ATME College of Engineering

Electronics & Communication Engineering

ECHELON – ECE Newsletter

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Message from Principal

Proud to present the latest edition of our ECE newsletter, highlighting the remarkable efforts of our faculty and students. Best wishes to the team for ongoing excellence.

Regards
Dr. L Basavaraj
Principal, ATMECE

Message from HoD

It is a privilege to present Volume 12, Issue 2 of the ECE Department newsletter. This edition showcases the collective dedication and achievements of our faculty, staff, and students. I sincerely thank all contributors and encourage continued excellence in all endeavors.

Sincerely
Dr. Prathibha M K
HOD, ECE

Editorial Committee

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Dr. Prathibha M K
HoD

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Mr. Chandra Shekar P
Assistant Professor

Members

Mrs. Madhurya M Eshwar
Assistant Professor

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Mr. Yashwanth C N
Mr. Shashanka
Ms. Keerthana
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About the Department

The Department of Electronics and Communication Engineering at ATME College of Engineering was established in 2010 with an initial intake of 60 students, which was increased to 120 in 2012 owing to rising academic demand. The department offers a four-year B.E. program and Doctoral programs, with a strong focus on both core and advanced domains such as Wireless Communication, Signal and Image Processing, VLSI and Embedded Systems, Biomedical Engineering, and Advanced Control Systems. Accredited by the National Board of Accreditation (NBA), New Delhi, the program reflects high academic standards and a commitment to continuous improvement. The department is supported by state-of-the-art infrastructure, including advanced laboratories and computing resources, fostering experiential learning and research.

Key facilities include a VLSI Lab equipped with Cadence tools (30-user license), an IoT Lab for system integration and real-time applications, and an NI LabVIEW Lab for virtual instrumentation and automation. These labs support hands-on learning, project development, and innovation. The department boasts a team of highly qualified faculty with multidisciplinary expertise and a strong research orientation. A well-stocked collection of textbooks and reference materials further supports student learning and academic excellence. Through its blend of rigorous academics, practical exposure, and industry-aligned training, the department aims to produce technically competent, innovative, and globally competitive engineers.

Vision of the department

To develop highly skilled and globally competent professionals in the field of Electronics and Communication Engineering to meet industrial and social requirements with ethical responsibility.

Mission of the department

- To provide State-of-art technical education in Electronics and Communication at undergraduate and post-graduate levels, to meet the needs of the profession and society and achieve excellence in teaching-learning and research.
- To develop talented and committed human resource, by providing an opportunity for innovation, creativity and entrepreneurial leadership with high standards of professional ethics, transparency and accountability.
- To function collaboratively with technical Institutes/Universities/Industries, offer opportunities cfor interaction among faculty-students and promote networking with alumni, industries and other stake-holders.

Staff Achievement

- FDP on “Cyber Security Awareness and Emerging Technologies for Secure Social Media & Banking Applications” from 10/03/2025 to 12/03/2025 at ATMECE, Mysuru attended by All the staff of Electronics and communication
- Mr. Chandra Shekar P and Ms. Anupama Shetter has attended **One week FDP** titled **“The Art of Writing Original Research Article”** organized by ProMind Research Academy, Erode from 2/6/2025 to 6/6/2025.
- Ms. Anupama Shetter has attended **two weeks FDP** titled “Advance Tools and Techniques for Research Methodology” organized by Research Foundation of India from 02/06/2025 to 12/06/2025
- **Workshop on Patent Drafting, Filing & Interpretation** from 12/06/2025 to 14/06/2025 at ATMECE, Mysuru attended by all the staffs of ECE Department.
- Mr. Chandra Shekar P has successfully completed **Intellectual Property Rights** on Udemy Platform on 18/06/2025
- Mrs. Anupama Shetter, Mrs. Keerthi A Kumbar, Mrs. Madhurya B Eshwar and Mrs. Spoorthi.PN has attended **3-day National level FDP on “IKS”** from 5/3/25 to 7/3/25
- Mrs. Spoorthi PN has attended **National Board of Accreditation Awareness Workshop on “Outcome based Education and Accreditation”** at Ramaiah University of Applied Sciences, Bengaluru on 22/03/2025
- **Dr. Bhagyashree S. R.** was **Program Convener** for various events-“ Self Defence Through Martial Arts Women Cell in association with CICC held on 17th March 2025”, “International Women`s Day 2025”.

NPTEL SWAYAM Courses Completed

- **Dr. Shalini Hanok**- "NBA Accreditation and Teaching and Learning in Engineering (NATE)" - 12 weeks, Feb 2025) – Elite Badge

- **Mrs. Keerthi Kumbar**- "Ethics in Engineering Practice" (8 weeks, FEB-April 2025)-Elite Badge and "Academic Leadership in Cross Cultural Context of Higher Educational Institutions" (8 weeks January -April 2025)

- **Mr. Pradeep Kumar Y**- "Academic Leadership in Cross Cultural Context of Higher Educational Institutions" (8 weeks January -April 2025)

- **Mr. Guruprasad K N**- "Academic Leadership in Cross Cultural Context of Higher Educational Institutions" (8 weeks January-April 2025)

Research Publications

- **Mr. Guruprasad KN** has published a paper on **"Bluetooth Controlled Robotic ARM Rover"** in the journal "International Journal of Innovative Research in Computer and Communication Engineering (IJIRCCE)", on May 2025

- **Mr. Guruprasad KN** has published a paper on **"Agri Bot & Eco Pathogen Detection"** in the journal "International Journal of Innovative Research in Computer and Communication Engineering (IJIRCCE)", on May 2025

- **Mrs. Keerthi A Kumbar** has published a paper on **"Design and Modeling of Microstrip Patch Antenna for 5G – Mobile communication"** in the journal "International Research Journal of Engineering and Technology (IRJET)", on April 2025

- **Mr. Pradeep Kumar Y** has published a paper on **"Noise Level Monitor and Controlling System"** in the journal "International Research Journal of Engineering and Technology (IRJET)", on June 2025

- **Dr. Veeraprathap V** has published a paper on **"Optimized Image Compression Using Multiple Compressed Sensing Techniques"** and **"Optimized Machine Learning Techniques for Precise Breast Cancer Detection in Mammograms"** in SN Computer Science with vol. 6, issue. 4, 2025

- **Dr. Veeraprathap V** has published a paper on **"Advanced Machine Learning Techniques for Prognostic Analysis in Breast Cancer"** in Open Bioinformatics Journal, Vol. 18, 2025

Student Achievements

- The Department of ECE won the **Championship Rolling Trophy** for Sports and Cultural events in connection with ATMEYA 2K25, held at ATME College of Engineering, Mysuru.
- Nisarga D Rof ECE department represented **University Baseball (women) Team** for All India Inter University Championship 2024-2025
- Kushal U of ECE department represented **University Wushu (Men/women) Team** for All India Inter University Championship 2024-2025
- Shreyas Shridhar Kulkarni of ECE department participated in project Exhibition **"Vijnatham Utsav-2025"** at **Sri Kshetra Adichunchanagiri,** from 19/02/2025 to 20/02/2025
- Suchith, Srinath D Pol, Punya of 6th sem attended **project exhibition** at Adichunchanagiri University.
- Shreyas Shridhar Kulkarni, Sujith Kumar, Sreedhar R has participated and won **second prize** for the **Project exhibition** in **TECHNOVATE-2K25** at HKBK college of Engineering, Bangalore
- Shreyas Shridhar Kulkarni has participated in **CODE-HUNT 2K25** organized by Vidyavardhaka College of Engineering, Mysore
- N. Manish, Padmavathi S, Rida Shazmeen and Sagar B.S have presented paper on **"Air purifier with IoT monitoring using Renewable energy"** in 5th National Conference on "Next generation intelligence in Electronics and Communication Engineering (NGIEC-2025) and won best paper (silver)
- Shashank R P, Arun N and Shrinath D Pol of 6th sem participated in **TCS Tech-Bytes** at JSS Science &Technology University, Mysuru (Regional Level)

Workshops & Technical Events

- **Technical talk:** "The Future of Embedded System: Trends, Challenges & Opportunities" by Mr. Pradeep N G and Mr. Sudheendra S, Logycent, Musuru (14th March 2025)
- **Expert Talk:** "Semiconductor Future and Opportunities" by Mr. Sunil Kumar, Founder, Vivarthan Technologies (24th FEB 2025)
- **Technical Talk:** "End-to-End Automation for Modern Applications: CVCD Workflows, Python in Daily Life, and Cloud-Based Data Extraction" by Mr. Vishwas K Singh (4th April. 2025)
- **Technical Talk:** "Towards 6G Dual-Functional Radar and Communication" by Dr. Manoj B R, Assistant Professor, IIT Guwahati (24thApril 2025)
- **Guest Lecture:** "Technology Trends in the Semiconductor Industry" by M.S. Jayachandra Aradhya, CEO and Founder of Silicon Microsystems and Umashankar C P, CTO, Silicon Microsystems (05th May 2025) **3-day workshop** titled **"Skill-Building Workshop: PCB-Based Mini Projects and Self-Soldering Essentials"** from 5th to 7th May 2025

Program Outcomes

PO1: Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO2: 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.

PO3: 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.

PO4: 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.

PO5: 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.

PO6: 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.

PO7: 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.

PO8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9: Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10: 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.

PO11: 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.

PO12: 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

PSO1: To have the capability to understand and adopt the technological advancements with the usage of modern tool to analyze and design embedded system or processes for variety of applications.

PSO2: To work effectively in a group as an independent visionary, team member and leader having the ability to understand the requirement and develop feasible solutions to emerge as potential core or electronic engineer

Program Educational Objectives

PEO1: To produce graduates to excel in the profession, higher education and pursue research exercises in Electronics and Communication Engineering.

PEO2: To create technically able alumni with the capacity to examine, plan, to create and execute Electronics and Communication frameworks thereby involving in deep routed learning.

ATME®
College of Engineering

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