



BASAVESHWAR ENGINEERING COLLEGE, BAGALKOTE

DEPARTMENT OF ELECTRONICS AND COMPUTER ENGINEERING

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Monthly ECS News Letter



Embedded Systems in Action: Enabling Intelligent and Connected Solutions

Electronics and Computer Engineering is a multidisciplinary field that integrates principles of electronics, computer science, and system engineering to design, develop, and optimize modern computing and intelligent electronic systems. The domain can be broadly classified into the following three major verticals: Core Computer Engineering, VLSI Domain, Embedded Systems Domain. In this edition of newsletter, emphasis is on Embedded Systems Domain.

Embedded systems form the intelligent core of everyday technologies—from smartphones and home appliances to automotive control units, medical devices, and industrial automation systems. This vertical emphasizes the seamless integration of hardware and software to develop real-time, reliable, and efficient systems. Students gain hands-on exposure to microcontrollers, microprocessors, embedded C programming, real-time operating systems (RTOS), and hardware interfacing techniques. Practical learning is reinforced through laboratory experiments, mini-projects, and application-based assignments involving sensors, actuators, and communication protocols.

With the rapid growth of Internet of Things (IoT) and smart systems, the Embedded Systems domain enables learners to design connected solutions for smart homes, healthcare monitoring, environmental sensing, and industrial control. Exposure to emerging areas such as cyber-physical systems, edge computing, and automotive embedded applications further enhances industry relevance.

The Embedded Systems vertical not only builds strong technical competence but also nurtures problem-solving, system-level thinking, and innovation. Graduates equipped with these skills are well-prepared for careers in embedded product development, IoT solutions, automation industries, and research, contributing meaningfully to the evolving landscape of intelligent and connected technologies.

Professional Development Activities of Faculty Members

Faculty members of the department actively participated in various academic, professional, and evaluative activities during December 2025, contributing to continuous professional development and academic excellence.

1. Faculty Development Programme on Research and Publications

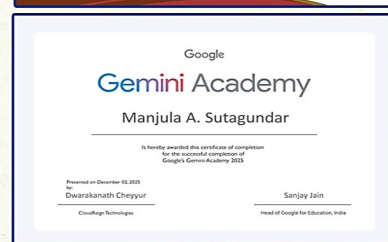
Dr. Chayalakshmi C. L., Dr. K. Bhat, and Dr. Manjula Sutagundar participated in a two-week Faculty Development Programme titled **“National Capacity Building Program on Research and Publications”**, conducted from 8th to 19th December 2025 in online mode. The programme was organized by the Department of Electrical, Electronics and Communication Engineering (EECE), **Indian Institute of Technology, Dharwad**.

The programme comprised expert lectures and interactive sessions aimed at strengthening research and publication competencies among faculty members from institutions across India. Major topics covered included research paper and review article writing strategies, research grant proposal development, journal indexing and metrics, ethical guidelines and plagiarism, intellectual property rights, research methodologies, time management for researchers, emerging AI tools for research support, and preparation for PhD supervision and mentorship roles.



2. Session on AI-Enabled Teaching and Learning

Dr. Manjula Sutagundar attended a one-day session on **“Transforming Teaching and Learning with Gemini”** held on 2nd December 2025. The session focused on the effective integration of Gemini AI tools into teaching-learning processes to enhance instructional delivery, content development, assessment design, and student engagement. Participants gained practical insights into personalized learning, lesson planning, question paper generation, and academic support using AI. The session was highly informative and interactive, highlighting the role of AI in improving teaching effectiveness and learning outcomes in higher education.



3. Faculty Development Programme on Artificial Intelligence and Machine Learning

Smt. Laxmi Ugar participated in a national - level one - week Faculty Development Programme on **“Fundamentals of Artificial Intelligence and Machine Learning”**, organized by the Department of Electronics and Communication Engineering, Basaveshwar Engineering College, from 16th to 20th December 2025.



4. Faculty Participation as Judge – Project Competitions

Dr. K. Bhat served as a judge for a project competition organized by the Department of Computer Science and Engineering on 6th December 2025. All final year Computer Science students have actively participated in the event. He also acted as a judge for a college-level project competition jointly organized by the Departments of Civil Engineering, Mechanical Engineering, Industrial and Production Engineering, and Biotechnology on 9th December 2025.

5. Judge for Paper Presentation Competition

Dr. Manjula Sutagundar was invited as a judge for the Paper Presentation Competition organized by the Department of Master of Computer Applications (MCA) on 23rd December 2025. Students from the 1st and 3rd semesters of MCA presented technical papers based on their project work.

“Stop Ragging, Start Respecting -
Together we stand for dignity.”



VISTARA-2025: Welcome Week for the New Batch

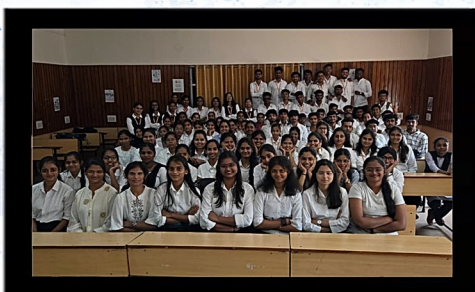
The Department of Electronics and Computer Engineering organized **VISTARA-2025**, a vibrant welcome program for newly admitted students. The week-long celebration successfully blended cultural enthusiasm with academic discipline, ensuring active participation without disrupting regular classes.

The **Theme Week**, conducted from **1st to 5th December 2025**, featured six engaging themes coordinated by different student teams:

- Recreate Your School Days
- Astro Vault
- Jersey Jumbo
- Denim Dynasty
- Cultural Heritage

The celebrations culminated in the **Fresher's Day** event held on **6th December 2025** at the college Gallery Hall. The program was presided over by **Dr. Chayalakshmi C. L., HoD, ECS**. The dignitaries present included **Dr. Krishnamurthy Bhat (Faculty Coordinator)**, **Mr. Prateek Kalagi (Vice President)**, and **Ms. Kavita Bangi (Girls' Representative)**.

Dr. Krishnamurthy Bhat introduced the newly joined faculty members and departmental office bearers. In her presidential address, Dr. Chayalakshmi C. L. motivated students to strive for academic excellence and holistic development. Mr. Prateek Kalagi presented the department's future roadmap and upcoming student activities.



Student Participation & Achievements

IEEE AESS Technology Conclave:

Students participated in the IEEE AESS Technology Conclave held at **KLE Technological University, Belagavi**, on **29th November 2025**, organized by the IEEE AESS Chapter in association with the IEEE North Karnataka Sub-Section.

Participants:

Second Year-Ms. Sristi S., Ms. Vaishnavi V. K., Ms. Shraddha S., Ms. Sharvani L. T. First Year-Mr. Sarvesh Kuge

World Environment Day 2025:

Mr. Shankar Kamate (III Semester) actively participated in the Photography Competition organized by the Eco Club and the Department of Civil Engineering and was recognized for his contribution.



MYBharat Quiz participation:

Prateek Kalagi participated in the Janjati Gaurav Varsh Quiz, an online quiz conducted on the MYBharat platform by the Ministry of Youth Affairs & Sports, Government of India, on 26th December 2025. The initiative aimed to create awareness among youth about the rich heritage, culture, and contributions of tribal communities, while encouraging active youth participation in nation-building towards the vision of a Viksit Bharat.



College

Vision

To be an institution of excellence in education, research and innovation for sustainable future.

Mission

- Develop globally competent professionals for future talent requirements.
- Nurture a culture of research, Innovation and entrepreneurship.
- Promote collaborations, extension and outreach programs for addressing industrial and societal needs.
- Imbibe moral and ethical values.
- Foster ecological and environmental consciousness.

Department

Vision

To be recognized as a Center of Excellence for Electronics and Computer Engineering education and research, developing competent professionals with moral and ethical values

Mission

- Develop professionals with strong fundamentals, technical skills, committed to life-long learning
- Create an environment for interdisciplinary research by collaborating with industries and institutes of higher learning
- Imbibe high moral and ethical values

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