ATME
College of Engineering

DEPARTMENT OF

ELECTRONICS AND COMMUNICATION ENGINEERING



ECHELON

ECE Newsletter

VOLUME 14, ISSUE 2, August 2026

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Follow us on

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Message from Principal



The field of Electronics and Communication Engineering is continuously evolving and plays a vital role in shaping modern technology and society. Through this newsletter, the department highlights its commitment to academic excellence, technical skill development, and holistic growth of students. 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 14, 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

Chief Editor
Dr. Prathibha M K
HoD

Editor
Mrs. Madhurya B Eshwar
Assistant Professor

Members
Mr. Chandrashekar P
Assistant Professor

Student Members
Ms. Riya Vijay
Ms. Bi Bi Ayesha

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 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 for interaction among faculty-students and promote networking with alumni, industries and other stake-holders.

Department Activities

- Technical Talk for 4th Semester Students “Industrial Automation PLC& SCADA Control Systems” on 24-04-2026
- Department organized 2 days fest “URJA 2K26” from 23-03-2026 to 24-03-2026
- Technical Talk for 6th Semester Students “Engineering Your Edge: Skills, Strategy & Survival Modern Job Market on 16-03-2026
- Technical Talk for 6th Semester Students “Cyber security Awareness for Future Engineers: Securing Devices in a Digital World” on 25-02-2026
- Industrial Visit to ISRO for 6th Semester Students on 30-01-2026





Faculty Achievements

- **Dr Prathibha M K** appointed as Board of Examiner for dept. of ECE, VTU Belagavi for AY 2025-26



- **Prof. Guruprasad K N** Received the **'Best Presentation Award'** at the **RIT Research Conclave 2026**, a one-day Research Conclave organized by the Department of Computer Science, Rajeev Institute of Technology, Hassan, on **27 July 2026**
- **Dr. Bhagyashree. S. R** was AICTE-nominated Observer for 5 days, face-to-face Universal Human Values - II FDP, convened by HKBK College of Engineering, Bangalore, from 21st July to 25th July 2026.
- **Dr. Bhagyashree. S. R** Served as an External Expert for the 4th Semester MCA Project Poster Presentation at the department of Studies in computer Science, University of Mysuru, on 14th July 2026.
- **Dr. Bhagyashree. S. R** Served as an External Examiner for the Pre-Ph.D Comprehensive Viva-voce at the Department of Electrical and Electronics Engineering. at NIE Mysuru, on 11th June 2026
- **Prof. Rajeev Gowda R** got Best paper presentation for the paper titled "Machine Learning Based Signature Verification Process using OCR and Linesweap Technique" on Two-day National Conference on " Artificial Inteligence and Machine Learning for Better Tomorrow" (NCAIMLBT-2026) held on 8th and 9th January 2026 organized by Brindavan College of Engineering, Bengaluru-560063
- **Dr. Shalini Hanock** completed NPTEL course “Computer Networks and Internet Protocol” Jan-Apr 2026-12 weeks- topper
- **Dr. Bhagyashree. S. R** served as a session chair at Second International Conference on AI, Computation, Communication and Network Security (AICCoNS 2026) held at the University of Wollongong in Dubai, 28-30 April 2026.
- **Mrs. Madhurya B Eshwar** completed NPTEL course “Communication Networks” Jan-Apr 2026-12 weeks- topper
- **Dr. Bhagyashree. S. R** appointed as Member of the Subject expert at Sadhvidya PU College on 06th April 2026
- **Dr. Bhagyashree. S. R** participated in the 3-day Annual Regional Meet for UHV Volunteers organized on 20th February 2026 by SRM Institute of Science and Technology, Chennai.
- **Dr. Bhagyashree. S. R** participated in Vidya Bharati Uchcha Shiksha Sansthan (VBUSS) Organized on 28th January 2026 at LDCIL Conference Hall, CIIL, Mysuru

Workshops / Faculty Development program:

- **Dr. Shalini Hanok** attended Online FDP on **"AI Driven Technologies in Electronics and Communication Engineering"** from 2nd to 6th March 2026.
- **Prof. Guruprasad K N** and **Prof. Pradeep Kumar Y** Participated in a 3-day Workshop on **"Generative AI, Agentic AI and Quantum Computing"**, conducted from 23-25 February 2026 during the academic year 2025–2026, organized by Department of Computer Science-Data Science, ATME College of Engineering, Mysuru.
- **Prof. Guruprasad K N** and **Prof. Pradeep Kumar Y** Participated in a 6-day Short-Term Training Programme (STTP) on **"Design Thinking for Higher Order Learning and Student Transformation"**, conducted from 29 June 2026 to 4 July 2026 during the academic year 2025–2026, organized by the Malaviya Mission Teacher Training Centre (MMTTC), **National Institute of Technology (NIT) Warangal.**
- **Prof. Chandrashekar P** and **Prof. Nagesh MS** attended Five days FDP on 'Hardware Accelerators for next generation systems: PYNQ Z2 and TCL Based design Methodologies" conducted between 29-06-2026 and 03-07-2026, organized by the department of ECE (VLSI Design and technology), MMIT (Deemed to be University), Bengaluru.
- **Prof. Manjunath K** attended 5-day FDP on "Emerging Research Trends in Computer Science AI and Quantum Technologies", held from 6th July 2026 to 10th July 2026 organized by Yenepoya School of Engineering & Technology, Mangalore.
- **Prof. Mythri R** Participated in 1 week ATAL FDP on Bits to Qubits: Transforming Technology with Quantum Computing at HKBK college of Engineering from 05th to 10th Jan 2026.
- **Prof. Swetha K.T** Attended one-week offline FDP on **"AI & Quantum Driven Image Processing from Theory to Practice"** organized by Department of ECE, Dayananda Sagar College of Engineering, Bengaluru from 09th Feb 2026 to 14th Feb 2026.
- **Prof. Swetha K.T** Attended one-week online ATAL FDP on **"Advanced Perspectives in IOT"** organized by Government College of Engineering, Station Road Aurangabad from 09th Feb 2026 to 14th Feb 2026.
- **Prof. Swetha K.T** Attended one-week online ATAL FDP on **"Digital Application Fundamentals"** organized by **NASSCOM** from 02nd Feb 2026 to 07th Feb 2026.
- **Prof. Swetha K.T** Attended one-week online ATAL FDP on **"Artificial Intelligence in Healthcare: Intelligent Systems and Applications for Modern Technical Needs"** organized by Sreenidhi Institute of Science & Technology from 05th Jan 2026 to 10th Jan 2026.
- **Prof. Swetha K.T** Attended 5 Day FDP on **"Real-Time Digital Signal Processing & Generative AI in Multimodal Medical Imaging"** organized by ATME College of Engineering, Mysuru from 6th Jan 2026 to 10th Jan 2026.

MOOC Certifications

- **Dr. Prathibha M.K** successfully completed on line Udemy course on "FDP: Pedagogy on teaching Methods". 26th June 2026
- **Dr. Prathibha M.K** successfully completed on line Udemy course on "Patent filing in India". 30th June 2026
- **Dr. Shalini Hanok** completed Online Udemy course on **"Innovation and Technology for Teaching and Learning"** 22nd June 2026
- **Dr. Shalini Hanok** completed NPTEL course on **"Computer Networks and Internet Protocol"** Jan- April 2026
- **Prof. Manjunath K** Completed NITTTR Module-5 and Module-6
- **Prof. Manjunath K** Completed NPTEL course on "Soft Skill Development", in Mar-2026
- Completed NPTEL-SWAYAM Course on "Education for Sustainable Development", AY 2025–26 (Jan–Apr 2026).
- **Prof. Anupama Shetter** Completed NPTEL-SWAYAM Course on "Intellectual Property", AY 2025–26 (Jan–Apr 2026).
- **Prof. Anupama Shetter** Completed NPTEL-SWAYAM Course on "Introduction to Internet of Things", AY 2025–26 (Jan–Apr 2026).
- **Prof. Swetha K.T** successfully completed NPTEL Swayam Plus Online Certification on **"AI for Educators"** from IITM Pravarthak Technologies Foundation during Nov 2025 - Feb 2026.
- **Prof. Swetha K.T** successfully completed 8 weeks NPTEL Certification Course on **"Mechatronics"** during February – April 2026.
- **Prof. Nagesh M.S** successfully completed NPTEL Certification on “Digital Electronics & System Design” for 12 weeks duration.

Publication Details

- Ashvini Alashetty, Saliha Bathool, H. R. Archana, Shaista Tarannum, A. P. Jyothi, Shreyanka Subbarayappa & **S R Bhagyashree** “A Longitudinal Analysis of Crop Production Trends and Economic Value Across Canadian Provinces” published on 01 May 2026 Springer Cham https://link.springer.com/chapter/10.1007/978-3-032-21013-5_33
- **Prathibha, M. K.** et al.,, published a paper "Study on hot forging and n-redmud reinforced Al6061: mechanical, corrosion properties and statistical analysis of wear behaviour by Taguchi technique" Canadian Metallurgical Quarterly,1–17. https://doi.org/10.1080/00084433.2026.2652152. April 2026.
- **Dr. Veeraprathap V** et al., published a paper “Accurate Mammogram classification for Breast Cancer detection using Transfer Learning-based CNN models”-2026/3/17 in Journal of Integrated Science and Technology
- **Gagana, S. L., Hanok, S., Ganavi, B. N., Akash, L. & Gowda, M. M.** (2026). "Maize Identification and Categorization of Leaf Diseases Using Machine Learning. Indiana Journal of Multidisciplinary Research, 6(4), ISSN (Online)- 2583-3820, Volume-06|Issue-04|2026, 164-168. https://doi.org/10.5281/zenodo.21600476
- **Meghana, T., Hanok, S., Dharanya, R.,Aishwarya, K. N. & Dhanush, C.** (2026). "Leaf Disease Detection Using Deep Learning. Indiana Journal of Multidisciplinary Research", ISSN (Online)- 2583-3820, Volume-06|Issue-04|2026 , 6(4), 169-172

- **Chandrashekar P** Published a paper on "Deep residual network for three-dimensional (3-D) objects classification using phase-only digital holographic information" in the journal of intelligent Systems 35(1) 2026 (Q2)
- Sachin B Jadhav, **Shalini Hanok**, Tigulla Rajitha, Dr. R. Balakrishnan, Mr. Venkoba Kutagamari, Dr. Rajendra Kumar Ganiya. (2026). "Digital Rights and Data Privacy In The Era Of Artificial Intelligence: Legal Challenges, Ethical Considerations, And Global Regulatory Frameworks." Scientific Culture, 12(4), Vol. 12, No. 4, (2026), pp. 7359-7368 https://doi.org/10.5281/zenodo.20078691
- **Anupama Shetter**, et al., "Fusion of Computational Mathematics and Artificial Intelligence for Intelligent Decision-Making in Engineering and Technology," International Journal of Advances in Signal and Image Sciences, Vol. 12, No. 2s, pp. 1148–1164, Published on 10 February 2026, DOI: 10.29284/s6eze156
- **Nagesh M.S** published a paper "Peer-To-Peer Communication System Using Flex Sensor Smart Glove for Enhancing Accessibility in Speech and Hearing Challenges" ieeexplore on 22 January 2026. Doi: 10.1109/IC3IT66137.2025.11341024
- **Anupama Shetter, Sneha M., Shobith B.R.**, et al., "Nightfall-EX Advanced: An Offline TinyML-Based Portable ECG Monitoring and Emergency Alert System" 2026 International Conference on Emerging Research in Smart Electronics and Machine Informatics (ECMI), Chikkamagaluru, India, 2026, pp. 1-8, doi: 10.1109/ECMI68341.2026.11603095.

Conference

- **Prathibha, M. K.** et al., "Skin Lesion Classification for Melanoma Detection Using Pretrained CNN Architectures," 2026 International Conference on Signal, Systems, and Computing for Next-Gen Automation (ICSSCNA), Eluru, India, 2026, pp. 1383-1388, doi: 10.1109/ICSSCNA68616.2026.11546834.
- **Guruprasad K N**, Mahesh P K, presented a paper "Comparative Evaluation of Optimization Strategies for Fine-Tuning Autoencoders Using Deep Learning", 3rd International Conference on Wireless Communication and Internet of Everything (ICWCIE - 2026), Sharnbasva University, Kalaburagi, 7th February 2026.
- **Chandrashekar P** Presented a paper on "A Deep Learning Paradigm for Automated Disease Detection in Smart Healthcare Systems" in the Proceedings of the 2026 6th International Conference on Image Processing and Capsule Networks ICIPCN 2026
- **Manjunath K**, Pavithra A C, U. Kulsum, S. Shariff, M. Hasnain and K. K. R, "AI-Driven DTI-Prediction using Integrated Molecular and Protein Data," 2026 International Conference on AI-Driven Smart Systems and Ubiquitous Computing (ICAUC), Pathum Thani, Thailand, 2026, pp. 1573-1579, doi: 10.1109/ICAUC68182.2026.11441122.
- **Anupama Shetter**, Raj V.G., Vishveshwara B.S., et al.,., presented a paper "Standalone Platform-Level Interrupt Controller with Pre-Interrupt Thresholds," 17th International Conference on Advances in Computing, Control and Telecommunication Technologies (ACT 2026), 2026.
- **Anupama Shetter**, Sneha M., Shobith B.R., et al., presented a paper "Nightfall-EX Advanced: An Offline TinyML-Based Portable ECG Monitoring and Emergency Alert System," Proceedings of the International Conference on Emerging Research in Smart Electronics and Machine Informatics (ECMI 2026), 2026. DOI: 10.1109/ECMI68341.2026.11603095.
- **Anupama Shetter**, et al., presented a paper "Nightfall-EX Advanced: An Offline TinyML-Based Portable ECG Monitoring and Emergency Alert System," 2026 International Conference on Emerging Research in Smart Electronics and Machine Informatics (ECMI), IEEE, 2026. DOI: 10.1109/ECMI68341.2026.11603095

- **Swetha K T** presented a paper titled: "Calmify AI: AI Based Mental Health Chatbot" presented in Two- Day National Conference on "Artificial Intelligence and Machine Learning for Better Tomorrow" (NCAIMLBT-2026) held on 8th and 9th January 2026, organized by Brindavan College of Engineering, Bengaluru.
- **Rajeev Gowda R** presented paper titled "ASIC implementation of RV32F Extension" on Two-day National Conference on " Artificial Inteligence and Machine Learning for Better Tomorrow" (NCAIMLBT-2026) held on 8th and 9th January 2026 organized by Brindavan College of Engineering, Bengaluru-560063
- **Madhurya B Eshwar**, presented paper titled "Optimal Allocation of EV Charging Station using Newton-Raphson algorithm and Performance Analysis Under Plug-in Electrical Vehicle Penetration" in Two-day National Conference on "Artificial Inteligence and Machine Learning for Better Tomorrow" (NCAIMLBT-2026) held on 8th and 9th January 2026 organized by Brindavan College of Engineering, Bengaluru-560063

Patents granted

- “AN AUTOMATED DISINFECTING ROBOT SYSTEM AND METHOD THEREOF” (patent application Number 202141056445)

Inventors: Dr. Bhagyashree S R, Keerthi A Kumbar, Mohammed Umar, Mohammed Adnan, Nayana N Poornima S
Published: 11/02/2022
Date of Grant: 25/05/2026



Patents Published

- **Title: “Real time position and health tracking”**
  Inventors: Spoorthi PN
  Published: 30.01.2026
- **Title: Integrated Smart Building Management System Using Arduino and LabVIEW.**
  Inventor: Anupama Shetter
  Published/Granted: Published.
  Patent No: 202541122550 A
- **Title: Sustainable Power Generation through Integrated Waste-to-Energy Systems.**
  Inventor: Anupama Shetter
  Published/Granted: Published.
  Patent No: 202541122446 A
- **Title: Adaptive Saffron Aeroponic Chamber with Multi-Parameter Climate Optimization.**
  Inventor: Anupama Shetter
  Published/Granted: Published.
  Patent No: 202541122549 A
- **Title: AI Enhanced Natural Language Sentiment Analysis Device**
  Inventor: Dr.Manjula A.V
  Published/Granted: Published on 20/2/2026.
  Patent No: 479628-001
- **Title: Smart Wearable Device for Real-Time Health Data Acquisition and Alert Transmission**
  Inventor: Dr.Prathiba M K
  Published/Granted: Published
  Patent No: 202541122577

Project fund

- **Dr.Prathibha M K & Prof. Anupama Shetter** guided for KSCST Sponsored Student Project (49th Series, 2025–26): "Agricultural Robot for Plant Disease Detection, Fertilizer Spraying, and Weed Cutting", sanctioned by Karnataka State Council for Science and Technology (KSCST), Government of Karnataka. with a sanctioned amount of ₹5,500.

Student Corner

- Sneha M of 7th semester has undergone two month internship at IIT- Bombay from 18th may to 10th July on “Exploring edge computing for machine learning module on FPGA”
- Sneha M of 7th semester has been selected to undergo internship at Newrro Tech LLP, Bengaluru from September 1st 2026 to January 31st 2027 with a stipend of Rs 15000 per month.
- Shobith of 7th semester has been selected to undergo internship at Newrro Tech LLP, Bengaluru from September 1st 2026 to January 31st 2027 with a stipend of Rs 30000 per month.
- Shivakarthik T.S, Shivaprasad H.M, Shivaraju K.P and Subhash Chandra H.P of 7th semester students participated in “Roborage 2026” held at Bapuji Institute of Engineering and Technology Davangere on August 26th 2026

- V.V Riya Vijay of 6th semester student secured first prize in Fashion walk 2k26 in Mysiri Sambrama 2026 at Mycem college on 18-04-2026.
- Shreyas B M, Vinay M R, Sinchana J and S Chinvitha of 4th semester students have participated in TCS TechBytes-IT QUIZ on 24th April 2026 at Vidyavardhaka College of Engineering, Mysuru organized by The Board for IT Education Standards (BITES) and Tata Consultancy Services (TCS) under the guidance of Guruprasad K.N





Student Achievements

AY	Student Name	USN	Subject	Marks
2025-2026	KEERTHANA A.R	4AD23EC041	Embedded System design - BEC601	92
	NAVYASHREEE N	4AD23EC058	VLSI design and Testing BEC602	96
	KRUSHIKA D	4AD24EC043	Electromagnetic Theory BEC401	96
	CHANDANA K.G	4AD24EC019	Control Systems BEC403	87
	DEEPTHI R	4AD23EC094	Microcontrollers – BEC405A	98

Toppers list

Semester	Student Name	USN	CGPA
6th	SNEHA M	4AD23EC094	9.38
4th	KRUSHIKA D	4AD24EC043	9.13

Program Outcomes (PO):

- 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 with consideration for sustainable development
- PO3. Design/development of solutions: Design creative solutions for complex engineering problems and design/develop systems/components/processes to meet identified needs with consideration for the public health and safety, whole-life cost, net zero carbon, culture, society and environment as required.
- PO4. Conduct investigations of complex problems: Conduct Investigations of Complex Problems: Conduct investigations of complex engineering problems using research-based knowledge including design of experiments, modelling, analysis & interpretation of data to provide valid conclusions
- PO5. Modern tool usage: Create, select and apply appropriate techniques, resources and modern engineering & IT tools, including prediction and modelling recognizing their limitations to solve complex engineering problems
- PO6. The engineer and the world: Analyze and evaluate societal and environmental aspects while solving complex engineering problems for its impact on sustainability with reference to economy, health, safety, legal framework, culture and environment.
- PO7. Ethics: Apply ethical principles and commit to professional ethics, human values, diversity and inclusion; adhere to national & international laws
- PO8. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- PO9. Communication: Communicate effectively and inclusively within the engineering community and society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations considering cultural, language, and learning differences
- PO10. Project management and finance: Apply knowledge and understanding of engineering management principles and economic decision-making and apply these to one's own work, as a member and leader in a team, and to manage projects and in multidisciplinary environments.
- PO11. Life-long learning: Recognize the need for, and have the preparation and ability for i) independent and life-long learning ii) adaptability to new and emerging technologies and iii) critical thinking in the broadest context of technological change.

Program Specific Outcomes (PSO):

PSO 1: Analyse and Design electronic systems by applying the principles of electronic circuits, embedded systems, and integrated circuits using appropriate engineering tools
PSO 2: Apply engineering knowledge in communication, signal processing, and networking to execute engineering projects and professional assignments through practical learning, internships, and teamwork.

Program Educational Objectives (PEO):

- 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.