

PROJECT EXPO 2026

IEEE STB GITAM Deemed University Bangaluru

Department of Electrical, Electronics and Communication Engineering (EECE)
GITAM School of Core Engineering

1. Event Overview

The Department of Electrical, Electronics and Communication Engineering (EECE), GITAM School of Core Engineering, in collaboration with the IEEE Student Branch, successfully organized Project Expo 2026. The event was designed to promote innovation-driven learning and interdisciplinary engineering practices among students.

The event was conducted in association with the following IEEE societies:

- IEEE AP-MTTS Society
- IEEE Signal Processing Society (SPS)
- IEEE Circuits and Systems Society (CAS)
- IEEE Council on Electronic Design Automation – Electronics Packaging Society (CEDA-EPS)
- IEEE Power & Energy Society (PES)

The expo served as a platform for students to demonstrate their technical competencies through working prototypes, design models, and research-oriented projects.

2. Objectives of the Event

- To encourage hands-on learning and experiential education
- To bridge the gap between theoretical knowledge and practical implementation
- To foster innovation, creativity, and problem-solving skills
- To promote interdisciplinary collaboration among students
- To provide exposure to industry-relevant technologies and applications
- To create a culture of research and prototype-driven development

3. Leadership & Acknowledgment

The success of the event was strongly supported by the institution's distinguished leadership:

Name	Role & Contribution
Dr. Basavaraj Kategeri	Pro Vice-Chancellor – Continuous encouragement and support in fostering innovation and academic excellence.

Dr. Kishore Buddha	Director, School of Core Engineering – Vision and guidance in promoting student-centric research and technical development.
Dr. Lignesh	Head of EECE Department – Leadership, motivation, and active involvement in organizing and executing the event successfully.

4. Participation Details

Participants	Undergraduate students (primarily 4th year)
Number of Projects	50+ projects
Format	Team-based hardware prototypes and software-integrated solutions

Domains covered during the expo:

- Embedded Systems & IoT
- VLSI Design & Nanoelectronics
- Communication Systems
- Signal Processing & AI
- Power Electronics & Renewable Energy
- Smart Systems & Automation

5. Highlights of the Expo

- Display of innovative prototypes addressing real-world challenges
- Integration of AI, IoT, and energy-efficient system design
- Strong emphasis on sustainable and socially impactful solutions
- Active interaction between students, faculty, and technical evaluators
- Live demonstrations showcasing functional working models
- Evaluation based on innovation, feasibility, technical depth, and presentation

6. Evaluation & Judging

Projects were evaluated by a panel comprising faculty members and technical experts. The key evaluation criteria included the following parameters:

#	Criterion	Description
1	Novelty & Innovation	Originality of the idea and creative approach to problem-solving
2	Technical	Accuracy, complexity, and correctness of the technical

	Implementation	solution
3	Practical Feasibility	Real-world applicability and scalability of the prototype
4	Societal Relevance	Impact and usefulness to society, industry, or community
5	Presentation & Demonstration	Clarity, confidence, and effectiveness of the live demonstration

Outstanding projects were recognized and appreciated for their excellence.

7. Outcomes and Impact

The Project Expo achieved significant academic and developmental outcomes:

- Enhanced practical engineering skills and confidence among students
- Encouraged research-oriented thinking and prototype development
- Strengthened industry-relevant technical exposure
- Promoted teamwork and interdisciplinary collaboration
- Created a platform for identifying potential research and startup ideas

The event aligned with the department's vision of developing industry-ready engineers and future innovators.

8. Conclusion

Project Expo 2026 was a resounding success, reflecting the department's commitment to innovation, experiential learning, and academic excellence. The event not only showcased student talent but also reinforced the importance of practical learning in engineering education.

The department extends its sincere appreciation to all students, faculty members, IEEE coordinators, and organizing teams for their dedication and invaluable contribution in making this event a memorable and impactful experience.

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