

# BHAGWAN PARSHURAM INSTITUTE OF TECHNOLOGY

## Electrical and Electronics Engineering Department

Newsletter - Dec 2022  
EEE EXPRESS

*"The most beautiful thing we can experience is the mysterious. It is the source of all true art and all science."*  
~ Albert Einstein

### Department's Vision

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

### Department's Mission

- To develop state-of-the-art laboratories providing relevant practical inputs to students.
- To provide strong knowledge base to students in the area of Electrical & Electronics and to train them as per requirement of industries and research organizations.
- To facilitate institute industry interaction to the benefit of stake holders and to motivate teachers for continuous improvement of their academic standards.



spoken-tutorial

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## PILLARS OF BPIT

### Patrons

**Shri Vinod Vats (Chairman)**  
**Padma Shri Surender Sharma**  
(Vice-President)

**Shri Ram Babu Sharma**  
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**Prof. Payal Pahwa**  
(Principal, BPIT)

**Prof. A.K. Tandon**  
(Founder Director)

**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. Growth of any country depends on electrical & electronics system.
- The department of Electrical & Electronics engineering started since the inception of BPIT and offers B. Tech Electrical & Electronics Engg.) program with 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 National Board of accreditation (NBA).

### RESOURCES

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

1. Electrical Machines I & II Lab
2. Electrical Technology Lab
3. Power Electronics Lab
4. Scientific Computing Lab, Neuro Fuzzy Lab
5. Circuit and System Lab, Power system I & II Lab
6. Control System Lab, Sensors & Transducers Lab
7. Electric Drives Lab, EEMI Lab

Mr. A.K. Tandon, founder director of the college, shares his expertise, experience and knowledge of all his years in an hour session once every week with the students in order to further enhance their knowledge about our department.



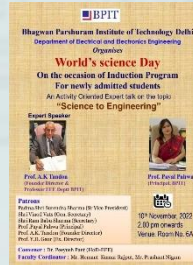
Info-bit is a glance of webinars, success messages and workshops depicting students' all long-achievements.

## 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:

- Electrical and Electronics Engineering department with Electronics and Communications department organized an Expert talk on Sept 20, 2022. Topic was 'Emerging Applications in Artificial Intelligence' delivered by expert Prof. PS Grover, who is the Former Head, Computer Center, Delhi University.

- A new electrical society named "Electrike" was recently opened at the college, and the inauguration ceremony was attended by a large number of enthusiastic students and teachers. The society has been established with the aim of providing a platform for students who have a keen interest in electronics and electrical engineering. The society offers various opportunities for members to engage in workshops, seminars, and hands-on projects. The goal is to foster a culture of innovation and collaboration among like-minded students while providing a platform for networking with professionals in the field.



## ELECTRIC VEHICLES:

Electric Vehicles are means of transport that consume electric energy as fuel instead of traditional fuels such as petrol, diesel, and CNG. These vehicles may be powered through a collector system by electricity from off-vehicle sources or maybe inbuilt with a battery, solar panels, fuel cells, or an electric generator to convert fuel to electricity. Electric bikes, electric cars, electric rickshaws, etc are some examples of electric vehicles. Most of the trains including metros are already running worldwide through electricity.

With advancements in battery technology, EVs are becoming more affordable and practical for everyday use, making them an increasingly popular choice for eco-conscious consumers. In addition to the environmental benefits, EVs also offer a smooth and quiet driving experience, and require less maintenance than traditional cars. As the demand for EVs continues to grow, engineers and researchers are working tirelessly to improve the efficiency and performance of these vehicles.

Currently some students from the Electrike society of Bhagwan Parshuram Institute of Technology are working on an innovative electric vehicle that will operate on a regenerative power system. The students are also developing their own controller to monitor and manage the power system, allowing for greater control and customization of the vehicle's performance. This project is a testament to the passion and dedication of the students in the Electrike society, and highlights the potential for young engineers to make meaningful contributions to the field of electrical and electronics engineering.

## BENEFITS:

- Less maintenance required
- Cost-effective in the long run
- Quieter and smoother ride
- Zero emissions

## STUDENT ACHIEVEMENTS

- EEE department alumni Hitesh has been awarded Sena Medal gallantry award by President on 26 Jan 2023.
- Vineet Thakur a member of the IEEE, has won the prestigious Dr. J.K. Pal Memorial Award.
- Khushi Priya another member of the IEEE, has been recognized with the Outstanding Student Volunteer Award.

- Ecotopia: Drishti's Project with NSS unit of Bhagwan Parshuram Institute of Technology launched a cleanliness drive on Thursday, 20<sup>th</sup> October, 2022 at Ranikhet, Pitam Pura, New Delhi. The drive was a great success. Volunteers learned about the importance of cleanliness and need to keep the environment clean. The volunteers were warned about the hazards of environmental pollution and its ill-effects on an individual's health.
- The Electrical and Electronics Engineering Department and Electronics and Communications Department at Bhagwan Parshuram Institute of Technology in Delhi in association with NITTR, Chandigarh, organized an ICT based Short Term Course of one week i.e., from November 14, 2022 to November 18, 2022. The topic was System Designing with Controllers.
- On the occasion of World Science's Day, The Department of Electrical and Electronics Engineering (EEE), successfully organized an activity oriented Expert Talk on the topic 'Science to Engineering' on 10<sup>th</sup> November 2022. Prof. A.K Tandon, Founder Director and Professor, of EEE Department of BPIT, Delhi, was the expert speaker. The session was held in offline mode in college. The webinar was beneficial and educational for all attendees.

- The EE Society of Bhagwan Parshuram Institute of Technology Electrike's member Mr. Rajput and few EEE (BPIT) students participated with DTU delegates in Industrial cum educational visit organized by eVehicle Center DTU at HB Software Solutions Manesar on date 21 Dec 2022. During the visit, the students had the chance to gain practical insights into the latest technological advancements in the field of electric vehicles and related software solutions. The visit was an excellent opportunity for the students to learn from experienced professionals.
- On March 2nd and 3rd, 2023, the Society of Bhagwan Parshuram Institute of Technology "Electrike" organized an exciting two-day trip to M/s Bharat Heavy Electricals Ltd. (BHEL) & M/s Chilla Power Project Haridwar Uttarakhand. This visit undoubtedly serves as a valuable learning experience for the students. During the visit, the students had the opportunity to interact with experienced engineers and experts who shared their knowledge and insights with the students. The students learned a great deal from this industrial visit, and it was an excellent opportunity for them to gain practical knowledge that will be valuable for their future careers in the field.

