

2024
JUL - DEC



(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)

S.P.G.Chidambara Nadar - C.Nagammal Campus

S.P.G.C. Nagar, K.Vellakulam - 625 701 (Near VIRUDHUNAGAR).

Volume: 13

Issue: 1

ECE *LUMINANCE*

Enlighten Your Knowledge

Department of Electronics and
Communication Engineering
(Accredited by NBA)

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ABOUT THE DEPARTMENT

The Department of Electronics and Communication Engineering was established in 1998. In 2011, the department introduced a postgraduate program—an M.E. degree in Communication and Networking. In 2015, the department was reaccredited by the NBA, and it is currently accredited for the period 2023–2026. It has also been recognized as a Research Center by Anna University, Chennai. The department comprises 12 highly qualified and experienced faculty members. It is equipped with fully air-conditioned laboratories that meet current academic and industry requirements. The department regularly organizes workshops, seminars, and value-added courses to keep students and faculty members updated with the latest advancements in emerging fields and their industrial applications.



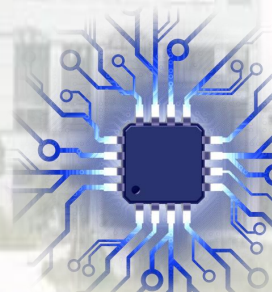
VISION AND MISSION

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 floks through Total Quality Education”



PEOs (PROGRAMME EDUCATIONAL OBJECTIVES)

1. To establish a strong foundation in Electronics and Communication Engineering necessary to formulate, model, analyze and solve real time problems.
2. To include professional skills and life skills for placement or to pursue higher studies in the relevant fields.
3. To promote research and development activities and solve industrial problems with creative ideas.

PSOs (Programme Specific outcome)

1. Ability to make use of attained technical knowledge in the field of Electronics and Communication Engineering for a successful career and qualifying in competitive examinations at the national level.
2. Ability to develop workable solutions for real-time challenges in Electronics and Communication Engineering.



TECHNOLOGY CATCHMENT AREA

Smarter Things, Faster Minds: The Rise of IoT and Edge AI



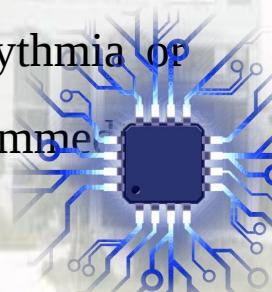
In a world moving toward real-time decision-making and hyper-connectivity, IoT (Internet of Things) and Edge AI (Artificial Intelligence at the edge) are revolutionizing how electronic systems interact with their environments. No longer are devices passive data collectors—they think, act, and adapt on the spot.

What is Edge AI?

Edge AI refers to deploying AI algorithms directly on IoT devices or edge nodes (gateways, sensors, microcontrollers) instead of sending data to centralized cloud servers. These devices now come equipped with tiny machine learning (TinyML) or dedicated Neural Processing Units (NPUs) to process data locally.

Real-World Applications:

- **Smart Agriculture:** Soil sensors analyze moisture and crop health in real-time using onboard AI, triggering irrigation or alerts instantly.
- **Wearable Health Devices:** Smartwatches detect arrhythmia or sleep apnea using onboard models, ensuring immediate responses without cloud dependency.



TECHNOLOGY CATCHMENT AREA

- **Industrial Automation:** AI-enhanced sensors detect machine faults, vibrations, or gas leaks—minimizing downtime and maximizing safety.
- **Smart Cameras:** Surveillance systems with Edge AI can recognize faces, track motion, or detect weapons—all without human intervention.
- **Autonomous Vehicles:** Sensors and microcontrollers collaborate with on-device AI for obstacle detection and collision avoidance in milliseconds.

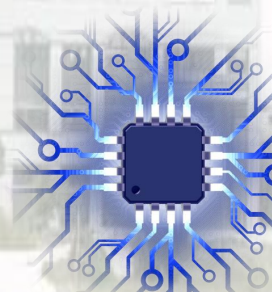
Technology Behind the Trend

MCUs + AI Toolkits: Chips like ARM Cortex-M with TensorFlow Lite Micro enable local ML inference.

Low Power Design: Energy-efficient edge processors optimize battery life while performing heavy tasks like image recognition.

Connectivity Protocols: LoRa, Zigbee, BLE, and NB-IoT ensure seamless low-latency communication between devices.

Edge AI Frameworks: Tools like Edge Impulse, NVIDIA Jetson, and Google Coral simplify deployment of AI on embedded systems.



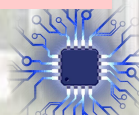


Guest Lecture “**Innovations by using Modern Technologies**” was organized for III ECE Students by **Dr. Sathish Kumar**, Deputy Director for Planning and Development, MIT, Chennai, on 20.07.2024

The **PAC Meeting** was organized on 20 July 2024 from 2-4 pm. All stakeholders, including parents, Anna University Representatives, Industry persons, Alumni, Faculty members, and students, participated.

Hands-on Training in “**Webpage Development using HTML program**” organized by ECE Association on 02.08.2024 (Forenoon) for III ECE Students. Coordinators: Mrs. P. Muthumari, AP/ECE & Dr. T. Prathiba, ASP/ECE.

Mrs.C.Nagavani AP/ECE and Mrs.P.Muthumari AP/ECE co-ordinated Guest Lecture in the topic "**Building IoT system using Blynk software**" for III ECE students on 6-8-2024 with participation strength of 53 students under ECE Association. The Resource person is **Mr.P.C.Stalin**,CEO, Emsol Systems, Chennai.



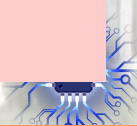


Mrs.C.Nagavani AP/ECE and Mrs.P.Muthumari AP/ECE co-ordinated FDP in the topic "**Building IoT system using Blynk software**" for Interested Faculty members of ECE, CSE, IT, EEE, MECH, MTR, ADS & CIVIL on 5-8-2024 with participation strength of 12 members under IETE. The Resource person is **Mr.P.C.Stalin**,CEO, Emsol Systems, Chennai

IIC and EDC organized a Guest lecture on "**Incubation Opportunities for Students and Faculty Members**" in the ECE department on 06.08.2024, Coordinator Dr. T. Prathiba, ASP/ECE and Mr. P. Ashok, AP/ECE.

In association with the ISTE workshop organized for our III ECE students on “**Antenna Training System with Radiation Pattern Plotting Software**” delivered by **Mr. S. Sundara Kumaran**, CEO, Vajenthura Microwave Products, Chennai on 9.8.2024.

Demo Session for faculty members on “**Antenna Training System with Radiation Pattern Plotting Software**” delivered by **Mr. S. Sundara Kumaran**, CEO, Vajenthura Microwave Products, Chennai on 9.8.2024.



EVENTS

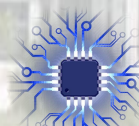
Final year ECE students attended the motivational speech on “**My Dream My Future**” by Mr. M. K. Janaki Raman, Cognitive Psychologist, Chennai on 30.08.2024.

Parents Teachers meeting organized for II, III, and IV year ECE students on 31.08.2024 between 2:00- 4:30pm.

Mrs.P.Muthumari, organized Webinar on "**Research Trend of AI on Ocean Health Monitoring**" Joined with TECHTEMS, Tenkasi on 13.08,2024, 30 ECE students participated.

ECE Association organized a two-day Hands-on training “**Design Failure Mode and Effect analysis-LTSPICE**” for III ECE students on 27-9-2024 and 28-9-2024. The Expert is **Mr.T.Senthilkumar**, Senior Hardware Engineer, L& T Technology, Services. This Event is coordinated by C.Nagavani AP/ECE and P.Muthumari AP/ECE.

The ECE Association organized an event called “**Wire Wizards Competition**” for the II year ECE (A & B sec) students on 28.09.2024. coordinators: Dr.T.Pandiselvi and Mrs.P.Muthumari .

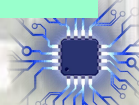




ECE-ISTE Student chapter organized a Guest Lecture on Health is Wealth for II ECE A and II ECE B students. Resource Person: Acu Healer Mrs.C.Selvam, Acupuncture Home Virudhunagar.Coordinator: Mrs.P.Ramalakshmi AP/ECE.

Dr.T.Prathiba, ASP/ECE, and Mrs.P.Muthumari, AP/ECE organized **"One day Faculty Development program - Recent trends in Artificial Intelligence for different applications"** under IETE chapter forum on 16.10.2024. Resource Person: **Dr.N.Prem Sankar**, PDF, Assistant Professor (Sr.Gr), Department of CSE, Vellore Institute of Technology, Chennai.

An **Industrial Committee Meeting** was convened on 16th November 2024 to align the academic curriculum with current industry standards. Esteemed professionals from the industry, including **Dr. S. Deepak Ram Prasath**, Director of Sravya Wireless Technologies, Madurai, and **Ms. Niranjanadevi V**, M.E., Technical Manager at MAXVY Technologies Pvt Ltd, Bangalore, participated in the meeting. Their insights and suggestions will contribute to the development of the 2025 Regulation curriculum framework.





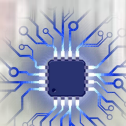
Dr.R.SURESHBABU, Dr.T.Prathiba and Mr.S.Alwyn Rajiv, ATAL FDP on "Beyond Moors Law: Machine Learning-Driven Approaches to Semiconductor Design". 16/12/2024 to 22/12/2024, 10 Resource persons from IISc Bangalore, NITT, VIT Vellore, TCE Madurai and industries of Entupe Technplogies , Bangalore / Chip Design Ltd., Chennai. 43 Participants (33 External and 10 Internal) were attended.

Resource Persons:

- 1.Dr. N. C. Shivaprakash, Professor, IISc Bangalore.**
- 2.Dr. S. Rajaram, Professor, Department of ECE, TCE Madurai.**
- 3.Dr. N.Prem Sankar, Assistant Professor (Sr.Gr), Vellore Institute of Technology**
- 4.Dr. N B Balamurugan, Professor, Dept of ECE, TCE Madurai .**
- 5.Mr.Navaneetha Krishnan V, Senior Field Application Engineering, Entuple Technologies Pvt. Ltd.**
- 6.Mr. Rajiv, Software Engineer, Microchip Technology**
- 7.Dr, M, Senthil Sivakumar, Assistant Professor Indian Institute of Information Technology, Trichy**
- 8.Dr.A.Amalin Prince, Professor, Dept of EEE, BITS Pilani, Goa.**
- 9.Dr.V.Nithish Kumar, Associate Professor, Dept of ECE, VIT Vellore.**
- 10.Dr. R. Suresh Babu & Dr. T. Prathiba, KCET**

EVENTS

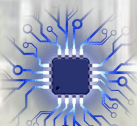
ATAL FDP on "Beyond Moors Law: Machine Learning-Driven Approaches to Semiconductor Design"





Faculty orientation Program for sixth semester new open elective subject, **System Programming**, introduced by HCL Technologies Pvt. Ltd., Madurai . The session handled by HR **Mr.Vijay**, Senior Embedded Technology Engineer, HCL, Madurai and the participants from ECE are Dr.R.SURESHBABU, Mrs.C.Nagavani, Mr.P.Aravind and Mr.R.Rajprabu. Dr.Rajesh Babu from MTR and Mrs.Uma Maheswari from EEE and Suresoft Team members like Mrs.Athilakshmi, Dr.Arthy, Dr.S.Ramya, and Dr.Praveen Kumar

9th BoS Meeting was organized on 07.12.2024 @ 2.00PM. at ECE Smart Class Room. The following Expert attended in Physical mode Dr. E. S. Gopi, Professor, NIT, Trichy; Dr. M. Sabarimalai Manikandan, Associate Professor, IIT, Palakad; Mr. M. Chinnathambi, Technical Lead, Viasat India, Global Infocity. The following Expert Connect through online Dr. A. Kannammal, Associate Professor, PSG College of Technology, Ms. A. Anto Amala, Associate Staff Engineer, Samsung Semiconductor India Research.

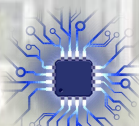




Value Added Course

III ECE students have attended the 5 days Value Added Courses on “**Data Science**” from 09th September to 13th September 2024. Resource Person: **M.Thanigaivel**, Project Engineer, Pantech E learning, Chennai. No. of Participants: 29, Co-ordinator: Mr. S. Alwyn Rajiv, AP/ECE

III ECE students have attended the 5 days Value Added Courses on “ **VLSI Design Verification and Simulation**” from 09th September to 13th September 2024. Resource Persons from : RVSIIT Tuticorin, No. Of students, Participants: 32, Co-Ordinator: Mr. R. Rajprabu, AP/ECE.





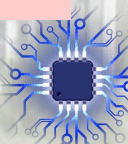
Alumni Involvement

2017 batch Alumni **Er. B. Palpandi** (Samsung, Bangalore) gave a Career Awareness program to our III-year ECE students on 11.07.2024.

Twenty final-year students attended a mock interview conducted by **Ms. Abishega** (Alumni), Silicon Validation Engineer at Tessolve Semiconductor Ltd., Bangalore, on 20 July 2024.

Twenty final-year students attended a mock interview conducted by **Mr. Johnson Amalraj** (Alumni), Silicon Verification Engineer, Microchip Technology, Chennai, on 20.07.2024..

Mock Interview conducted to Data Pattern Selected Students through online by **P. Manikanda Prabu** (Alumni 2018 -22 Batch), Hardware Design Engineer, Data Pattern, Chennai on 04.08.2024 (Sunday).

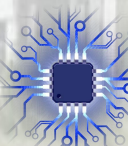




Alumni Involvement

Our College Alumni **Mr.Marish** (2005 EIE- Limca world Record holder) gave a guest lecture to IV ECE students on the topic Self Motivation. It is conducted at our ECE Association event on 19.08.2024.

Er. Gokul (ECE Alumni) came as a Judge for Evaluating 29 batches of the Internal Hackathon Competition going on 30.08.2024.



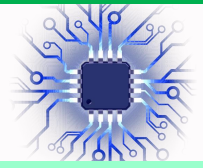
Faculty Promotion



Dr. T. Prathiba has been promoted to
the post of Associate Professor on
01.07.2024.



Resource Person



Mr. R. Raj Prabu, acted as the resource person in seminar on “IoT Revolution: Transforming Everyday Objects into Smart Devices” at Department of Computer Science, Valluvar College of Science and Management, Karur on 11.09.2024.

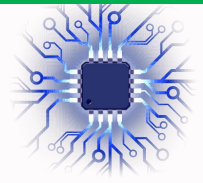
Mrs. C. Nagavani was invited by PSC School CEOSA team members as an Alumnus to talk on the topic “Insights into Internet of Things (IoT)” and provide a glimpse of career guidance regarding Engineering stream for grade XII students on 13/9/2024.

Dr.T.Prathiba, ASP/ECE acted as a resource person for Soft Skill Program conducted on 20.09.2024 for Session I (9.25am to 11.00am) and Session II (11.20am to 1.00pm) addressing the Topic “Logical Thinking” for the first-year students

Mrs.C.Nagavani AP/ECE acted resource person in one day seminar sponsored by IE in the title" Furure trends in IoT & Next Gen technologies for second year department of Mechanical students.



Resource Person



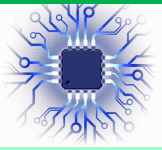
Dr. R. Suresh Babu delivered a Guest Lecture on the topic “**Top 10 Emerging Technologies of Electronics and Communication Engineering that will Change the World**” at Arasan Ganesan Polytechnic College, Sivakasi on 12.07.2024

Dr. R. Suresh Babu acted as a Resource Person in AICTE -ATAL One week FDP program on “Beyond Moore’s law : Machine Learning Driven Approaches to Semiconductor” on 19/12/2024, Topics : Journal Article Discussion & Reflex Journal

Dr. T. Prathiba acted as a Resource Person in AICTE -ATAL One week FDP program on “Beyond Moore’s law : Machine Learning Driven Approaches to Semiconductor” on 21/12/2024.



Funded Project - Faculty



Mrs. P. Ramalakshmi has applied and received Rs.10,000 as sponsorship from ISTE, Tamil Nadu Section for our International Conference Recent Trends in Science, Engineering and Technology

ATAL FDP has sanctioned Rs.3.5 Lakhs for the title on “Beyond Moore’s Law: Machine Learning – Driven approaches to Semiconductor Design” for ECE Department of Kamaraj College of Engineering and Technology, Coordinator: Dr. R. Suresh Babu, HoD/ECE, Co-coordinators: Dr. T. Prathiba ASP/ECE and Mr. S. Alwyn Rajiv AP/ECE.

SERB DST, New Delhi Sponsored Seminar Scheme Accepted a two days seminar in the topic of “Applications of Bio Sensors and Smart Healthcare Devices using Machine Learning Algorithms” Reference No : 282024002339 Convenor: Dr. R. SURESH BABU. Co - Convenor: Dr.T. PANDISELVI .

Dr. T. Prathiba (PI) & Dr. S. Nisha Rani (Co-PI), got Sanctioned **Kamaraj Seed Money** Grant research project proposal entitled "Automated Infrared Thermal Imaging(IRTi): A potential Instrument for prompt Diabetic Foot Complication Early Identification and Management via Deep Learning Techniques" on 27.12.2024. (Rs. 5,00,000/-)

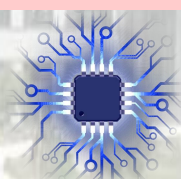
Funded Project Applied - Faculty

PI- Dr.N.M.Mary Sindhuja, Co-PI(s) - Dr.R.Sureshbabu and Mrs. P. Ramalakshmi, Applied for Funded Research Project to DLRL, Hyderabad through IITM Research Park, "Active VHF/UHF Antenna 20-1000 MHz", Total Amount : 20.37 Lakhs.

Dr.R.Sureshbabu, Dr.T.Prathiba, Mrs.P.Muthumari applied the TNSCST – DIT Proposal under this title “Empowering Women Through Skill Development: Unlocking the Medicinal Value of Athalakkai (Momordica Cymbalaria) for Sustainable Livelihoods of Kallikudi block of Madurai District and Virudhunagar block of Virudhunagar District, Tamil Nadu”.

Dr.R.Sureshbabu, Dr.T.Prathiba, Mr.S.Alwyn Rajiv applied the TNSCST – DIT Proposal under this title “Protecting Farmland: Sensor-Based Training to Keep Wild Boars and Animals at Bay in Kallikudi block of Madurai District, Tamil Nadu”.

Dr.R.Sureshbabu, Dr.T.Prathiba, Mr. P. Aravind applied the TNSCST – DIT Proposal under this title “Smart Farming, Smart Livelihoods: IoT Skill Development for Empowering Farmers and SHGs of Kallikudi Block and Virudhunagar Block, Tamil Nadu”.



Funded Project Applied - Faculty

Dr.T.Pandiselvi & Dr .R.Suresh Babu applied TNSCST 2024 Projects Scheme in the following title “partially mechanized to efficient conversion of seema karuvelam tree into charcoal using solar cell partially mechanized to efficient conversion of seema karuvelam tree into charcoal using solar cell”.

Dr.T.Pandiselvi & Dr .R.Suresh Babu applied TNSCST 2024 Projects Scheme in the following title “Agri Fusion Machine : Smart Agriculture”

Dr. T. Pandiselvi & Mr. S. Alwyn Rajiv applied TNSCST 2024 Projects Scheme for the following title “Enhancing Entrepreneurship Through Innovation And Technology For Potters Development In Tamil Nadu”

Dr.N.M.Mary Sindhuja, Dr.R.Suresh Babu and Mrs.P.Ramalakshmi applied TNSCST 2024 Projects Scheme in the amount of Rs.4,98,700.

Dr. R. Suresh Babu, Dr. T. Prathiba and Mrs. P. Muthumari applied TNSCST 2024 Project Scheme in the title of “Revolutionizing Spinning Processes Through Automated Thread Break Detection (TBD) using Deep Learning Approaches”

Patent Granted

Design Patent filled, topic is “**AI based irrigation sytem for water conservation**” **Dr. T. Pandiselvi, Mrs. P. Muthumari ,Mr. P Aravind and Mrs. C. Nagavani.** Ref.No : 430286-001.

Dr.T.Prathiba, ASP/ECE, Utility Patent has been granted on 01.10.2024 for “**Thermal Face Recognition using Multi Resolution Transform for Biometric Authentication**”.

Dr.N.M.Mary Sindhuja, Dr. S. Kanthamani , Dr. S. Mohamed Mansoor Roomi and Dr. S. Padmavathi Ordinary application patent titled “**Compact Space Filling Curve Based Rf Mems Phase Shifters For 5G Applications**” has been granted on 30/12/2024, Patent Number :557051



Patent Filed

Dr. T. Prathiba, Dr. R. Suresh Babu, Mrs. P. Muthumari, Dr. S. Nisharani and Mrs. P. Ramalakshmi and C. Ariswaran, S. Ramachndra Boopathi, A. Bose, M. Sugumar of III ECE students filed a Design patent titled “**Yarn Breakage Detection Device with Integrated Camera Slider**”.

Dr. T. Prathiba, Dr. S. Nisha Rani, Dr. R. Ramya, Dr. R. Sureshbabu, Mr. R. Sakthivel Murugan, Mr. R. Ashok, Mr. P. Aravind faculties of ECE, Mechanical and UG students of ECE R. Sukil Kumar, A. Ebby Allan Raj, G. Dhanush, C. Dhanushdeva, P. Archana, S. K. Dinesh Kumar, R. Tejaswi have filed the Design Patent on title “**Tyre Damage Detection Device**” on 06.12.2024.



Book / Book Chapter

Mr. S. Alwyn Rajiv, AP/ECE Published the Book Chapter Titled "**Hyperautomation for Automating the Customer Service Operations**" Page No: 207-228 in Hyperautomation for Next-Generation Industries, Wiley Publication. Print ISBN:9781394185825 |Online ISBN:9781394186518, DOI : 10.1002 / 9781394186518.ch8.

Dr.N.M.Mary Sindhuja, R. Mathu Mietha, T. N. Avushatha, and Karthiga Devi V. Published a Book Chapter titled " **Design of microstrip patch antenna for skin cancer detection**" in the Book “Antennas for Industrial and Medical Applications with Optimization Techniques for Wireless Communication” CRC Press during December 2024, ISBN: 9781032774978 which is indexed in SCOPUS and Web of Science (WoS).



Journal Publication

T. Pandiselvi ,G. M. Karthik, Vinodkumar Jacob, B. Nancharaiah
“ An intelligent framework for attack detection in the internet of things using coati optimization” Wireless Networks (2024).
<https://doi.org/10.1007/s11276-024-03857-4>.

Copy Right Submitted

Dr. N.M.Mary Sindhuja, Associate Professor/ECE,
Mrs.P.Ramalakshmi, Assistant Professor/ECE, and **Dr.R.Suresh Babu**, Professor & Head/ECE, have submitted copyright "A Laboratory Manual For Antenna Design" on 23.10.2024

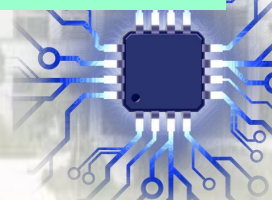


Conference Presented by Faculty

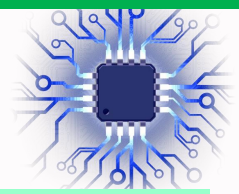
Ashok R, presented his research work “Identification for Cancer prevention and balanced nutritional strategies exploring plant-based compounds” in the International Conference on Next Generation Materials and Devices, Organized by Dept. of Physics, School of Advance Science, Kalasalingam University on 01.08.2024 to 03.08.2024.

Mr. S. Alwyn Rajiv, has presented paper titled “Waste Segregation using IoT and Machine Learning” in the 4th International Conference on Advancement in Electronics & Communication Engineering (Technically Sponsored by IEEE) held on 22nd – 23rd November 2024. Organized by Raj Kumar Goel Institute of Technolgy, Ghaziabed (U.P).

Mr. S. Alwyn Rajiv presented the Paper “An Intelligent Recommendation of Organ Transplantation System Machine Learning for Donor Recipient Matching” in the Fifth International Conference on Sustainable Communication Networks and Application (ICSCNA 2024) held during 11-13 December 2024. Organized by Bharath Niketan Engineering College



Reviewer



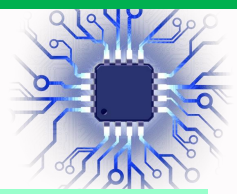
Dr. R. Suresh Babu received a reviewer certificate for the IEEE International Conference on Networks, Multimedia, and Information Technology organized at Nitte Meenakshi Institute of Technology, Bengaluru on 09 & 10.08.2024.

Dr. N. M. Mary Sindhuja received a reviewer certificate for the IEEE International Conference on Networks, Multimedia, and Information Technology organized at Nitte Meenakshi Institute of Technology, Bengaluru on 09 & 10.08.2024.

Dr. R. Suresh Babu, recognition for exemplary peer review of the manuscript entitled “Development and Analysis of General-Purpose Drone” in Journal of Aerospace Engineering & Technology. (ISSN: 2231-038X).

Dr. R. Suresh Babu, recognition for exemplary peer review of the manuscript entitled “Fabrication of Fire Extinguisher Drone in Journal of Aerospace Engineering & Technology. (ISSN: 2231-038X).

Reviewer

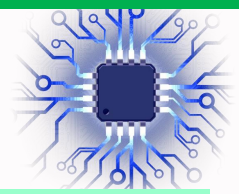


Dr. T. Prathiba, Associate Professor/ECE, received a reviewer certificate for the 2nd IEEE International Conference on Data Science and Network Security (ICDSNS – 2024) organized by Kalpataru Institute of Technology, Tiptur, 26th – 27th July 2024.

Mr. S. Alwyn Rajiv, as a member Technical Program committee and reviewer during the 5th Congress on Intelligent Systems (CIS 2024), organized by the Department of Computer Science and Engineering, CHRIST (Deemed to be University), Kengeri Campus, Bangalore, and Liverpool Hope University, UK on September 04th & 5th, 2024. CIS2024 Is sponsored by the Science and Engineering Research Board, Department of DST, Government of India (ANRF) and the Soft Computing Research Society, New Delhi

Dr.N.M.Mary Sindhuja Received Reviewer certificate from the scientific Journal International Journal of Electrical and computer Engineering on 22/11/2024

Reviewer



Dr. N. M. Mary Sindhuja received a Reviewer certificate for the IEEE International Conference on Distributed Systems, Computer Networks and Cybersecurity ICDSCNC 2024 organized by Sri Krishna Institute of Technology, Bangalore, on 20/9/2024 and 21/9/2024

Dr.R.Sureshbabu has assigned as an Editor of the Journal Current Trends in Signal Processing , STM Journal, Noida

Faculty Internship Attended

Dr. R. Suresh Babu has completed One Week Internship Programme in “Mastering AWS: Cloud Computing & Services” in Marcello Tech, from 23.08.2024 to 30.08.2024.

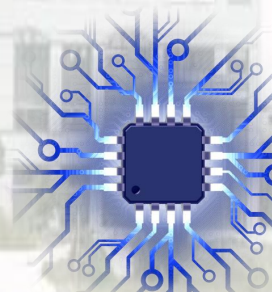
Dr. T. Prathiba has completed One one-week internship Programme in “Mastering AWS: Cloud Computing & Services” in Marcello Tech, from 23.08.2024 to 30.08.2024.

Workshops / FDP Attended

1. **Dr. S. Nisha Rani** attended Five Day FDP cum Hands-on Workshop on Wireless Communication Technologies for Beyond 5G Systems in hybrid mode organized by IIIT Kottayam from 24.06.2024 to 28.06.2024.
2. **Mrs. C. Nagavani** attended 6 days of Online International FDP (Faculty Development Program) on “Emerging Trends in Electronic Circuit Design, Signal Processing, And Communications” conducted by KLEF to be deemed a university, Hyderabad, Telangana from 01.07.2024 to 06.07.2024.
3. **Dr. T. Pandiselvi** attended 6 days Online International FDP (Faculty Development Program) on “Emerging Trends in Electronic Circuit Design, Signal Processing, And Communications” conducted by KLEF to be deemed by the university, Hyderabad, Telangana from 01.07.2024 to 06.07.2024.
4. **Dr. R. Suresh Babu** attended the FDP on “Harnessing Artificial Intelligence for Health Care Excellence Innovation, insight and Impacts” at SRM Institute of Science and Technology in June 2024.



5. **Dr. R. Suresh Babu** attended an online webinar meeting with Mr. Shin Teo , AWS Academy for activation of AWS academy in our College.
6. **Dr. N. M.Mary Sindhuja** attended AKTU Sponsored Online Faculty Development Programme on “Design & Development of Biomedical Antennas” Conducted by the Department of Electronics & Communication Engineering, KIET Group of Institutions, Ghaziabad, U. P. on 22.07.2024 to 26.07.2024.
7. **Dr. N. M.Mary Sindhuja** attended six days of International FDP on "Harnessing Artificial Intelligence for Healthcare Excellence: Innovation, Insights and Impacts organized by the Department of Biomedical Engineering, SRM Institute of Science and Technology, Ramapuram from 24.06.2024 to 29.06.2024.
8. **Mrs. P. Muthumari**, attended the One Week International Virtual Faculty Development Programme on “Exploring Emerging Trends and Future Directions in Machine Learning - Integrated VLSI Design” organised by the ECE Department, SRMIST, Ramapuram. 03.07.2024 to 10.07.2024.
9. **Mrs. P. Ramalakshmi**, attended an Online Seminar on Modern Research Tools organized by R&D Cell Kamaraj College of Engineering and Technology on 31.07.2024



10. **Dr. T. Prathiba**, ASP/ECE participated in a One-week Industry industry-oriented online Faculty Development Program on “Next Gen Sustainability Innovations: Pioneering Electric Vehicles and Renewable Energy Grid Integration” From 29.07.2024 to 2.08.2024, organized by SR University Warangal, Telangana, India.
11. **Mrs. P. Muthumari**, AP/ECE participated in a One-week Industry Oriented Online Faculty Development Program on “Next Gen Sustainability Innovations: Pioneering Electric Vehicles and Renewable Energy Grid Integration” From 29.07.2024 to 2.08.2024, organized by SR University Warangal, Telangana, India
12. **Mrs.P.Ramalakshmi**, Assistant Professor ECE, attended the six-day online FDP on “The Latest Advancements in RF technologies in 5G and beyond” from 30.07.2024 to 06.08.2024, organized by the ECE department, Rajalakshmi Engineering College.
13. Dr. S. Senthil, Principal, Dr.R.Sureshbabu,HoD/ECE, Dr.Prince Winston, HoD/EEE and Dr.Meenakshi, HoD/CSE have attended with ICT Academy members of Mr.Poorna Prakash and Mr.Murali for organizing a conclave for Engineering College faculty members in the areas of Electronic System Design, AVCG, and Smart Manufacturing during our vacation. ICT Academy, Chennai, will sponsor the event on 01.10.2024.
14. Dr.N.M.Mary Sindhuja attended ATAL FDP titled “Reconfigurable Intelligent Surfaces for 6G Wireless Communication: Fundamentals to Future Research Directions Next Gen Communications Engineering and Management” from 23/12/2024 to 28/12/2024 organized by National Institute of Technology, Trichy.

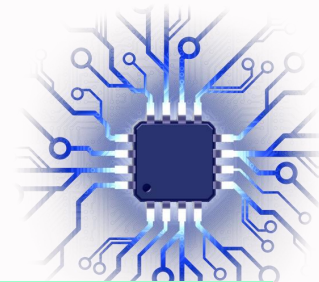


15. Mrs. P. Ramalakshmi attended ATAL Faculty Development Program on Gen AI - Novice to Master at SRI SAI RANGANATHAN ENGINEERING COLLEGE from 09/12/2024 to 14/12/2024.
16. Dr. T. Prathiba & Dr. S. Nisha Rani, attended one day webinar in Agri Tech careers - "AI & MLTools for Agriculture" organised by Krishi Academy & Bioresearch community on 29.01.2025

ECE



Industry / Institute Visited by Faculty



Mr. R. Ashok attended and presented at the function, the Bangalore Tamil entrepreneurs meet in Bangalore on 05.07.2024.

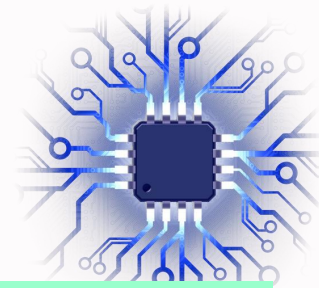
Dr.T.Prathiba, ASP/ECE and Mrs.P.Muthumari, AP/ECE with 11 ECE students visited Madurai Agribusiness Incubation Forum at Maduari on 05.09.2024

Mr R. Raj Prabu visited Kani Dhall Mills at Virudhunagar for Consultancy Project on 10.09.2024.

Dr. N. M. Mary Sindhuja , ASP/ECE and Mrs. P. Ramalakshmi, AP/ECE has visited the Company Quatek Technologies India Pvt Ltd. Madurai.

Dr. R. Sureshbabu, Dr. T. Prathiba, Dr. S. Nisha Rani, Mr.R.Ashok, Mr.P.Rajprabhu, Mrs.P.Muthumari and Mrs.P.Ramalakshmi have visited ISRO Mahendragiri with our Management members. They had attended the International Space Week valedictory function on 10.10.2024 at ISRO and Interacted with scientists Mr.Murugan and Mr.Ramanathan

Industry / Institute Visited by Faculty



Dr. R. Suresh Babu visited ISRO - Mahendragiri, Thumba, VSSC, Trivandrum on 20.11.2024.

Dr.R.SURESHBABU and Dr.D.Prince Winston had visited the Space Zone Technologies Pvt. Ltd, Chennai on 3/12/2024, for studying Sound Rocket launch, Satellite design and Training to our Kamaraj Space Club students. Both had Visited TNSCST office Chennai and met member secretary Prof.Dr.Vincent for establishing Nodal Center for IPR in our College.





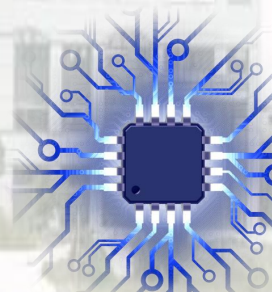
Faculty Achievements



Dr. R. Suresh Babu received Appreciation from Tamil Nadu's Governor, R. N. Ravi, I.P.S., for his excellence in research work Contribution. on 13/7/2024

Mr. P. Aravind was appointed as BoS member in the Department of ECE, VSVN Polytechnic College, Virudhunagar, and attended the 14th BoS meeting on 27.07.2024 (Saturday) at VSVN Polytechnic College.

Mrs. P. Muthumari, won the Best Mentor Award - Kalam Award on 15.10.2024.





Faculty Achievements



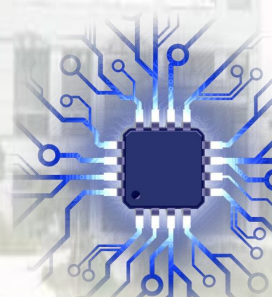
NPTEL Course Completed

Mrs.P.Muthumari, AP/ECE successfully completed NPTEL Online Certification 12-week course titled “Microelectronics: Devices to circuits”.

C.Nagavani AP/ECE has completed “The Joy of computing using python” Nptel 12-week Course exam and received Elite Grade in the exam.

Dr. S. Nisha Rani has Completed “Data Science using Python”, Nptel 12 week course and Scored 76%.

Mrs.P.Ramalakshmi, AP/ECE successfully completed NPTEL Online Certification 8-week course titled “Analysis and Design Principles of Microwave Antennas”.



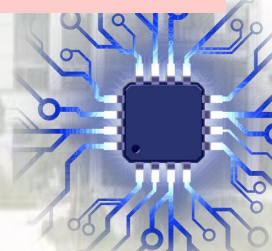
Funded Project Applied - Student

IV ECE Students Dhivya Dharshini. A, Padma Lokshana.M, and Divya.S Submitted the TNSCST Student scheme proposal under the title of “ROBAGE: A SMART TRASH PICKER”. Guide: Mrs. P. Ramalakshmi.

Dr.N.M.Mary Sindhuja, V.Srikanth, R.Bharath Vaj and L.Noble Richard submitted a TNSCST project proposal titled “DEVELOPMENT OF H ORDER CURVE-BASED RECONFIGURABLE ARRAY ANTENNA FOR IoT APPLICATIONS IN SMART CITIES” for Rs 10,000.

Dr.N.M.Mary Sindhuja, R.Pushpa Rathina, A.Anu Karthiga and V.Yuva shree submitted a TNSCST project proposal titled “Skin Cancer Detection using Array Antenna and Machine Learning” for Rs. 10,000.

C.Nagavani AP/ECE and the final year students, Uvaraj.A, Senthilmurugan. K and Vetrivel. B applied for the TNSCST proposal in the title" Smart Vision Integrated water surface cleaning Robot for Enhanced water quality management" on 9-9-2024.



Funded Project Applied - Student

III ECE Students BHARVATHI S, and SRI DEVI SRI M project proposal named “System to Check The Healthiness Of Earthing System And Alert Staff In Case Of Any Malfunction” was short-listed in the first round for “FAER Scholar Award Program 2024 - 2025”. Mentor: Mr. S. Alwyn Rajiv, AP/ECE.

ECE



Conference Presentation- Student

II year ECE B Students, K.Mukesh and S.Mohmed Fazil have presented the paper in Global Conference on Advanced Materials and Processing , held at Sai Ram Engineering College, Chennai on 12&13/09/2024. Guide : Dr.Manikandan AP/Physics

Dr.N.M.Mary Sindhuja, V.Srikanth, R.Bharath Vaj and L.Noble Richard presented a paper titled “DESIGN OF SPACE FILLING CURVE BASED RF MEMS PHASE SHIFTER FOR RADAR APPLICATIONS” in the Springer Nature - International Conference on Advanced Communication & Computational Devices (ICACCD) 2024 organized by Acharya Institute of Technology, Bangalore on 4/10/2024 and 5/10/2024.





Student Achievements



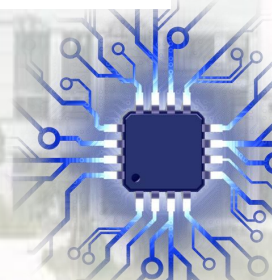
NPTEL Course Completed

III-Year ECE Student **TEJASWI R** Successfully Completed NPTEL Online Certification 12 Week Course on “Electronics Systems for Cancer Diagnosis” with 83% Score (Elite + Silver).

III-Year ECE Student **SHRUTIKA V** Successfully Completed NPTEL Online Certification 12 Week Course on “Electronics Systems for Cancer Diagnosis” with 65% Score (Elite).

III Year ECE Student **M.Sri Devi Sri**, successfully completed NPTEL course 12 weeks, “Introduction to Internet of Things”, Elite, score of 73% (July – October 2024).

III Year ECE Student **S.Bharvathi**, successfully completed NPTEL course 12 weeks, “Introduction to Internet of Things”, Elite, score of 73% (July – October 2024)





Student Achievements



IV ECE Student **A. Uvaraj** won the first prize cash amount of Rs. 1000 in the paper presentation event in PSR Engineering College on 20.09.2024.

S. JaiSiddarth and L. Parameshwaran of II ECE A participated and won 3rd Prize in Tech-Vision(Paper Presentation) Event in the National Level Technical Symposium- ELECTROSPHERE 2K24 on 20th September 2024 conducted by PSR Engineering College



IV ECE Students **Sheeba Elizabeth, Yuvasri T, Dharshini** won the second prize and a Rs. 3000 gift voucher in the paper presentation event on 25.09.2024 held at Hindustan Engineering College. Title: Non-electrical device for tilting the solar panel based on sun's direction





Student Achievements



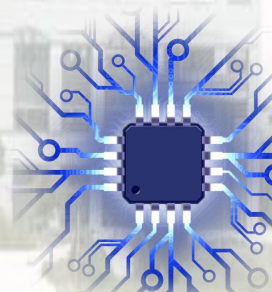
A.Balaji (IV ECE) and S.Mariprakash (II ECE) has won First Prize (cash prize of Rs 1500) in Startup Ideathon at CAMCEE 4.0-A National Level Technical Symposium organised by Jansons Institute of Technology, Coimbatore on 04.10.2024. Startup Idea-Value-added product from Betel leaves



C. Ariswaran and S. Ramachandra Boopathi (III ECE) has won second prize(cash prize of Rs. 1500) in project presentation at CAMCEE 4.0-A national level technical symposium organised by Jansons Institute of technology , Coimbatore on 04.10.2024. Project- Thread Detection in Spinning Mill.



E.Jerlace Selin,J. Rithika ,M.Marieswari won first prize in the technical quiz in Techathon '24 at Sri Ramakrishna Institute of Technology, Coimbatore on 9.10.2024.





Student Achievements



Tejaswi.R and Shrutika.V (III- ECE) won first prize(cash prize Rs.1000) in Paper presentation at GNYAN ELECTRACOMMUNIX-A national level technical symposium organised by Gnanamani College of Technology, Namakkal on 09.10.2024.



V.Irfan and R.Praveen Raj (III ECE) we won first prize (cash prize of Rs. 1000) in paper presentation at SCIENSEA'24 A national level technical symposium organised by Kongu Engineering College , Erode on 05.10.2024.



IV ECE Students **Ramprasath R, Dharanidhran R, Srikanth S.** chosen as the distinguished recipients of the Dr. Kalam Young Achiever Awards for the year 2024 by World Youth Federation, award ceremony at AC Tech (Anna University) Campus, Guindy, Chennai. On 15.10.2024 .

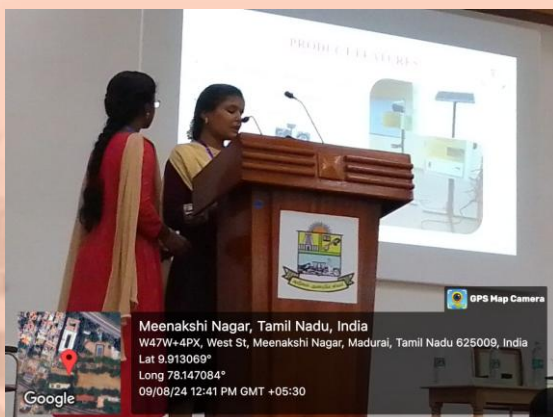




Student Achievements



Captured Highlights





Student Achievements



Captured Highlights

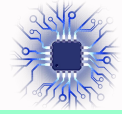




Student Participation



Co - Curricular Activities



M.BalaKavinesh of II ECE A participated in Tech-Vision(Paper Presentation) Event in the National Level Technical Symposium-ELECTROSPHERE 2K24 on 20th September 2024 conducted by PSR Engineering College.

IV ECE Students Ramprasath R, Dharanidharan R., and Srikanth S participated in the Project contest in Dr. Kalam Young Achiever Award 2024 at Sethu Institute of Technology on 23.09.2024. Project Title: “Zero Impact Waste Management with Smart Emissions Controller”.

Ashif Ahamed J, Sankar M of III ECE Participated in paper presentation - “TECH VISION” held at PSR Engineering College on 20/09/2024.

Mari Muneeshwar of III ECE participated in the paper presentation - “TECH VISION” held at PSR Engineering College on 20/09/2025.

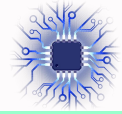
P.Varsha Devi, P.Archana, R.Bala (III-ECE) participated in AI POWER-2024 Project Expo organized by IEEE student branch at Kalasalingam Academy of Research and Education on (28.09.2024) on topic RAEDAM TECH VISIONARIES.



Student Participation



Co - Curricular Activities



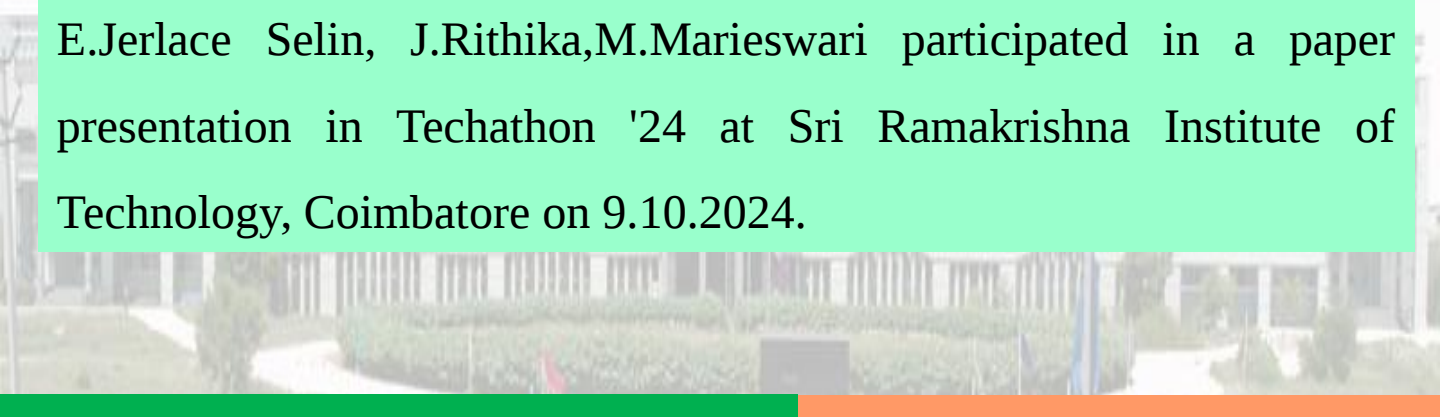
Ebby Allan Raj. A, Dhanush. G, Dhanushdeva. has participated in "AI Power - 2024 Project Expo" at Kalasalingam Academy of Research and Education on 28.09.24

S. Vimalraj and A.Bose has participated in the project presentation-PedNexus(Smart education) at CAMCEE 4.0-A national-level technical symposium organised by Jansons Institute of technology, Coimbatore on 04.10.2024.

Dhanush. G, Ebby Allan Raj. A, Sakthi Suriya. R, Ameer Ajmal. M. B has participated in the project presentation in the national-level technical symposium at Sri Sai Ranganathan College of Engineering and Technology on 4.10.24.

Sakthi Suriya. R, Ameer Ajmal. M. B has participated in the paper presentation in the national level technical symposium at Sri Sai Ranganathan College of engineering and Technology on 4.10.24.

E.Jerlace Selin, J.Rithika,M.Marieswari participated in a paper presentation in Techathon '24 at Sri Ramakrishna Institute of Technology, Coimbatore on 9.10.2024.

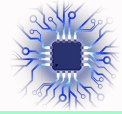




Student Participation



Co - Curricular Activities



E.Jerlace Selin, J.Rithika, M.Marieswari participated in the project expo in Techathon '24 at Sri Ramakrishna Institute of Technology, Coimbatore on 9.10.2024.

P. Gokul, S. Dharun Vaishnav, S. Pradeepkumar(III ECE) we participated in project presentation at SCIENSEA'24 A national-level technical symposium organised by Kongu Engineering College, Erode on 05.10.2024.

V.Irfan and R.Praveen Raj (III ECE) we participated in project presentation at SCIENSEA'24 A national level technical symposium organised by Kongu Engineering College , Erode on 05.10.2024.

Reshma.R (22uec028), K.M.S.Dhesika (22uec039), Participated in technical event - clueless code and non-technical event(picrow rash) in PSR engineering college at Sivakasi on 17/10/2024.

Rajarajeswari R (22uec036), Dharshini V (22uec024), Participated in paper presentation and non technical event(Spotify vibe) in PSR engineering college at Sivakasi. on 17/10/2024.

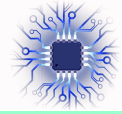




Student Participation



Co - Curricular Activities



S.C.Himagowri(22uec038) and S.Jenisha(22uec052) participated Paper presentation in PSR College of engineering and technology in Sivakasi, 17/10/2024.

Parameswaran I, Mariprakash S, Yukesh S, Khaja Moinudeen of II ECE A have completed National Level Srinivasa Ramanujan Mathematics Competitions Level 3- 2024, conducted by ISTE Tamil Nadu Section on 23rd and 24th November 2024

Mohamed Murshal Ibrahim. T, Clarence. J, Nitish. B.S of II ECE participated in the Seed hackathon as a team. Participated in Hackathon, SEED Hackathon 2024, co-presented by Boston University and George Washington University was conducted by Seed Global Education, Mumbai on 18th November 2024 in the field of Cybersecurity. This is the Online Hackathon.





Student Achievements



Extra Curricular Activities

III Year ECE Student Sri Devi Sri. M (22UEC025), received 'B' Certificate from NCC, Virudhunagar Battalion.

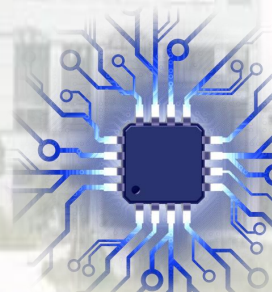
III Year ECE Student Himagowri. S. C (22UEC038) received 'B' Certificate from NCC, Virudhunagar Battalion.

III Year ECE Student Karthiga Rani. M (22UEC056) received 'B' Certificate from NCC, Virudhunagar Battalion.



IV ECE Student Abhiksha Received third prize in the event group discussion and stress interview held at JCI Sivakasi on 08th September 2024.

K.K.Harshini II ECE A won the Runners in CM Trophy(Table Tennis) College category and received a cash prize of Rs. 20000, conducted at Sowdambiga Engineering College, Arupukottai on 15.09.2024.





Student Achievements



Extra Curricular Activities



K. Dharshan of II ECE A participated in the CM trophy- Cricket Match and won the Runner-up cup in Virudhunagar

R.Rishikesh of II ECE A participated in the CM trophy- Badminton (doubles) and selected for State Level in Virudhunagar

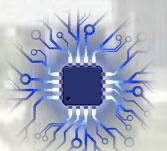
R, Manoj of II ECE A participated in the CM trophy- Football Match and won Fourth place in Virudhunagar.

Balaji K of III ECE participated in the CM Trophy regional Judo match held at MGR stadium, Madurai on 19/09/2024.

Gopinath P of III ECE participated in Solo singing and Orchestra Competition - "LEGACY 2024" held at MEPCO Engineering College, Madurai on 19/09/2024.



IV ECE students T. Yuvasri, V. Yuvashree and S. Diviya won the first prize and cash amount of Rs. 1000 in the group dance held at Hindustan institute of Technology on 25.09.2024.





Student Achievements



Extra Curricular Activities



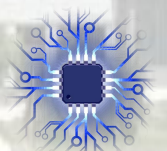
S.Udhaya Sankar III ECE won first price in “Pass the Same Thing” Non technical event in CAMCEE 4.0 National Level Talent Fest held at Jason’s Institute of Technology, Coimbatore on 04/10/2024.

M.Ashok Kumar III ECE won second price in “Brain Sprint” Non technical event in CAMCEE 4.0 National Level Talent Fest held at Jason’s Institute of Technology, Coimbatore on 04/10/2024.



Ashif Ahamed J (22UEC053) won runner up in basketball zonal match held at Chettinad College of Engineering and Technology, Karur on 30.09.2024.

L.Immanuvel(22uec040) participated in CM TROPHY STATE LEVEL FOOTBALL TOURNAMENT at JAWAHARLAL NEHRU STADIUM, Chennai on 14.10.2024 to 15.10.2024.





Student Achievements



Extra Curricular Activities

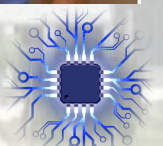


Ragavan N (22uec032), got 3rd prize in kabaddi zonal tournament at Christan college Dindigul on 16.10.2024.

Second year ECE boys Harikrishnan and Sankar Sathees of KCET Kabaddi Team won third place in Anna University 17th Zone Intercollegiate Kabaddi tournament for boys on 16-10-2024.



IV ECE student Sathish Kumar Balaji Secured 2nd place in 17th zone (Hammer Throw) held in PSNA college of engineering on 24.11.2024.





Student Achievements



Extra Curricular Activities



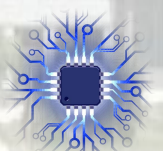


Student Achievements

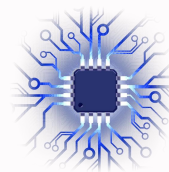


Entrepreneurship

Mohamed Murshal Ibrahim. T (II Year ECE - A), Mariprakash. S (II Year ECE - A), Balaji. A (IV - ECE) have registered in MSME Udyam Registration today sir. Number UDYAM TN- 32-0071609.



Industry / Institute Visited by Student

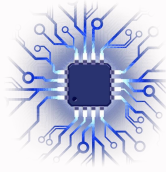


III ECE 32 students Visited Tessolve Semiconductor Pvt. Ltd., Visvesvaraya Industrial & Technological Museum & HAL , Bangalore on 13.08.2024 & 14.08.2024. Faculty Incharge: Mrs. P. Ramalakshmi, Mr. S. Alwyn Rajiv.

Nearly 18 students and 2 faculty members visited to Atal Community Innovation Centre (ACIC) – MEPCO Innovative Foundation, Mepco Schlenk Engineering College, Sivakasi on 23.08.2024 under EDC cell of Kamaraj College of Engineering and Technology.. From ECE six students visited with Dr.T.Prathiba, EDC incharge

Dr.T.Prathiba, ASP/ECE, Abhiksha.G (21UEC004), Kiruthiya Vaishnavi.S (21UEC016), Archana.P (22UEC029), Varsha Devi (22UEC007) Went to a visit to Meenakshi Super Specialty mission hospital and Saravana stores to explore the real-time parking system on 25.08.2024.

Industry / Institute Visited by Student



Mrs.C.Nagavani, Dr.T.Pandiselvi, Mr.R.Asok and Mr.P.Aravind have visited the following companies: Lahari Electronics Test Company, Mysore, Leepa Technology Pvt Ltd, Mysore, with II year ECE Students on 04.10.2024 & 05.10.2024



Memorandum of Understanding

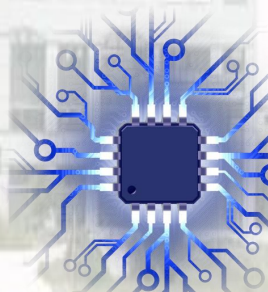
MoU signed with AICIC, Mepco Schlenk
Engineering College, Sivakasi on
11.07.2024.



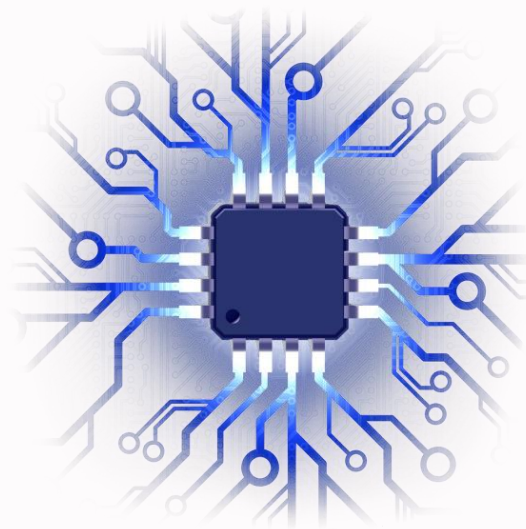
Inaugural function of the Centre of Excellence

Inaugural function of the Centre of Excellence in Artificial Intelligence with the Internet of Things, organized by the Department of ECE. Chief Guest Mr. M. R. Senthil Kumar, Director, and Mr. Kumarasamy, Executive Marketing Manager, Pantech eLearning Private Limited, Chennai on 5.11.2024. Center of Excellence -Pantech e-learning.

4 Lakhs of Equipment were received with free of cost.



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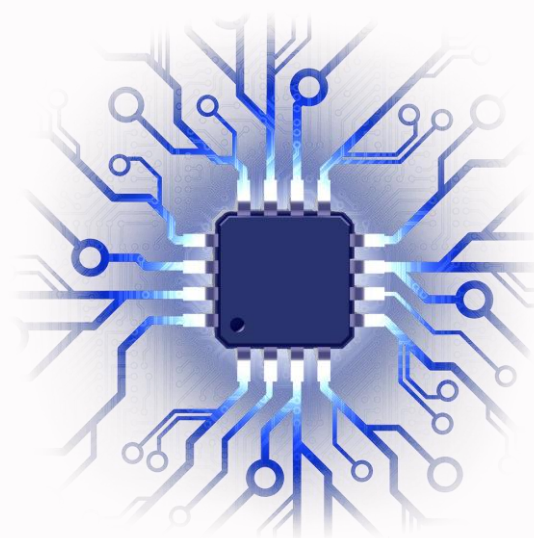
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INSPIRATIONAL QUOTE

*Small aim is a
crime. Have
great aim.*

Apj abdul kalam

