BHAGWAN PARSHURAM INSTITUTE OF TECHNOLOGY

Electrical and Electronics Engineering Department

Newsletter July – December 2023
EEE EXPRESS

"When one door closes, another opens; but we often look so long and so regretfully upon the closed door that we do not see the one which has opened for us."

~ Alexander Graham Bell

Department's Vision

To emerge as a center of excellence producing globally competent and morally sound professionals in the field of Electrical & Electronics Engineering who will practice commitment to their profession and dedicate themselves to the service of mankind.

Department's Mission

- To develop state-of-art laboratories providing quality learning blended with latest practical skills.
- To provide strong knowledge base to students in the area of Electrical & Electronics Engineering and to prepare them in accordance with industry, research organizations, and interaction objectives.
- To motivate teachers and students to do impactful research on societal needs.

PILLARS OF BPIT

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Padma Shri Surender Sharma *(Vice-President)*
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Prof. Y.D. Gaur *(Executive Director)*

Editors:

Mr. Puneet Dixit
Mr. Prashant Nigam

Student Editor:

Drishti Luthra

DEPARTMENT & ITS RESOURCES

DEPARTMENT

- Electricity is very essential for every part of the society. The growth of any country depends on electrical & electronic systems.
- The Department of Electrical & Electronics Engineering started since the inception of BPIT and offers a B. Tech (Electrical & Electronics Engg.) program with an annual intake of 60 students.
- To ensure the quality education department has a team of well-qualified, experienced, and dedicated faculty & staff members.
- The department is accredited by the National Board of Accreditation (NBA).

RESOURCES

All of our laboratories are well-equipped to meet the requirements of the university curriculum. These are listed below:

1. Electrical Science Lab
2. Electrical Machine-I & II Lab
3. Power System-I & II Lab
4. Computational Methods & PSLP Lab
5. Control Systems Lab
6. Advanced Control System Lab
7. Neuro-Fuzzy Systems Lab
8. Electrical Machine Design Lab
9. Electrical Engineering Workshop Lab
10. Electrical and Electronics Measuring Instruments Lab
11. Electric Drives Lab

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INFO-BIT

Info-bit is a glance at webinars, success messages, and workshopsdepicting students' achievements.

HIGHLIGHTS OF THE DEPARTMENT

For the academic and professional development of students and faculty, the Department of Electrical and Electronics Engineering organizes an array of guest lectures and webinars. These are as follows:

- The EEE Department conducted an expert lecture on GATE preparation, featuring Made Easy Expert, Mr. Jitendra Tiwari, on October 5, 2023. The session provided invaluable guidance and strategies for students aspiring to excel in GATE, empowering them with the knowledge and confidence needed to succeed in their academic pursuits.

- On October 6th, 2023, the EEE students actively engaged in the IPU Health Mela, a vibrant event organized by IP University at Talkatora Stadium, Delhi. Their enthusiastic participation showcased not only their academic prowess but also their commitment to holistic well-being. Through interactive activities and engagements at the mela, students fostered a sense of community while promoting health awareness among peers and the wider public.

- On October 13th, 2023, the EEE students embarked on a memorable educational excursion to the TPDDL Substation in Rohini, Delhi. Accompanied by four experienced faculties, the 24 students delved into practical insights and real-world applications of their academic curriculum. The visit offered them a firsthand glimpse into the intricate workings of electrical substations, enriching their understanding of power distribution systems and enhancing their professional acumen in the field of electrical engineering.

- On October 19th, 2023, Dr. B. S. Pali delivered an expert lecture titled "How to Write a Research Paper." The event was organized by the Research Committee at BPIT, providing valuable insights and guidance to aspiring researchers. Students learned practical tips and strategies for effective research paper writing.

- On October 20, 2023, Mr. Prashant Nigam, a respected faculty member, along with Lab Technician Mr. Navin, led EEE students on a visit to IMC 2023 at Pragati Maidan, providing a valuable opportunity to explore industry innovations.

- The EEE Department at BPIT organized a one-day workshop on Industrial Control on October 17, 2023. Coordinated by the respected faculty member, Mr. Puneet Dixit, the event drew the participation of 50 students, The workshop delved deep into the intricacies of industrial automation and control systems, providing valuable insights into cutting-edge technologies and industry best practices. Through interactive sessions and hands-on demonstrations, participants gained practical skills and knowledge crucial for their future endeavors in the dynamic field of electrical engineering.

- On December 5th, 2023, a Spoken Tutorial exam was effectively administered for 3rd-year EEE students on the LaTeX course. The event was coordinated by Mr. Prashant Nigam and invigilated by Ms. Shalini Mishra, ensuring a smooth examination process. The active participation of both students and faculty underscores the commitment to enhancing technical skills within the department. Such initiatives contribute significantly to the holistic development of students, preparing them for real-world challenges in their field of study.

STUDENTS CORNER

The Growing Role of AI and ML in Electrical Engineering

In recent years, the realms of Artificial Intelligence (AI) and Machine Learning (ML) have experienced exponential growth, revolutionizing various industries worldwide. Within the realm of electrical engineering, AI and ML are emerging as pivotal technologies, reshaping the landscape of innovation and advancement. From optimizing power grids to enhancing the efficiency of renewable energy systems, AI and ML algorithms are increasingly playing indispensable roles in solving complex engineering challenges. Engineers are harnessing the power of AI-driven predictive maintenance techniques to detect faults in electrical infrastructure before they escalate, thereby ensuring uninterrupted power supply and minimizing downtime.

Furthermore, the integration of AI and ML techniques in the design and development of smart devices and IoT (Internet of Things) systems is transforming traditional electrical engineering practices. These technologies enable the creation of intelligent systems capable of autonomously adapting to changing environments, optimizing energy consumption, and enhancing overall performance. As the demand for sustainable and efficient energy solutions continues to rise, the synergy between AI, ML, and electrical engineering holds the promise of driving unprecedented innovation, ushering in a new era of smart and resilient infrastructure tailored to meet the evolving needs of society.

STUDENT ACHIEVEMENTS

- On December 12, 2023, Mr. Sarvagya, a fourth-year student, achieved first place in the solo dance competition held at Maulana Azad Medical College, Delhi.

- On December 21, 2023, Mr. Sarvagya, a fourth-year student, secured the first position in the dual dance competition event at Mood Indigo, held at IIT Mumbai, an international event.

- Sarvagya, a fourth-year student, and Harshit Tiwari, a third-year student, served on the core committee of MALHAAR-23, contributing to its successful completion.

- Several EEE students actively coordinated during the Malhaar BPIT Fest, contributing to the success of the event.

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