



Monthly Newsletter of Electrical and Electronics Engineering Department

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Editorial Message

The Department of Electrical and Electronics Engineering, Basaveshwar Engineering College, Bagalkot, continues to uphold its commitment to academic excellence, technical innovation, and professional development through various activities and achievements featured in this edition.

A major highlight of this period has been the remarkable placement accomplishments of our students, reflecting their dedication, technical competence, and industry readiness. The department congratulates all placed students and appreciates the efforts of faculty members and the Training & Placement Cell in guiding them toward successful careers.

The department also organized several enriching academic and technical activities, including a seminar on Power System Hardware Simulator in collaboration with PRDC, which provided students with valuable insights into modern power system simulation technologies and their industrial applications. Furthermore, the Alumni Seminar on Abroad Education Opportunities in Germany offered students practical guidance on higher education, scholarships, career prospects, and international opportunities.

To enhance professional and communication skills, a Newsletter Editing Workshop was conducted, equipping students with essential content development and publication skills. First-year students also benefited from a Laboratory Visit and Demonstration Session, where they gained practical exposure to electrical equipment, measuring instruments, and fundamental engineering concepts through hands-on learning experiences.

The department takes immense pride in the achievements of its students who actively participated in prestigious national-level competitions such as INVICTUS'26 and secured commendable positions. Another noteworthy accomplishment was the selection of the innovative project "Smart Hybrid Solar Based Sustainable Cooking Stove" under the New Age Incubation Network (NAIN) initiative, receiving a grant of ₹5.00 lakh and showcasing the department's growing contribution to innovation and entrepreneurship.

We also appreciate the continuous efforts of our faculty members in enhancing their professional expertise through certifications, faculty development programmes, and contributions to academic excellence. Their dedication plays a crucial role in nurturing future engineers and fostering a culture of lifelong learning.

Through these achievements and initiatives, the Department of Electrical and Electronics Engineering continues to create opportunities for growth, innovation, and excellence. We remain committed to empowering students with knowledge, skills, and values required to contribute meaningfully to society and the engineering profession.



Wishing you all the very best for your Semester End Exams (SEE). Stay confident, work hard, and give it your best!



Alumni Seminar On Abroad Education Opportunities

An Alumni Seminar on “Abroad Education in Germany” was organized by the Department of Electrical & Electronics Engineering, Basaveshwar Engineering College, Bagalkot, under the IEEE PES Student Branch Chapter, on 4th May 2026. The session was delivered by Mr. Vivekanand, a distinguished alumnus (BEMS 2015–2019) and currently serving as Secretary at SGM Group of Institutions.



**Basaveshwar Engineering College, Bagalkot**
Department of Electrical & Electronics Engineering
BEC-IEEE-PES-SBC(35261A)

**IEEE PES**
Power & Energy Society

Technical and Educational Activity

Alumni Seminar
on
Abroad Education in Germany



**Resource Person**
Mr. VIVEKANAND
BEMS (2015-2019) Secretary &
SGM Group of Institutions

4th May 2026
10:30 to 11:15 am



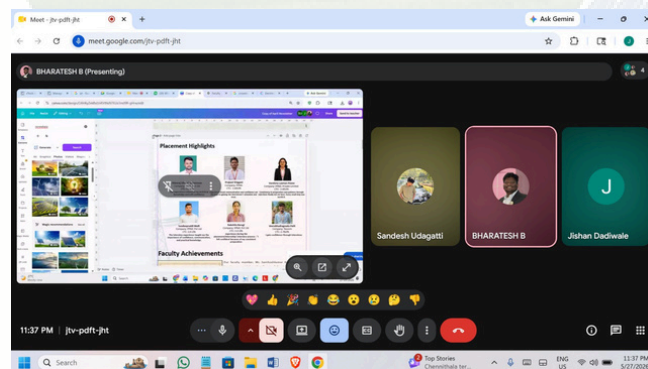
During the session, the speaker shared his personal academic and professional journey, offering students a practical perspective on pursuing higher education abroad. He elaborated on key aspects such as the application process for German universities, required academic qualifications, language proficiency tests, and documentation procedures. Special emphasis was given to the availability of low-cost or tuition-free education in public universities in Germany, along with various scholarship opportunities and financial planning.

The session also highlighted career prospects, internship opportunities, and the scope of research and innovation in Germany. Mr. Vivekanand addressed common challenges faced by students, including cultural adaptation, part-time job opportunities, and life as an international student. The interactive nature of the seminar encouraged students to actively participate, ask questions, and clarify their doubts.



Overall, the session proved to be highly informative and inspiring, equipping students with valuable knowledge and motivating them to explore global educational pathways and career opportunities.

Design Workshop



On 27 May 2026, a Newsletter Editing Workshop was conducted by, Mr. Bhartesh B. The session focused on teaching us how to effectively edit and prepare a newsletter. He explained the key steps involved in organizing content, correcting errors, improving readability, and maintaining a professional format. The workshop provided practical guidance on newsletter preparation and editing techniques.

Did You Know

The power factor of an electrical system indicates how efficiently electrical power is being used. A power factor close to 1 means better efficiency and lower energy losses..

Placement Highlights



Shivaraj Vitthal Kadannavar

Company: PPMC Pvt Ltd

CTC: 3.6 LPA

The experience enhanced my technical knowledge and self-confidence



Prajwal Shiggavi

Company: PPMC

CTC: 3.60LPA

Experience: Good communication and confidence are the keys to gaining the interviewer's attention and trust.



Vandana Laxman Pawar

Company: PPMC Private Limited

CTC: 3.60LPA

Consistency in preparation and patience through rejections finally led me here. Every small step was worth it.



Sandeepreddi Malli

Company: PPMC Pvt Ltd

CTC: 3.6 LPA

The interview experience taught me the importance of confidence, communication, and practical knowledge.



Rakshita Baragi

Company: PPMC Pvt Ltd

CTC: 3.6 LPA

I felt confident because of my consistent preparation



Veerabhadragouda Patil

Company: Tescom

CTC: 2.76LPA

I gain confidence through interviews

Event Highlights

Technical Seminar On Power System Hardware Simulator



On 22 May 2026, the IEEE Power & Energy Society (PES) Student Branch Chapter at BEC organized a Technical Seminar on Power System Hardware Simulator in collaboration with its MoU partner. The seminar was coordinated by Dr. S. Y. Goudappanavar and provided students with an opportunity to learn about the latest developments and practical applications of hardware simulation in power systems.

The session was delivered by Mr. Mukund Parthasarathy, Deputy General Manager (DGM), PRDC Bengaluru, and Mr. Rajesh S, Manager – Embedded Systems. The speakers shared valuable insights into power system simulation technologies, embedded system applications, and their significance in modern power engineering. The seminar enhanced participants' understanding of industry practices and emerging trends in the power sector.



Student Achievements

INVICTUS'26



On 8th May 2026, three first-year students from the Department of Electrical and Electronics Engineering (EEE) — Mahantesh Sheelavant (1BA25EE021), Prateesh Rakaraddi (EEE student) and Shivu Puravantamath (2BA25EE044) — actively participated in the prestigious National Level Technical Fest INVICTUS'26, organized by BLDEA'S Vachana Pitamaha Dr. P.G. Halakatti College of Engineering & Technology, Vijayapur.

The involvement of first-year EEE students in a national technical fest demonstrates their growing technical competence and passion for learning. Shivu Puravantamath was awarded an appreciation certificate along with a cash price for securing First Place at the national-level technical fest INVICTUS'26. This recognition highlights his excellent technical skills and outstanding performance in the competition.



The students participation in the event provided them with an excellent opportunity to explore new ideas and strengthen their technical knowledge. Mahantesh Sheelavant was also awarded an appreciation certificate along with a cash prize for securing Third Place at INVICTUS'26. His achievement reflects his dedication and strong understanding of technical concepts. This build the confidence in our students.

NAIN 2.0

Under the guidance of Dr. Sangamesh Goudappanavar, a team comprising Manish A Budihal, Rakesh V Patil, Arunkumar Patil, Sandhya H Hugar, and Varsha Naik has achieved a significant milestone with their innovative project titled "Smart Hybrid Solar Based Sustainable Cooking Stove." The project has been successfully selected by the New Age Incubation Network (NAIN), IIIT Dharwad on 12th May 2026, and has been awarded a prestigious grant of ₹5.00 lakh.

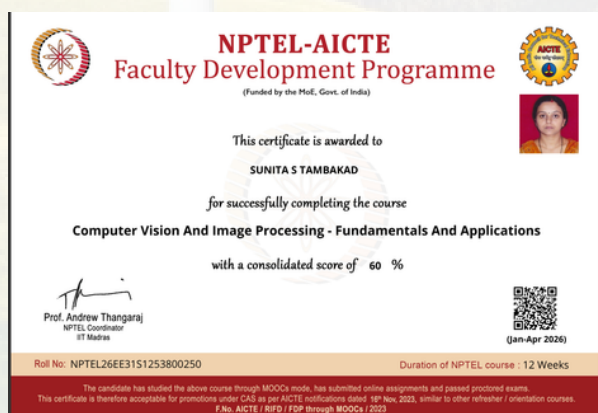


Faculty Achievements



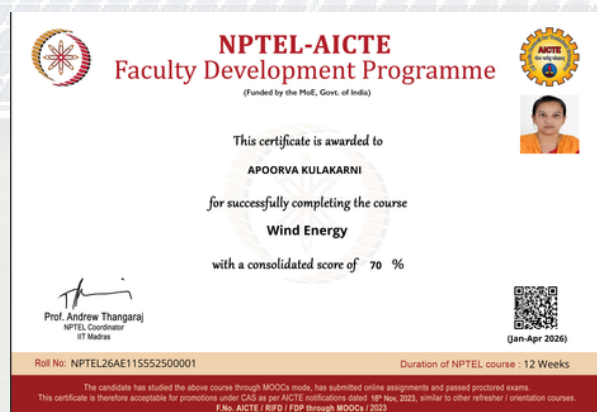
Our faculty member, Prof. Santhoshkumar Kandagal has been awarded a Certificate of Participation by the National Institute of Securities Markets (NISM), in association with the Securities and Exchange Board of India (SEBI). He successfully participated in the National Financial Literacy Quiz 2026 (Online Round), demonstrating his commitment to enhancing financial awareness and academic excellence. This achievement reflects his dedication to continuous learning and contributes positively to the institution's academic environment.

We are happy to share that our department faculty member Prof. Mahantesh Chikkadesai has been awarded the IEEE Certificate of Appreciation for serving as a Proctor during the IEEE Xtreme 19.0 Programming Competition held on 25th October 2025. This recognition highlights their valuable contribution in guiding and overseeing participating teams in one of IEEE's globally recognized programming competitions with over 19,000 participants worldwide.



We are happy to share that Prof. Sunita S Tambakad successfully completed the NPTEL-AICTE Faculty Development Programme on "Computer Vision And Image Processing-Fundamentals And Applications" conducted during Jan–Apr 2026. Offered by IIT Madras, the programme focused on enhancing Computer vision, Image processing, Fundamentals And Application to engineering education. This achievement reflects her commitment to academic excellence and continuous professional development

We are happy to share that Prof. Apoorva Kulkarni successfully completed the NPTEL-AICTE Faculty Development Programme on "Wind Energy" conducted during Jan–Apr 2026. Offered by IIT Madras, the programme focused on Wind Energy. This achievement reflects her commitment to academic excellence and continuous professional development



Laboratory Visit



The Department of Electrical and Electronics Engineering organized a Laboratory Visit and Demonstration Session for first-year (M-Division) students on 29th May 2026 from 1:00 PM to 2:00 PM as a part of the Electrical Science Course – Introduction to Electrical and Electronics Engineering. The session was conducted under the guidance of Prof. S. S. Kandagal, Assistant Professor, EEE Department, with the participation of around 50 students.

The objective of the session was to provide students with practical exposure to basic electrical components, laboratory equipment, and measurement techniques. The demonstration included topics such as Ohm's Law, Kirchhoff's Laws, basic circuit assembly, and the usage of different measuring instruments like multimeters and oscilloscopes. Students were also introduced to electrical appliance verification through real-time household applications.



The session included a theoretical briefing, live demonstrations of circuit assembly and electrical machine components, followed by guided practice where students actively participated in taking readings under supervision. Students showed enthusiastic involvement through interactive discussions and successfully understood the operation of measuring instruments and basic electrical concepts. The demonstration provided valuable hands-on experience and helped students strengthen their foundational understanding of electrical engineering laboratory practices.

In addition to the planned activities, students were encouraged to ask questions and clarify their doubts, which created an engaging and interactive learning environment. The faculty explained complex concepts in a simplified manner, making it easier for students to grasp the fundamentals effectively. The session also highlighted the importance of safety precautions while handling electrical equipment in laboratory conditions.

Future Focus

Smart grids are revolutionizing electricity by enabling real-time monitoring, fault detection, and automated control.



India Power & Renewable Energy Statistics (2025–2026)

India's Renewable Energy Growth

- India has installed about **283.46 GW of non-fossil fuel power** capacity as of March 2026 [1].
- Renewable energy now contributes nearly 50% of India's installed electricity capacity, achieving the target 5 years ahead of 2030 goals [2].
- India added a record **44.5 GW** renewable energy capacity during 2025 [3].

Solar Energy Statistics

- India's cumulative solar power capacity crossed **154 GW in April 2026** [4].
- Rooftop solar installations reached approximately **26.75 GW** [4].
- Solar energy remains the fastest-growing renewable sector in India [4].
 - Top Solar States
 - Rajasthan
 - Gujarat
 - Maharashtra
 - Tamil Nadu

Wind Energy Statistics

- India's wind power capacity crossed **54 GW in 2025** [3].
- Wind installations increased significantly with more than **5.8 GW** added in one year [3].

Electricity Demand & Grid Statistics

- India recorded an all-time peak power demand of approximately **270.8 GW** during the 2026 summer heatwave [5].
- Total power generation in India during 2025–26 reached around **1845 Billion Units (BU)** [6].
- Non-fossil energy contributed about 29.2% of total electricity generation [6].

References

1. <https://mnre.gov.in/en/physical-progress/>
2. <https://www.reuters.com/business/energy/india-hits-50-non-fossil-power-milestone-ahead-2030-clean-energy-target-2025-07-14/>
3. <https://www.pib.gov.in/PressReleasePage.aspx?PRID=2209478&lang=1®=3&>
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6. <https://www.pib.gov.in/PressReleasePage.aspx?PRID=2250039&lang=1®=3&>

I protect electrical circuits from excessive current. Once I do my job, I often need to be replaced. Melt when the current exceeds a safe limit.

What am I?



Institute

Vision

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

Mission

1. Develop professionals globally for future requirements.
2. Nurture a culture of research, innovation and entrepreneurship.
3. Promote collaborations, extension and outreach programs for addressing industrial and societal needs.
4. Imbibe moral and ethical values.
5. Foster ecological and environmental consciousness.

Department

Vision

To be in the global forefront of education, research and innovation in Electrical and Electronics Engineering to meet energy, ecology, industrial and societal needs.

Mission

1. Develop globally competent professionals adapting to technological transformations in the field of Electrical and Electronics Engineering.
2. Promote collaborations with higher learning institutes and industries for research, innovation and entrepreneurship.
3. Imbibe moral & ethical values and render empathetical services to energy, ecology & environmental issues.

Programme Educational Objectives (PEO)

1. The graduates will be able to design the solutions to industrial challenges.
2. The graduates will be able to take up higher studies and research.
3. The graduates will be able to engage in multidisciplinary innovation and entrepreneurship activities.
4. The graduates will be able to adopt emerging technologies to provide solutions to the societal and environmental issues.

Programme Specific Outcomes (PSO)

1. Graduates shall be able to specify, formulate and analyze concepts used in power systems and electrical machines as per requirements of power & energy sector.
2. Graduates shall be able to identify, analyze, design and test technologies used in power electronics, electronic & signal processing circuits and control systems.
3. Graduates shall be able to apply conventional concepts and contemporary tools to design, simulate and analyze electrical and electronic systems for real time applications through hands on learning gained in SCADA, energy systems and power electronics laboratories.

"The best way to predict the future is to create it."

— Peter Drucker

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BEC IEEE PES



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