



ಬಿ.ಎಂ.ಎಸ್. ತಾಂತ್ರಿಕ ಮತ್ತು ವ್ಯವಸ್ಥಾಪನಾ ಮಹಾವಿದ್ಯಾಲಯ

**BMS INSTITUTE OF TECHNOLOGY & MANAGEMENT**

(Autonomous Institution Under VTU)

Yelahanka, Bengaluru -560119

# DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

# LIVEWIRE!

JULY 2024 - DECEMBER 2024

VOLUME 8 | ISSUE 2

**A BI-ANNUAL NEWSLETTER**

We are glad to present Volume 7, Issue 2 of Livewire!, the Electrical and Electronics Engineering department newsletter. This issue contains reports regarding departmental advisory board meeting as well as reports on the various activities conducted with the objective of overall student development by the EEE Department, BMSIT & M. This issue also consists of technical, non-technical articles and other creative work by the students of the department



ಬಿ.ಎಂ.ಎಸ್. ತಾಂತ್ರಿಕ ಮತ್ತು ವ್ಯವಸ್ಥಾಪನಾ ಮಹಾವಿದ್ಯಾಲಯ

**BMS INSTITUTE OF TECHNOLOGY & MANAGEMENT**

(Autonomous Institution Under VTU)

Yelahanka, Bengaluru -560119

## DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEER



Late Sri B. M. Srinivasaiah  
Founder, BMSCE



Late Sri B. S. Narayan  
Founder, BMSET

**Promoting prosperity of mankind by augmenting human resource capital through quality education and training**

### Institution

#### Vision:

- To emerge as one of the finest technical institutions of higher learning, to develop engineering professionals who are technically competent, ethical and environment friendly for betterment of the society.

#### Mission:

- Accomplish stimulating learning environment through high quality academic instruction, innovation and industry-institute interface.

### E&EE Department

#### Vision of the Department:

- To emerge as one of the finest Electrical & Electronics Engineering Departments facilitating the development of competent professionals, contributing to the betterment of society.

#### Mission of the Department:

- Create a motivating environment for learning Electrical Sciences through teaching, research, effective use of state-of-the-art facilities and outreach activities.

## EDITORIAL TEAM



**CHIEF EDITOR**  
Dr. Prashant A Athavale  
HoD, Assistant Professor



**EDITOR**  
Mr. Vikram Chekuri  
Assistant Professor

## NOTE FROM THE EDITOR

We are pleased to announce the release of Volume 7, Issue 2 of Livewire!, the esteemed newsletter of the Electrical and Electronics Engineering Department, BMSIT&M. In this issue, readers will find an in-depth account of the recent Departmental Advisory Board meeting, which addressed key priorities for academic advancement and set forth new directions for the department's future. These insights underscore the department's ongoing efforts to maintain high standards in both curriculum and student support.

The newsletter further chronicles a diverse array of activities and initiatives conducted by the department, all geared toward fostering the comprehensive growth of students. Featured events range from technical workshops and guest lectures to outreach initiatives and student-led competitions. Each report illustrates the vibrant academic culture and strong sense of collaboration that define the EEE Department at BMSIT&M.

Rounding out this edition are sections dedicated to technical articles, non-technical explorations, and creative works crafted by our talented students. Whether through innovative project write-ups, thought-provoking essays, or artistic contributions, this issue of Livewire! serves as a testament to the enthusiasm and multifaceted abilities of our student community. We invite readers to engage with this variety of content as we continue celebrating the achievements and creative spirit of our department.

# CONTENT

Particulars	Pg.No
Faculty Achivement	1
Workshop/ Project Exhibition	2
Expert Talks	3
Club Activity	4
Traninign/ Tlak	6
industrial Visit/ BoS Meeting	7
Publication of Research Papers by the Faculty Members	8

# FACULTY ACHEIVEMENT

- Dr. G. Raghavendra, Professor, Department of Electrical and Electronics Engineering, served as Conference Chair for the 1<sup>st</sup> National Conference on Advances in Science Engineering & Technology (NCASET-2025) at Dr. S.S.S. Shivakumara Mahaswamy College of Engineering, Bengaluru, on 07.11.2025.
- Dr. Babu Naik Gugulothu, Assistant Professor in the Department of Electrical and Electronics Engineering has successfully completed the NPTEL course 'Artificial Intelligence: Concepts and Techniques' during Jul–Oct 2025 and secured 69%.
- Dr. Babu Naik Gugulothu, Assistant Professor in the Department of Electrical and Electronics Engineering has successfully completed the NPTEL course 'Introduction to Internet of Things' during Jul–Oct 2025 and secured 68%.
- Dr. Manjunath Babu P, Assistant Professor in the Department of Electrical and Electronics Engineering has successfully completed the NPTEL course 'Fundamentals of Artificial Intelligence' during Jul–Oct 2025.
- Prof. Nagaraj D.C, Assistant Professor in the Department of Electrical and Electronics Engineering has successfully completed the NPTEL course 'Educational Leadership' during Jul–Oct 2025.
- Prof. Vikram Chekuri, Assistant Professor in the Department of Electrical and Electronics Engineering, was among the Top 5% performers in the NPTEL course "Design of Photovoltaic Systems" conducted during Jul–Oct 2025.
- Dr. Babu Naik Gugulothu, Assistant Professor, Department of Electrical and Electronics Engineering, served as a reviewer for a manuscript submitted to an Electrical Engineering journal on 31<sup>st</sup> December 2025, contributing to the academic peer-review process.
- Dr. Babu Naik Gugulothu, Assistant Professor, Department of Electrical and Electronics Engineering, reviewed a manuscript for the journal Scientific Reports on 31<sup>st</sup> December 2025, as part of his academic service activities.

## WORKSHOP / PROJECT EXHIBITION

The Department of EEE organized a three-day hands-on Workshop on "Industrial Automation and Control" from 20.11.2025 to 22.11.2025 in collaboration with Venjay Automation Pvt. Ltd. Resource person Mr. Venugopal, Director, Venjay Automation, introduced participants to industrial controllers, sensors and transducers and their role in automation systems. A live demonstration of the TIA Portal programming environment was conducted, explaining project creation and interfacing of field inputs/outputs with PLCs. Students observed practical PLC wiring, connectivity and configuration, helping them bridge the gap between theory and industrial practice. The workshop also showcased SCADA and HMI systems for supervisory control, data acquisition and real-time monitoring of industrial processes. This workshop was coordinated by Dr. Manjunath Babu P



### WORKSHOP

### PROJECT EXHIBITION

The Department of Electrical and Electronics Engineering, BMSIT&M organised a Project Exhibition on 12.12.2025, where 13 student teams presented their working models in the initial screening conducted by internal EEE faculty. Based on this evaluation, five teams were shortlisted for the final round. The final assessment was carried out by K. Jeykishan Kumar, Engineering Officer from Central Power Research Institute, who evaluated the presentations and demonstrations and interacted with the students. The session was highly interactive, with valuable technical feedback provided for improvement. Finally, the top three teams were selected and awarded prizes for their innovative work.

# CLUB ACTIVITY

The IEEE PES Student Branch Chapter, BMSIT&M, organized the “Kill Switch” event on 23-24.10.2025, creatively blending mystery with engineering logic through a technical treasure hunt. A total of 23 teams participated, solving Electrical and Electronics-based puzzles to uncover the cause of a fictional professor’s “death.” The event effectively promoted analytical thinking, creativity, and teamwork, making technical learning an exciting and immersive experience.



IEEE CLUB ACTIVITY



IEEE CLUB ACTIVITY

The IEEE PES Student Branch Chapter, BMSIT&M, organized an outreach program on 05.09.2025 at Morarji Desai Residential School, Tumkur. The event introduced students to emerging technologies like Cybersecurity, AI, and Robotics through engaging presentations and a hands-on RC car workshop. Around 60 students participated, guided by 12 IEEE PES volunteers. Students learned about hardware integration using Arduino and motor drivers. The event successfully ignited curiosity and enthusiasm for STEM learning.

# CLUB ACTIVITY

The IEEE PES Student Branch Chapter, BMSIT&M, organized an outreach program on 05.09.2025 at Morarji Desai Residential School, Tumkur. The event introduced students to emerging technologies like Cybersecurity, AI, and Robotics through engaging presentations and a hands-on RC car workshop. Around 60 students participated, guided by 12 IEEE PES volunteers. Students learned about hardware integration using Arduino and motor drivers. The event successfully ignited curiosity and enthusiasm for STEM learning.



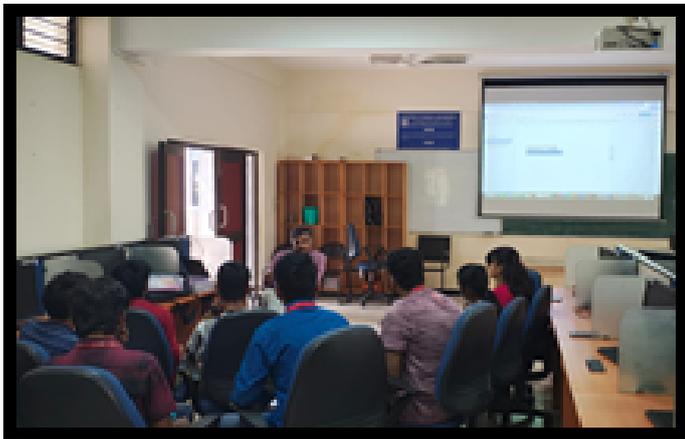
## IEEE CLUB ACTIVITY

The Department of Electrical and Electronics Engineering, IEEE PES Student Branch Chapter BMSIT&M, in collaboration with IEEE PESCE Student Branch Chapter Mandya, conducted an outreach program at Government High School Mandya, Karnataka on 21.08.2025. The initiative featured a formal hands-on workshop on Artificial Intelligence and Robotics, offering students a valuable opportunity to gain practical insights into these advanced technologies and fostering interest in STEM fields.



## IEEE CLUB ACTIVITY

# TRAINING/TLAK



**IOT TRAINING BY DR. VISHWA KIRAN**

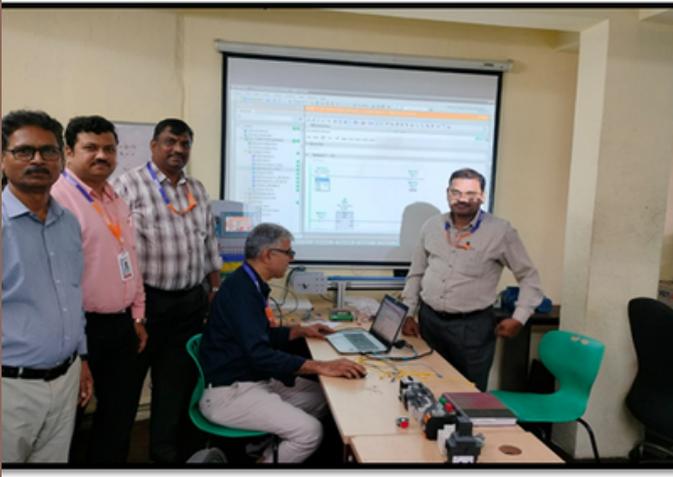
The Department of Electrical and Electronics Engineering conducted an IoT-based training session on 23.09.2025 for 5th semester students undertaking IoT-based Mini Projects. Dr. Vishwa Kiran from the CSBS Department provided an insightful overview of IoT fundamentals, followed by a live demonstration of the IoT kit to enhance students' practical understanding and hands-on experience.

Dr Karuna Nidhi, a 2010 pass out of EEE Department, Manager of ESD-LU and SOA Department, Tata Semiconductor Manufacturing Pvt. Ltd. (TSMPL), Taiwan. His current research interests include device engineering, ESD protection design and Reliability. He was in India to give a talk at IISc. He also visited our campus, where he interacted with the Principal, HoD, and several faculty members, and toured one of the R&D labs on 24.08.2025. He emphasized the importance of inculcating innovation-driven research, fostering industry-academia collaboration, and enhancing practical exposure for students. His visit proved highly motivating for young researchers and faculty members, providing valuable perspectives on semiconductor technology and its future opportunities in India.



**TALK DELIVERD BY DR. KARUNA NIDIHI**

# INDUSTRIAL VISIT



An industrial visit to M/s VENJAY AUTOMATION PRIVATE LIMITED was organised on 23.06.2025 for faculty of Electrical Engineering department. During the visit, Mr. Charan, a representative from the company, briefed about the company and clients, later presented a demo on Basic PLC kit with HMI usage. The purpose of the visit was to explore the possibility of setting up a PLC based training kits for the students of electrical engineering department. The visiting staff also got an opportunity to program the PLC on a belt conveyor and see the variation with different settings. The faculty members who participated in the visit were Dr. Prashant A. A., Dr. Narapareddy Ramarao, Prof. H. D. Kattimani, Dr. Manjunatha Babu P., and Prof. Nagaraj D. C

# BOS MEETING

The third Board of Studies (BoS) meeting for the Electrical and Electronics Engineering program was held on 06.08.2025 at the EEE Department Board Room, academic block from 10 am to 1 pm.



## BOS MEETING

# PUBLICATION OF RESEARCH PAPERS BY THE FACULTY MEMBERS

## International Conference:

- The IEEE PES Student Branch Chapter, BMSIT&M, organized the “Kill Switch” event on 23–24.10.2025, creatively blending mystery with engineering logic through a technical treasure hunt. A total of 23 teams participated, solving Electrical and Electronics-based puzzles to uncover the cause of a fictional professor’s “death.” The event effectively promoted analytical thinking, creativity, and teamwork, making technical tions, pp. 475-486. Singapore: Springer Nature Singapore, 2024.

# SUPERANNUATION

**“The Department of Electrical and Electronics Engineering commemorated the Superannuation of Prof. H. D. Kattimani with a heartfelt farewell on 29.11.2025.**





Thank  
you