

# ERODE SENGUNTHAR ENGINEERING COLLEGE



(An Autonomous Institution)

Approved by AICTE, New Delhi, Permanently Affiliated to Anna University- Chennai,
Accredited by National Board of Accreditation (NBA), New Delhi &
National Assessment and Accreditation Council (NAAC), Bangalore with 'A' Grade
PERUNDURAI -638 057, TAMILNADU, INDIA.

# Department of Electronics and Communication Engineering

# **Newsletter**

# JUNE - DEC 23 WHIZZCOM CHRONICLE



# ECE

# **ABOUT US**

The Department of Electronics and Communication Engineering was started in the year 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.

# **COURSES OFFERED**

B.E. Electronics and Communication Engineering (4 Years) M.E. Applied Electronics courses (2 Years) & Ph.D (3 Years)

# **VISION**

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

# **MISSION**

DM1: Create a Learning Environment to serve the societal needs.

DM2: Impart state of art Technical Education to groom engineers with high professional standards.

DM3: Promote innovative ideas and augment research to improve the quality of life through application of technologies

DM4: Provide high quality ethical engineers for the Benefit of the Society.



## Program Outcomes(PO)

- 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.

### **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.

**PSO3:** Attitude: Develop an attitude of lifelong learning for sustained career advancement and adapt to the changing multidisciplinary profession.

### Programme Educational Objectives (PEOs)

### 1.Comprehend

Impart the learners, an ability to understand and use analytical, academic and communication skills effectively with special emphasis to fulfill societal needs.

### 2.Enthusiasm for Learning

Inspire the beginners to enrich their skills throughout their career by learning about emerging technologies, adapting and accepting the changes to achieve leadership positions in industry or academia.

### **3.Proficient Employment**

Prepare graduates to innovate products/solutions through research to real life problems for boosting the economy of the region and the nation.

### 4. Professional Ethics

Prepare graduates to work effectively as a team and practice ethics in the profession with a sense of social responsibility.



# MESSAGE FROM THE HOD

# Dr.S.Bharathidasan

Welcome to the unveiling of The Department of Electronics and Communication Engineering proudly introduces the "Whizzcom Chronicle" Newsletter for the Academic Year 2023-24, a vibrant showcase of creativity, innovation, and academic excellence. This publication is more than a summary - it is an inspiring spark for students, encouraging them to pursue their passions beyond textbooks and into the realms of invention and achievement. The newsletter stands as a testament to the collective spirit of faculty, students, and staff, highlighting their remarkable milestones and dynamic thoughts. More than just a record, the "Whizzcom Chronicle" is designed as a valuable guide, helping its readers discover meaningful activities and chart new paths in their academic and professional journeys. The magazine brings together ideasfueling curiosity and ambition for every member of the department. Special recognition goes to the Editorial Team, whose meticulous dedication has transformed a year of events and accomplishments into a compelling resource, ready to inform and inspire the entire ECE community.



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# ECE

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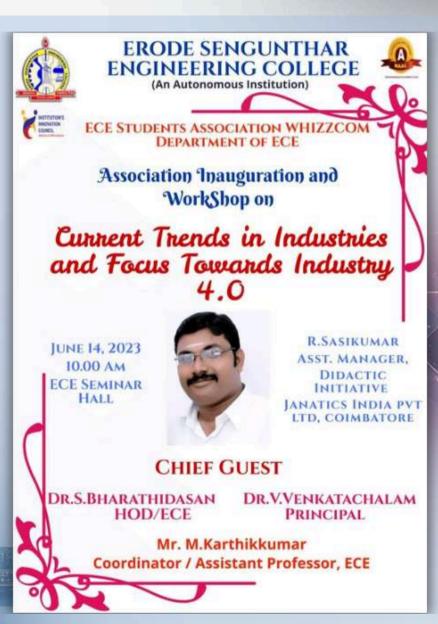


As part of the Inaugural ceremony on June 14, 2023, a seminar titled "Current Trends in the Industries and Focus towards Industry 4.0" was organized. The session was skillfully handled by Mr. R. Sasikumar, Assistant Manager, Didactic Initiative, Janatics India Pvt. Ltd., Coimbatore, providing valuable insights into emerging industrial movements and best practices shaping the future workforce.











It is our immense pleasure to inform you that the Department of ECE in association with ECE Student's Association WHIZZCOM is organizing a workshop entitled "Interview Cracking Skills, Attitude and Behaviour Development" on 15.06.2023 at 10 AM at ECE Seminar Hall. The chief guest for the event is Mr.R.Gowtham, Software Engineer, Kaar Infotech. The objective of this program is to make the students to enhance skills required to crack any interview.







# ERODE SENGUNTHAR ENGINEERING COLLEGE

(An Autonomous Institution)

ECE Students Association WHIZZCOM
Department of ECE



WorkShop on

Interview Cracking Skills, Attitude and Behaviour Development

June 15, 2023 At 10.00 Am



ECE Seminar Hall

Chief Guest R.Gowtham, Software Engineer Kaar Infotech

Dr.S.Bharathidasan HoD/ECE Dr. V. Venkatachalam Principal

Mr. M. Karthikkumar Coordinator / AP, ECE



It is our immense pleasure to announce that ESEC Incubation Centre and Department of ECE in association with Virtual Frontier Robotics Pvt. Ltd, CBE organize a hands on training program on PCB Milling Machine on 17.06.2023 at 10. A.M for the faculty members.

Parity Steel



### **ESEC-Incubation Centre**

Department of Electronics and Communication Engineering & Electronics and Instrumentation Engineering

Virtual Frontier Robotics Private Limited, CBE

Organize

Hands-on Training Program on

# PCB MILLING MACHINE

17.86.2023 to 19.86.2023 Venue : ESEC-Incubation Centre









### ORGANIZING COMMITTEE

Dr.V.Venkatachalam Principal

Mr.T.Maris Murugan Associate Professor and Head / EIE

Dr.S.Bharathidasan Associate Professor and Head / ECE

> Mr.S.Gladson Asst. Prof. / ECE Event Coordinator









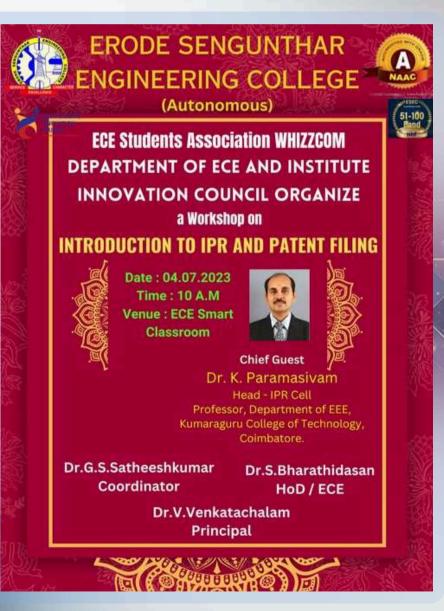
The SERB-sponsored workshop on "Analog and Mixed Signal VLSI Design & Prototyping using open source EDA Tools" was expertly conducted by Mr. V. Gowrishankar, Associate Professor from Coimbatore, during June 19-23, 2023. The workshop provided an intensive exploration of VLSI design concepts, practical prototyping techniques, and hands-on experience with advanced open-source EDA tools, equipping attendees with essential theoretical and applied knowledge for future advancements in VLSI technology.





It is our pleasure to announce that the Department of ECE in association with Institute Innovation Council (IIC) organize a oneday Workshop entitled "Introduction to IPR and Patent Filing" on 04.07.2023 at 10 A.M in ECE Smart Classroom for the III year and IV year students. The chief guest for the event is Dr. K. Paramasivam, Head - IPR Cell, Professor, Department of EEE, Kumaraguru College of Technology, Coimbatore. The objective of the program is to create an awareness among students about the benefits of Intellectual Property in all sections of society.







We are delighted to share the post event report of a one day Workshop entitled "Choose Your Career Right Now in Industrial Automation" organized by ECE Student's Association and The Department of ECE in association with Institute Innovation Council held on 07.07.2023 Friday at ECE Smart Classroom. The Resource Person for the event Mr. M. Nagarajan, M.E., MBA., (Ph.D)., IIOT Staff, Sharadha Skill Academy, Coimbatore delivered a wonderful session on Career Opportunities and advancements in Industrial Automation.









A workshop on "Recent Trends in AI & ML" was conducted with Dr. R. Senthilkumar, AI Developer from Initz Technologies Ltd., Coimbatore, as the resource person on July 10, 2023. A workshop on "Recent Trends in AI & ML" was conducted with Dr. R. Senthilkumar, AI Developer from Initz Technologies Ltd., Coimbatore, as the resource person, on July 10, 2023.













It is our pleasure to announce that the Department of ECE and Student's Association WHIZZCOM jointly organize a seminar on "MM Radar Applications in Embedded Systems" on 17.07.2023 at 10 A.M through online platform. The chief guest for the session is Mr. S. Ramachandran, Embedded Engineer, Thiyagarajar Telekom Pvt. Ltd., Madurai.

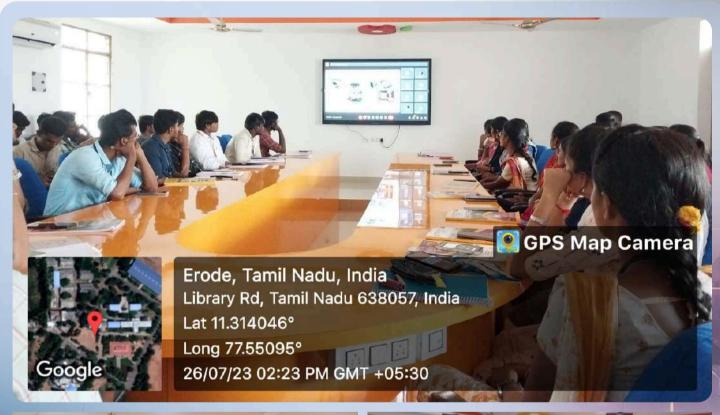




An industrial visit to Mas Solar Systems Pvt. Ltd., Coimbatore, was organized on July 21, 2023.



We are extremely happy to share that the Department of ECE and Student's Association WHIZZCOM jointly organizes a seminar on "Future Opportunities for Embedded Engineers" on 26.07.2023 at 10 A.M through online platform. The chief guest for the session was Mr. S. Ramachandran, Embedded Engineer, Thiyagarajar Telekom Pvt. Ltd., Madurai who delivered a lecture on the opportunities and trends available for Embedded Engineers.









We feel privileged to share that the Department of ECE, ESEC in association with TNSCST under the scheme of Dissemination of Innovative Technology (DIT) organized a 3 days Workshop on "Smart, Precision and Automatic Farming (Agriculture) through Modern ICT" from 21.08.2023 to 23.08.2023 at ECE Smart Classroom for the farmers of Erode District. All the sessions were useful to the farmers to learn about recent technologies and automation in Agriculture sector.

















TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY (Department of Higher Education, Government of TamilNadu)

DOTE Campus, Chennai- 600 025



[An Autonomous Institution]
Perundurai, Erode-638057

Cordially Invites you for the

workshop on

"Smart, Precision and Automatic Farming (Agriculture) Through Modern ICT"

Venue : ECE, SMART CLASSROOM

21.08.2023 to 23.08.2023

# All are invited

### **Chief Guest**

Mr. A. Prabhakaran Assistant professor (Grade II), Kumaraguru college of Technology, Coimbatore

In the presence of

Dr.V.Venkatachalam Principal,ESEC Thiru. G. Kamalamurugan Correspondent, ESEC



Dr.R.Kalaivani, Professor, Department of ECE, Erode Sengunthar Engineering College, handled a session entitled "Design Thinking" on 24.08.2023 for the students of Surya Engineering College.





Dr.R.Kalaivani, Professor, Department of ECE delivered a lecture on "Design Thinking and Innovation" for III ECE Students held on 28.08.2023 (AN) at ECE Smart Classroom organized by the Department of ECE in association with Institute Innovation Council (IIC).

The Department of ECE and Institute Innovation Council together organized a session on "Intellectual Property Rights" on 28.08.2023 (FN) for III Year ECE students at ECE Smart Classroom. The session was handled by Dr.R.Kalaivani, Professor, ECE.



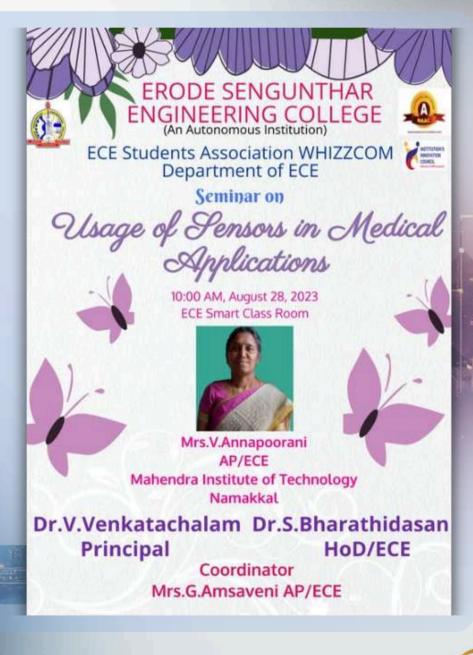


It is our immense pleasure to share the post event report of the Seminar titled "Usage of Sensors in Medical Applications" held on 28.08.2023 at ECE Smart Classroom organized by the Department of ECE and its Student's Association Whizzcom. Mrs.V.Annapoorani, Assistant Professor, Department of ECE, Mahendra Institute of Technology, Namakkal explained about the various sensors used in medical applications and its importance.













The Department of ECE and its Student's **Association "WHIZZCOM"** jointly celebrate the Teacher's Day 2023 on 05.09.2023 at ECE Seminar Hall. We cordially invite everyone to solicit your presence and make the occasion a grand success











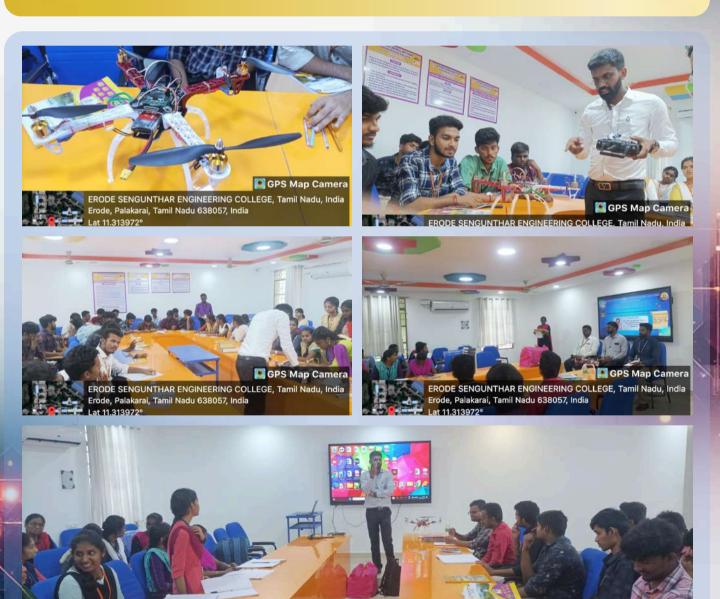








It gives us immense pleasure to share the post event report of the two days Workshop on "Flytech Drone Assembly Edition" organized by department of ECE in association with its student's Association WHIZZCOM held on 26.09.2023 and 27.09.2023 at ECE Smart Classroom. The chief guest for the event was Mr.Vijay Rajendran, M.B.A., DGCA Certified Drone Pilot, Accent Techno Soft, Coimbatore delivered a hands on session on Drone Assembly and Drone piloting. Overall the session was useful to all the students those who attended and learnt about Drone Technology.





We are delighted to share that the Department of ECE through their student's Association WHIZZCOM had visited "Bharathiyar Orphanage", Chennimalai. A team of faculty members and Students represented the visit by having conducted cultural events and fun games for the childrens. We also provided food to 50 childrens and shared some gifts as a part of this outreach activity. Here We would take this opportunity to thank our Management, Principal sir and Head of the Department, professors and students for their support and contribution.









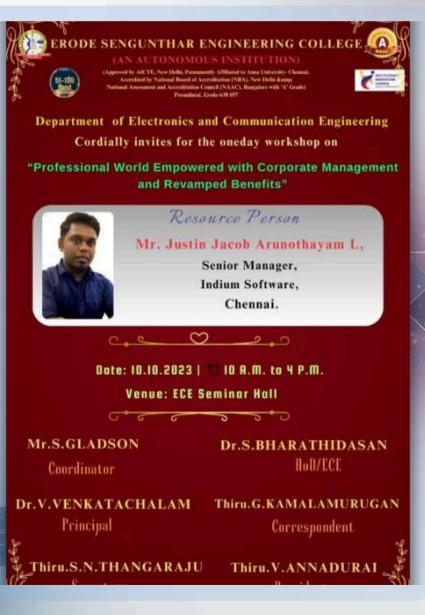






We are enthralled to announce that the Department of ECE is organizing an oneday workshop under the title "Professional World Empowered with Corporate Management and Revamped Benefits" on 10.10.2023 Tuesday at 10 A.M. at Main block seminar hall. The chief guest for the event is Mr. Justin Jacob Arunothayam L, B.Tech., M.B.A., Senior Manager, Indium Software, Chennai. The objective of thei program is to enhance the student's Soft skills and Resume building capability towards employment.







We feel privileged to announce that the Department of ECE is organizing a Ministry of Earth Science (MoES) sponsored two days seminar on "AI Enabled Soft Sensor & Green Internet of Things for Sustainable Agriculture" from 18.10.2023 to 19.10.2023 at ECE Smart Classroom. We cordially invite Students, Faculty members, Researchers, Industrial Persons from the field concerned to attend and get benefited



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Department of ECE, ESEC celebrated Saraswathi Pooja and Ayudha Pooja on 20.10.2023 at department premises. All the faculty, staff members and students were a part of the celebration.













We are delighted to share the glimpses of the two days workshop on "Advanced Techniques for Smartphone Troubleshooting" organized by the Department of ECE in association with New Technology Institutions, Coimbatore from 23.11.2023 to 24.11.2023. The chief guest was Dr. B. Krishna Kumar, Founder-CEO, New Technology, Coimbatore. Students were given hands on training on Smartphone service using advanced tools which will be useful for them to make service on their own in future.









# **ERODE SENGUNTHAR** ENGINEERING COLLEGE



(An Autonomous Institution) Perundurai, Erode - 638 057



IN ASSOCIATION WITH

### NEW TECHNOLOGY INSTITUTIONS



HARDWARE AND SOFTWARE INSTITUTE

Organize a Two Days Workshop on

# **ADVANCED TECHNIQUES FOR** SMARTPHONE TROUBLESHOOTING

Resource Person

Dr. B. Krishna Kumar Founder-CEO New Technology, Coimbatore



23, 24 November 2023 ( ) 9.30 A.M - 4:30 P.M





Dr. S. BHARATHIDASAN HoD / ECE

Dr. V. VENKATACHALAM Principal

Thiru G KAMALAMURUGAN

Thiru. S. N. THANGARAJU Secretary

Correspondent

Thiru. V. ANNADURAI

President



We are privileged to share the glimpses of the five days STTP on "Fundamentals of Robotics" organized by the Department of ECE in association with Institution's Innovation Council and Zeekers Employment Pvt. Ltd., Coimbatore from 27.11.2023 to 01.12.2023 at ECE Seminar Hall. The resource person for the event was Dr. S. A. Pasupathy, Ph.D., Founder and Chairman, Zeekers Technology Solutions Pvt. Ltd., Coimbatore who handled the session exceptionally well along with hands on training on Robotics.









Dr.V.VENKATACHALAM, PRINCIPAL



Department of ECE organized a BRNS sponsored three days seminar on "Implementation of Machine Learning and Artificial Intelligence Algorithms in VLSI Design" from 06.12,2023 to 08.12,2023 at ECE Smart Classroom. The session was handled by experts from various reputed Industries and Institute. Students learnt about basics of Machine Learning and AI algorithms and how it could be implemented in VLSI circuit design.







# **ERODE SENGUNTHAR**



(An Autonomous Institution)

DEPARTMENT OF ECE

BRNS SPONSORED



Implementation of Machine Learning and Artificial Intelligence Algorithms in VLSI Design

Resource Persons





Mr.Gunarakulan Gunaretnam, Head at Software Lab. Dream Space Academy, SriLanka.



Dr.S.Arulmurugan, Dept. of ECE, Kongu Engineering College



Mr.S.Kishore, Senior Design Engineer, Cientra Tech solution Pvt. Ltd.,

Bengaluru.

Mr.V.Thamizharasan, AP/ECE



Mr.M.S.Kavin Prasad, Associate Chip Design Verification Engineer, Edveon Technologies, Chennai



Dr.G.Sarayanan. Associate Professor & Head, Dept. of AI & DS, **Erode Sengunthar Engineering College** 

Date: 6th to 8th Dec. 2023 Venue: ECE Smart Class Room

Mr.M.Karthikkumar, AP/ECE







We are extremely happy to share that our II Year students had gone for Industrial Visit to Accent Techno Soft Pvt. Ltd., Coimbatore on 09.12.2023 as a part of co-curricular activity. Students grasped the opportunity to learn about ongoing Industrial live projects and Technologies used







# **R&D PROPOSALS GRANTED/SUBMITTED**

Dr. R. Kalaivani acted as Principal Investigator for the seminar "AI enabled Soft Sensor and Green Internet of Things for Sustainable Agriculture" funded by the Ministry of Earth Science in 2023, with a grant of Rs. 1,00,000, which was successfully completed.

Dr. V. Thamizharsan served as Principal Investigator for the seminar "Analog and Mixing Signal VLSI Design & Prototyping using open source EDA Tools" in 2023, funded by SERB with Rs. 50,000.

Ms. K.R. Priya Dharshini co-coordinated the seminar "AI enabled Soft Sensor and Green Internet of Things for Sustainable Agriculture" in 2023, funded by MOES with Rs. 1 Lakh granted.

Ms. Dhivya Priya E L was Principal Investigator for the project titled "IoT based Low cost compact Dyeing machine using Arduino" under MSME Idea Hackathon 2.0 for the period 2023-24 with a grant of Rs. 13,00,000, which was successfully completed.

Ms. Dhivya Priya E L acted as Principal Investigator for a workshop on "Futuristic Development based IoT 5.0 with Sustainable Development Goals" funded by SERB during 2023–24, which was granted Rs. 100,000 and conducted from November 20, 2023 to December 12, 2023. She also organized a seminar as Principal Investigator titled "National Seminar on Vehicle Tracking and Intelligent Transport System Design with 6G based novel vehicle model" funded by CSIR during 2023–24, with Rs. 20,000 granted, held from October 10, 2023 to December 28, 2023.



Ms. Dhivya Priya E L was the Principal Investigator for the FDP/STC on "Refresher Course in Engineering Physics" sponsored by NITTTR Chandigarh in 2023–24, which was granted Rs. 8,000 and held from October 10, 2023 to December 28, 2023. She also applied as Principal Investigator for several seminars, workshops, and projects with agencies like AICTE, TNSCST, ATAL, UGC, and CSIR during 2023–24 on topics such as IoT-based product development, advanced sensor technologies, smart tarce poultry, online laboratory management, menstrual cycle tracking, and sustainable production in textiles. Multiple proposals are currently under review or have been applied for with different funding agencies.

Ms. Dhivya Priya E L served as Principal Investigator (PI) and applied for various research projects, seminars, workshops, and symposiums in 2023-24 with funding proposals from agencies like TNSCST, MSME Idea Hackathon, INSA, BRNS, ICMR, UGC, and DST SERB. The focus areas included IoT enabled wrist bands for menstrual cycle detection, IoT based poultry and protein enrichment, Bio Morphic Walk Inspired Deep Sea Exploration Device, enhanced farm irrigation, advancements in nuclear physics, streamlined menstrual detection systems, automated production for rural empowerment, AI/ML based cytogenetics, energy-efficient systems for 6G and beyond, and critical communication in ITVS. Funding ranges per project/workshop from Rs. 55,000 up to Rs. 1,200,000, with all proposals marked as applied during 2023. Completion status or funding results are pending for these proposals.

Ms. Dhivya Priya E L served as Principal Investigator for a seminar titled "Two Day National Seminar on Accident Avoidance Algorithms for Improved Public Safety Transportation and Mission Critical Communications," applied to CSIR for a grant of Rs. 135,000 on 22.06.2023.

Mr. S. Gladson, AP/ECE, served as Principal Investigator in September 2023 for the research project "Automatic Train Anti-Collision System using LoRa Technology." He applied for funding from FAER & TNSCST, with a grant amount of Rs. 10,000 each for this initiative.

Mr. S. Gladson, AP/ECE, also acted as Principal Investigator in September 2023 for the research project "Advanced Border Alerting System using LoRa for Fisherfolk." Applications for funding support of Rs. 10,000 each were submitted to FAER & TNSCST for this project.



# PROFESSIONAL SOCIETY MEMBERSHIP

The faculties and students are registered as lifetime members of the following professional societies:

**ISTE** (Indian Society for Technical Education)

IETE (Institution of Electronics and Telecommunication Engineers)

**INSC** (Institute of Scholars)

IAENG (International Association for Engineers)





- Mr. S. Gladson participated in "Navigating Intellectual Property Rights vis-à-vis Emerging Concept of Artificial Intelligence" at Amity University (26.06.2023), gaining insight into IP management for AI technologies.
- Mr. M. Karthikkumar participated in a week-long workshop "Machine Learning Based High Performance and Low Power VLSI System Design and Testing Using FPGA" at the Indian Institute of Information Technology, Tiruchirappalli (10.07.2023 to 16.07.2023), focusing on efficient VLSI design.
- Ms. M.A. Asuvanti attended the seven-day workshop "Machine Learning Based High Performance and Low Power VLSI System Design and Testing Using FPGA" at Indian Institute of Information Technology, Tiruchirappalli (10.07.2023) to 16.07.2023), enhancing her machine learning and hardware skills.
- Mr. S. Gladson participated in a seven-day SERB Sponsored High End Workshop on "Machine Learning based High Performance & Low Power VLSI System Design and Testing using FPGA" at Indian Institute of Information Technology, Tiruchirappalli (10.07.2023 to 16.07.2023), where he expanded his expertise in machine learning hardware and VLSI system optimization.
- Dr. S. Karthick completed a five-day workshop on "Wearable Devices and AI & ML" at the National Institute of Technology, Trichy (17.07.2023 to 21.07.2023), updating his knowledge about the intersection of wearable technology and artificial intelligence.
- Ms. C. Mekala joined the "Wearable Devices and AI & ML" workshop at the National Institute of Technology, Trichy (17.07.2023 to 21.07.2023), exploring applications of artificial intelligence in wearable tech.
- Mr. S. Gladson attended the "Introduction to Embedded Systems and Robotics" workshop at Aarupadai Veedu Institute of Technology, Chennai, associated with e-Yantra, MoE, Government of India (28.07.2023 to 29.07.2023), gaining practical insights in embedded systems and robotics development.
- Ms. M.A. Asuvanti also participated in "Introduction to Embedded Systems and Robotics" at Aarupadai Veedu Institute of Technology, Chennai (28.07.2023 to 29.07.2023), expanding her understanding of robotics systems.

- Ms. K.R. Priyadharshini was part of the "VLSI to System Design Silicon to End Application Approach" workshop by AICTE-ARM Education and STM Electronics (31.7.2023 to 4.8.2023), focusing on integrated system design
- Mr. S. Gladson joined a five-day workshop "VLSI to System Design: Silicon to End Application Approach" organized by AICTE-ARM Education and STM Microelectronics (31.07.2023 to 04.08.2023), learning advanced VLSI and system integration concepts.
- Dr. R. Kalaivani participated in the "International Workshop on Research Article Writing and Research Funding" organized by Knowledge Research Academy on 18.08.2023, gaining valuable insights into publishing and funding strategies.
- Ms. K.R. Priyadharshini participated in "Research Article Writing and Research Funding" at Knowledge Research Academy (18.8.2023) to improve her research writing and grant application skills.
- Dr. R. Kalaivani attended a workshop on "Awareness on Outcome Based Education and NBA Accreditation" hosted at ESEC on 29.08.2023, where she learned about accreditation processes and educational quality standards.
- Ms. K.R. Priyadharshini attended a "Cyber security" workshop organized by Novitech The Innovation Partner (31.8.2023), strengthening her knowledge of digital security.
- Mr. S. Gladson participated in the "Cyber Security" workshop at Novitech R&D Private Limited on 31.8.2023, where he strengthened his understanding of cybersecurity best practices.
- Ms. Dhivya, Dr. M. Sundaram, Ms. K.R. Priyadharshini, joined the two-day seminar "Security Wireless Communication in Defence: The Importance of Cyber Security" at KPR Institute of Engineering and Technology, Coimbatore, on 03.11.2023 & 04.11.2023 to deepen his understanding of modern cyber defense systems.

# FDP/STTP ATTENDED

- Dr. R. Kalaivani attended FDPs on research tools and current trends in engineering (Eswari Engineering College & Sree Sakthi Engineering College).
- Dr. S. Poorani joined FDPs focused on research tools and paradigm changes in technology.
- Dr. M. Sundaram participated in seminars and FDPs about emerging technologies and wireless communication (KPR and Eswari Engineering).
- Dr. S. Karthick improved knowledge on AI, wearable devices, VLSI system design, and energy conservation domains in engineering.
- Dr. S. Bharathidasan joined FDPs on research tools and technology changes.
- Mr. M. Karthikkumar, Mr. S. Gladson, Ms. M.A. Asuvanti, Ms. C. Mekala, Ms. K.R. Priyadharshini, Ms. Dhivya, Ms. J.S. Sharanyanivasini, Ms. D. Viji, Ms. N. Gomathi, participated and contributed in workshops/FDPs on machine learning, embedded systems, robotics, VLSI, cybersecurity, research and development, patent drafting, and human values for technical education at major technical institutions and universities.



### **FACULTY ONLINE COURSE**

Ms.R. Savitha successfully completed multiple online courses on June 13, 2023, and achieved a passing result as a participant in each. The courses included "Machine Learning," "Python for Data Science," "PG Certification in ML-AI," "Computer Vision," "Deep Learning with Tensorflow Keras (DL30720210)," "Softskills + Interview Preparation," "Artificial Intelligence," and "Microsoft Certification for Python (MSP-13112021)." Each of these certifications demonstrates R. Savitha's commitment to learning core concepts in machine learning, artificial intelligence, Python data science, computer vision, deep learning frameworks, as well as essential professional and soft skills through recognized online platforms and certification programs.

Mr.S. Gladson participated in a six-day value added course titled "Navigating Intellectual Property Rights Vis-a-Vis Emerging Concept of Artificial Intelligence," conducted online by Amity University, Uttar Pradesh, from June 26, 2023 to July 1, 2023. The course focused on understanding the dynamic relationship between intellectual property rights and the evolving landscape of artificial intelligence, offering participants insights from industry experts and legal professionals.

On September 19, 2023, Completed the "MATLAB Onramp" self-paced training course offered online by MathWorks. This course introduced fundamental MATLAB skills through practical exercises, enabling participants to build a foundation in using MATLAB for scientific and engineering computations.

# FACULTY AS REVIEWER IN CONFERENCES AND JOURNALS

Mr. V. Thamizharasan has reviewed the paper "Design a novel 1-bit full adder with hybrid logic for full-swing, area-efficiency and high-speed" for the journal "Analog Integrated Circuits and Signal Processing," published by Springer, SCI indexed, ISSN 1573-197, in November 2023. Impact factor: 1.2.

#### Ms. Dhivya Priya E L has reviewed the following:

"A Comparative Study on Performance of Multiple Disease Predictions using Machine Learning and Deep Learning Algorithms," "Cost Effective Generic Machine Learning Operation: A Case Study," and "Real-time Accident Detection and Alert System using CCTV Footage and License Plate Recognition" for the IEEE International Conference on Data Science and Network Security (ICDSNS) with IEEE Bangalore Section, published by Kalpataru Institute of Technology, Tiptur, on 28 and 29 July 2023.

"Detection and Reduction of Fire in LiB System of Electric Vehicle - A Review," "Plant Sickness Recognition using Deep Learning Algorithm," and "Revolutionizing in Store Payment Using Skart RFID system" for the AICTE Sponsored IEEE International Conference on Networks, Multimedia and Information Technology (NMITCON) INDIA, Nitte Meenakshi Institute of Technology, Bengaluru, on 1 and 2 September 2023.

"Literature Survey: A Survey on Stock Market Prediction using LSTM and Gradient Descent," "Kids Friendly Smart Gadget" for the IEEE International Conference on Integrated Intelligence and Communication Systems (ICIICS—2023), Sharnbasva University, Kalaburagi, on 24 & 25 November 2023. Book chapter titled "Impact of Genetic Algorithm for the Diagnosis of Breast Cancer: Literature Review" for the book "Advanced Concepts in Medicine and Medical Research," B P International, reviewed on 02-Dec-23.

#### **FACULTY AWARD**



DR. R. KALAIVANI RECEIVED
THE "OUTSTANDING
CONTRIBUTION IN
RESEARCH" AWARD FOR THE
ACADEMIC YEAR 2023-2024
FROM ESEC.

#### **RESOURCE PERSON**



Ms. E.L. DhivyaPriya served as the resource person for the Ministry of Earth Science (MoES) sponsored workshop titled "AI Enabled Soft Sensor & Green Internet of Things for Sustainable Agriculture" on October 18, 2023. The event was focused on "Smart Green Houses" and was organized by the Department of ECE at Erode Sengunthar Engineering College, Erode. The workshop was conducted in offline mode.

#### **CONFERENCE PUBLICATIONS**

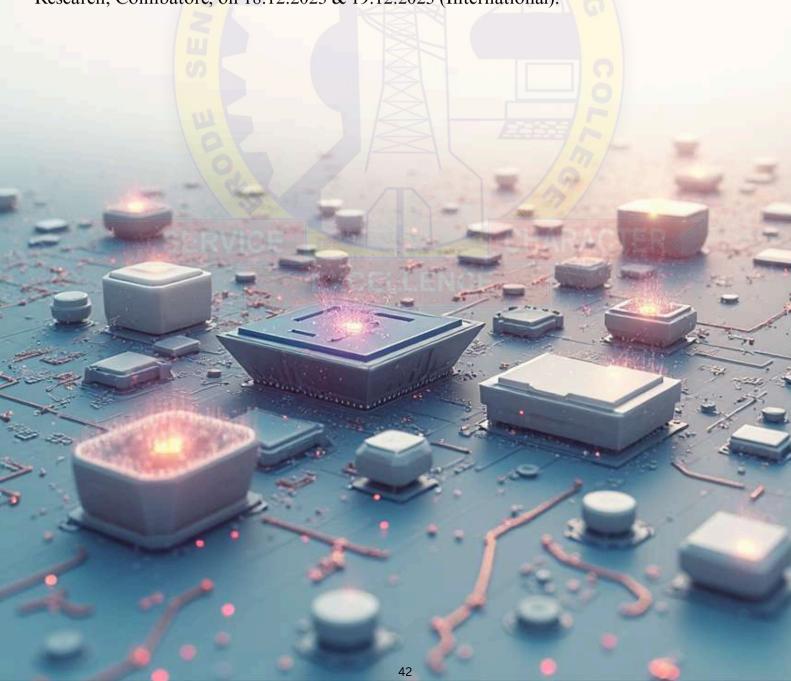
- Ms. K.R. Priya Dharshini has published the paper "Analysis on Modulation and Demodulation techniques for Visible Light Communication" at International IEEE Conference, IIIT Kottayam, IIT Kottayam on 15.03.2023 & 16.03.2023 (International).
- Dr. R. Kalaivani has published the paper "The Role of 5G Networks in Energy-Efficient Smart Cities Development using IoT" at the 2nd International Conference on Applied Artificial Intelligence and Computing (ICAAIC), R P Sarathy Institute of Technology, Salem, on 5.06.2023 to 07.06.2023 (International).
- Dr. R. Kalaivani has published the paper "Design And Analysis Of Wallace Tree Based Multiplier Using Approximate Adders For Improving The Execution Rate Of Electronic Circuits" at the 4th International Conference on Engineering and Advancement in Technology, Malla Reddy Institute of Engineering and Technology, on 16.6.2023 & 17.6.2023 (International).
- Dr. S. Poorani has published the paper "Design And Analysis Of Wallace Tree Based Multiplier Using Approximate Adders For Improving The Execution Rate Of Electronic Circuits" at the 4th International Conference on Engineering and Advancement in Technology, Malla Reddy Institute of Engineering and Technology, on 16.6.2023 & 17.6.2023 (International).
- Mr. V. Thamizharasan has published the paper "Design and analysis of Wallace tree-based multiplier using Approximate adders for improving the execution rate of electronic circuits" at the 4th International Conference on Engineering and Advancement in Technology, Malla Ready College of Engineering, Hyderabad, on 16.06.2023 & 17.06.2023 (International).
- Mr. M. Karthikkumar has published the paper #16298c at the 4th International Conference on Engineering and Advancement in Technology, Malla Ready College of Engineering, Hyderabad, on 16.06.2023 & 17.06.2023 (International).
- Mr. M. Balamurugan has published the paper "Design And Analysis Of Wallace Tree Based Multiplier Using Approximate Adders For Improving The Execution Rate Of Electronic Circuits" at SNI, Malla Reddy Institute of Engineering and Technology, on 16.6.2023 & 17.6.2023 (International)

- Mr. S. Gladson has published the paper "Design And Analysis Of Wallace Tree Based Multiplier Using Approximate Adders For Improving The Execution Rate Of Electronic Circuits" at the 4th International Conference On Engineering And Advancement In Technology 2023 (ICEAT 16th & 17th June 2023), Malla Reddy Institute of Engg and Technology, Telangana, on 16.06.2023 & 17.06.2023 (International).
- Ms. N.R. Ragapriya has published the paper "Designing and Validating an MD5 HASH Algorithm using the UVM Verification Framework and Checkers" at the 14th International Conference on Computing, Communication and Networking Technologies (ICCCNT), IIT Delhi, on 06.07.2023 to 08.07.2023 (International).
- Ms. J. S. Sharanyanivasini has published the paper "A Novel Hybrid Approach to smart door locking system based on real time data transmission" at the 14th International Conference on Computing, Communication and Networking Technologies (ICCCNT), IIT Delhi, on 06.07.2023 to 08.07.2023 (International).
- Ms. Dhivya Priya E L has published the paper "Design of Intelligent Wireless Networks for Optimized Spectrum Utilization with Cognitive Radio" at the 2023 Fourth International Conference on Advances in Physical Sciences and Materials (ICAPSM 2023), KPR Institute of Engineering and Technology, Coimbatore, Tamil Nadu, on 17.08.2023 & 18.08.2023 (International).
- Ms. J. S. Saranyanivasini has published the paper "Optimal Load flow analysis for distribution generation in radial distribution systems using modified Newton Raphson Methods" at the International Conference on Self Sustainable Artificial Intelligence Systems (ICSSAS-2023), M.P. Nachimuthu M. Jaganathan Engineering College, on 18.10.2023 to 20.10.2023 (International).
- Ms. D. Viji has published the paper "Optimal Load flow analysis for distribution generation in radial distribution systems using modified Newton Raphson Methods" at the International Conference on Self Sustainable Artificial Intelligence Systems (ICSSAS-2023), M.P. Nachimuthu M. Jaganathan Engineering College, on 18.10.2023 to 20.10.2023 (International).
- **Dr. S. Karthick** has published the paper "Diagnosis System for detecting Melanoma" at the International Conference On Current Trends In Modernized Computing and Communication Technologies (MCCT 2023), Institute of Computer Science and Engineering, SIMATS, on 11.10.2023 (International).

**Dr. S. Karthick** has published the paper "Artificial Intelligence Based Smart Farming and Data Collection Using Deep Learning" at the 2023 International Conference on Sustainable Communication Networks and Application (ICSCNA), IEEE, on 15.11.2023 to 17.11.2023 (International).

**Dr. S. Karthick** has published the paper "Energy Efficient Clustering and Routing Algorithm using Deer Hunting Optimization in Wireless Sensor Networks" at the 7th International Conference on Electronics, Communication and Aerospace Technology (ICECA), RVS Technical Campus, Coimbatore, on 22.11.2023 to 24.11.2023 (International).

Ms. M.A. Asuvanti has published the paper "Artificial Intelligence Techniques based Energy Prediction Analysis and Load Forecasting using a Dynamic website" at IEEE sponsored International Conference on Intelligence Technologies for Sustainable Electric and Communications Systems (iTech SECOM), PSG College of Technology and Applied Research, Coimbatore, on 18.12.2023 & 19.12.2023 (International).



### PATENT PUBLICATIONS

- Ms. Dhivya Priya E.L., Dr.T.S.Senthil, and Nalifa Begam J. have published the patent "Quad-renk Boya Makine" on 23.06.2023, Application No. 202341041876 (Published).
- Ms. K.R. Priya Dharshini has published the patent "Web based system for sign recognition and sign translation" on 23-06-2023, Application No.202341032621A (Published).
- Dr. S. Karthick has published the patent "Artificial Intelligence Based Stress Detection Device" on 17.07.2023, Application No. 390565-001 (Granted).
- Mr. S. Gladson has been granted the UK patent "IOT based Bio gas leakage detecting device" on Filing Date: 01.08.2023, Publication Date: 11.08.2023, DESIGN NO: 6300562.
- **Dr. S. Bharathidsan** has published the patent #16298c on 11.8.2023, DESIGN NO :63005623 (Grant).
- Ms. K.R. Priya Dharshini has been granted the patent "Gas Leakage Detecting Device" on 11.8.2023, DESIGN NO:63005623.
- Ms. J. S. Sharanyanivasini has published the patent "Compact Finger Wearable Mouse" on 21.09.2023, Application No. 395641-001 (Published).
- **Dr. R. Kalaivani** has published the patent "Recycling of waste water and water management into irrigation water in smart cities using IoT" on 05.09.23, Application No. 202341059449 (Published).
- Ms. J. S. Sharanyanivasini has published the patent "A Portable Device For Monitoring And Improving Hand Hygiene Compliance In Healthcare and Other Industries" on 06.10.2023, Application No. 202341056746A (Published)

### **FACULTY COORDINATORS**

**Dr. V. Thamizharsan** successfully completed two workshops in 2023. The first workshop, "Analog and Mixed Signal VLSI Design & Prototyping using open-source EDA Tools," was conducted from June 19, 2023, to June 23, 2023, funded by SERB with a grant of Rs. 50,000.

Ms. K.R. Priya Dharshini acted as Co-Coordinator in two events. She co-coordinated a Faculty Development Program (FDP), "Refresher course in Engineering Physics," held from July 17, 2023, to July 28, 2023, at NITTTR, Chandigarh.

The second workshop by Dr. V. Thamizharsan, "Smart, Precision and Automatic Farming (Agriculture) through Modern ICT (Information and Communication Technologies)," was held from August 21, 2023, to August 23, 2023, funded by TNSCST, also with a grant of Rs. 50,000.

Ms. K.R. Priya Dharshini also co-coordinated a seminar, "AI enabled soft sensor and Green Internet of Things for Sustainable Agriculture," held from October 18, 2023, to October 19, 2023, sponsored by MOES, with a grant of Rs. 1 Lakh.

Dr. V. Thamizharsan also completed a seminar, "Implementation of Machine Learning and Artificial Intelligence Algorithm in VLSI Design," held from December 6, 2023, to December 8, 2023, funded by BRNS with a grant of Rs. 50,000.

Dr. R. Kalaivani completed a conference in 2024 on "AI-driven Innovations in Healthcare, Telecommunications, Energy, and Industrial Sectors," funded by SERB with a grant of Rs. 2,00,000.



#### **WORKSHOPS ORGANIZED BY FACULTY**

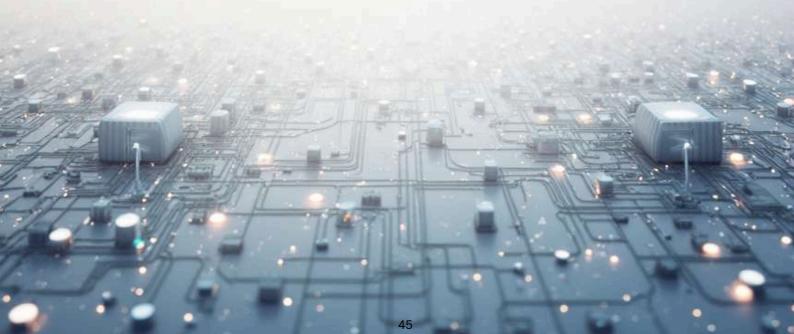
**Dr. S. Bharathidasan** organized a one-day hands-on training on "Hardware and Networking Implementation" at DPL Lab, providing practical skills in hardware setup and network configuration.

Mr. B. Balamurugan conducted a one-day workshop on "AI and its Applications" at ECE Seminar Hall, introducing participants to artificial intelligence concepts and real-world applications.

Ms. Dhivya Priya E.L. organized a one-day workshop on "Antenna for Autonomous Vehicles" at ECE Seminar Hall, covering antenna design principles for self-driving vehicle communication systems.

Ms. Thivya Prabha conducted a one-day hands-on training on "Digital Marketing" at ECE Seminar Hall, equipping participants with modern digital marketing strategies and tools.

Ms. K.R. Priyadharshini organized a two-day hands-on training on "Chip Level Testing and Debugging for Smartphones and Tablets" at ECE Seminar Hall, providing advanced technical skills in mobile device hardware troubleshooting and repair.



#### **FACULTY PUBLICATIONS**

Ms. K. R. Priya Dharshini published "Multimodal Efficient Bioscrypt Authentication Using MATLAB" in IEEE Xplore, June 2023. DOI: 10.1109/ICSMDI57622.2023.00020





**Dr. R. Kalaivani** published "Fabric Defect Detection and Classification via Deep Learning based Improved Mask RCNN" in Journal of Signal, Image and Video Processing (Springer Nature), Vol. 18, pp. 2183–2193, July 2023.

DOI: 10.1007/s11760-023-02884-6

**Dr. M. Sundaram** published "Weighted Moth-Flame Optimization Algorithm for Edible Oil Quality Detection Using Microwave Technologies" in Food Analytical Methods (Springer), Vol. 16, pp. 1487–1497, July 2023. DOI: 10.1007/s12161-023-02517-1

Food Analysical Methods (2023) 16:1487–1497
https://doi.org/10.1007/s12/61-023-02517-1

RESEARCH

Weighted Moth-Flame Optimization Algorithm for Edible Oil Quality
Detection Using Microwave Technologies

R. Ashok<sup>1</sup> - M. Sundaram<sup>2</sup> - G. Jaffino<sup>3</sup> - J. Prabin Jose<sup>4</sup>

Received: 7 October 2022 / Accepted: 5 July 2023 / Published online: 19 July 2023
O The Authority, under exclusive Isence to Springer Science-Binsness Media, LLC, part of Springer Nature 2023

Abstract



Mr. V. Thamizharasan published "FPGA Implementation of Proficient Vedic Multiplier Architecture Using Hybrid Carry Select Adder" in International Journal of Electronics, Vol. 111, Issue 8, pp. 1253–1265, August 2023.

DOI: 10.1080/00207217.2023.2245194

**Dr. M. Sundaram** published "Spin Orbit Magnetic Random Access Memory Based Binary CNN In-Memory Accelerator (BIMA) with Sense Amplifier" in Journal of Intelligent & Fuzzy Systems, Vol. 46, Issue 1, pp. 137–148, November 2023.DOI: 10.3233/JIFS-223898



Ms. Dhivya Priya E L has published the book "Wireless Communication" in Aug-23. Publisher: Aasan Publications.

Ms. Dhivya Priya E L has published the book "Enabling Person-Centric Healthcare Using Ambient Assistive Technology. Studies in Computational Intelligence" with the chapter "AAL with Deep Learning to Classify the Diseases Remotely from the Image Data" in 02-Sep-23. Publisher: Springer, Scopus indexed.

Ms. K.R. Priya Dharshini has published the book "Research Highlights in Science and Technology Vol.8" with the chapter "Book Chapter - The Impact of Sensor Networks' Packet Redundancy Elimination" on 07.08.2023. Publisher: B P International, Scopus indexed.

**Dr. R. Kalaivani** has published the book "Visible light communication-based internet of things for healthcare" with the chapter "Technological Tools for Predicting Pregnancy Complications" in Sep-23. Publisher: IGI Global Scientific Publishing Research Books, Indexed in Web of Science, Scopus.





#### **WORKSHOP**

R.P.Cipiraj, D.Durgeshwari, P.S.Dhanasri, A.Krishna Bharathi, S.Dhanalakshmi, R.Arjun, has attended a ICSSR Sponsored Workshop on SIKER-23 at IIIT-Kottayam for 5 days

Mahesh bala.B, Iniyavan.V, Arulvarsan.S, Munirathinam.S, Mohana Sundaram.K, Megan.K, Hemalatha.S, Tamilarasan.S, Rithanya.A.G, Myvizhi.S, Vignesh.G has attended a One day National Workshop on "IOT-Edge to Cloud using NI myRIO" at Vellore Institute of Technology, Vellore

#### Naveenraj.S, Sonu kumar, Abhishek kumar

as they are participate two days Workshop Titled" Arduino Sensor Playground, Hands-on Exploration" during the Henosis 2K24 at Dr. N. G. P Institute of Technology, Coimbatore

Susila Jenifer A, Miruthula J, and Santhosh R from our department participated in the "Future of Coding, GitHub Copilot Unleashing" workshop at CEREBRI'24, Bannari Amman Institute of Technology, Sathy

Gokulakrishnan E, Guruprakash G, and Ragul B for participating in the workshop on "Arduino Robotics and Ultrasonic Radar" at SNS College of Technology, Coimbatore

**Logesh A and Akash R A** for successfully completing a 6-day workshop on "Android App Development" at Rathinam College of Arts and Science.

**G. Velan** from our department for successfully completing the Microcontroller Firmware Development at VIT-Vellore

Abishek kumar, Sonu kumar, has participated in the Drone Technology
IEEE Student Branch of NGP iTECH one day workshop at Dr.N.G.P Institute of Technology,
Coimbatore

Gayathri S, Maha Sri C, Arthi T, Durga Devi G, Nandhini P, Ruba S, and Priya Dharshini M for participated in the one-day workshop on "Python for Embedded Projects" at Karpagam College of Engineering,

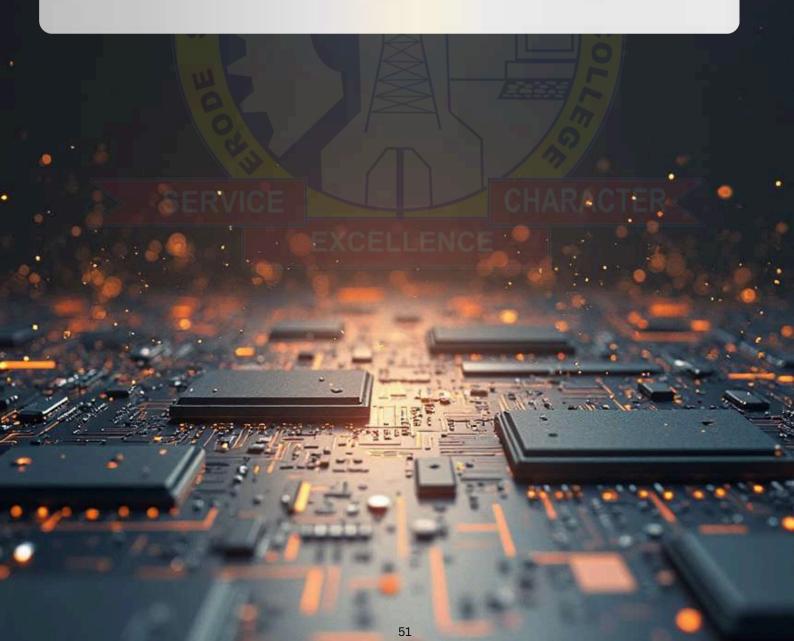
Magudeeswaran M, Ganesh B, Sivanandhini Chandrasekar, Yogapriya M, Surya V, Dharanish V, Mageswar B, Gowtham N, Naveen P V, Gokilraya P, Jamuna Rani N, Nithya B S, Kavitha P, Abinesh A, Gopinath M, Ambika D, Devipriya G, Mohana C, Jeslyn S, Vijay Venkatesan, Sujith S, Kavimala S, Dharani Ravi, and Boomika S for successfully completed the 6-day workshop on "IoT Platform and Programming Essentials" at Indian Institute of Information Technology, Kottayam



Sukanth S, Narayanan E has participated in the one day workshop in CAN Protocol& CAN TP at San Technovation Private Limited in Erode

Arulvarsan S, has attended the workshop in Data Science Hackers-National level Technical Symposium one day at Chennai Institute of Technology

Vasantha kumar S, Tharanitharan as they are completed one day workshop on Computer Vision/Large Language Models in Chennai Institute of Technology Chennai



#### PAPER PRESENTATION

Keerthana N, Harini G, and Gowri T of I Year participated in "Embedded Systems for Automotive Applications" at KSR College of Engineering, Tiruchengode on 28.04.2023.

**Keerthana** N of I Year presented "FPGA-Based System Design for Signal Processing" at Builders Engineering College, Tirupur on 10.06.2023.

Andrix Vinusha G of I Year and Hemaniverthane C.R of II Year participated in "Testing and Verification of VLSI Circuits" at Builders Engineering College, Tirupur on 10.06.2023.

**Keerthana** N of II Year presented "The Role of Artificial Intelligence in Next-Generation Wireless Networks" at Velammal Engineering College, Chennai on 05.07.2023 – 07.07.2023.

Sabarinathan N.S, Vasantha Kumar S, and Suriya Prakash G of II Year attended a paper presentation on "Li-Fi Technology – The Future of Data Communication" at Bannari Amman Institute of Technology, Sathyamangalam on 06.10.2023 – 07.10.2023.

Selvarani R of III Year presented "The Role of Artificial Intelligence in Next-Generation Wireless Networks" at Hindustan Institute of Technology, Coimbatore on 13.10.2023.

Priya Dharashini K and Shobika Shri M of II Year participated in "Advanced Modulation Techniques for 5G and Beyond" at Hindustan Institute of Technology, Coimbatore on 13.10.2023.

Gayathri R, Dhusyanth Ram J.S, and Bala Saravanan N of III Year presented a paper on "Design and Analysis of Low-Power CMOS Circuits" at Simats Engineering College, Chennai on 18.10.2023.

Bhavani V, Dharsini V, and Dinesh Kumar P of III Year participated in "Emerging Trends in VLSI Design and Technology" held at Simats Engineering College, Chennai on 18.10.2023.

Chandru N and Hariprasath V of III Year presented a paper titled "The Impact of Quantum Computing on Microelectronics" at Simats Engineering College, Chennai on 18.10.2023.

Andrix Vinusha G of II Year presented a paper on "Analysis of V2V Planar Antenna at the Frequency Range of 3GHz–7GHz Resonance" at Simats Engineering College, Chennai on 18.10.2023.

#### OTHER TECHNICAL EVENT

Thikaa.SS II year participated in "CODING AND DEBUGGING G during EFFLORESCE NCE-23"

at Builders Engineering College, Tirupur, on 10.06.2023, representing the institution at a national-level technical event.

Saranya P, Vinoth Kumar M, Santhosh S, they are participated Debugging Intercolleiate Meet at Vellalar College For Women on 25.08.2023

Adhithya Varadhan R, Arulvarsan S, Akash R are participated (Ideaphere A National Design Thinking Contest & Festival) at SNS College of Technology

Coimbatore on

12.09.2023

Sabarinathan.N.S II year took part in the "Design Thinking Contest & Festival" at SNS College of Technology, Coimbatore, on 12.09.2023, showcasing innovation and problem-solving skills at the national level.

We're thrilled to announce that Rohinth M and Thinakaran M from our department participated in Byte CON 102: Dara Science at Chennai Institute of Technology, Chennai, on 26.09.2023

Vasanthkumar S, & Suriyaprakash G are participated Slide Fest in INSIGHT'23 A National Level Technofest at Bannai Amman Institute of Technology on 06.10.2023-07.10.2023

Selvarani.R III participated in the "TECHNICAL QUIZ on BARNSTRO MZ 2K23" at Hindustan Institute of Technology, Coimbatore, on 13.10.2023, demonstrating technical knowledge and competitive spirit in a national competition.F1.jpg

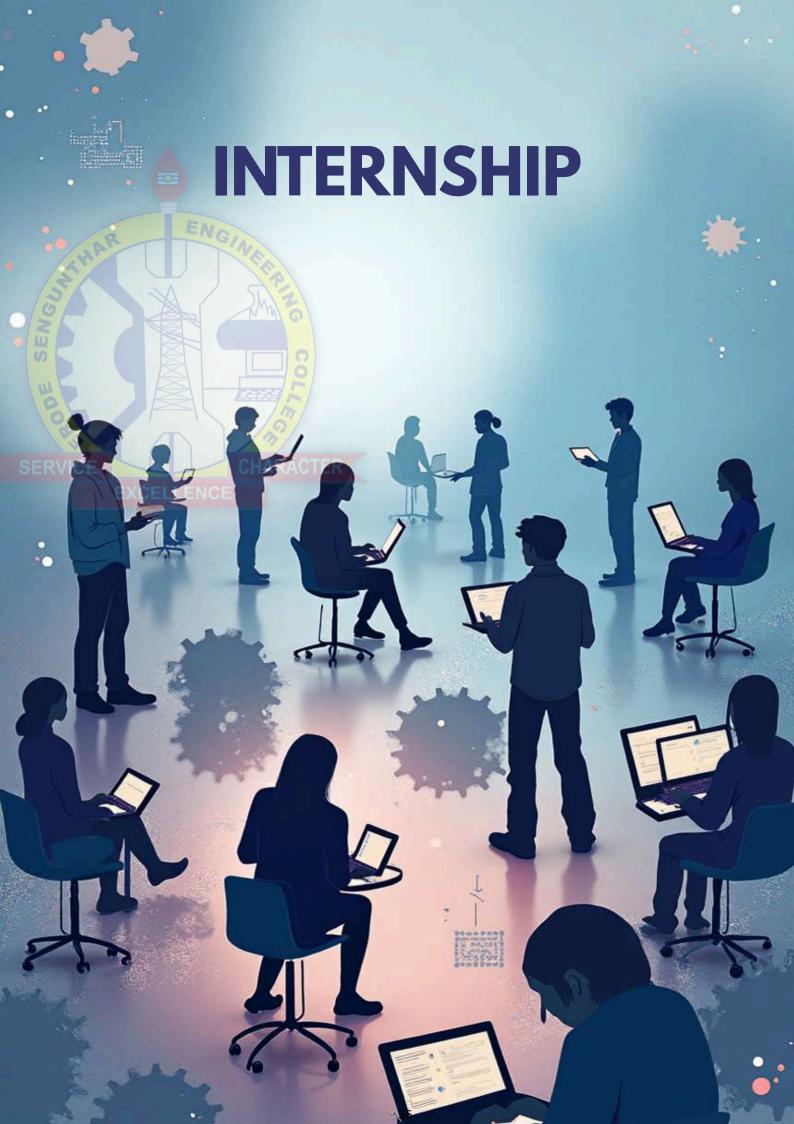
#### STUDENTS ACHIEVEMENTS

**Keerthana N, Ramprasath M,** and **Rohith S** of II Year/III Semester won Second Prize in the Technical Event of Cultural Coding Carnival on **INFYRA'23**, organized by Sri Sairam Institute of Technology, Chennai, held from 21.12.2023 to 22.12.2023 at the national level.

Kavitha P and Neshitha M of III Year/V Semester presented a paper on "CSEM AND WEAR PARAMETERS OF AL 7075 WITH BAC AND AL203 ALLOY" at the 2nd International Conference (ICAMMCA-2023) organized by JCT College of Engineering and Technology, Coimbatore on 10.08.2023 and secured the Second Prize.

Hemaniverthane C R and Ranjith R of II Year/III Semester presented a project titled "Development of a Health Monitoring Wearable for Elderly Patient Fall Prediction" at the PROJECT Presentation 2k23, organized by Indian Institute of Technology, Chennai, on 18.10.2023. Both students participated at the national level and completed the one-day event.





- Students from our department actively participated in various internships to gain practical exposure and hands-on experience in their respective domains.
- S. Sirman Saran, M. Poovarasi, S. Priyanka Devi, P. Saranya, S. Santhosh, and S. P. Nivetha of III Year completed a 15-day internship from 09 May to 09 June 2023 at EMGLITZ Technologies.
- D. Ambika, G. Devipriya, N. Jamuna Rani, S. Jeslyn, C. Mohana, P. V. Naveen, and B. S. Nithya of III Year completed an 18-day internship from 07 May to 24 May 2023 at Electric Loco Shed, Erode.
- S. Srimathi and S. Rahul Gandhi of III Year completed a 5-day internship from 22 May to 27 May 2023 at NEOWEB, Dharmapuri.
- R. P. Cipiraj, R. Arjun, A. Krishnabharathi, B. Mageshwar, and S. Rajeshkumar of III Year completed a 15-day internship from 20 May to 05 June 2023 at Skynoveau Technology, Namakkal.
- S. Dhanalakshmi of III Year completed a 15-day internship from 23 May to 06 June 2023 at the Pasteur Institute of India, Coonoor.
- S. Akalya of III Year completed a 20-day internship from 18 May to 07 June 2023 at Dream Techno Park.
- B. Mageshwar, A. Abinesh, B. Ganesh, M. Gobinath, M. Magudeeswaran, T. Tirumoorthy, and P. Gokilraja of III Year completed a 5-day internship from 19 June to 24 June 2023 at Sunshiv Electronics, Coimbatore.
- N. Chandru of III Year completed a 15-day internship from 26 June to 07 July 2023 at AB Technologies, Tirunelveli.
- V. M. Balamurugan and G. S. Gokulakrishnan of III Year completed a 15-day internship from 26 June to 08 July 2023 at Phoenix Softech, Madurai.

- S. Mounesh, S. Ajay, K. Arjun, N. Balasaravanan, R. Karthik, and Moulishankar of III Year completed a 5-day internship from 26 June to 30 June 2023 at NSIC, Chennai.
- R. Parthipan, K. Sri Aravind, S. Manikandan, S. Harish, S. Rohith, and A. Manoj of III Year completed a 5-day internship from 04 July to 09 July 2023 at Caliber Embedded Systems, Salem.
- P. Sujeeth, P. Sureshkumar, S. Rajeshkumar, R. Vidhyadharan, and J. Roymarshal of III Year completed a 7-day internship from 10 July to 17 July 2023 at Vi Microsystem, Chennai.
- V. Bhavani, T. Hemalatha, P. Kavitha, C. Kayathri, T. Madhumitha, A. Akalya, and S. Geetha of III Year completed a 5-day internship from 17 July to 22 July 2023 at San Technovation, Perundurai.
- S. Ajay, K. Arjun, P. Dineshkumar, N. Balasaravanan, R. Karthik, R. Mathavan, T. Moulishankar, S. Mounesh, M. Pathi, B. Suriya, Vinoth Kumar M, Vinoth Kumar S, R. Keerthivasan, M. Suthish, T. Thirumoorthy, and P. Yaswanth Sri of III Year, along with P. Prabhu and K. Siddharthan of IV Year, completed a 48-day internship from 20 July to 06 September 2023 at Saradha Skill Academy, Coimbatore.



- **M.** Maria Abinesh of IV Year completed a 6-month internship from 01 July to 30 December 2023 at Invendis Technology, Bangalore.
- **A. Siva, R. Dhanush, T. Midhun,** and **M. Vignesh** of IV Year completed a 16-day internship from 14 August to 30 October 2023 at **Brigade LED Pvt.** Ltd., Coimbatore.
- **R.** Vidhyasagar and P. Vimalanandh of IV Year completed a 3-month internship starting from 14 August 2023 at Electronics Estate, Chennai.
- P. Dhines Kumar, M. Mouli Dharan, K. Gobi Anand, K. Dharnish, K. Jeevanandhm, P. Karthigan, and P. Sujeeth of III Year completed a 1-month internship from 28 August to 28 September 2023 at Popular System, Coimbatore.
- A. Ashishbrindan, D. Surendhar, V. Sridharan, K. Sanmugam, and S. Venkatesh of IV Year completed a 2-month internship from 07 September to 07 November 2023 at Popular System, Coimbatore.
- J. Jayasurya of III Year completed a 2-month and 5-day internship from 11 September to 17 November 2023 at VEI Technologies Pvt. Ltd.



#### **INDUSTRIAL TRAINING**

S. Ajay of III Year attended a 48-day industrial training at Saradha Skill Academy, Coimbatore. The training helped him gain practical skills through workshops and industry-based activities.

A total of 15 students from III Year also attended the same training. They learned about skill development, technical sessions, and hands-on industrial tools. Student Names: Arjun, P. Dineshkumar, N. Balasaravanan, R. Karthik, R. Mathavan, T. Moulishankar, S. Mounesh, M. Pathi, B. Suriya, Vinoth Kumar M, Vinoth Kumar S, Keerthivasan R, Suthish M, Thirumoorthy T, and Yaswanth Sri P.

**J. Jayasurya** of III Year completed two months and five days of industrial training at **VEI Technologies Pvt. Ltd.** The training gave him good exposure to software development, project work, and documentation



#### **NPTEL COURSE DETAILS**



Ms. E.L. DhivyaPriya successfully completed the NPTEL online certification course "Introduction to Wireless and Cellular Communications" during the September–October 2023 session. She scored 71 marks in the examination and was awarded the "Elite" certificate for her performance. This achievement demonstrates her knowledge and proficiency in wireless and cellular communication concepts through the esteemed NPTEL platform.



Ms. J.S. Sharanyanivasini successfully completed the "Introduction to Internet of Things" course offered by IIT Kharagpur during the July–October 2023 session. She secured a score of 71 and was awarded the "Elite" certification, recognizing her understanding and competency in IoT concepts through this prestigious program.



### **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-R ESAKIGANESHAN CONTENT WRITER-R BHARANIDHARAN







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THANK YOU