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**BMS INSTITUTE OF TECHNOLOGY & MANAGEMENT**

(Autonomous Institution Under VTU)

Yelahanka, Bengaluru -560119

## Student Activities - Electronics and Communication Engineering (ECE)

The Department of Electronics and Communication Engineering at **BMS Institute of Technology & Management** offers a **vibrant ecosystem of student-driven technical and co-curricular activities** that enhance learning, creativity, leadership, and industry readiness. Through departmental forums, technical fests, project showcases, workshops, and competitions, students gain hands-on experience, collaboration skills, and professional exposure beyond the regular curriculum.

The department's newsletter "**WAVES**" records these events, student achievements, and technical write-ups, reflecting the creativity and academic involvement of the student community.

### Student Project Showcase (Sample List)

The ECE department strongly emphasizes **project-based learning**, encouraging students to apply theoretical concepts to practical systems. Below is a sample list of recent student projects, all available with demonstration links or descriptions:

Sl. No.	Project Title	Description
1	Digital Voting System	Student-designed secure e-voting prototype.
2	Smart Packaging System	Automated packaging control system.
3	Smart Cradle System	Infant monitoring and safety system.
4	Air Purifier	Sensor-driven air quality improvement system.
5	AI Mouse	Adaptive computing interface project.
6	Animatronic Hand	Robotic hand prototype.
7	Power Supplier System	Efficient power control interface.
8	Temperature Monitoring System	Real-time temperature tracking and alert.
9	COVID Healthcare Monitoring	Health monitoring with IoT integration.
10	UV Radiation Tracking System	Environmental monitoring tool.
11	NOMA for 5G	Next-gen communication system simulation.
12	Geo-fencing Child Safety	Location-based safety system.



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## Other Co-Curricular Activities

Beyond project showcases, the ECE student community participates in varied exploratory activities to deepen technical knowledge:

### Workshops, Seminars & Visits

- Machine learning, robotics, VLSI, and communication workshops.
- Faculty-guided industrial visits to technology centres and labs.

### Clubs and Technical Forums

- Students coordinate under ELECSIM club leadership with faculty mentorship, organizing exclusive department-level contests and collaborative events.

### Publications & Newsletter Contributions

- Articles, event summaries, and achievements are regularly featured in the department newsletter **WAVES**, creating a repository of technical accomplishments and community engagement.

## Summary of Impact

Student activities in the ECE department:

- Promote **innovative thinking and problem-solving** skills.
- Provide platforms for **peer learning and professional readiness**.
- Encourage **interdisciplinary participation and collaboration** across engineering domains.
- Enable students to build **portfolio projects** suitable for internships and higher studies.