Namakkal from 27th to 29th May 2025.



✳️ Students Contribution ✳️ NPTEL

Abinash R K, Apsal Ahamed S, Arunachalam S, Deepak Kannan B, Deepan R S, Dhushyanth G, Harini M, Hariram Kamala, Praveen A, Imran E, Kavinraj T, Kaviya K, Manobala N, Manojkumar M, Nalineshwaran P, Naveenkumar J, Prakash V, Raj Kumar K, Samson D, Saranya K, Shankaran R, Sharmadha S, Sivanantham G, Sneka M, Sobikasri S and Thirumurugan K of II year Electronics and Communication Engineering Department completed NPTEL course on 'Introduction To Internet of Things' during January to April 2025.

Karthisun B of II year Electronics and Communication Engineering Department completed NPTEL course on 'Cloud Computing' during January to April 2025.

Gowtham K of IV year Electronics and Communication Engineering Department completed NPTEL course on 'Cloud Computing' during January to April 2025.

Gowtham K of IV year Electronics and Communication Engineering Department completed NPTEL course on 'Programming in Java' during January to April 2025.

★ Publication in Conferences by Students

M.Vijayabalaji & **M.Dharmalingam**, 'Real-Time Attendance Tracking System Using ESP32-AI CAM and IOT', International Conference on Integrating Recent Innovations in Science and Technology (ICIRIST 2K25) at Dhanalakshmi Srinivasan Engineering College, Perambalur on 25th April 2025, ISBN: 978-93-342-8222-1

R.Parthasarathi, P.Saravanan, J.Sathiya Moorthy & **P.Elayaraja**, 'Boosting Coal Truck tire Efficiency with IOT and Application', National Conference on Multidisciplinary Research and Innovations in Engineering and Technology at Knowledge Institute of Technology, Salem on 4th April 2025, ISBN: 978-93-342-1173-3

S.Rohith, B.V.Ravichandran, T.Nithiswar & **S.Lalitha**, 'Smart Water Surface Cleaner Using IoT', National Conference on Multidisciplinary Research and Innovations in Engineering and Technology at Knowledge Institute of Technology, Salem on 4th April 2025, ISBN: 978-93-342-1173-3

V.Harija & **K.Yazhini**, 'IoT based Controlled Smart Notice Board Using LCD Display', National Conference on Advancements in Mechanical Sciences AIMS 2K25 at Velammal Engineering College, Chennai on 03rd April 2025, ISBN: 978-93-342-5230-9

K.Sathiyaraja & **B.Umarani**, 'Image segmentation: A Review for the Identification of Abnormal Organs', National Level Conference on Innovative Research in Science, Engineering and Technology (NCIRSET 2025) at Selvam College of Technology, Namakkal on 03rd April 2025, ISBN: 978-81-965669-3-7

T.Meenal, J.Mogan, B.Mohamed Tarif & A.Mohammed Ijaj, 'Foot check: An Efficient VLSI Design of Image Enhancement using Verilog HDL', National Level Conference on Innovative Research in Science, Engineering and Technology (NCIRSET 2025) at Selvam College of Technology, Namakkal on 03rd April 2025, ISBN: 978-81-965669-3-7

K.Abinayashri, M.R.Harini, S.Harsha & **T.Yuvaraja**, 'Smart Fire Fighting Robot using AI and IoT', National Level Conference on Innovative Research in Science, Engineering and Technology (NCIRSET 2025) at Selvam College of Technology, Namakkal on 03rd April 2025, ISBN: 978-81-965669-3-7

K.Sathiyaraja & **B.Umarani**, 'Image segmentation: A Review for the Identification of Abnormal Organs', National Level Conference on Innovative Research in Science, Engineering and Technology (NCIRSET 2025) at Selvam College of Technology, Namakkal on 03rd April 2025, ISBN: 978-81-965669-3-7

K.Abinayashri, M.R.Harini, S.Harsha & **T.Yuvaraja**, 'Smart Fire Fighting Robot using AI and IoT', National Level Conference on Innovative Research in Science, Engineering and Technology (NCIRSET 2025) at Selvam College of Technology, Namakkal on 03rd April 2025, ISBN: 978-81-965669-3-7

V.Harija & **K.Yazhini**, 'IoT based Controlled Smart Notice Board Using LCD Display', National Conference on Advancements in Mechanical Sciences AIMS 2K25 at Velammal Engineering College, Chennai on 03rd April 2025, ISBN: 978-93-342-5230-9

R.Parthasarathi, P.Saravanan, J.Sathiya moorthy & **P.Elayaraja**, 'Boosting Coal Truck Tire Efficiency with IOT and Application', International Conference on Computational Intelligence and Industry 5.0 (ICCII 2025) at Velammal Institute of Technology, Chennai on 21st & 22nd March 2025. ISBN: 978-81-967851-2-3

S.Rohith, B.V.Ravichandran, T.Nithiswar & **S.Lalitha**, 'Smart Water Surface Cleaner Using IOT', International Conference on Computational Intelligence and Industry 5.0 (ICCII 2025) at Velammal Institute of Technology, Chennai on 21st & 22nd March 2025. ISBN: 978-81-967851-2-3

J.Prakash, M.Vikrath, S.Dineshkumar & **C.Srinivasan**, 'Smart IOT Solutions for Real Time Diagnosis and Virtual Care', International Conference on Computational Intelligence and Industry 5.0 (ICCII 2025) at Velammal Institute of Technology, Chennai on 21st & 22nd March 2025, ISBN : 978-81-967851-2-3

S.Yogeshwaran, S.Subhash Chandra Bose & **M.Paranthaman**, 'Energy-Efficient Relay Node Optimization in LORAWAN based WSN Using ABC Algorithm', International Conference on Computational Intelligence and Industry 5.0 (ICCII 2025) at Velammal Institute of Technology, Chennai on 21st & 22nd March 2025, ISBN: 978-81-967851-2-3

C.Pradeep, A.Praveen, S.Santhosh & **M.Geethalakshmi**, 'Deep Learning-Based Hybrid beamforming for MIMO-OFDM', International Conference on Computational Intelligence and Industry 5.0 (ICCII 2025) at Velammal Institute of Technology, Chennai on 21st & 22nd March 2025, ISBN: 978-81-967851-2-3

A.Sribalaji, T.Velmurugan, M.Arunkumar & **A.Mohan Kumar**, 'Advanced AI-Powered Network Intrusion Detection Using Generative Adversarial Networks', International Conference on Computational Intelligence and Industry 5.0 (ICCII 2025) at Velammal Institute of Technology, Chennai on 21st & 22nd March 2025, ISBN: 978-81-967851-2-3

M.Suganth, V.Vignesh, K.Kavin & **S.Saranya**, 'Energy-Efficient WSN for Smart Agriculture Using CDS Algorithm', International Conference on Computational Intelligence and Industry 5.0 (ICCII 2025) at Velammal Institute of Technology, Chennai on 21st & 22nd March 2025, ISBN: 978-81-967851-2-3

P.Sooriyaprakash, R.Vikram, S.Yaswanth & **K.Amudha**, 'Development of Adaptable Module for Underwater Optical Point-to-Point Communication', International Conference on Computational Intelligence and Industry 5.0 (ICCII 2025) at Velammal Institute of Technology, Chennai on 21st & 22nd March 2025. ISBN: 978-81-967851-2-3

R.Parthasarathi, P.Saravanan, J.Sathiya moorthy & **P.Elayaraja**, 'Boosting Coal Truck Tire Efficiencywithiot and Application', International Conference on Computational Intelligence and Industry 5.0 (ICCII 2025) at Velammal Institute of Technology, Chennai on 21st & 22nd March 2025, ISBN: 978- 81-967851-2-3

S.Rohith, B.V.Ravichandran, T.Nithiswar & **S.Lalitha**, 'Smart Water Surface Cleaner Using IOT', International Conference on Computational Intelligence and Industry 5.0 (ICCI 2025) at Velammal Institute of Technology, Chennai on 21st & 22nd March 2025, ISBN: 978-81-967851-2-3

J.Prakash, M.Vikranth, S.Dineshkumar & **C.Srinivasan**, 'Smart IOT Solutions for Real Time Diagnosis and Virtual Care', International Conference on Computational Intelligence and Industry 5.0 (ICCI 2025) at Velammal Institute of Technology, Chennai on 21st & 22nd March 2025, ISBN: 978-81-967851-2-3

S.Yogeshwaran, S.Subhash Chandra Bose & **M.Paranthaman**, 'Energy-Efficient Relay Node Optimization in LORAWAN Based WSN Using ABC Algorithm', International Conference on Computational Intelligence and Industry 5.0 (ICCI 2025) at Velammal Institute of Technology, Chennai on 21st & 22nd March 2025, ISBN: 978-81-967851-2-3

C.Pradeep, A.Praveen, S.Santhosh & **M.Geethalakshmi**, 'Deep Learning-Based Hybrid Beamforming for MIMO-OFDM', International Conference on Computational Intelligence and Industry 5.0 (ICCI 2025) at Velammal Institute of Technology, Chennai on 21st & 22nd March 2025, ISBN: 978-81-967851-2-3

A.Sribalaji, T.Velmurugan, M.Arunkumar & **A.Mohan Kumar**, 'Advanced AI-Powered Network Intrusion Detection Using Generative Adversarial Networks', International Conference on Computational Intelligence and Industry 5.0 (ICCI 2025) at Velammal Institute of Technology, Chennai on 21st & 22nd March 2025, ISBN: 978-81-967851-2-3

M.Suganth, V.Vignesh, K.Kavin & **S.Saranya**, 'Energy-Efficient WSN for Smart Agriculture Using CDS Algorithm', International Conference on Computational Intelligence and Industry 5.0 (ICCI 2025) at Velammal Institute of Technology, Chennai on 21st & 22nd March 2025, ISBN: 978-81-967851-2-3

P.Sooriyaprakash, R.Vikram, S.Yaswanth & **K.Amudha**, 'Development of Adaptable Module for Underwater Optical Point-To-Point Communication', International Conference on Computational Intelligence and Industry 5.0 (ICCI 2025) at Velammal Institute of Technology, Chennai on 21st & 22nd March 2025, ISBN: 978-81-967851-2-3

S.Sujitha, V.Suryagayathri, M.Thirisha & **B.Umarani**, 'IoT Enabled Infrastructure for Peri-Urban Communities', National Level Conference on Next-Gen Public Transportation: Integrating Technology and Sustainability at IFET College of Engineering, Villupuram on 15th March 2025, ISBN : 978-93-342-4606-3

R.Vijay, N.Vikash, S.Jeevanantham, **S.Sandhiya**, 'Smart Grid STM32 Lora based High Voltage Energy Meter', National Level Conference on Next-Gen Public Transportation: Integrating Technology and Sustainability at IFET College of Engineering, Villupuram on 15th March 2025, ISBN: 978-93-342-4606-3

M.Karan, J.Karthikeyan, V.Praveen & **S.Sandhiya**, 'Transmission Timing and Synchronization Control for Energy Efficient Multi-Hop LORAWAN', First National Level Conference on "Advancing Intelligence Using Quantum for Boundless Innovations in Technology (NCAIQUBIT - 2025) at Karpagam Academy of Higher Education, Coimbatore on 4th March 2025, ISBN:978-93-49019-51-5.

R.Jeeva, K.Harish, K.Dineshkumar & **C.P.Niranjana**, 'Optimized and Secure Video Transmission Using Steganography', First National Level Conference on "Advancing Intelligence Using Quantum for Boundless Innovations in Technology (NCAIQUBIT - 2025) at Karpagam Academy of Higher Education, Coimbatore on 4th March 2025, ISBN:978-93-49019-51-5.

K.Akilan, P.Daraniswar, M.Madhankumar & **C.Srinivasan**, 'Smart Food Sharing Hubs for Sustainable Communities', First National Level Conference on "Advancing Intelligence Using Quantum for Boundless Innovations in Technology (NCAIQUBIT - 2025) at Karpagam Academy of Higher Education, Coimbatore on 4th March 2025, ISBN : 978-93-49019-51-5.

S.Eswar, A.Dinesh, S.Sanjay Sudhan & **S.Baskar**, 'Cervical Cancer Diagnosis Using Convolution Neural Networks', First National Level Conference on "Advancing Intelligence Using Quantum for Boundless Innovations in Technology (NCAIQUBIT - 2025) at Karpagam Academy of Higher Education, Coimbatore on 4th March 2025, ISBN : 978-93-49019-51-5.

R.Dhanabal, M.V.Dayanathi & **T.Beni Steena**, 'Smart Health Monitoring and Emergency Assistance System for Drivers', First National Level Conference on "Advancing Intelligence Using Quantum for Boundless Innovations in Technology (NCAIQUBIT - 2025) at Karpagam Academy of Higher Education, Coimbatore on 4th March 2025, ISBN: 978-93-49019-51-5.

K.Harish Nithi, S.Manojkumar & **T.Meenal**, 'Brain Tumor Segmentation and Classification Using Deep Learning with 3D CNN', First National Level Conference on "Advancing Intelligence Using Quantum for Boundless Innovations in Technology (NCAIQUBIT - 2025) at Karpagam Academy of Higher Education, Coimbatore on 4th March 2025, ISBN: 978-93-49019-51-5.

M.Anitha, K.Gayathri Devi & **P.Elayaraja**, 'Autonomous Braking System for Motorized Vehicle', First National Level Conference on "Advancing Intelligence Using Quantum for Boundless Innovations in Technology (NCAIQUBIT - 2025) at Karpagam Academy of Higher Education, Coimbatore on 4th March 2025, ISBN:978-93-49019-51-5.

V.Dharshana, N.Durka, V.Kayalvizhi & **M.Dharmalingam**, 'Designing Robust OFDM System Using MATLAB', First National Level Conference on "Advancing Intelligence Using Quantum for Boundless Innovations in Technology (NCAIQUBIT - 2025) at Karpagam Academy of Higher Education, Coimbatore on 4th March 2025, ISBN:978-93-49019-51-5.

V.Krishnakumar, K.Gowtham, S.Hariprasath & V.Logesh, 'IOT Based Multi-Purpose Agriculture Robot', First National Level Conference on "Advancing Intelligence Using Quantum for Boundless Innovations in Technology (NCAIQUBIT - 2025) at Karpagam Academy of Higher Education, Coimbatore on 4th March 2025, ISBN:978-93-49019-51-5.

T.Hemnath, Kiruthik Pline, V.Manimalan & **N.Jayapal**, 'Efficient CRC-BCH Unified Encoder for Global Positioning System', First National Level Conference on "Advancing Intelligence Using Quantum for Boundless Innovations in Technology (NCAIQUBIT - 2025) at Karpagam Academy of Higher Education, Coimbatore on 4th March 2025, ISBN: 978-93-49019-51-5.

S.Harikumar, K.R.N.Kalis, R.Manoj & G.Manoj, 'Performance Enhancement of IOT-Enabled Advanced ATM Security System', First National Level Conference on "Advancing Intelligence Using Quantum for Boundless Innovations in Technology (NCAIQUBIT – 2025) at Karpagam Academy of Higher Education, Coimbatore on 4th March 2025, ISBN:978-93-49019-51-5.

S.Christober Lawrance, Jeeva, R.Hari Prakash & **A.Mohan Kumar**, 'ESP32-Based Blockchain-Enabled IoT Network for Secure Data Sharing' First National Level Conference on "Advancing Intelligence Using Quantum for Boundless Innovations in Technology (NCAIQUBIT – 2025) at Karpagam Academy of Higher Education, Coimbatore on 4th March 2025, ISBN:978-93-49019-51-5.

E.Mathavan, M.Santhoshkumar, D.Sakthivel & **S.Saranya**, 'IoT Enabled Accident Detection and Rescue System', First National Level Conference on "Advancing Intelligence Using Quantum for Boundless Innovations in Technology (NCAIQUBIT – 2025) at Karpagam Academy of Higher Education, Coimbatore on 4th March 2025, ISBN:978-93-49019-51-5.

K.Pavithra, R.Prithika Shree, S.Priyadharshini & **N.Jayapal**, 'CNN-Based Approach for Automated Rice Leaf Disease', International Conference on Advanced Innovation in Technologies (ICAIT 2025) at Arifa Institute of Technology, Nagapattinam on 28th February 2025, ISBN:978-9394414-90-7

D.Preethiga, D.Sathya, M.Sathasri & **S.Baskar**, 'Foot Check: Advance Detection of Diabetic Ulcer Using Ai-Driven Image and Text Processing', International Conference on Advanced Innovation in Technologies (ICAIT 2025) at Arifa Institute of Technology, Nagapattinam on 28th February 2025, ISBN: 978-9394414-90-7

K.Preethi, K.Preethiga, S.Shanmugapriya & **V.Krishna kumar**, 'Cryptographic Encryption for Secure Data', International Conference on Advanced Innovation in Technologies (ICAIT 2025) at Arifa Institute of Technology, Nagapattinam on 28th February 2025, ISBN: 978-9394414-90-7

G.Vindhya Shri, S.Visalini, G.Narmatha & **C.P.Niranjana**, 'Self- Defence Smart Device', International Conference on Advanced Innovation in Technologies (ICAIT 2025) at Arifa Institute of Technology, Nagapattinam on 28th February 2025, ISBN: 978-9394414-90-7

V.Asmitha, V.Jayamalini, M.Manisha & **K.Amudha**, 'Collusion-Free MANET Communication Framework for Direct Connectivity', International Conference on Advanced Innovation in Technologies (ICAIT 2025) at Arifa Institute of Technology, Nagapattinam on 28th February 2025, ISBN: 978-9394414-90-7

S.Dhanush, R.Deepan, M.Chandru & **M.Geethalakshmi**, 'Micro-Architect on RISC-V ISA', International Conference on Advanced Innovation in Technologies (ICAIT 2025) at Arifa Institute of Technology, Nagapattinam on 28th February 2025, ISBN: 978-9394414-90-7

G.Akilesh, S.Kishore, K.Kugan & **V.Bharathi**, 'Smart PCB Defect Detection for Industry Using CNN Algorithm', International Conference on Advanced Innovation in Technologies (ICAIT 2025) at Arifa Institute of Technology, Nagapattinam on 28th February 2025, ISBN: 978-9394414-90-7

K.Subalakshmi, S.Suvedha, D.Vanitha & **K.Yazhini**, 'Enhancing Aviation Safety Through Secure Controller-Pilot Data Link Communication Protocols', International Conference on Advanced Innovation in Technologies (ICAIT 2025) at Arifa Institute of Technology, Nagapattinam on 28th February 2025, ISBN: 978-9394414-90-7

S.Janani, S.Lavanya, S.Manju shri & **K.Yazhini**, 'Maximizing Lifetime of IOT-Based Hetero WSNS for Sustainable Smart City Application', International Conference on Advanced Innovation in Technologies (ICAIT 2025) at Arifa Institute of Technology, Nagapattinam on 28th February 2025, ISBN: 978-9394414-90-7

B.Aarthi, S.P.Dharshana, K.Dharshini & **S.Hari Kumar**, 'Voice Controlled Wheel Chair With Fall Detection Using IoT', International Conference on Advanced Innovation in Technologies (ICAIT 2025) at Arifa Institute of Technology, Nagapattinam on 28th February 2025, ISBN: 978-9394414-90-7

✳ Publication in Journals by Students

M.Suganth, V.Vignesh, K.Kavin & **S.Saranya**, 'Energy - Efficient WNS for Smart Agriculture using CDS Algorithm' International journal of Advanced research in computer and communication Engineering (IJARCCE), Vol.14, Issue 2, pp.59-65, Feb 2025 DOI:10.17148/IJARCCE.2025.14208.

G.Sivamurugan, S.Tamilselvan, K.Vetrivel & **R.Gnanaprakasam**, 'An Enhanced Biometric Authentication System for Innovative Vein Pattern Analysis' International Research Journal of Modernization in Engineering Technology and Science (IRJMETS), Vol.07, Issue.04, DOI:10.56726/IRJMETS71544

J.Prakash, M.Vikranth, S.Dinesh Kumar & **C.Srinivasan**, 'Smart IoT Solutions for Real -Time Diagnosis and Virtual Care' International journal of Advanced research in computer and communication Engineering (IJARCCE), Vol.14, Issue.3, pp.567-572, March 2025, DOI:10.17148/IJARCCE.2025.14376

A.Sribalaji, T.Velmurugan, M.Arun Kumar & **A.Mohan Kumar**, 'Advanced AI - Powered Network Intrusion Detection using Generative Adversarial Networks' International Research Journal of Modernization in Engineering Technology and Science (IRJMETS), Vol.07, Issue.03, March 2025, DOI: <https://www.doi.org/10.56726/IRJMETS70773>

S.Naveenkumar, R.Nithish, K.Premkumar & **T.Yuvaraja**, 'IoT based Smart Poultry Farm Monitoring System' International Scientific Journal of Engineering & Management (ISJEM), Vol.04, Issue.03, March 2025, DOI:10.55041/ISJEM02504

C.Pradeep, A.Praveen, S.Santhosh & **M.Geethalakshmi**, 'Deep Learning - Based Hybrid Beamforming for MIMO - OFDM' International Research Journal of Modernization in Engineering Technology and Science (IRJMETS), Vol.07, Issue.03, March 2025, DOI:10.56726/IRJMETS71186

S.Sujitha, V.Suryagayathri, M.Thirisha & **B.Umarani**, 'IoT Enabled Infrastructure for Peri-Urban Communities', International Scientific Journal of Engineering & Management (ISJEM), Vol.04, Issue.03, March 2025, DOI:10.55041/ISJEM02499, ISSN:2583-6129

M.Yogeshwaran, S.Praveenkumar, R.Veera Saravana Raja & **K.Amudha**, 'Analysis of Wi-Fi Signal Transmission and Reception Using Software - Defined Radio', International Journal of advanced Multidisciplinary Research and Studies (IJAMRS), Vol.5, Issue.2, pp.1145-115, March 2025

E.Mathavan, D.Sakthivel, M.Santhosh Kumar & **S.Saranya**, 'IoT Enabled Accident Detection and Rescue System', International Research Journal of Modernization in Engineering Technology and Science (IRJMETS), Vol.07, Issue.03, March 2025, DOI:10.56726/IRJMETS69171.

M.Karan, J.Karthikeyan, V.Praveen & **S.Sandhiya**, 'Transmission Timing and Synchronization Control for Energy Efficient Multi-Hop LoRaWAN', International journal of Advanced research in computer and communication Engineering (IJARCCCE), Vol.14, Issue.2, pp.47-53, February 2025, DOI:10.17148/IJARCCCE.2025.14206

K.R.N Kalis, G.Manoj, R.Manoj & **S.Harikumar**, 'Performance Enhancement of IoT-Enabled Advanced ATM Security System', International Journal of advanced Multidisciplinary Research and Studies (IJAMRS), Vol.5, Issue.1, pp.1295-1303, February 2025

R.Jai Chandran, M.Madhavan, S.Manikandan & **M.Paranthaman**, 'Design of Tera Hertz Meta Material Absorber for BioSensing Applications', International Research Journal of Modernization in Engineering Technology and Science (IRJMETS), Vol.07, Issue.03, March 2025, DOI:10.56726/IRJMETS69844

T.Hemnath, P.Kiruthik, V.Manimalan & **N.Jayapal**, 'Efficient CRC - BCH Unified Encoder for Global Positioning System', International journal of Advanced research in computer and communication Engineering (IJARCCCE), Vol.14, Issue.2, February 2025, DOI:10.17148/IJARCCCE.2025.14207.

K.Harish Nithi, S.Manojkumar & **T.Meenal**, 'Brain Tumor Segmentation and Classification Deep Learning with 3D CNN', International Journal of creative Research Thoughts (IJCRT), Vol.13, Issue.3, March 2025, DOI: 10.6084/m9-doi.one.IJCRT25A3404

K.Gowtham, S.Hariprasath, V.Logesh & **V.Krishnakumar**, 'IoT Based Multi-purpose Agricultural Robot', TIJER - International Research Journal, Vol.12, Issue.3, March 2025

R.Jeeva, K.Harish, K.Dineshkumar & **C.P.Niranjana**, 'Optimized and Secured Video Transmission using Steganography', International Journal of Research and Analytical Reviews (IJRAR), Vol.12 Issue.1, March 2025, DOI: <https://doi.org/10.1729/Journal.44445>

S.Eswar, A.Dinesh, S.Sanjay Sudhan & **S.Baskar**, 'Cervical Cancer Diagnosis using Convolutional Neural Networks', International Journal of advanced Multidisciplinary Research and Studies (IJAMRS), Vol.5, Issue-2, PP.71-75, April 2025 DOI: <https://doi.org/10.62225/2583049X.2025.5.2.3811>

M.Dharmalingam, V.Dharshana, N.Durka & V.Kayalvizhi, 'Designing Robust OFDM System using MATLAB', International Journal of creative Research Thoughts (IJCRT), Vol.13, Issue.3, March 2025

R.Dhanabal, M.V.Dayanithi & **T.Beni Steena**, 'Smart Health Monitoring and Emergency Assistance Systems for Drivers', International Scientific Journal of Engineering & Management (ISJEM), Vol.04, Issue.03, DOI:10.55041/ISJEM02345, March 2025

S.Christober Lawrance, R.Hari Prakash, P.Jeeva & **A.Mohan Kumar**, 'ESP32-based Blockchain -Enabled IoT Network for Secure Data Sharing', International Journal of Scientific Development and Research (IJS DR), Vol.10, Issue.2, DOI Member ID: 10.56975, February 2025.

P.Elaiyaraja, M.Anitha & K.Gayathri devi, 'Autonomous Breaking System for Motorized Vehicle', International Journal of creative Research Thoughts(IJCRT), Vol.13, Issue.3, pp.g109-g116, March 2025

K.Akilan, P.Daraniswar, M.Madhankumar & **C.Srinivasan**, 'Smart Food Sharing Hubs for Sustainable Communities', International Scientific Journal of Engineering & Management (ISJEM), Vol.04, Issue.03, DOI:10.55041/ISJEM02360, ISSN:2583-6129, March 2025

D.Preethiga, D.Sathya, M.Sathasri & **S.Baskar**, 'Footcheck :Advance Detection of Diabetic Ulcer using AI - Driven Image and Text Processing', International Journal of Science, Engineering and Technology (IJSET), Vol.13, Issue.2, DOI: /10.61463/ijset.vol.13.issue2.200, March 2025

K.Subalakshmi, S.Suvedha, D.Vanitha & **K.Yazhini**, 'Enhancing Aviation Safety through Secure Controller-Pilot Data Link Communication Protocols', International Journal of Science, Engineering and Technology (IJSET), Vol.13, Issue.2, DOI: /10.61463/ijset.vol.13.issue2.203, March 2025

G.Sowmiya, R.Sophia, R.Sindhuja & **T.Dineshkumar**, 'Hybrid Infrastructure for Enhanced Link Defense using Quantum Security and Dynamic Channel Hopping', International Journal of Science, Engineering and Technology (IJSET), Vol.13, Issue.2, DOI: /10.61463/ijset.vol.13.issue2.204, March 2025

S.Meenachi Sri, S.M.Nandhini, M.Naveena & **M.Dharmalingam**, 'Future of Online Bike Rental System in Smart Cities', International Journal of Scientific Research and Engineering Trends(IJSRET), Vol. 11, Issue 2, DOI: 10.61137/ijset.vol.11, Issue 2.208, March 2025

K.Preethi, K.Preethiga, S.Shanmugapriya & **V.Krishna kumar**, 'Cryptographic Encryption for Secure Data', International Journal of Science, Engineering and Technology (IJSET), Vol.13, Issue. 2, DOI: /10.61463/ijset.vol.13.issue2.202, March 2025

S.Narmadha, N.G.Parkavi, K.Ranjani & **T.Beni Steena**, 'Intelligent Insights into Safety Helmet Usage with Deep Learning', International Journal of advanced Multidisciplinary Research and Studies (IJAMRS), Vol.5, Issue.2, PP.1139-1144, April 2025

G.Vindhya Shri, S.Visalini, G.Narmatha & **C.P.Niranjana**, 'Self - Defence Smart Device', International Journal of advanced Multidisciplinary Research and Studies (IJAMRS), Vol.5, Issue.2, PP.1161-1166, April 2025

N.Jayapal, S.Priyadharshini, R.Prithika Shree & K.Pavithra, 'CNN-Based Approach for Automated Rice Leaf Disease Identification', International Journal of creative Research Thoughts(IJCRT), Vol.13, Issue.3, March 2025

S.Janani, S.Lavanya, S.Manju shri & **K.Yazhini**, 'Maximizing LifeTime of IoT -based Hetero WSNs for Sustainable Smart City Application', International Journal of Scientific Research and Engineering Trends (IJSRET), Vol.11, Issue.2, DOI: 10.61137/ijret.vol.11.issue2.207, March 2025

R.Abinaya, V.Dharanish, R.Kavyasri & **S.Lalitha**, 'Window Cleaning Device', International Journal of Scientific Research and Engineering Trends (IJSRET), Vol.11, Issue.2, DOI: 10.61137/ijret.vol.11.issue2.211, March 2025

S.Dhanush, R.Deepan, M.Chandru & **M.Geethalakshmi**, 'Micro Architect on RISC-VISA', International Journal of Science, Engineering and Technology(IJSET), Vol.13, Issue.2, DOI: /10.61463/ijset.vol.13.issue2.201, March 2025

V.Asmitha, V.Jaya Malini, M.Manisha & **K.Amudha**, 'A Collision Free MANET Communication Framework for Direct Connectivity', International Journal of Scientific Research and Engineering Trends (IJSRET), Vol.11, Issue.2, DOI:10.61137/ijret.vol.11.issue2.210, March 2025

S.Kishore, G.Akilesh, K.Kugan & **V.Bharathi**, 'Smart PCB Defect Detection for Industry using CNN Algorithm', International Journal of Computer science Trends and Technology (IJCTT), Vol.13, Issue.2, DOI:10.33144/23478578/IJCTT-V13I2P6, April 2025

B.Aarthi, S.P.Dharshana, K.Dharshini & **S.Hari Kumar**, 'Voice Controlled Wheelchair with Fall Detection Using IoT', International Journal of Scientific Research and Engineering Trends (IJSRET), Vol.11, Issue.2, ISSN:2395-566x, DOI: 10.61137/ijret.vol.11.issue2.206, March 2025

R.Banupriya, R.Nagarajan, K.R.N.Kalis & J.Manjushree Kumari, 'Implementation of the novel multiple-input multiple-output power conversion system for applications in a micro-grid', Journal for control, Measurement, Electronics, Computing and Communications, pp.117-132 DOI:<https://doi.org/10.1080/00051144.2025.2459825>, February 2025

★ Students won in competitions, (Curricular/Extra Curricular Activities)

Santhiya S, Tharun K K & Yohendra Prakash G of III year Electronics and Communication Engineering department won II prize in the event 'Hackathon' Organized by Kongunadu college of engineering and Technology, Thottiam from 25th to 26th March 2025

Subhasri P & Subashree K of III year Electronics and Communication Engineering department won II prize in the event 'See for me' Organized by AVS Engineering College, Salem on 22nd March 2025

Nalineshwaran P of II year & Karthikeyan M of III year Electronics and Communication Engineering department won cash prize Rs.10,000/- in the event 'Project Expo' Organized by Velammal College of Engineering and Technology, Chennai on 21st March 2025

Narmatha R of III year Electronics and Communication Engineering department won II prize in the event 'Techstrom-Technical Event' Organized by Sri Ramakrishna College of Engineering, Trichy on 17th March 2025

Sukesh M of III year Electronics and Communication Engineering department won II prize in the event 'Project War' Organized by PSG Institute of Technology and Applied Research, Coimbatore on 15th March 2025

Preethi N, Shobana V & Viveka sri S of III year Electronics and Communication Engineering department won II prize in the event 'Project Presentation' Organized by National Engineering College, Trichy from 14th to 15th March 2025

Karthikeyan M of III year Electronics and Communication Engineering department won I prize in the event 'Project presentation' Organized by KPR institute of Engineering and Technology, Coimbatore on 14th March 2025

Priya Dharshini S & Sheeral Dharshini S of II year Electronics and Communication Engineering department won II prize in the event 'Non-Technical connections' Organized by K.Ramakrishnan College of Engineering, Trichy from 6th to 7th March 2025

Gowtham K, Hari Prasath S & Logesh V of IV year Electronics and Communication Engineering department received best paper award in the event 'Project Presentation' Organized by Karpagam Academy of Higher Education, Coimbatore on 4th March 2025

Karthikeyan M of III year Electronics and Communication Engineering department won III prize in the event 'Hackathon' Organized by Annasaheb Dange College of Engineering and Technology, Ashta from 27th to 28th February 2025

Nalineshwaran P, Prabhakaran P & PraveenRaj of II year Electronics and Communication Engineering department won I prize in the event 'Project Presentation' Organized by Selvam College of Technology, Namakkal on 27th February 2025.

Kowsika S, Praveenraj K, Sabitha S & Seshadri S of III year Electronics and Communication Engineering department won I prize in the event 'Hackathon' Organized by Kongunadu college of engineering and Technology, Thottiam from 21st to 22nd February 2025

Ashan Mohamed A & Hemanathan G of II year Electronics and Communication Engineering department received cash prize Rs.500/- in the event 'Paper Presentation' Organized by Sri Eshwar College of Engineering, Coimbatore from 20th to 22nd February 2025

Santhiya S, Tharun K K & Yohendra Prakash G of III year Electronics and Communication Engineering department won I prize in the event 'Poster presentation' Organized by Karpagam Academy of Higher Education, Coimbatore on 17th February 2025.

Santhiya S, Tharun K K & Yohendra Prakash G of III year Electronics and Communication Engineering department won II prize in the event 'Circuit Debugging' Organized by Karpagam Academy of Higher Education, Coimbatore on 17th February 2025.

Karthikeyan R of III year Electronics and Communication Engineering department won I prize in the event 'Hackathon' Organized by Kongunadu college of engineering and Technology, Thottiam from 12th to 13th February 2025

Monika M, Preethi N & Vivekasri S of III year Electronics and Communication Engineering department won III prize in the event 'Paper presentation' Organized by Kongu Engineering College, Perundurai on 1st February 2025

Poojasri S, Poovitha S R & Sakthisri K of III year Electronics and Communication Engineering department won I prize in the event 'Paper presentation' Organized by Kongu Engineering College, Perundurai on 1st February 2025

Santhiya S, Tharun K K & Yohendra Prakash G of III year Electronics and Communication Engineering department won II prize in the event 'Hackathon' Organized by Kongunadu college of engineering and Technology, Thottiam from 31st January to 1st February 2025

★ Industrial Visit

Final Year A Section students of Electronics and Communication Engineering department undergone industrial visit at Ettiksoft Pvt Ltd, Namakkal on 27th March 2025



Final Year B Section students of Electronics and Communication Engineering department undergone industrial visit at Flytutor Technologies Private Limited, Manickampalayam on 10th February 2025



Final Year A Section students of Electronics and Communication Engineering department undergone industrial visit at Kothari Sugars and Chemical Private Limited, Trichy on 7th February 2025



★ Value Added Course

Value Added Course was conducted for second year Electronics and Communication Engineering department titled 'VACEC13 – Industrial Advanced PCB Design' from 30th May to 4th June



★ Internship

- Futogen Technologies Private Limited, Salem
- Nitroware Technologies Private Limited, Coimbatore
- Ets Academy, Erode
- Tech Volt Software Pvt Ltd, Coimbatore
- Infoem Software Solutions, Namakkal
- Media Wave Technologies, Tiruchirappalli
- E2 Infosystems Pvt Ltd, Chennai
- Aiverz Technologies, Tiruchirappalli
- Viwise Tech Software, Tiruchirappalli
- Edify Techno Solutions, Chennai
- Code Bind Technologies, Chennai
- Ilife Academy, Tiruchirappalli
- Litz Tech, Coimbatore
- Mahiltechlab Solutions (OPC) Private Limited, Namakkal
- Gr Soft Tech, Tiruchirappalli
- Knila IT Solutions, Coimbatore
- Green Soft Groups, Tiruchirappalli
- IPCS Global Solutions Pvt. Ltd, Tiruchirappalli
- Front Line Technologies, Karur
- Caliber Embedded, Salem
- Speculation Infotech, Tiruchirappalli
- Tamilnadu Newsprint & Paper Limited, Karur

★ Recruiters:

- Pegatron Technology India Pvt. Ltd.
- VR Della IT Services Pvt. Ltd.
- KG Invicta Services Pvt. Ltd.
- Ettiksoft Technologies Private Limited
- Vintorix Private Limited
- COAPPS Mitsuba SICAL (I) Pvt. Ltd.
- Techvolt Software Pvt.Ltd
- Texmo Industries
- Lumina Datamatics Limited
- OneYes Technologies
- Syrma SGS Technology Limited
- Tessolve Semiconductor Private Limited
- BMS Infra Solutions
- Aarican
- Movate
- SCHWING Stetter
- Infiniti
- Omega Health Care
- Lucas TVS
- Silicon House
- Mobitech Wireless Solution

★ Best Outgoing

Final year student S. Sujitha has been nominated as the Best Outgoing Student of the 2021–2025 batch



VISION

To become an internationally renowned institution in technical education, research and development by transforming the students into competent professionals with leadership skills and ethical values.

MISSION

- ❖ Providing the Best Resources and Infrastructure.
- ❖ Creating Learner - Centric Environment and Continuous Learning.
- ❖ Promoting Effective Links with Intellectuals and Industries.
- ❖ Enriching Employability and Entrepreneurial Skills.
- ❖ Adapting to Changes for Sustainable Development.

QUALITY POLICY

To Strive Continuously for producing the best result in terms of Knowledge, Self-Discipline and application of the Knowledge acquired.

Editorial Board

Chief Editor

Dr. M.Dharmalingam, Prof & Head/ECE

Executive Editor

Dr. K.Amudha, Prof/ECE

Mr. S.Harikumar, AP/ECE

Dr. T.Yuvaraja, ASP/ECE

Mrs. C.P.Niranjana, AP/ECE

Student Editorial Members

Karthikeyan.R, Third Year

Dhayanithii T, Second Year

Sakthi Sri.K, Third Year

Nithishkumar S, Second Year



Kongunadu

College of Engineering & Technology
[Autonomous]

Namakkal - Trichy Main Road, Thottiam, Trichy (Dt) 621 215, Tamilnadu.

Mob : 80125 05000 & 80125 05011 email : admission@kongunadu.org

www.kongunadu.ac.in