



# Electroverse

# NEWSLETTER

December 2025

Volume : 1, Issue : 6

## Vision

To make the Department of Electronics and Communication Engineering of this Institution the unique of its kind in the field of Research and Development activities in this part of world.

## Mission

To impart highly innovative and technical knowledge in the field of Electronics and Communication Engineering to the urban and unreachable rural student folks through Total Quality Education.

## Editor-in-Chief Message

We are delighted to present the Electroverse Newsletter – December 2025 Edition, highlighting the Department of ECE's progress in research, innovation, and academic excellence. The department recorded notable publications in Scopus and SCI-indexed journals and earned national recognition for the “Smart Solar Dryer” project under AIWS. Faculty actively participated in FDPs, conferences, and training programmes, while various academic initiatives enhanced teaching and student employability. The achievements of faculty and students, along with strong industry and alumni engagement, reflect our commitment to innovation, research excellence, and quality education.

**Dr. R. Suresh Babu, M.E., M.B.A, Ph.D.**  
**Professor & Head**

– Editor-in-Chief, Electroverse

# Journal Publication

T. Pandiselvi has published a research article titled “BCI Framework for Emotion Detection in Paralyzed Individuals: Cross-Subject EEG Modeling and Low-Burden Calibration” in TPM – Testing, Psychometrics, Methodology in Applied Psychology, Volume 32, Issue 4, 2025 (ISSN: 1972-6325), a Scopus-indexed (Q3) journal.

Dr. N. M. Mary Sindhuja, Dr. S. Kanthamani, Dr. Anand Anbalagan, and Mrs. P. Ramalakshmi published a research paper titled “Meshfree Method–Based Modeling of Distributed Nanotransmission Line Phase Shifter for 5G Wireless Applications” in the International Journal of RF and Microwave Computer-Aided Engineering, Volume 2025, Article ID 8823750, on 16.12.2025. The journal is SCI-indexed and listed in the Annexure.

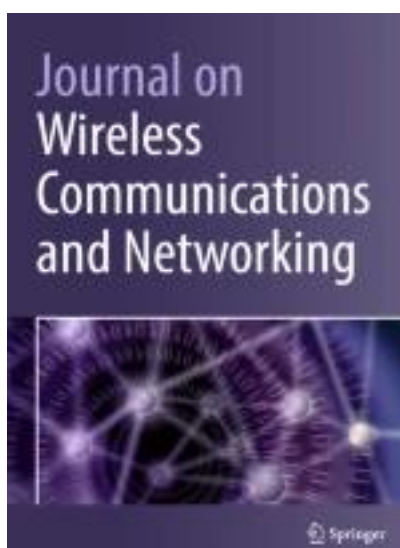
Dr. R. Suresh Babu and M. Stella Mercy published a research article titled “Hybrid Optimization Algorithm for Clustering and Energy-Efficient Power Allocation Model in D2D Multicast Network” in the International Journal of Communication Systems (Wiley), Volume 39, Issue 1, pp. 1–15, on 25.11.2025.

M. Stella Mercy and Dr. R. Suresh Babu published a research article titled “Advanced Task-Weighted Meta-Reinforcement Learning for Rapid Secure Routing in Mobile RIS-Assisted Networks” in the EURASIP Journal on Wireless Communications and Networking, December 2025.

Srideivanai Nagarajan, Sujata D. Badiger, Shubha Rao V., Bama S., Supriya, Shital Kakad, S. Nisha Rani, and Pyingkodi published a research article titled “An Evolving Embedded Method Using a Lightweight Cryptography Algorithm to Address Issues in IoT Devices” in the International Journal of Applied Mathematics, Volume 38, No. 5, 2025, pp. 1009–1019 (August 2025), ISSN: 1311-1728 (Print) and 1314-8060 (Online).

T. Pandiselvi, G. Satheesh Prabhu, Shubhanshu Sharma, V. Anil Kumar, and Rathish Manivannan published a research paper titled “Mitigating Cyber Threats Through Blockchain-Based Intrusion Detection System” in Volume 38, No. 12s, 2025, ISSN: 1311-1728 (Print) and 1314-8060 (Online).

T. Pandiselvi, M. Sony Jenusha, R. Ashok, R. Raj Prabu, P. Muthumari, and S. Alwyn Rajiv published a research article titled “Skin Cancer Diagnosis Using Generative Stacked Recurrent Neural Networks for Medical Image Processing” in TPM – Testing, Psychometrics, Methodology in Applied Psychology, Volume 32, Issue S9, 2025 (ISSN: 1972-6325), a Scopus-indexed (Q3) journal.



pISSN 1311-1728  
eISSN 1314-8060

Volume 36 No. 1 2023

**IJAM**  
International Journal  
of Applied Mathematics

Founding Publisher  
Drumi Bainov

Editor-in-Chief  
Virginia Kiryakova

Managing Editor  
Svetoslav Nenov

#### Editorial Board

R.F. Agewal (USA)	R. El-Khazali (UAE)	M. Al-Rifa'i (Jordan)
A.A. Alkhanov (Russia)	Changpin Li (China)	R. Rodriguez-Lopez (Spain)
G. Anastasiou (USA)	F. Marandi (Italy)	N. Semko (Norway)
A. Ashyralyev (Turkey- Russia-Kazakhstan)	A.M. Mathal (Canada- India)	T. Sander (N. Macedonia)
T. Atanasovska (Serbia)	M. Mihalescu (Romania)	H.M. Srivastava (Canada)
M. Bohner (USA)	P. Mitkanski (USA)	HongGuang Sun (China)
YangCuan Chen (USA)	Sh. Momani (Jordan)	J.A. Tenreiro Machado (Portugal)
B. Dattala (Poland)	D. Motreanu (France)	S. Teneva (Bulgaria)
L. Debnath (USA)	S. Nenov (Bulgaria)	N. Tuneski (N. Macedonia)
A. Dzhalev (Bulgaria)	J. Pánevá-Konovská (Bulgaria)	Yubin Yan (UK)
P. Eloe (USA)	J.P. O'Reil (USA)	A. Zayed (USA)
J. Henderson (USA)	S. Pilipovic (Serbia)	Yong Zhou (China)
S. Hristova (Bulgaria)	V. Povstanski (Poland)	
S.L. Kalla (India)	P. Rajkovic (Serbia)	

## Funding Applied

Mrs. C. Nagavani, Dr. T. Pandiselvi, and K. K. Harshini (III ECE) submitted a project titled “Smart Solar Dryer”, which has been shortlisted to Level-2 in the All India Women Start-a-thon (AIWS) under the Energy/Water/Waste Management track.

## Conference Presented

Dr. T. Prathiba presented a paper titled “Integrated Virtual Reality (VR) Simulations for Cyber Forensics: Reconstruction of Attacks and Evidence Analysis in Virtual Ecosystems” at the 8th IEEE Pune Section International Conference (IEEE PUNECONE 2025), held from 12th to 15th December 2025, organized by Savitribai Phule Pune University.

# Program Organized

A one-and-a-half-day offline Faculty Development Programme was organized by the EEE and ECE departments on 15th and 16th December 2025. The session on “Fundamentals of Electronics” was handled by Prof. M. Devarajan for ECE, EEE, and MTR faculty members.



# Program Organized

Dr. R. Sureshbabu and Dr. D. Price Winston served as conveners for a 6-day International Online Faculty Development Programme on “Next Generation Technologies: An Integrated Approach to EV, AI, Embedded Systems, and Custom IC Design” held from 12.12.2025 to 18.12.2025. The programme was coordinated by Dr. T. Prathiba (ASP/ECE), Dr. K. Ragini (AP/ECE), Dr. R. Ganesan (AP/EEE), and Mr. T. Hari Prasath (AP/EEE).

The top screenshot shows a Microsoft Teams meeting window. The main content is a slide titled "Why AI in Medical Imaging?". The slide lists three benefits:

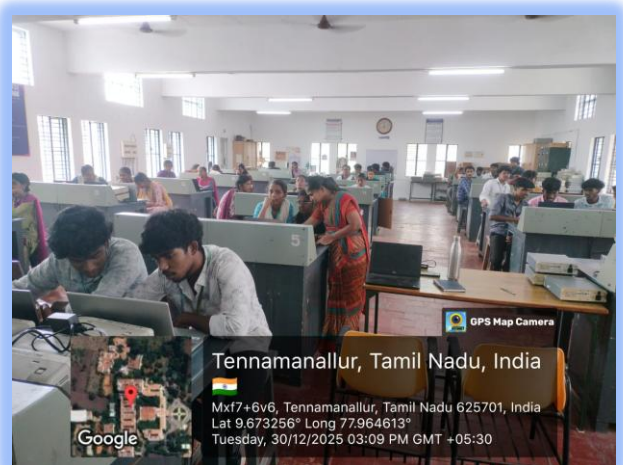
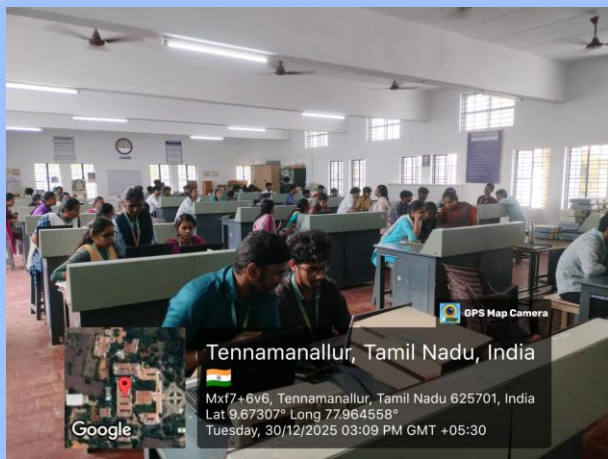
- ✓ Improves visualization and localization of anatomical structures
- ✓ Minimally invasive surgery through enhanced imaging guidance.
- ✓ Supports surgical decision-making, such as: Identifying optimal dissection lines, Predicting surgical outcomes, Reducing intraoperative risks

The bottom screenshot shows a Microsoft Teams meeting window. The main content is a slide titled "ARM Nomenclature". The slide lists the components of ARM architecture:

- **ARM x y z T D M I E J F S** (Example: ARM7-TDMI-S)
- x - Series
- y - MMU
- z - Cache
- T - Thumb
- D - Debugger
- M - Multiplier
- I - Embedded In-Circuit Emulator (ICE) macrocell
- E - Enhanced Instructions for DSP
- J - JAVA acceleration by Jazelle
- F - Floating-point
- S - Synthesizable version

# Program Organized

3-Day Placement-Oriented Training Program have conducted for II Year students is scheduled from 29 December 2025 to 31 December 2025. The following are covered in this Training: Goal Setting, Resume Building, Linkdin & Github, Multisim and C programming



# Awards

Dr. T. Prathiba (ASP/ECE), Dr. S. Nisha Rani (AP/ECE), and III-year ECE student Aparnaa G. J received the “RAISE Emerging Innovator Award” from RAISE Centre for Nanotechnology (AIC RAISE) on 26.12.2025.



Dr. R. Sureshbabu and Mrs. T. Prathiba received the Mentor Training Programme certificate on 18.12.2025 from EDII-TN, presented by Mr. Milton, EDII Manager, Virudhunagar Collector Office, Virudhunagar.

## Reviewer

- Mrs. T. Monisha Birlin served as a reviewer for the Knowledge-Based Systems journal (Elsevier Publications), which has an impact factor of 7.6.
- Dr. N. M. Mary Sindhuja reviewed a paper for the Journal of Electrical Engineering.

## Skill Development Program attended

1. Mrs. T. Monisha Birlin completed an ATAL Faculty Development Programme on “Next Generation Medical Automation: The Role of AI and IoMT in Transforming Healthcare Systems” at Kongunadu College of Engineering and Technology from 01.12.2025 to 06.12.2025.
2. Mrs. T. Monisha Birlin completed an AI course titled “Generative AI Foundations” offered by AWS Academy on 09.12.2025.

## Skill Development Program attended

3. Dr. T. Pandiselvi, C. Nagavani, and Dr. R. Rajprabhu attended a 5-day Faculty Development Programme on “Semiconductor Devices, Fabrication & Layout Design” organized by ICT Academy in collaboration with the Ministry of Electronics and Information Technology (MeitY), Government of India, held from 08.12.2025 to 12.12.2025 at National Engineering College.
4. Dr. T. Prathiba, ASP/ECE, participated in the TNYIEDP One-Day Faculty Student Mentor Training Programme organized by EDII-TN at Sethu Institute of Technology on 18.12.2025.
5. Dr. N. M. Mary Sindhuja completed the AICTE Training and Learning (ATAL) Academy Faculty Development Programme on “Applications of AI/ML Techniques to Electrical & Electronics Engineering” organized by S. N. Patel Institute of Technology from 15.12.2025 to 20.12.2025.

## Skill Development Program attended

6. P. Ramalakshmi successfully completed the AWS Academy Graduate – Generative AI Foundations training badge on 13.12.2025 from AWS Academy. Dr.
7. T. Pandiselvi also completed the AWS Academy Graduate – Generative AI Foundations training badge from AWS Academy on 12.12.2025.
8. Dr. R. Ashok attended a Faculty Development Programme on “Next-Generation Technologies: An Integrated Approach to EV, AI, Embedded Systems, and Custom IC Design” at Kamaraj College of Engineering and Technology from 12.12.2025 to 18.12.2025.
9. Dr. S. Nisha Rani attended a one-week (40 hours) Faculty Development Programme on “PCB Design and Fabrication and Prototyping using PCB Machine” from 10.11.2025 to 14.11.2025 at Thiagarajar College of Engineering, sponsored by the Ministry of Electronics & Information Technology, Government of India, and ICT Academy.

## Skill Development Program attended

10. Dr. T. Pandiselvi, Associate Professor at Kamaraj College of Engineering and Technology, successfully participated in a Six-Day International Faculty Development Programme on “Next-Generation Technologies: An Integrated Approach to EV, AI, Embedded Systems, and Custom IC Design” from 12.12.2025 to 18.12.2025.
11. Dr. T. Pandiselvi also participated in a Five-Day Faculty Development Programme on “Generative AI in Education, Research, and Innovation” conducted by the Department of Computer Applications at Saintgits College of Engineering from 15.12.2025 to 19.12.2025.
12. Mrs. C. Nagavani, Associate Professor at Kamaraj College of Engineering and Technology, successfully participated in the same Five-Day FDP on “Generative AI in Education, Research, and Innovation” conducted at Saintgits College of Engineering from 15.12.2025 to 19.12.2025.

# Session Attended

Dr. T. Prathiba (ASP/ECE), Dr. S. Nisha Rani (AP/ECE), and III-year ECE student Aparnaa G. J participated in the HerNest Session on “Secret of Success” delivered by Dr. G. S. Ayyappan, Senior Principal Scientist at CSIR-CSIO, Chennai.



# Alumni Meet

An Alumni Meet was successfully conducted on 27.12.2025, with active participation from ECE alumni across various batches. Notably, 30 alumni from the 2006 batch attended, including participants from countries such as Australia and England. Mrs. C. Nagavani and Dr. T. Pandiselvi, serving as ECE Alumni Coordinators, played a key role in engaging and inviting alumni for the event. In total, more than 60 ECE alumni





## Editor-in-Chief

Dr. R. Suresh Babu, M.E., M.B.A, Ph.D.  
Professor & Head

## Faculty Coordinators



Dr. S. Nisha Rani, M.E., Ph.D.  
Assistant Professor



Mr. S. Alwyn Rajiv, M.E., (Ph.D.)  
Assistant Professor

## Editorial Team



Subaranjani. N  
III ECE B



Yukesh. S  
III ECE A



Kishore. S  
III ECE B



Parameshwaran. L  
III ECE A



Ashvathershni. V  
III ECE B

***“The purpose of education is to make good human beings with skill and expertise.”***

***Dr. APJ Abdul Kalam***