

BNM Institute of Technology

An autonomous Institution under VTU

IEEE Power and Energy Society (SBC14831H)

List of Events Organized during 2024-26

Sl. No	Event Title	Date	No. of Participants
1	SDG Enigma	1 st June, 2026	44
2	Workshop on “Report of Design, Build and Control of Point of Load (PoL) Converters”	2 nd April, 2026	56
3	Smart Grid Industry Energy Conclave	28 th March, 2026	56
4	Technical talk on “The ARM Impact: The Driving Force behind Industrial and Automotive Applications”	27 th March, 2026	59
5	Beam Build Battle	10 th March, 2026	55
6	Annual General Meeting	8 th February, 2026	7
7	Visit to “Banasura Sagar Dam and Poringalkuthu small Hydro-Electric project	4 th to 5 th February, 2026	40
8	Seminar on “Roadmap to IITs and PSU Jobs through Gate”	8 th January, 2026	56
9	Power Riddle	17 th October, 2025	60
10	IEEE Event Plan Discussion	29 th September, 2025	25

11	IEEE Membership Drive 2025	25th September, 2025	27
12	“Electrothon”-A Hardware Hackathon	29th August, 2025	110
13	BMRCL Visit	9th July, 2025	56
14	EV Internship	2nd to 20th June, 2025	56
15	Hydroproject & Substation visit, Perigalkuthu, Kerala	10th, 11th and 12th April, 2025	40
16	Vtools Reporting	28th March, 2025	38
17	Mathemagiks	14th March, 2025	123
18	Technical Talk on “Clean Energy Transition and Autonomous Grid”	23rd November, 2024	102
19	Inaguration of IEEE PES BNMIT, Power and Energy Society Student Branch Chapter	23rd November, 2024	102

IEEE PES BNMIT Office Bearers

Sl. No	Name	Position Held
1	Shaswatha Varadhan	Chair
2	Sanjay G R	Vice-Chair
3	Gowri A S	Secretary
4	Sathvik R	Joint Secretary
5	Darshan Gowda	Treasurer
6	Adithya Yagnamurthy	Webmaster
7	Sneha R	Webmaster

Faculty Advisor: Dr. Madhu S

B.N.M. Institute of Technology

An Autonomous Institution under VTU

Department of Electrical & Electronics Engineering

Report of SDG Enigma organized by BNMIT IEEE Power and Energy Society (PES) Student Chapter

Event Date: 1st June 2026

Time of the Event: 1.00 PM to 4.00 PM

Participants: 44

Venue: N004, N005, BNMIT

Duration: 3 hours

Team Size: 2 per team

Overview:

The Department of Electrical and Electronics Engineering (EEE), BNM Institute of Technology (BNMIT) in association with Synergy club successfully organized SDG Enigma on 1st June **2026** with the objective of promoting awareness and understanding of the **United Nations' 17 Sustainable Development Goals (SDGs)** through engaging and interactive activities. The event was designed to encourage students to think critically, collaborate effectively, and express their creativity while learning about global sustainability challenges. Conducted in two rounds, SDG Enigma combined technology, teamwork, problem-solving, and artistic expression to create a unique learning experience. Participants worked in teams of two and actively engaged in activities that enhanced their knowledge of the SDGs while fostering innovation and social responsibility.

Objectives:

- To create awareness about the 17 United Nations Sustainable Development Goals (SDGs).
- To encourage teamwork, communication, and collaborative problem-solving among students.
- To promote critical thinking through an interactive QR code-based treasure hunt.
- To enhance participants' knowledge of sustainability issues in an engaging manner.
- To foster creativity by encouraging students to visually represent SDG concepts through poster making.
- To inspire innovative ideas and solutions for sustainable development challenges.
- To provide a fun, competitive, and educational platform for learning beyond the classroom.

Event Structure:

The event was conducted in **two rounds**.

Round 1 – QR Code Treasure Hunt:

- Participants competed in teams of two.
- QR codes were placed at various locations across the BNMIT campus.

- Teams scanned each QR code to unlock questions related to the 17 Sustainable Development Goals.
- Correct answers guided participants to the next clue, making the activity both educational and interactive.
- Teams were evaluated based on accuracy and completion within the stipulated time.

Round 2 – SDG Poster Making:

- Qualified teams participated in a poster-making competition.
- A spin wheel randomly assigned any two Sustainable Development Goals to each team.
- Teams designed creative posters highlighting the significance, challenges, and possible solutions related to the assigned SDGs.
- Posters were judged based on creativity, relevance, presentation, originality, and effectiveness in conveying the SDG message.

Expected Outcomes:

Expected Outcomes

- Enhance participants' understanding of the **17 United Nations Sustainable Development Goals (SDGs)** and their global significance.
- Develop teamwork, communication, and coordination skills through collaborative participation.
- Improve analytical thinking, problem-solving, and quick decision-making abilities through the QR code-based treasure hunt.
- Foster creativity and innovative thinking through the poster-making competition.
- Encourage participants to appreciate the importance of sustainability and their role in achieving the SDGs.
- Promote experiential learning through interactive, activity-based engagement.
- Inspire active participation, enthusiasm, and a healthy competitive spirit among students.
- Integrate technology, education, and creativity to provide an engaging and meaningful learning experience.

Conclusion:

SDG Enigma was a successful initiative by the Department of Electrical and Electronics Engineering, BNMIT, that effectively combined learning with fun and creativity. The two-round format provided participants with an opportunity to explore the Sustainable Development Goals through interactive problem-solving and artistic expression. The event not only strengthened students' awareness of global sustainability issues but also enhanced their teamwork, critical thinking, and creative skills. Overall, SDG Enigma served as an impactful platform for inspiring students to become responsible citizens and active contributors towards achieving a more sustainable future.

PHOTO GALLERY



B N M Institute of Technology

An Autonomous Institution under VTU
Department of Electrical & Electronics Engineering



SDG ENIGMA

DESIGN. INSPIRE. IMPACT.
DARE TO DESIGN THE DIFFERENT.

A two-round team competition that combines
a fast-paced hunt with creative event planning.



ROUND 1 THE QR CODE HUNT (ALL TEAMS)



Teams race to
find hidden
QR codes
around the venue.



The final QR code
reveals a set of
SDG topics
to the team.

**DESIGN IT.
INSPIRE IT.
MAKE AN IMPACT!**

**TEAM SIZE
2**

ROUND 2 THE POSTER MAKING (QUALIFIED TEAMS)



Qualified teams
return to the main
room to brainstorm.

Qualified teams get
to design a poster
on the SDG topics
uncovered in the
hunt.

Teams present their
poster to the judges.
**EXCITING
PRIZES!**

**PRIZE POOL
₹2000**



SCAN TO REGISTER!
Secure your spot
and be a part of
SDG Enigma!

ORGANIZERS:

1. Dr. Madhu S. Faculty Advisor, IEEE BNM PES SRC
2. Ms. Shaswatha Varadharan, Chair, IEEE BNM PES SRC (7204470201)
3. Mr. Sanjay G R, Vice-Chair, IEEE BNM PES SRC (960654358)

REGISTRATION FEES:

IEEE MEMBERS: ₹100
NON-IEEE MEMBERS: ₹120

DATE & TIME
1ST JUNE 2026
MONDAY
1:00 PM

DURATION
2 HOURS

LOCATION:
N004 AND N005









B.N.M. Institute of Technology

An Autonomous Institution under VTU

Department of Electrical & Electronics Engineering

Report of Design, Build and Control of Point of Load (PoL) Converters: A Practical Workshop organized by BNMIT IEEE Power and Energy Society (PES) student chapter

Event Date: 2nd April 2026

Participants: Students from 6th Semester of Electrical and Electronics Engineering

Venue: N401 and S008

Number of Participants: 56

Duration: 10.30 AM to 4.30 PM

Speaker: Mr. Sumukh Surya

Overview:

A Simulation Workshop on Buck Converter Design using MATLAB Simulink was conducted with the objective of providing participants with practical exposure to power electronics simulation and converter analysis. The session was delivered by Mr. Sumukh Surya, who shared valuable insights into the fundamentals and implementation of DC-DC converters in simulation environments.

The workshop focused on the design and simulation of a buck converter based on given specifications such as input voltage, output voltage, switching frequency, load resistance, and component selection. Participants were introduced to the operating principle of buck converters, including switching behavior, duty cycle control, inductor and capacitor design considerations, and waveform analysis.

Using MATLAB Simulink, the attendees developed simulation models, analyzed voltage and current waveforms, and observed converter performance under different operating conditions. The session also emphasized the importance of simulation tools in modern power electronics design, enabling students to bridge theoretical concepts with practical implementation.

Objectives:

- To gain practical exposure to converter design using MATLAB Simulink.
- To learn the process of designing a buck converter based on given electrical specifications.
- To analyze important parameters such as duty cycle, switching frequency, output voltage, and load characteristics.
- To study the behavior of inductors, capacitors, and switching devices in power electronic circuits.
- To simulate and observe voltage and current waveforms under different operating conditions.
- To bridge the gap between theoretical concepts of power electronics and practical simulation implementation.
- To enhance problem-solving and analytical skills in converter modeling and performance evaluation.
- To provide hands-on experience in simulation tools widely used in industry and research.

Expected Outcomes:

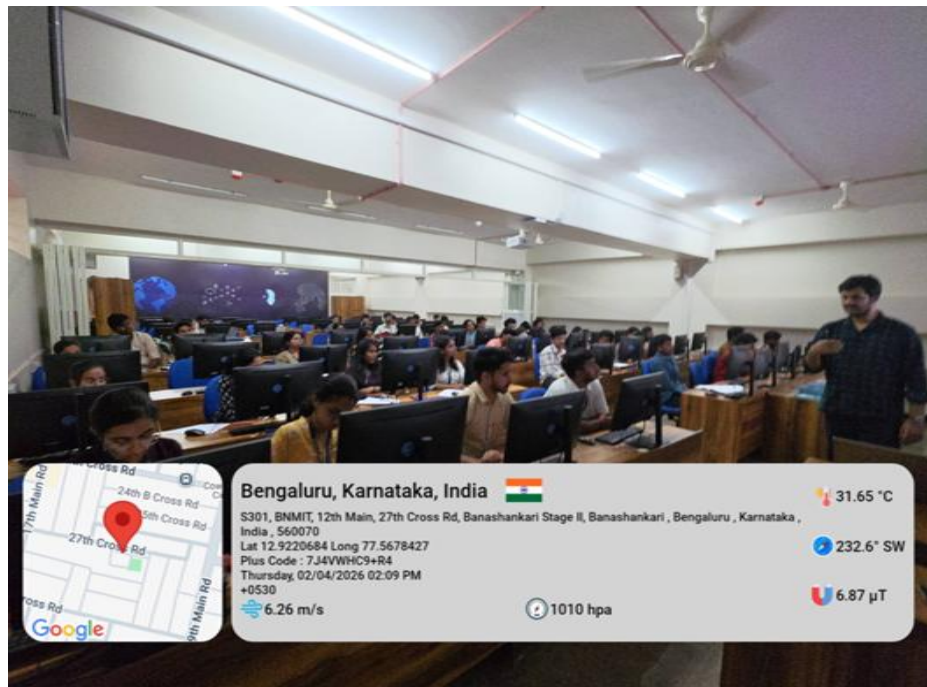
- Participants will be able to understand the working principle of a Buck Converter and its applications.
- Participants will gain hands-on experience in designing and simulating converters using MATLAB Simulink.

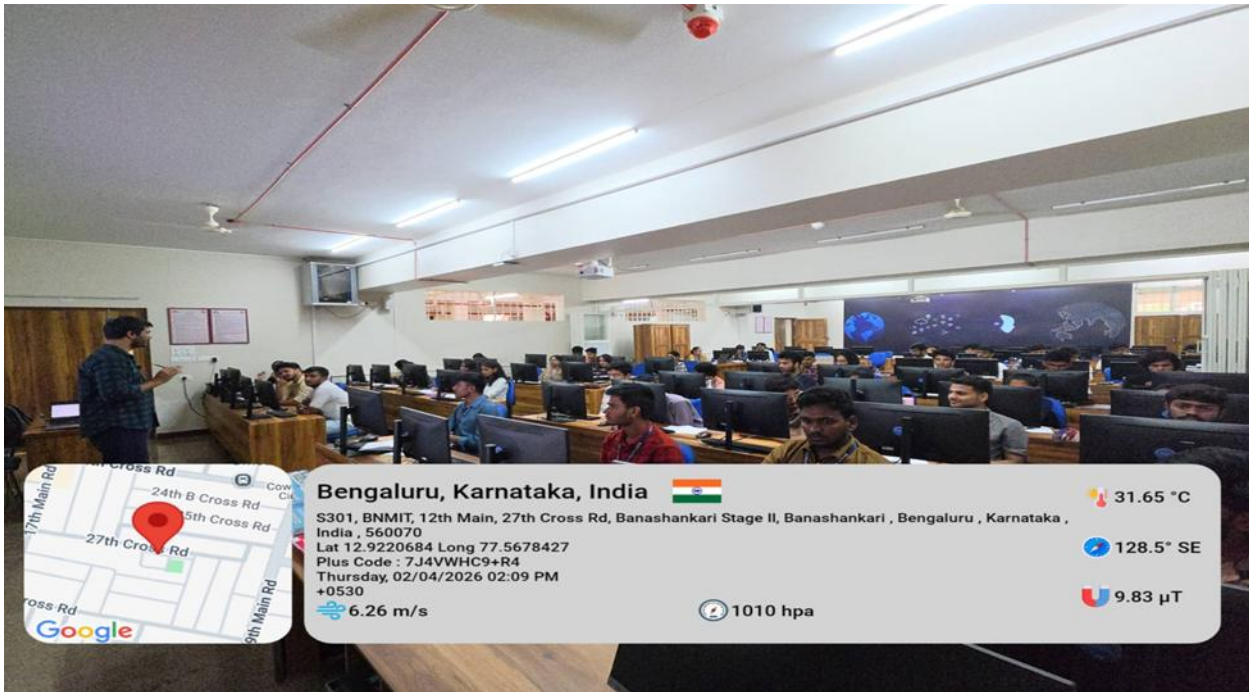
- Participants will be able to calculate and select appropriate converter parameters such as duty cycle, inductance, capacitance, and switching frequency.
- Participants will develop the ability to create simulation models and analyze converter performance through waveform observation.
- Participants will understand the relationship between theoretical power electronics concepts and practical implementation.
- Participants will improve their technical and analytical skills in power converter design and simulation.
- Participants will gain exposure to industry-relevant tools and techniques used in power electronics and control engineering.
- Participants will be able to identify and troubleshoot basic issues in converter simulations.

Conclusion:

In conclusion, the workshop on Buck Converter design and simulation using MATLAB Simulink provided participants with a strong foundation in both theoretical and practical aspects of power electronics. It enabled a clear understanding of converter operation along with the ability to design, simulate, and analyze performance using appropriate parameters. The hands-on experience helped bridge the gap between classroom concepts and real-world applications, while also enhancing analytical and problem-solving skills. Overall, the workshop successfully strengthened participants' technical competence and prepared them with industry-relevant tools and techniques in power converter design and simulation.

PHOTO GALLERY





B.N.M. Institute of Technology

An Autonomous Institution under VTU

Department of Electrical & Electronics Engineering

Report of Smart Grid Industry Conclave organized by BNMIT IEEE Power and Energy Society (PES) student chapter

Event Date: 28th March 2026

Participants: Students from 4th Semester of Electrical and Electronics Engineering

Venue: S Block Concept hall

Number of Participants: 56

Duration: 9.30 AM to 4.30 PM

Speaker: Dr. Balaram kannan, Dr. Chandrashekar Reddy Atla

Overview:

The Smart Grid Industry Conclave brought together academic experts, utility leaders, and industry professionals to discuss the rapid digitalization, standardization, and evolution of modern power systems. As the energy sector aggressively pivots toward renewable sources, traditional power grids are undergoing a massive transformation. The conclave highlighted that the future workforce and global energy production are projected to multiply by 2.5\times to 5\times, emphasizing the critical need for engineers to possess solid power system fundamentals coupled with strong data analytics capabilities.

A major focus of the event was the shift from conventional substations to digital substations driven by international standards like IEC 61850. Experts detailed how the Process BUS concept replaces bulky, resource-heavy copper wiring with streamlined Ethernet communication, moving from rigid, point-to-point connections to flexible "one-to-many" data sharing. However, this shift toward digital integration also exposes the grid to new vulnerabilities, with speakers explicitly noting the current lack of encryption in these localized digital substations as a significant security gap.

The discussion seamlessly transitioned from macro-grid infrastructure to localized innovations, specifically smart microgrids and advanced utility implementations. Practical case studies highlighted the complexities of managing intermittent Distributed Energy Resources (DERs) and ever-changing loads, which demand continuous generation-load balancing through mixed centralized and decentralized system engines. Regional utility progress was showcased via BESCO's evolution, tracing the journey from old electromechanical and static meters to modern Smart Meters integrated into a robust Advanced Metering Infrastructure (AMI).

Finally, the conclave underscored the critical importance of regulatory compliance and standardization across the industry. Speakers mapped out the specific Indian Standards governing these technologies, notably IS 16444 for smart meters, alongside Object Identification System (OBIS) codes for automated meter reading. While the framework for smart meters is maturing rapidly in India, the event also called attention to current regulatory gaps, such as the lingering lack of standardization for Automatic Meter Reading (AMR) protocols.

Objectives:

- To drive grid standardization by promoting the adoption of international frameworks like IEC 61850 for digital substations.
- To learn the process of standardizing data models, logical interfaces, and communication protocols (such as GOOSE and Sampled Values) in modern automation.
- To optimize renewable integration by addressing the technical challenges of balancing intermittent Distributed Energy Resources (DERs) and battery energy storage systems.

- To analyze important parameters such as continuous load-generation balancing, seamless microgrid transitions, and electrical topologies.
- To study the behavior of Advanced Metering Infrastructure (AMI), smart meters, and modern utility features in active distribution systems.
- To simulate and observe real-time measurement data, automatic billing parameters, tamper detection mechanisms, and outage analysis.
- To bridge the gap between theoretical concepts of conventional power networks and practical digital grid implementation.
- To enhance problem-solving and analytical skills in alignment with national standards like IS 16444 and OBIS code tracking.
- To provide hands-on experience in modern grid utilities and industry-relevant tools widely used in control and power engineering.

Expected Outcomes:

- Participants will be able to understand the working principle of Digital Substations, smart microgrids, and their utility applications.
- Participants will gain hands-on exposure to advanced communication frameworks, replacing extensive copper wiring with Ethernet-based Process BUS architecture.
- Participants will be able to calculate, select, and balance appropriate parameters for intermittent generation to achieve seamless grid transitions.
- Participants will develop the ability to analyze smart grid performance through real-time meter readings and advanced software analytics.
- Participants will understand the relationship between legacy electrical infrastructure and modern digital grid implementation.
- Participants will improve their technical and analytical skills in power converter data mapping, logical node naming, and OSI 7-layer communication.
- Participants will gain exposure to industry-relevant tools, consumer application integration, and regulatory standards like IS 16444.
- Participants will be able to identify, evaluate, and mitigate basic grid vulnerabilities, specifically addressing the lack of encryption in localized substations.

Conclusion:

The Smart Grid Industry Conclave successfully mapped out the blueprint for the next generation of electrical power systems, emphasizing that the transition from a conventional power grid to a digital grid is no longer a futuristic concept, but an active reality. By reviewing successful case studies from BESCO and examining the architectural shift toward IEC 61850 and smart microgrids, the event made it clear that data analytics, standardization (such as IS

16444), and collaborative industry-academic efforts are vital to sustaining this growth. To fully realize this digital evolution securely, the industry must now urgently collaborate to address critical vulnerabilities, particularly the lack of localized substation encryption and the absence of standardized protocols for automatic meter reading.

PHOTO GALLERY





B. N. M. Institute of Technology

An Autonomous Institution under VTU, Approved by AICTE.

Banashankari 2nd Stage, Bangalore 560070

Department of Electrical & Electronics Engineering



In Association with

IEEE BNMIT PES Student Branch Chapter

&

Institution's Innovation Council



SMART GRID INDUSTRY CONCLAVE

Bridging Academia and Innovation!

Inauguration



Dr. Balaraman Kannan

Executive Director,
Idam Infrastructure Advisory Pvt. Ltd.



Dr. Chandrasekhar Reddy Atla

Past Chair, IEEE – PES, Bangalore Chapter,
General Manager, M/s PRDC Pvt. Ltd., Bangalore

Meet our Esteemed Guests



Dr. Sarasij Das
Associate Professor,
IISc, Bangalore



Prof. Soham Chakraborty
Assistant Professor,
IISc, Bangalore



Mr. K Balaji
Deputy General Manager
(TIG, SG & Cyber Security),
BESCOM



Smt. Sandhya R J
Senior Manager
Power System Engineering,
Open Systems International
Bangalore.



Mr. Pradish M
Joint Director,
CPRI, Bangalore.

JOIN US!



28th March 2026



9:00 AM to 4:30 PM



S Block Concept Hall
BNM Institute of Technology
Bengaluru, INDIA

Scan to Pay



IEEE MEMBERS:

Faculty: Rs. 350/-
Students: Rs. 150/-
Industry: Rs. 750/-

Goodies: Bottle + Folder
Certificates will be provided

NON - IEEE MEMBERS:

Faculty: Rs. 500/-
Students: Rs. 250/-
Industry: Rs. 900/-



<https://tinyurl.com/yexbzfkm>

Organizers

Dr. Venkatesha K
Professor & HoD
Dept. of EEE

Dr. Priyashree S
Associate Professor
Dept. of EEE

Smt. Kruthi Jayaram
Assistant Professor
Dept. of EEE

Sri. Narayan Rao R. Maanay
Chairman,
BNMIT

Prof. T. J. Rama Murthy
Director
BNMIT

Dr. S. Y. Kulkarni
Additional Director & Principal
BNMIT

Prof. Eishwar N. Maanay
Dean
BNMIT

Dr. Krishnamurthy G. N.
Deputy Director
BNMIT





B.N.M. Institute of Technology

An Autonomous Institution under VTU

Department of Electrical & Electronics Engineering

Report of Technical talk organized by the Department of Electrical and Electronics Engineering, BNMIT, in association with The Institute of Engineers (India) (KSC), BNMIT IEEE Vehicular Technology Society SBC and BNMIT IEEE Power and Energy Society

Event Date: 27th March 2026

Participants: Students from 4th Semester of Electrical and Electronics Engineering

Venue: N401

Number of Participants: 56

Duration: 2:00 PM to 4:00 PM

Speaker: Mr. Sachith J V D'Souza

Overview:

A Technical Talk on "The ARM Impact: The Driving Force behind Industrial and Automotive Applications" was conducted with the objective of providing participants with in-depth knowledge of ARM-based processor architectures and their transformative role in shaping modern industrial and automotive systems. The session was delivered by Mr. Sachith J V D'Souza, a Technical Marketing – Staff Field Application Engineer at Infineon Technologies India Pvt. Ltd., Bangalore, who brought rich industry experience and practical perspectives to the discussion.

The talk offered a comprehensive exploration of the ARM ecosystem, highlighting how ARM-based microcontrollers and processors have become foundational components in embedded systems deployed across industrial automation, automotive electronics, and smart device applications. Participants were familiarized with key architectural features of ARM cores, their scalability, power efficiency, and suitability for safety-critical applications in automotive and industrial environments.

The session further examined real-world use cases and application scenarios where ARM-based solutions from Infineon Technologies have been successfully deployed. The speaker elaborated on the evolving demands of automotive-grade systems, including functional safety standards, edge computing requirements, and integration with communication protocols. The talk served as a bridge between academic learning and industry practice, providing students with exposure to cutting-edge technologies shaping the future of embedded and automotive engineering.

Objectives:

- To familiarize participants with the ARM processor architecture and its significance in modern embedded systems.
- To understand the role of ARM-based microcontrollers in industrial automation and automotive applications.
- To explore the key features of ARM cores, including power efficiency, scalability, and real-time processing capability.
- To learn about the application of Infineon Technologies' ARM-based solutions in industrial and automotive domains.
- To gain awareness of functional safety requirements and standards prevalent in automotive-grade embedded systems.
- To understand the integration of ARM processors with communication interfaces and protocols used in industry.
- To bridge the gap between theoretical concepts of embedded systems and their practical deployment in real-world products.
- To expose participants to career opportunities and industry trends in the field of automotive and industrial electronics.

Expected Outcomes:

- Participants will be able to understand the architecture and working principles of ARM-based processors and their relevance in embedded system design.
- Participants will gain awareness of how ARM microcontrollers are applied in industrial automation and automotive electronic systems.
- Participants will develop an appreciation for the design challenges and safety standards associated with automotive-grade embedded systems.
- Participants will understand the role of Infineon Technologies and similar industry leaders in driving innovation through ARM-based platforms.
- Participants will be able to relate academic knowledge of microprocessors and embedded systems to practical industry applications.
- Participants will gain exposure to communication protocols and integration techniques used in modern industrial and automotive products.
- Participants will improve their technical awareness and readiness for careers in automotive electronics, embedded systems, and semiconductor industries.
- Participants will be inspired to explore research and development opportunities in the domain of ARM-based system design and automotive engineering.

Conclusion:

In conclusion, the Technical Talk on "The ARM Impact: The Driving Force behind Industrial and Automotive Applications" offered participants valuable industry insights into the growing role of ARM-based architectures in industrial and automotive domains. The expertise shared by Mr. Sachith J V D'Souza from Infineon Technologies India Pvt. Ltd. effectively connected theoretical foundations with real-world applications, enhancing the technical awareness and professional outlook of the participating students.

PHOTO GALLERY



B.N.M Institute of Technology
An Autonomous Institution under VTU
12th Main, 27th Cross, Banashankari 2nd Stage, Bangalore 560070

Department of Electrical & Electronics Engineering

In Association with



The Institute of Engineers (India) (KSC)



BNMIT IEEE Power and Energy Society

Technical Talk on

“The ARM Impact: The Driving Force behind Industrial and Automotive Applications”

Date: 27th March 2026
Time: 2:00 P.M. to 4:00 P.M.
Venue: New Block, Seminar Hall N401

Resource Person



Mr. Sachith J V D'Souza
Technical Marketing-Staff Field Application Engineer
Infineon Technologies India Pvt. Ltd., Bangalore.

Organizers

Dr. Venkatesha K Professor & Head Dept. of EEE, BNMIT	Dr. A Kumar Professor Dept. of EEE, BNMIT	Dr. Shubha Rao K Associate Professor Dept. of EEE, BNMIT
Sri. Narayan Rao R. Maanay Chairman, BNMIT	Prof. T. J. Rama Murthy Director BNMIT	Dr. S. Y. Kulkarni Additional Director & Principal BNMIT
Prof. Eishwar N. Maanay Dean BNMIT	Dr. Krishnamurthy G. N. Deputy Director BNMIT	





B.N.M. Institute of Technology

An Autonomous Institution under VTU

Department of Electrical & Electronics Engineering

Report of Beam-Build-Battle organized by BNMIT IEEE Power and Energy Society (PES) student chapter

The Department of Electrical & Electronics Engineering, B.N.M. Institute of Technology, successfully organized BEAM BUILD BATTLE under the technical Club Synergy in Collaboration with IEEE PES Student Branch Chapter on 10th March 2026, from 10:00am to 5:00 pm.

Event Focus

The workshop focused on technical innovation and creative engineering in the field of Electronics, challenging participants to design, program, and deploy a functional IR-based laser tag system.

Key themes explored:

- Hands-on Embedded Systems Design: Building hardware from scratch using the Arduino Nano microcontroller and IR LED sensors.
- Precision Microcontroller Programming: Writing code to handle signal sampling and real-time game logic.
- Wearable Combat Technology: Developing tactical vests and gear that integrated sensors for live hit detection.
- Competitive Strategic Gaming: Testing the durability and accuracy of custom-built systems in a high-intensity "Beam - Build -Battle" tournament.
- Hardware Troubleshooting and Optimization: Refining circuits to ensure reliable communication between the IR emitters and receivers during active movement.

The event challenged participants to transition from circuit theory to a functional, competitive product. Themes spanned DIY electronics, sensor integration, and real-time data processing. Open-ended prompts sparked disruptive ideas for the next generation of affordable, student-built gaming tech, culminating in an arena-style battle where the most robust designs led two teams to ultimate victory.

Participation

The workshop transformed into a high-stakes arena of technical innovation and creative engineering, challenging 55 enthusiastic participants to design, program, and deploy functional IR-based laser tag systems. This remarkable event drew a diverse pool of talent across 19 teams, including a strong internal presence of 8 teams from BNMIT and an impressive external turnout of 11 teams from prestigious institutions such as RNSIT (3 teams), KSIT (4 teams), and single-team representations from Dayananda Sagar, Don Bosco, Global Academy of Technology, and SJBIT.

Results

Position	Participant Name
First Prize	Puneet Gangur, Eshan H, Akshay K
Second Prize	Thanushree M, Vishwas R, Shashank Reddy

Event Coordination

The smooth conduct of the event was made possible by the dedicated efforts of the coordinators:

- Faculty Coordinator – Ms. Shruti V. Joshi, Assistant Professor, EEE Department
- Student Coordinators – Mr. Sharin Cherian, Mr. Abhishek A Reddy, Ms. Shraddha Shetty, Ms. Samiksha D, Mr. Chethan Kumar Y, Ms. Prajna R, Mr. Abhishek Kalyanpur, Mr. Karan.

Their meticulous planning and guidance ensured the success of the event.

Conclusion

Beam Build Battle proved to be a resounding success, serving as a high-octane platform that inspired 55 students to transcend classroom theory and develop functional, battle-ready embedded systems. The workshop and tournament significantly sharpened participants' technical acumen in Arduino Nano programming and IR sensor integration, while fostering the collaborative spirit essential for intense, team-based strategic gaming. With a remarkable turnout of 19 teams including 8 from BNMIT and 11 from prestigious external institutions like RNSIT, KSIT, and Dayananda Sagar—the event ignited a vibrant inter-collegiate exchange of engineering talent. The Synergy Club and the IEEE PES Student Branch Chapter extend heartfelt congratulations to the two winning teams for their tactical and technical mastery, and express sincere gratitude to all participants, faculty, and student organizers for making this journey from circuit to combat truly unforgettable.

Take Away

The "Beam Build Battle" workshop and tournament provided several key takeaways for the 55 participants and the organizing Synergy Club:

Practical Hardware Integration: Participants moved beyond theory to gain hands-on experience in assembling IR laser tag systems using the Arduino Nano. **Real-World Troubleshooting:** The event highlighted the importance of hardware optimization, requiring teams to refine circuits for reliable communication during active movement.

Embedded Systems Programming: Students sharpened their technical acumen by writing code to handle complex signal sampling and real-time game logic.

Inter-Collegiate Collaboration: The presence of 11 external teams from institutions like RNSIT and KSIT created a vibrant platform for exchanging engineering ideas and competitive strategies.

Tactical Problem Solving: The tournament phase emphasized the transition from a functional circuit to a robust, battle-ready product capable of performing under pressure.







B.N.M. Institute of Technology

An Autonomous Institution under VTU

Department of Electrical & Electronics Engineering

Report of IEEE PES Bangalore Chapter Annual General Meeting (AGM)

Event Date: 8th February, 2026

Time of the Event: 9:30 AM to 4:00 PM

Venue: Department of Electrical Engineering, IISc, Room No. 308

Participants: Faculty Co-Ordinator, Students from 4th and 6th semester, EEE.

Organized by: IEEE Power & Energy Society (PES), Bangalore Chapter

Overview:

The IEEE Power & Energy Society (PES) Bangalore Chapter successfully conducted its Annual General Meeting (AGM) at the Department of Electrical Engineering, Indian Institute of Science (IISc), Bengaluru. The AGM served as an important platform for members to review the chapter's activities, discuss strategic plans, and align future initiatives with IEEE PES objectives. The meeting brought together professionals, academicians, and student members, fostering collaboration and knowledge exchange within the power and energy community.

Objectives:

- To review the activities and achievements of the IEEE PES Bangalore Chapter over the past year
- To discuss future plans, technical initiatives, and upcoming events
- To strengthen engagement among professional and student members
- To encourage active participation in IEEE PES programs and activities
- To facilitate networking and knowledge sharing among members

Event Structure

- The meeting commenced with participant registration and reporting at 9:30 AM
- Opening remarks and welcome address by the IEEE PES Bangalore Chapter leadership
- Presentation of the annual activity report and financial summary
- Discussions on upcoming technical events, workshops, and collaborations
- Open forum for member interaction, suggestions, and feedback
- Concluding remarks and formal closure of the AGM

Expected Outcomes:

- Enhanced awareness of chapter activities and strategic direction.
- Increased member participation in IEEE PES initiatives
- Strengthened professional networking among attendees
- Clear roadmap for future technical and community-driven programs

Conclusion:

The IEEE PES Bangalore Chapter AGM was conducted successfully, achieving its objectives of transparency, member engagement, and strategic planning. The meeting facilitated meaningful discussions on the chapter's progress and future direction, reinforcing the role of IEEE PES in advancing power and energy engineering practices. The active participation of members contributed to a productive and insightful session, setting a strong foundation for the chapter's upcoming activities.

PHOTO GALLERY





B.N.M. Institute of Technology

An Autonomous Institution under VTU

Department of Electrical & Electronics Engineering

Report of Industrial Visit organized by BNMIT IEEE Power and Energy Society (PES) student chapter

Event Date: 4th February 2026 to 5th February 2026

Participants: Students from 6th Semester of Electrical and Electronics Engineering

Venue: Banasura Sagar Dam and Poringalkuthu Small Hydro-Electric Project

Number of Participants: 38 students + 2 faculties

Duration: 2 days

Overview:

The floating solar power plant installed on the Banasura Sagar reservoir in Wayanad, Kerala, represents India's first large-scale floating solar project, commissioned in December 2017 by the Kerala State Electricity Board (KSEB). Developed at an estimated cost of ₹9.25 crore, the 500 kWp facility is deployed over approximately 1.25 acres of water and comprises 1,938 high-efficiency photovoltaic panels mounted on ferro-cement floating structures. The system includes a floating substation, transformers, inverters, and monitoring equipment, with power transmitted to the grid through underwater cables. The plant is designed to generate approximately 7.5 lakh units of electricity annually and to operate alongside a 400 kW solar installation on the dam walkway. The anchoring system is engineered to withstand strong winds and seasonal water-level variations of up to 21 meters. Additionally, the floating configuration enhances generation efficiency through natural cooling and contributes to water conservation by reducing surface evaporation.

The Poringalkuthu Small Hydro-Electric Project, also known as the Poringalkuthu Left Bank Additional Extension Hydro Electric Project, is designed to utilize spill water from the existing Poringalkuthu reservoir. Located in the Chalakudy River basin in Chalakudy Taluk of Thrissur District, Kerala, the project includes a 2 km water-conducting system consisting of an intake structure, power tunnel, surge shaft, valve house, pressure shaft, and steel penstock leading to a 24 MW powerhouse near the existing Left Bank Extension station. The generated power is evacuated through a 110 kV switchyard to the grid, with an annual generation target of 45.02 million units (MU).

Objectives:

- To understand the working principle and components of a small hydroelectric power plant.
- To study the functions of intake structures, tunnels, surge shafts, pressure shafts, and penstocks in water conveyance systems.
- To analyze turbine-generator operation and energy conversion in hydroelectric plants.
- To learn about power evacuation through switchyards and grid synchronization at 110 kV level.
- To evaluate annual energy generation, plant load factor, and efficiency of small hydro projects.
- To understand the utilization of spill water and the concept of run-of-river/supplementary hydro generation.
- To understand the design and operation of floating solar photovoltaic (FPV) systems.
- To study PV module characteristics, inverters, transformers, and monitoring systems used in solar plants.
- To analyze the advantages of floating solar technology such as improved efficiency and reduced evaporation.

- To understand anchoring systems and engineering challenges due to wind and water-level variations.
- To study underwater cable power transmission and grid interconnection of solar plants.
- To evaluate the performance and generation potential of solar PV systems.

Expected Outcomes:

1. Gained practical understanding of renewable power generation and real-time plant operation in hydro and floating solar systems.
2. Learned about grid integration, switchyard operation, and synchronization of renewable energy with the power system.
3. Observed key electrical equipment such as generators, transformers, inverters, protection, and monitoring systems.
4. Understood operational challenges, safety practices, and maintenance requirements of power plants.
5. Developed awareness of renewable energy technologies, efficiency improvement, and career opportunities in the power sector.

Conclusion:

The visit to the Poringalkuthu Small Hydro-Electric Project and the Banasura Floating Solar Power Plant provided valuable practical exposure to real-world renewable energy generation and grid integration. It enabled students to connect theoretical concepts with actual plant operation, understand the functioning of major electrical equipment, and gain insight into modern monitoring, protection, and safety practices. The experience highlighted the importance of sustainable energy technologies and the challenges involved in their implementation, thereby enhancing students' technical knowledge, industry awareness, and interest in pursuing careers in the renewable energy and power sectors.

PHOTO GALLERY





B.N.M. Institute of Technology

An Autonomous Institution under VTU

Department of Electrical & Electronics Engineering

Report of Roadmap to IITs and PSU Jobs through GATE organized by BNMIT IEEE Power and Energy Society (PES) and IEEE Vehicular Technology Society (VTS) Student Chapters

Event Date: 8th January 2026

Time of the Event: 12.00 PM

Participants: Students of Electrical and Electronics Engineering ,56

Venue: N205, BNMIT

Duration: 1.5 Hours

Overview:

The Department of Electrical and Electronics Engineering successfully organized a career guidance seminar titled "Roadmap to IITs and PSU Jobs through GATE". This session was conducted in association with IMS GATE Academy and the IEEE Power and Energy (PES). The program was aimed at fostering technical excellence and providing students with a platform to address real-world challenges through advanced technological education.

Objectives:

- To foster interdisciplinary collaboration among engineering students.
- To focus on enhancing practical skill development through competitive exam preparation.
- To strengthen academia-industry ties by bridging the gap between theoretical knowledge and industry needs.
- To promote a spirit of innovation and encourage students to think towards viable career solutions in energy and sustainability.

Event Structure:

- The session was led by expert speaker Mr. Vipin Kumar Mishra, Lead Mentor for IMS GATE Academy.

- Technical insights and academic guidance were provided by Dr. Madhu S, Associate Professor, Dept. of EEE.
- The event was organized under the leadership of HoD Dr. Venkatesha K and the senior management of BNMIT.
- The session focused on evaluating the feasibility and potential for real-world implementation of advanced engineering concepts through the GATE pathway.

Expected Outcomes:

- Enhanced technical knowledge and teamwork skills among participants.
- Strengthened collaboration between the BNMIT EEE department and industry mentors.
- Developed a clear understanding of the opportunities available for higher research and incubation at IITs.
- Improved student awareness regarding the requirements for securing positions in PSUs.

Conclusion:

The seminar provided a dynamic platform for participants to understand the application of advanced technologies in real-time problem statements. The inclusion of industry experts for mentoring further strengthened academia-industry connections, creating future opportunities for students. Beyond technical knowledge, the session played a crucial role in fostering soft skills such as project management and goal setting, inspiring students to think beyond academic boundaries.



B.N.M. Institute of Technology

An Autonomous Institution under VTU

Department of Electrical & Electronics Engineering

Report on event conducted on POWER RIDDLE by BNMIT IEEE PES SBC

Event Date: 17th October 2025

Time of the Event: 11.00 AM to 2.30 PM

Participants:60

Venue: N206, BNMIT

Event name: POWER RIDDLE

Team size: 2-3

Entry fee: 100

Total number of teams: 20

Budget allotted:5000

Prize money: 1500

Number of rounds: 2

EVENT DESCRIPTION:

The Power Riddle competition, organized by IEEE PES Student Branch Chapter, was an engaging and intellectually stimulating event designed to challenge participants' logical reasoning and technical understanding in a fun crossword format. The event began with a brief introduction, followed by distribution of crossword grids that contained 19 technical words related to the field of electrical and electronics engineering. Each correct word carried 2 marks, and teams had to complete the entire grid within the given time limit.

Participants were allowed to use a maximum of three clues, with 2 marks deducted for every clue used. The competition encouraged strategic thinking, teamwork, and efficient time management. The top five teams with the highest scores qualified based on their speed and accuracy. In case of a tie, preference was given to the team that used fewer clues or submitted earlier, ensuring a fair and competitive environment. The event concluded with appreciation for all participants for showcasing their enthusiasm and analytical skills.

WINNER DETAILS

Place	Winners' Names	Sem & Branch
1 st Place	Sharin Cherian	V Sem EEE
	Anuj Vaman Naik	V Sem EEE
	Ashutosh M Sharma	V Sem EEE
2 nd Place	Uday shetty	III Sem, EEE
	Adithya Yagnamurthy	III Sem, EEE
	Abhiram	III Sem, EEE

EVENT POSTER


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 All UG branches - CSE, ECE, EEE, ISE & Mech.E Accredited by NBA for academic years 2022-23 to 2024-25 & valid upto 30.06.2025
 Post box no. 7087, 27th cross, 12th Main, Banashankari 2nd Stage, Bengaluru- 560070, INDIA


BNMIT IEEE PES SBC


 In Association with
 Department of Electrical and Electronics Engineering

POWER RIDDLE



**POWER UP
YOUR BRAIN!!!!**


 Scan to register

STEP INTO THE POWER RIDDLES ARENA!

BRING ALONG 2-3 TEAMMATES AND DIVE INTO A BATTLE OF WITS AND WISDOM.

SOLVE TRICKY RIDDLES AND UNLOCK THE THRILL OF COMPETITION!

THE SMARTEST MINDS WILL WALK AWAY WITH A MYSTERY PRIZE

DO YOU HAVE THE POWER TO PUZZLE IT OUT?

IEEE MEMBERS-75RS

NON IEEE MEMBERS-100RS


OCT 17 2025

DR. MADHU S, FACULTY ADVISOR
DEEKSHITHA K, CHAIR
SHASWATHA V, VICE-CHAIR,


11:00 AM ONWARDS

CONTACT US
N206-NEW BUILDING **+91 9019876798** **+91 7204470201**

PHOTO GALLERY





OUTCOMES OF THE EVENT:

- ❑ Participants improved their understanding of electrical and electronics concepts through engaging crossword-based problem solving.
- ❑ The event sharpened students' reasoning and analytical skills by challenging them to connect clues with technical terms.
- ❑ Teams learned to coordinate effectively under time pressure, enhancing teamwork and collective decision-making.
- ❑ The rule-based format encouraged smart clue usage, promoting accuracy, speed, and strategic problem-solving.

Dr. Madhu S

**Associate Professor & BNMIT IEEE PES Professor & Head Faculty Advisor, Dept. of
EEE Dept. of EEE**

Dr. K Venkatesha

B.N.M. Institute of Technology

An Autonomous Institution under VTU

Department of Electrical & Electronics Engineering

Report of IEEE Week Events Discussion organized by BNMIT IEEE Power and Energy Society (PES) student chapter and BNMIT IEEE Student Branch Chapter

Event Date: 29th September 2025

Time of the Event: 10.30PM to
11.10 PM **Venue:** A209, Auditorium
Building, BNMIT **Overview:**

The IEEE Week Event Discussion was held on 29th September 2025 with the primary agenda of finalizing the dates for the upcoming IEEE Week Celebration. During the meeting, members shared their views and deliberated on suitable options. After the discussion, the celebration schedule was confirmed. IEEE Week will officially be conducted from 8th October 2025 to 18th October 2025. IEEE Week Event

Discussion was conducted on 29th September 2025. The main agenda was to discuss the dates for the IEEE Week Celebration which is to be held during 8th October 2025 to 18th October 2025.

Objective:

To finalize the dates for the IEEE Week events from 8th October 2025 to 18th October 2025.

PHOTO GALLERY



B.N.M. Institute of Technology

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Department of Electrical & Electronics Engineering

**Report of IEEE Membership Drive September 2025 organized by BNMIT
IEEE Power and Energy Society (PES) student chapter and BNMIT IEEE
Student Branch Chapter Event Date: 25th September 2025**

Time of the Event: 1.00 PM to 2.10 PM

Venue: Ground Floor, Auditorium Building, BNMIT **Overview:**

The IEEE Membership Drive was successfully conducted on 25th September 2025 for the students of the 2025–2029 batch. The event aimed to familiarize the newcomers with the IEEE organization, its vision, and its global presence in advancing technology for humanity. During the session, students were introduced to the different technical and non-technical societies under IEEE, each offering unique learning and networking opportunities. The drive highlighted how IEEE membership nurtures students' skills, not only in academics and research but also in leadership, teamwork, and innovation. It further emphasized the benefits of being part of a worldwide professional community, gaining access to resources, conferences, and collaborations that enhance personal and professional growth.

Objective:

- To encourage students to become IEEE members
- To introduce the various IEEE societies
- To explain the role of IEEE in personal and professional growth
- To create awareness about global exposure and opportunities
- To motivate students to engage in collaborative activities

Conclusion:

The IEEE Membership Drive not only introduced students to the wide range of opportunities offered by IEEE but also encouraged them to join a global community of innovators and leaders. The session motivated students to take part in future activities and

to utilize IEEE as a platform for enhancing their academic growth, professional skills, and personal development.

PHOTO GALLERY



B.N.M. Institute of Technology

An Autonomous Institution under VTU

Department of Electrical & Electronics Engineering

Report of Electrothon – National Level Hackathon organized by BNMIT IEEE Power and Energy Society (PES) student chapter

Event Date: 29th August 2025

Time of the Event: 7.30 AM to 8.00 PM

Participants: Students from B.E., B.Tech, M.Tech, MCA

Venue: Ground Floor, Auditorium Building, BNMIT

Number of Participants: 110

Duration:

14 Hour Chief Guests:

Overview:

The Department of Electrical and Electronics Engineering successfully organized Electrothon, a National Level 14-hour Hackathon aimed at fostering problem-solving, critical thinking, and innovative prototyping among engineering students. This theme-based hackathon brought together budding engineers, researchers, and innovators from across the country to develop cutting-edge solutions in various domains. The event encouraged creativity, collaboration, and technical excellence, providing participants a platform to address real-world energy challenges through technological innovation.

Objectives:

- The hackathon was designed to foster interdisciplinary collaboration among participants from various domains.
- It focused on enhancing practical skill development through hands-on problem solving and prototyping.
- The event promoted a spirit of entrepreneurship, encouraging participants to think beyond the project and towards viable solutions.
- It aimed to strengthen academia-industry ties by bridging the gap between theoretical knowledge and industry needs.
- Participants worked on real-world challenges related to energy and sustainability.

Event Structure

- Teams of 2 to 4 participants had registered with a nominal fee, categorized based on IEEE/Non-IEEE/PES membership.
- The Preliminary Round included an online screening challenge to shortlist the top 31 teams.
- The Final Round was conducted as an on-site 12-hour hackathon, where participants worked on real-time problem statements under the specified themes.
- The final solutions were evaluated by a panel of judges from academia and industry, based on the following criteria:
 1. Innovation and originality
 2. Feasibility and cost-effectiveness
 3. Sustainability and potential for real-world implementation

Publicity:

The publicity for the event was started in May 2025 through which 117 teams registered for the Preliminary round. After the Online screening, 32 teams registered for the final round held 29th August 2025.



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IEEE PES Bangalore Chapter

in Association with



IEEE BNMIT PES Student Branch Chapter

and

Department of Electrical & Electronics Engineering

Presents

"ElectroThon"

A Hardware Hackathon

29th August 2025
7.00 AM to 8.00 PM

BNMIT invites registration from

B.E., / B.Tech., / M.Tech., / MCA Students

Scan for Website



THEME 1: Environment and Sustainability

THEME 2: Health Care

THEME 3: Robotics and Drones

THEME 4: Renewable Energy

THEME 5: Open Innovation

Scan to Register



Team size - 3 or 4 members per team

	Registration Fees	Last Date for Online Idea Submission	Results of First Round	Final Round BNMIT
	Registration fee is applicable only for the participants shortlisted for the 2 nd Round	10/08/2025	17/08/2025	29/08/2025



BNMIT IEEE PES Student Chapter

Dr. Madhu S, Faculty Advisor: 9886496914

Ms. Deekshitha K, Student Chair -9019876798

Ms. Shaswatha V, Student Co-chair -7204470201

Mail ID: pesieebnmit@gmail.com



BNMIT Campus

27th Cross, 12th Main,
Banashankari 2nd Stage
Bengaluru - 560070
www.bnmit.org

Poster of the Event

Expected Outcomes:

- Developed prototype-level solutions addressing challenges in energy and sustainability.
- Enhanced technical and teamwork skills among the participants.
- Strengthened collaboration between academia and industry.
- Created a repository of innovative ideas for potential incubation and further research.

Conclusion:

The Electrothon - National Level Hackathon provided a dynamic platform for participants to apply advanced technologies to real-time problem statements in energy and sustainability. The event led to the development of functional prototype-level solutions, showcasing the participants' technical acumen, creativity, and problem-solving abilities. It also encouraged interdisciplinary collaboration, allowing teams to integrate diverse technical skills and knowledge to design feasible and innovative solutions with potential for real-world implementation.

Beyond technical achievements, the hackathon played a crucial role in fostering soft skills such as teamwork, communication, and project management among participants. It also served as a catalyst for promoting a startup and innovation culture, inspiring students to think beyond academic boundaries. The inclusion of industry experts for mentoring and evaluation further strengthened academia-industry connections, creating opportunities for future collaboration.

PHOTO GALLERY





Bengaluru, Karnataka, India
27th Cross Road, Banashankari Stage 2,
Bengaluru, Karnataka 560070, India
Lat 12.922328, Long 77.566672
08/29/2025 10:24 AM GMT+05:30
Note : Captured by GPS Map Camera



Bengaluru, Karnataka, India
27th Cross Road, Banashankari Stage 2,
Bengaluru, Karnataka 560070, India
Lat 12.922316, Long 77.566640
08/29/2025 10:06 AM GMT+05:30
Note : Captured by GPS Map Camera



Bengaluru, Karnataka, India
27th Cross Road, Banashankari Stage 2,
Bengaluru, Karnataka 560070, India
Lat 12.922032, Long 77.567787
08/29/2025 11:41 AM GMT+05:30
Note : Captured by GPS Map Camera



Bengaluru, Karnataka, India
27th Cross Road, Banashankari Stage 2,
Bengaluru, Karnataka 560070, India
Lat 12.922333, Long 77.566650
08/29/2025 10:01 AM GMT+05:30
Note : Captured by GPS Map Camera

B N M Institute of Technology

An Autonomous Institution under VTU

Department of Electrical & Electronics Engineering

Report on Industrial Visit to Bangalore Metro Rail Corporation Limited (BMRCL)

Date: 09/ 07 / 2025 Duration of Activity (in Hrs): 6Hrs No of Students Participated: 56, No of Faculty Participated: 2 Mode of Session Delivery: Offline

Course Outcomes

- Ability to correlate theoretical concepts of electrical and electronics engineering with real-world metro rail applications.
- Improved understanding of large-scale infrastructure management, commercial strategies, and operational safety.
- Development of practical awareness regarding modern urban transport technologies and their challenges.

Introduction

As part of the academic curriculum, the 5th semester students of the Department of Electrical and Electronics Engineering organized an industrial visit to Bangalore Metro Rail Corporation Limited (BMRCL). The visit aimed to provide students with practical exposure to large-scale infrastructure operations and an understanding of metro rail systems, both from the technical and commercial perspectives.

The visit was held on 9th July 2025 at the BMRCL Operation and Maintenance Wing, Baiyappanahalli, Bengaluru. Faculty members accompanied the students and ensured the smooth coordination of the program.



Details of the Visit

1. Orientation and Commercial Aspects

The session began with an introduction to BMRC's services and its contribution to Bengaluru's urban transport system. Students were briefed about the commercial aspects of metro operations, including various ticketing methods, offers, and passenger-friendly schemes such as smart cards, group travel concessions, and mobile app-based ticketing. The officials highlighted how these initiatives improve customer convenience and encourage greater public use of metro services.

2. Visit to the Metro Control Room

The students were then taken to the Centralized Metro Control Room, which serves as the nerve center of metro operations. The officials explained the functioning of the control room, including:

- Real-time monitoring of train movement across different metro lines.
- Safety protocols and signaling mechanisms to ensure smooth train operations.
- Communication systems that link train operators, station staff, and control room officials.
- Emergency handling mechanisms for passenger safety and operational reliability.

This session provided valuable insights into the integration of advanced technologies in urban transport management.

3. Visit to Maintenance Facility

The students were shown the metro train maintenance depot, where they observed the inspection, cleaning, and servicing of metro coaches. The working staff explained routine checks carried out to maintain safety, reliability, and efficiency of the trains.



Learning Outcomes

- Gain exposure to the commercial management aspects of a large public transport system. - Understand the technological and operational workflow of a metro rail system. - Appreciate the importance of safety, real-time monitoring, and preventive maintenance in large-scale transport infrastructure.
- Relate theoretical concepts of power systems, control, and automation to real-world applications.

Conclusion

The visit to Bangalore Metro Rail Corporation Limited (BMRCL) was an enriching experience for the 5th semester students. It not only deepened their technical knowledge but also provided awareness about the practical challenges and solutions in managing a modern urban metro system. The faculty and students expressed their gratitude to the BMRCL officials for their detailed guidance and support during the visit.

B.N.M. Institute of Technology

An Autonomous Institution under VTU

Department of Electrical & Electronics Engineering

Report of Technical Talk organized by BNMIT IEEE Power and Energy Society (PES) student chapter

Event Date: 2nd June to 20th June 2025

Time of the Event: 9.30 AM to 4.00 PM

Participants: 5th sem EEE Students (2023-2027 Batch)

Venue: N004, New Building, BNMIT

Target Audience / Number of Participants: 56- 5th Sem **Duration:** 3 weeks

Resource Persons: R. Sasikumar (Jr. R&D Engineer), Sudhakar V (Junior Project Engineer), A. Arun Praveen Raj (Project Engineer) **Overview:**

The Department of Electrical and Electronics Engineering organized a three-week internship program for the 5th semester students in collaboration with *Pantech Solutions India Pvt. Ltd.* The training focused on **Electric Vehicle (EV) Design and Simulation**, integrating industry-relevant tools such as **MATLAB**, **Ansys**, and **Fusion 360**. This program aimed to bridge the gap between academic learning and industrial applications by providing students with practical exposure to modern engineering design and analysis tools.

The internship was structured to combine theoretical knowledge with extensive hands-on sessions, including problem-solving tasks, collaborative group activities, and software-specific hackathons.

Objectives

- To introduce students to the fundamentals of Electric Vehicle systems and design.
- To familiarize students with professional tools like MATLAB, Ansys, and Fusion 360 used in EV modeling and simulation.
- To provide practical exposure through hands-on sessions and software-based design challenges.
- To encourage teamwork and innovation through group tasks and hackathons.
- To enhance problem-solving and design-thinking skills relevant to modern engineering practices.

Event Structure

The internship was divided into three weekly modules, each focusing on one primary software platform:

Week 1 – MATLAB for EV Simulation

- **Concepts Covered:** Modeling of electric vehicle systems, control algorithms, battery simulation, power electronics.
- **Activities:** Theoretical sessions, hands-on MATLAB Simulink exercises, problem-solving, mini project and a MATLAB hackathon.

Week 2 – Ansys for Thermal and Structural Analysis

- **Concepts Covered:** Motor thermal analysis, battery heat management, structural integrity under load.
- **Activities:** Ansys Workbench demonstrations, simulation tasks, real-time case studies, group-based problem-solving and Ansys hackathon.

Week 3 – Fusion 360 for Mechanical Design

- **Concepts Covered:** 3D modeling of EV components, assembly design, dynamic simulations.
- **Activities:** Design tasks using Fusion 360, component modeling challenges, team-based activities and a design hackathon.

Resources Required

- Licensed software access for MATLAB, Ansys, and Fusion 360.
- High-performance computers for smooth execution of simulations.
- Projectors, whiteboards, and technical manuals for concept delivery.
- Resource persons/trainers from Pantech Solutions with domain expertise.
- Workspace for collaborative group activities and hackathons.

Expected Outcome

By the end of the internship, students were expected to:

- Understand the fundamental and applied aspects of Electric Vehicle design.
- Gain proficiency in simulation tools and design software relevant to the EV industry.
- Apply theoretical knowledge to real-world problems through structured activities.
- Demonstrate team collaboration, creativity, and technical problem-solving skills.
- Develop prototypes or simulation models using industry-standard tools.

Conclusion:

The internship program provided an immersive learning experience, combining theoretical foundations with real-time applications. It enabled students to enhance their software proficiency, technical understanding, and innovation mindset, aligning with current trends in EV technology.

REPORT on

Industrial Visit to

(A) Small Hydro Electric Project, Poringalkuthu, Kerala

(B) KSEB Nemmara 110 kV Substation, Kerala

Start Date: 10/ 04 / 2025 to 13 / 04 / 2025

Duration of Activity (in Hrs): 4 days

No of Students Participated: 36, No of Faculty Participated: 2 No of External Participants: 02, Expenditure Amount: Rs. 1, 81, 217 (One Lakh Eighty One Thousand Two Hundred Seventeen) Mode of Session Delivery: Offline

Objective:

To provide students with practical exposure to the operation, layout, and equipment of a high-voltage electrical substation and enhance their understanding of power transmission and distribution systems.

Benefit in terms of Learning / Skill / knowledge obtained:

Students gained hands-on understanding of substation components, protection systems, and real-time power distribution operations, bridging the gap between theoretical concepts and practical applications.

About the Industrial Visit:

(A) Small Hydro Electric Project, Poringalkuthu, Kerala

Contact Person: Mr. Aravind, Sub-Engineer, KSEB, Poringalkuthu, Kerala

An industrial visit to the Small Hydro Electric Project at Poringalkuthu, Kerala was organized on on 11 / 04 / 2025, for the VI sem students of Electrical & Electronics Engineering Department, BNMIT.

The objective of the visit was to enhance students' understanding of renewable energy systems, particularly hydroelectric power generation, and to provide them with real-world exposure to the operation of a hydroelectric power station.

The Poringalkuthu Hydro Electric Project, operated by the Kerala State Electricity Board (KSEB), is situated in the Thrissur district and utilizes the tailrace water from the Sholayar Hydro Electric Project. With an installed capacity of [insert capacity, e.g., 32 MW], this small hydro project plays a crucial role in Kerala's green energy initiatives by harnessing the hydropower potential of the Chalakudy River.

Upon arrival, the students were briefed by the project engineers about the history, significance, and technical specifications of the plant. The visit included a guided tour of the power house, control room, turbine section, and switchyard. The students were able to closely observe the operation of Francis turbines, generators, excitation systems, and the governor mechanism used for regulating water flow and speed.

The control room staff explained the automation system used for monitoring and controlling plant operations, including the protection schemes, synchronization with the grid, and energy metering systems. The role of civil structures like dams, spillways, and penstocks in the overall plant performance was also elaborated.

A key takeaway for the students was the sustainable and eco-friendly nature of small hydroelectric projects and their contribution to the state's renewable energy targets. The interactive session that followed gave students the opportunity to ask questions about efficiency improvements, load dispatching, environmental impacts, and maintenance practices in hydropower stations.

This industrial visit proved to be a valuable learning experience, bridging theoretical knowledge with field application and giving the students insight into the challenges and opportunities in the renewable energy sector. It also inspired discussions around careers in sustainable energy and the future scope of small-scale hydropower in India.



**Group Photo-1: Students of VI sem EEE, BNMIT with faculties at
Small Hydro Electric Project, Poringalkuthu, Kerala**



**Group Photo-2: Students of VI sem EEE, BNMIT with faculties at
Small Hydro Electric Project, Poringalkuthu, Kerala**

(B) KSEB Nemmara 110 kV Substation, Kerala

Contact Person: Mr. Sreejith, Executive Engineer, Nemmara, KSEB

An industrial visit to the 110 kV Nemmara Substation, located in Palakkad district, Kerala, was conducted on 12 / 04 / 2025 for the VI sem students of Electrical & Electronics Engineering Department, BNMIT. The visit aimed to provide students with hands-on exposure to electrical power transmission and distribution systems and to supplement their academic curriculum with real-world engineering practices.

The Nemmara Substation is a vital node in the Kerala State Electricity Board (KSEB) transmission network, facilitating the regulation and distribution of electricity to surrounding rural and semi-urban areas. On arrival, the students were welcomed by the substation engineers and staff, who gave a brief introduction to the operational importance of the substation and its role in grid stability.

The students were then taken on a guided tour of the substation, where they observed and learned about critical components such as:

- **Power Transformers** (110/11 kV step-down),
- **Current and Potential Transformers** for protection and metering,
- **Circuit Breakers** and **Isolators** for fault handling and maintenance isolation,
- **Busbars, Lightning Arrestors, and Earthing systems,**
- **SCADA Systems** and **Relay Panels** inside the control room.

The engineers explained the power flow path from transmission to distribution, fault detection methods, system automation, and safety protocols followed during maintenance operations. Students were also introduced to substation layout planning and the significance of clearances and insulation in high-voltage environments.

The visit concluded with an interactive Q&A session, where students clarified their doubts and discussed career opportunities in power sector utilities. The experience proved immensely beneficial in enhancing the practical understanding of electrical power systems and gave students a clearer perspective on how theoretical knowledge is applied in field operations.

Overall, the industrial visit to the Nemmara Substation was a highly educational and enriching experience for the students, providing them with valuable insights into the functioning and management of modern electrical substations.



Group Photo-1: Students of VI sem EEE, BNMIT with faculties at Nemmara 110 kV Substation, KSEB



Group Photo-2: Students of VI sem EEE, BNMIT with faculties at Nemmara 110 kV Substation, KSEB

B.N.M. Institute of Technology

An Autonomous Institution under VTU

Department of Electrical & Electronics Engineering

Report on vTools Reporting by Anaghaa R

Event Date: 28th March 2025

Time of the Event: 3.15 PM to 4.45 PM

Venue: N401, BNMIT

Event name: VTOOLS REPORTING

EVENT DESCRIPTION:

A training session was organized by Anaghaa R, the previous IEEE BNMIT Student Chair, for all office members and society chairs. The session focused on giving information about the usage of IEEE vTools effectively, how to update them, and how to track analytics. Apart from that, various kinds of events that can be held under IEEE societies were discussed. The workshop was created with the purpose of improving the operating effectiveness of IEEE BNMIT and equipping the members with appropriate skills to deal with their respective roles efficiently.

OUTCOMES OF THE EVENT:

- Enhanced knowledge of IEEE vTools usage among office bearers and society chairs.
- Improved skills in updating and managing event records on IEEE vTools.
- Better understanding of roles and responsibilities within the student branch and societies.
- Empowered members with practical tools to enhance professional and organizational performance.
- Encouragement of proactive engagement in future IEEE initiatives.

EVENT POSTER:



B. N. M. Institute of Technology
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27th Cross, 12th Main, Banashankari 2nd Stage, Bengaluru 560 075.

Department of Electronics & Communication Engineering



IEEE BNMIT Student Branch

Organizes a Workshop on

Vtools Reporting

Date: 28/03/2025

Time: 3.30pm to 4.30pm

Venue: N-401, New Building Seminar Hall

Convenors

Dr. Jyoti R Munavalli Branch Counselor, IEEE BNMIT	Anagha Ex-Chair, IEEE, BNMIT	Adithya Seshan Student Chair, IEEE, BNMIT
Sri. Narayan Rao R. Maanay Chairman GB BNMIT	Prof. T. J. Rama Murthy Director BNMIT	Dr. S. Y. Kulkarni Additional Director & Principal BNMIT
Prof. Eishwar N. Maanay Dean BNMIT		Dr. Krishnamurthy G. N. Deputy Director BNMIT



B.N.M. Institute of Technology

An Autonomous Institution under VTU

Department of Electrical & Electronics Engineering

Report on event conducted on International Day of Mathematics(pi-day) by

BNMIT IEEE VTS & IEEE PES Student Branch Chapters

Event Date: **14th March 2025**

Time of the Event: **2.00 PM to 4.30 PM**

Participants:123

Venue: **N004, BNMIT**

Event name: Mathemagikz

Team size: 2-3

Entry fee: 100

Total number of teams: 41

Budget allotted: 4k

Prize money: 2.5 k for 1st place, 1.5 k for 2nd place

Number of rounds: 2

EVENT DESCRIPTION:

The competition consisted of two rounds, which tested participants with a mix of math questions and number puzzles that tested logic, pattern recognition, and problem-solving skills. There was a time limit of 30 minutes per round.

In the first round, each team was given 30 mathematics question to solve. They were required to solve the basic maths questions and mark the answers in the OMR sheet. Based on their performance, teams were shortlisted for the next round.

The second round saw 15 selected teams tackling a sudoku where missing numbers were represented by letters, which had to be determined by solving mathematical questions. These questions covered arithmetic, algebra, trigonometry, and other basic mathematics concepts. The first team two teams to successfully completely solve the sudoku were declared as the winners.

WINNER DETAILS

Place	Winners' Names	Sem & Branch
1 st Place	Manya N, 1BG24CS096	II Sem CSE-B
	Nagastuti K N, 1BG24CS101	II Sem CSE-B
	M R Niharika, 1BG24CS091	II Sem CSE-B

2 nd Place	Samarth M, 1BG23EC092	IV Sem, ECE
	Vineet Reddy, 1BG23EC124	IV Sem, ECE
	Shashank Rao Pejaver, 1BG23EC095	IV Sem, ECE

EVENT POSTER



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BNMIT IEEE PES Student Chapter

BNMIT IEEE VTS Student Chapter

In Association with

Department of Electrical and Electronics Engineering





DARE TO TEST YOUR IQ?



SCAN THE CODE TO REGISTER

ON THE OCCASION OF INTERNATIONAL DAY OF MATHEMATICS 2025

MATHEMAGIKZ π

JOIN THE BRAIN GRID COMPETITION!

THINK YOU'VE GOT WHAT IT TAKES? GATHER A TEAM OF 2-3 PLAYERS AND PUT YOUR IQ AND MATHEMATICAL SKILLS TO THE TEST! COMPETE IN CHALLENGING ROUNDS FOR A CHANCE TO WIN A SUPRIZING PRIZE!

ARE YOU READY TO PROVE YOUR BRILLIANCE?

IEEE MEMBERS-75RS

NON IEEE MEMBERS-100RS



MARCH 14 2025



2:00 PM ONWARDS



N004-NEW BUILDING

DR. MADHU S

IEEE VTS & PES FACULTY ADVISOR,
DEPT. OF EEE,BNMIT

FOR MORE DETAILS CONTACT:

Deekshitha K	Revanth B
BNMIT IEEE PES	BNMIT IEEE VTS
+91 90198 76798	+91 82777 14793

PHOTO GALLERY



OUTCOMES OF THE EVENT:

- Participants enhanced their mathematical problem-solving, logical reasoning, and pattern recognition skills.
- The event encouraged analytical thinking and quick decision-making under time constraints.
- Engaging activities provided a hands-on approach to applying mathematical concepts in a fun and interactive manner.
- The competition fostered teamwork, collaboration, and a deeper appreciation for mathematics beyond textbook learning.

B.N.M. Institute of Technology

An Autonomous Institution under VTU

Department of Electrical & Electronics Engineering

**Report of Technical Talk organized by BNMIT IEEE Power and Energy
Society
(PES) student chapter**

Event Date: 23rd November 2024

Time of the Event: 11.30 AM to 1.00 PM

Participants: 3rd sem & 5th sem EEE Students.

Venue: Auditorium Block Seminar Hall (A215), BNMIT

Number of Participants: 57- 3rd Sem and 45 – 5th Sem

Resource Persons: Dr. Balaraman K, Executive Director, Idam Infrastructure

About the resource Person – Dr. Balaraman K

Dr. Balaraman Kannan is a distinguished expert in the field of energy transition and renewable energy integration, having completed his tenure as the Director General of the National Institute of Wind Energy (NIWE) under the Ministry of New and Renewable Energy (MNRE), Government of India. With more than three decades of experience, his work spans across energy systems, power system engineering, and renewable energy, from planning to real-time operations. Dr. Kannan is highly specialized in clean energy transition, renewable energy integration, power system planning, and solving complex problems with a well-rounded blend of tools, technologies, and deep domain expertise. His vast international experience extends across countries such as England, Saudi Arabia, Qatar, Kuwait, UAE, Nigeria, Sri Lanka, Indonesia, Fiji, Angola, Bhutan, Bangladesh, Mongolia, Maldives, Denmark, Spain, USA, Cuba, and many others. His career has also seen him work in various sectors, including public sector undertakings such as BEML, state utilities like KEB/KPTCL, and private entities such as PRDC and Idam. His expertise in handling large systems, particularly in grid operations, is well-recognized internationally.



B. N. M. Institute of Technology

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Department of Electrical & Electronics Engineering

In Association with

IEEE Bangalore Section



IEEE Power & Energy Society, Bangalore Section

&

IEEE Bangalore Section

Technical Talk organized by

BNMIT IEEE Power & Energy Society Student Branch Chapter

Date: 23rd November 2024.

Time: 11:15 AM

Venue: Auditorium Block, Seminar Hall-A215

Resource Person

Clean Energy Transition and Autonomous Grid



Dr. Balaraman K

Executive Director, Idam Infrastructure
Ex. Director General NIWE, Ministry of
New & Renewable Energy

Organizers



Dr. Venkatesha K
Professor & HoD
Dept. of EEE



BNMIT IEEE PES Chapter Advisor

Dr. Madhu S
Associate Professor
Dept. of EEE



Coordinator

Dr. Priyashree S
Associate Professor
Dept. of EEE



BNMIT IEEE PES Chapter Chair

Mr. Satwik O P
Student, 7th Sem
Dept. of EEE

Sri. Narayan Rao R. Maanay
Chairman GB
BNMIT

Prof. T. J. Rama Murthy
Director
BNMIT

Dr. S. Y. Kulkarni
Additional Director & Principal
BNMIT

Prof. Eshwar N. Maanay
Dean
BNMIT

Dr. Krishnamurthy G. N.
Deputy Director
BNMIT



**Poster of Technical Talk organized BNMIT IEEE VTSoC student Chapter Topic:
Clean Energy Transition and Autonomous Grid – A Brief Summary**

The global energy sector is undergoing a significant transformation, driven by the urgent need to reduce carbon emissions and enhance sustainability. In his technical talk, Dr. Balaraman highlighted the key aspects of the clean energy transition and the development of autonomous grids to ensure a reliable and efficient power supply in the future.

Clean Energy Transition:

The shift from fossil fuel-based power generation to renewable energy sources such as solar, wind, and hydro is at the core of the clean energy transition. This transition is necessitated by climate change concerns, policy mandates, and advancements in energy storage and smart grid technologies. Dr.

Balaraman emphasized the following challenges and opportunities:

- **Integration of Renewable Energy:** Managing variability and intermittency in renewable sources.
- **Energy Storage Solutions:** Role of battery energy storage systems in stabilizing the grid.
- **Grid Decentralization:** Rise of distributed energy resources (DERs) such as rooftop solar and microgrids.
- **Policy and Regulatory Frameworks:** Importance of supportive policies for accelerating clean energy adoption.

Autonomous Grid:

The concept of an autonomous grid revolves around self-regulating and self-healing power networks that utilize advanced digital technologies such as artificial intelligence (AI), machine learning (ML), and Internet of Things (IoT). The key aspects discussed include:

- **Smart Grid Technologies:** AI-driven demand response, predictive maintenance, and grid automation.
- **Resilience and Reliability:** Enhancing grid stability through real-time monitoring and adaptive control systems.
- **Cybersecurity in Autonomous Grids:** Ensuring data security and protection against cyber threats.
- **Electric Vehicle (EV) Integration:** Managing EV charging infrastructure and vehicle-to-grid (V2G) interactions.

Conclusion:

Dr. Balaraman underscores that achieving a clean energy transition and developing autonomous grids require a multi-disciplinary approach involving technological innovation, policy

support, and stakeholder collaboration. The convergence of renewable energy, digitalization, and automation will play a pivotal role in shaping the future of sustainable and resilient power systems.

Photo Gallery of the Event



Technical talk by Dr. Balaraman K

Outcomes

The technical talk provided valuable insights into the future of energy systems, highlighting:

- **Enhanced Understanding:** Participants gained a deeper knowledge of the challenges and advancements in clean energy and autonomous grid technologies.
- **Industry Implications:** Awareness of policy and regulatory needs to drive adoption and integration.
- **Collaborative Approach:** Emphasis on cross-sector collaboration among industry leaders, policymakers, and academia to accelerate the clean energy transition.

Feedback

Feedback from participants was overwhelmingly positive. Students found the talks both engaging and relevant, particularly enjoying the detailed insights into how software vehicle works and sustainability is transforming modern engineering fields.

B.N.M. Institute of Technology

An Autonomous Institution under VTU

Department of Electrical & Electronics Engineering

Report of Inaugural Function of IEEE Student Chapter of Power and Energy Society (PES)

Event Date: 23rd November 2024

Time of the Event: 10.00 AM to 11.00 AM

Participants: 3rd sem & 5th Sem EEE Students.

Venue: Auditorium Block Seminar Hall (A215), BNMIT

Number of Participants: 57 (3rd EEE) + 45 (5th EEE)

Dignitaries:

Chief Guest: Dr. Balaraman K, Executive Director, Idam Infrastructure, Ex
Director General, NIWE, MNRE

Guest of Honour: Dr. Chandrasekhar Atla, Chief Guest Chair-IEEE
PES Chapter, Deputy GM, M/s PRDC Pvt. Ltd, Bengaluru Prof. T J Ramamurthy,
Director, BNMIT

Dr. S Y Kulkarni, Addditional Director & Principal, BNMIT

Prof. Eishwar N Maanay, Dean, BNMIT

Dr. Krishnamurthy G N, Deputy Director, BNMIT

The Department of Electrical and Electronics Engineering, BNMIT, successfully inaugurated the **IEEE Power & Energy Society (PES) Student Branch Chapter** on 23rd November 2024 in the presence of esteemed dignitaries, faculty members, and students. The event was attended by students of the **3rd and 5th semester** of the EEE department, along with faculty members and IEEE student members. The inauguration commenced with a welcome address, followed by the formal unveiling of the IEEE PES Student Branch Chapter at BNMIT.

About IEEE PES Chapter

The IEEE Power & Energy Society (PES) chapter in an engineering college serves as a student and faculty-led group focused on advancing knowledge and professional development in the fields related to Power and energy systems. These can include areas like power generation,

transmission, distribution and utilization and related fields. **It also covers energy systems, sustainability, and emerging technologies in the power sector.**

Establishing a PES chapter can significantly enhance academic and professional opportunities for both students and faculty. The benefits of establishing a PES chapter are access to resources, professional networking, student development, networking opportunities, conduction of various activities like conferences, symposia, workshops, seminars, technical talks, competitions. Hackathons, etc.

Objective

The primary objective of the conducting the inauguration of the IEEE PES Student chapter are to formally start with the activities under IEEE PES chapter, to raise awareness of IEEE PES Chapter among the students, to promote professional development, to encourage student participation in Global IEEE PES activities, to foster innovation, research culture. The chair of IEEE PES chapter, Bangalore Section and the Staff Advisor ensures the chapter's sustainability and growth while aligning with the goals of IEEE.

List of students under IEEE PES Student Branch Chapter for 2024

Student Branch Chapter Advisor:

Dr. Madhu S

Sl. No.	Name	Membership Number	Sem	Mail Id
1	Sathvik G P	99025502	VI - EEE	sathvikgp003@gmail.com
2	Shivakumar Y	100177921	VI - EEE	shivakumary2004@gmail.com
3	Keerthana G Iyer	100374871	VI - EEE	keerthanagiyer@gmail.com
4	Yashwanth V	100383420	VI - EEE	yashu1915@gmail.com
5	Gaurav Anand B M	100001210	VI - EEE	gauravbm12345@gmail.com
6	Anjan S	98532188	VI - EEE	anjankumar1573@ieee.org
7	Anupama D J	100381567	VI - EEE	anupamadj37@gmail.com
8	Bharathkumar K	100405125	VI - EEE	bharathkumark2003@gmail.com
9	V N Samiksha	100381619	VI - EEE	vnsamiksha636@gmail.com
10	Likith R V	99706859	VI Sem	likithrvivek06@gmail.com
11	Revanth B V	100396077	IV - EEE	revanthbv137@gmail.com
12	Deekshitha K	100396201	IV - EEE	deekshithakmurthy@gmail.com
13	Shrestha Sinha	100396305	IV - EEE	sinhashrestha2222@gmail.com
14	Suraj Gowda B H	100396336	IV - EEE	22eee004@bnmit.in
15	Vaishnavi U Kotarki	100396461	IV - EEE	vaishnavikotarki1@gmail.com

About the Chief Guest of the Event: Dr. Balaraman K, Chief Guest

Dr. Balaraman Kannan is a distinguished expert in the field of energy transition and renewable energy integration, having completed his tenure as the Director General of the National

Institute of Wind Energy (NIWE) under the Ministry of New and Renewable Energy (MNRE), Government of India. With more than three decades of experience, his work spans across energy systems, power system engineering, and renewable energy, from planning to real-time operations. Dr. Kannan is highly specialized in clean energy transition, renewable energy integration, power system planning, and solving complex problems with a well-rounded blend of tools, technologies, and deep domain expertise. His vast international experience extends across countries such as England, Saudi Arabia, Qatar, Kuwait, UAE, Nigeria, Sri Lanka, Indonesia, Fiji, Angola, Bhutan, Bangladesh, Mongolia, Maldives, Denmark, Spain, USA, Cuba, and many others. His career has also seen him work in various sectors, including public sector undertakings such as BEML, state utilities like KEB/KPTCL, and private entities such as PRDC and Idam. His expertise in handling large systems, particularly in grid operations, is well-recognized internationally.

- The **Chief Guest** delivered an insightful technical talk on "**Clean Energy Transition and Autonomous Grid.**" The talk focused on the growing importance of renewable energy integration, advancements in autonomous grid systems, and the role of smart technologies in ensuring sustainable power distribution.

About the Guest of Honour the Event: Dr. Chandrasekhar Atla

Dr. Chandrasekhar Reddy Atla serves as the Deputy General Manager at Power Research & Development Consultants Private Limited (PRDC), bringing over 20 years of experience in the power sector. His expertise encompasses a range of areas, including Battery Energy Storage Systems and their grid services, Impact of Electric Vehicles on the grid, Net-zero assessments, Energy Action Plans, Power system operation and planning, Large-scale renewable integration Energy Management Systems, Production-cost models, Wind, solar, and load forecasting EMTP and insulation coordination studies. Throughout his career, Dr. Atla has contributed to various publications and research initiatives. Notably, he co-authored a study titled "Impact Assessment of Electric Vehicle Charging Infrastructure in Electricity Distribution Systems," which addresses key technical challenges associated with integrating EV charging infrastructure into electricity distribution networks. Additionally, he has delivered presentations on topics such as "Load Forecasting: Methods & Techniques" and "Application of Forecasting Tools," highlighting his involvement in advancing forecasting methodologies in the power sector.

Dr. Atla's extensive experience and research contributions have established him as a prominent figure in the field of power systems engineering.

- The **Chair of IEEE PES Society** elaborated on the objectives and activities of the **IEEE PES Chapter**, emphasizing various opportunities and advantages for students, including technical workshops, industry collaborations, career path and Internship, PES Mentoring program, research prospects, and professional networking. The chair highlighted that the student membership enhances the student resume, and they can be updated with the current trends and latest technology. The procedures for applying for the financial support, event proposal, industry-academia conclave, young researchers meet were explained.



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Department of Electrical & Electronics Engineering

IEEE Bangalore Section In Association with **IEEE PES**

IEEE Power & Energy Society, Bangalore Section
 &
IEEE Bangalore Section

Cordially invites you to the Inauguration of
BNMIT IEEE PES Student Branch Chapter

Chief Guest
Dr. Balaraman K
 Executive Director, Idam Infrastructure
 Ex. Director General, NIWE, Ministry of New and Renewable Energy

Guest of Honor
Dr. Chandrasekhar Atla
 Chair-IEEE PES Bangalore Chapter,
 Deputy General Manager
 M/s. Power Research & Development Consultants Pvt. Ltd., Bengaluru.

Presided by
Sri. Narayan Rao R. Maanay
 Chairman, Governing Body, BNMIT

Date : Saturday, 23rd November 2024 at 10.00 a.m.
Venue : Auditorium Block, Seminar Hall (A215), BNMIT

Prof. T. J. Rama Murthy Director, BNMIT	Dr. S. Y. Kulkarni Additional Director & Principal, BNMIT
Prof. Eishwar N. Maanay Dean, BNMIT	Dr. Krishnamurthy G.N. Deputy Director, BNMIT

Invitation of the Inaugural Event of IEEE PES Chapter at BNMIT



B. N. M. Institute of Technology

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Department of Electrical & Electronics Engineering

IEEE

Bangalore Section

In Association with

IEEE Power & Energy Society, Bangalore Section

&

IEEE Bangalore Section

Inauguration of

BNMIT IEEE Power & Energy Society Student Branch Chapter



Date: 23rd November 2024.

Time: 10:00 AM

Venue: Auditorium Block, Seminar Hall-A215

Chief Guests



Dr. Balaraman K
Executive Director, Idam Infrastructure
Ex. Director General NIWE, Ministry of
New & Renewable Energy



Dr. Chandrasekhar Atla
Chair-IEEE PES Bangalore Chapter
Deputy General Manager,
M/s. PRDC Pvt. Ltd, Bengaluru

Organizers



Dr. Venkatesha K
Professor & HoD
Dept of EEE



Dr. Madhu S
Associate Professor
Dept of EEE



Dr. Priyashree S
Associate Professor
Dept of EEE



Mr. Sathvik G P
Student, 7th Sem
Dept of EEE

Sri. Narayan Rao R. Maanay
Chairman GB
BNMIT

Prof. T. J. Rama Murthy
Director
BNMIT

Dr. S. Y. Kulkarni
Additional Director & Principal
BNMIT

Prof. Bishwar N. Maanay
Dean
BNMIT

Dr. Krishnamurthy G. N.
Deputy Director
BNMIT









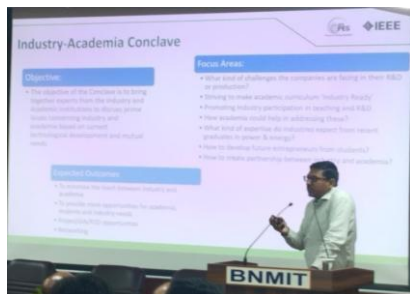
Poster of Inauguration of BNMIT IEEE Power and Energy Society Branch Chapter Photo Gallery of the Event



Formal Inauguration of the Chapter by the Dignitaries



BNMIT IEEE PES Members with the Guests





Address by the Chief Guest

Outcomes

The inauguration of the IEEE PES Student chapter formally led to the start of various activities under IEEE PES chapter, raised awareness of IEEE PES Chapter among the students, promoted professional development, encouraged student participation in Global IEEE PES activities, The chair of IEEE PES chapter, Bangalore Section and the Staff Advisor assured for the chapter's sustainability and growth while aligning with the goals of IEEE and its PES Society.

Feedback

Feedback from participants was overwhelmingly positive. Students were keen on various activities that can be planned under the student chapter. The non-IEEE members got the interest to become the members of the IEEE.

Dr. Madhu S
Associate Professor & BNMIT IEEE VTS
Faculty Advisor, Dept. of EEE

Dr. K Venkatesha
Professor & Head
Dept. of EEE