



BMS INSTITUTE OF TECHNOLOGY & MANAGEMENT

Autonomous Institute Under VTU, Accredited by NBA and NAAC

Yelahanka, Bengaluru-560119.

Name of the Society:

IEEE Power and Energy Society (PES) BMSIT&M Student Branch

Date of Formation:

11th April, 2025

Coordinator:

Dr. Suma Umesh, EEE

Objective:

To drive technological advancement by inspiring innovation and strengthening collaboration across the global power and energy sector.

Frequency of Meetings:

Two team meetings per month, and an Annual General Meeting with all PES members.

Social media link:

LinkedIn: <https://www.linkedin.com/company/ieee-pes-bmsit/>

Instagram: https://www.instagram.com/ieee.pes_bmsit/?igsh=MWN4bjh0Z2RhYjJ1Nw==

Roles and Responsibilities:

We are a dynamic community passionate about exploring and collaborating on the latest innovations in power and energy. From power system analysis and transmission & distribution to renewable energy and the fusion of IoT and AI with power systems, we thrive on learning and innovation. Our members host engaging events, exchange ideas, and build creative projects that drive real-world impact.

Activities conducted:

1) Outreach at Government school

Date: 21st August, 2025

Location: Thaggahalli, Mandya

Participants: Students of class 8

Prize Pool: - NIL-

On August 21, 2025, the members of the IEEE Power & Energy Society Student Branch Chapter (PES SBC) of BMSIT & M successfully conducted an outreach program at a Government School in Thaggahalli Village, Mandya, in collaboration with the IEEE Student Branch Chapter of PES College, Mandya. This initiative was undertaken with the objective of introducing school students to emerging technologies and fostering early interest in engineering and innovation.

As a collaborative team, we organized a series of interactive and engaging sessions focused on contemporary topics such as Artificial Intelligence (AI), Vibe Coding, and the effective use of websites and digital platforms. These sessions were designed to simplify complex concepts and make them accessible to school-level students through real-life examples and discussions.

In addition to the theoretical sessions, the outreach program included hands-on workshops where students actively participated in building smart dustbins and RC cars. The smart dustbins were equipped with automation features, while the RC cars demonstrated advanced functionalities such as obstacle detection and line-following mechanisms. Through these activities, students were introduced to the basics of Arduino, including component identification, circuit connections, and understanding circuit diagrams and logic flow.

The practical exposure enabled students to analyze circuits, troubleshoot basic issues, and understand the working principles of embedded systems. By actively assembling and testing their models, students gained firsthand experience in applying theoretical knowledge to real-world applications.

Overall, the outreach program provided students with a meaningful hands-on learning experience, significantly enhancing their analytical and problem-solving skills. It also broadened their exposure to modern technological trends and helped them appreciate the growing importance of AI and coding in today's digital era. The program proved to be a rewarding experience for both the organizers and the participants, reinforcing the role of IEEE in promoting technical education and community engagement.



2) Outreach at Morarji Deasi school

Date: 5th September, 2025

Location: Hebburu, Tumkur

Participants: Students of class 8 and 9

Prize Pool: - NIL-

On September 5, 2025, the IEEE Power & Energy Society Student Branch Chapter (PES SBC) of BMSIT & M organized an impactful outreach program at the Morarji Desai School, Hebburu Village, Tumkur. The program was designed to create awareness among school students about emerging technologies, responsible digital practices, and the growing importance of sustainable energy solutions.

The outreach began with an interactive and discussion-based session covering a diverse range of topics, including Artificial Intelligence (AI) and the practical use of ChatGPT as a learning and productivity tool. Special emphasis was placed on the advancements and applications of renewable energy sources, helping students understand their role in building a sustainable future. In addition, students were guided on the effective use of social media, highlighting both its benefits and potential drawbacks, along with discussions on digital safety, cyber awareness, and crime prevention related to online platforms.

The second session focused on experiential learning through a hands-on workshop. Students were introduced to the fundamentals of electronics and embedded systems by building mobile-application-controlled RC cars. They were first guided to interpret and analyze circuit diagrams, understand component functionality, and visualize system operation. Once the concepts were clear, students actively participated in assembling the circuits and integrating the components, ultimately resulting in a fully functional working model.

By the end of the program, students had gained practical exposure to basic electronics, improved their analytical and logical thinking skills, and developed a clearer understanding of how AI and tools like ChatGPT can be used responsibly for learning. The sessions also enhanced their awareness of renewable energy technologies and promoted safe and ethical usage of social media. Overall, the outreach program successfully combined technical education with social awareness, leaving a lasting and meaningful impact on the students.



3) Tech talk

Date: 11th September, 2025

Location: BMSIT&M

Participants: Students of EEE department

Prize Pool: - NIL-

IEEE Power & Energy Society Student Branch Chapter (PES SBC) on September 11, 2025 organized a tech talk titled “Pause.Breathe.Succeed”, focusing on mental health awareness and well-being in professional and career life. The session aimed to highlight the importance of maintaining mental balance while navigating academic and career pressures.

The talk was delivered by Dr. Padmakshi Lokesh, a renowned psychological expert who has conducted numerous awareness sessions across various institutions. She addressed the impact of mental health on students, particularly those pursuing Electrical and Electronics Engineering (EEE), and shared practical strategies, coping techniques, and remedies to manage stress, anxiety, and career-related challenges.

The session helped students develop a deeper awareness of mental well-being, emphasizing its role in personal growth and long-term career success. Overall, the talk encouraged students to prioritize mental health alongside technical excellence, fostering a healthier and more balanced approach to their professional journey.



4) IEEE Open Day - Introduction to IEEE for freshers

Date: 25th September, 2025

Location: BMSIT&M

Participants: Students of EEE department

Prize Pool: - NIL-

The members of the IEEE Power & Energy Society (PES) conducted an interactive awareness session with the junior students of the EEE department to familiarize them with IEEE, its structure, and how it functions at both student and professional levels. The session aimed to help students understand the value of being part of a global technical community. During the interaction, students were informed about the advantages of IEEE membership, including access to technical resources, exposure to emerging technologies, and opportunities to participate in workshops, conferences, and technical events. The speakers also highlighted the career-oriented benefits of IEEE, such as support for project development and research activities, mentorship, and networking and recruitment opportunities.

As a whole, the session successfully created awareness about IEEE and motivated students to actively engage in IEEE activities to enhance their technical skills, professional growth, and career prospects.



5) KILL SWITCH - a technical treasure hunt

Date: 26th and 27th of October, 2025

Location: BMSIT&M

Participants: Students of B.E

Prize Pool: Goodies worth ₹1,500 was presented.

“Kill a Switch – Flip the Switch, Catch the Glitch” was a technical yet fun treasure hunt conducted as part of the open activity for freshers, designed around an engaging crime-mystery themed-treasure hunt. The event aimed to blend logical thinking, technical knowledge, and teamwork in an interactive learning experience.

The activity was conducted across the college campus, where participants were provided with live clues at different stages of the hunt. Each clue required students to analyze, investigate, collect and connect evidence to unravel the mystery behind the crime. Freshers formed teams of 2 to 4 members, encouraging collaboration, strategic thinking, and effective communication while solving the challenges.

The event witnessed enthusiastic participation, with students actively engaging in problem-solving and critical analysis throughout the hunt. The teams that successfully decoded the mystery and completed the challenge were declared winners and were awarded gift cards worth ₹1,500. The event created an exciting platform for freshers to explore technical thinking in a fun and memorable way.



5) WATT NEXT- The Technical Conclave

Date: 27th October, 2025

Location: BMSIT&M

Participants: Students of B.E

Prize Pool: -NIL-

“Watt Next”, a technical conclave organized by the IEEE Power & Energy Society (PES) in collaboration with the IEEE CAS Society and ACDC Club of the Department of Electrical and Electronics Engineering (EEE), served as a valuable platform for students to gain industry-oriented insights and technical exposure.

The conclave featured industry experts with extensive expertise in areas such as electromagnetic motor design, analog system design, and circuit innovation. Through their sessions, the speakers shared practical knowledge, real-world applications, and emerging trends in these domains, helping students bridge the gap between academic learning and industry practices.

In addition to core technical discussions, the experts also highlighted career opportunities in embedded systems, communication systems, and cybersecurity within the automotive sector. These discussions provided students with a clear understanding of current industrial requirements, skill expectations, and evolving career pathways. The conclave successfully broadened students' technical perspectives and guided them toward informed career choices in the rapidly advancing engineering landscape.



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Presents

WATT, NEXT?

A TECH CONCLAVE ORGANIZED BY
PES AND ACDC

TOPICS OF THE WORKSHOP

- Electromagnetic Motor Design
- Analog Design + Circuit Innovation
- Careers in embedded systems, communication systems & cybersecurity in automotive domain

Join the workshop and gain practical knowledge, insights from professionals

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