

ELECTRICA

The official newsletter of Department of Electrical and Electronics Engineering, ADGITM, New Delhi



Our Vision

To facilitate quality education in the field of Electrical and Electronics engineering for skilled and globally competent technical experts who can focus on the challenges of modern society.

Our Mission

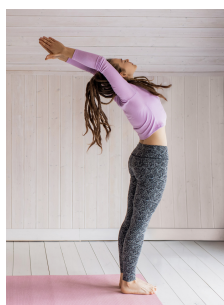
- To build up excellent teaching learning methods in electrical engineering for easy adoption towards research and industry problems
- To develop leadership quality and team spirit through sustainable global solutions for the numerous technological challenges in the society
- To execute projects with ethics and integrity as entrepreneur in changing technologies
- To emphasize the need for environmental concern and multidisciplinary knowledge

RESULTS OUT

The department congratulate all the students of final year electrical and electronics engineering batch 2016-2020. The results of 4th year 2020 Batch were announced on 29 November 2020. Among all students **Pradhi Agarwal** of Morning Shift has the highest aggregate of 92.13% followed by **Prateek Bhandari** of evening shift with 91.63%.

Book Chapter Publication

Amruta Pattnaik et al, Improving the Short-Wavelength Spectral Response of Multi-crystalline Silicon Solar Cells by ZnS Downshifting Phosphor Nanoparticles. Advances in Energy Research, Vol. 1. Springer Proceedings in Energy. Springer, Singapore.



Yoga- A way of life

Yoga session for the students of EEE First year to Final year was organized with **Oshin Satija**. Oshin Satija is a Yoga Activist and Yoga Enthusiast. She promotes Yoga as a lifestyle. Oshin Satija has achieved several laurels in the field Yoga. One of which is being among the 4 main performers and ambassadors during the very first International Day. The session was held on 16.09.2020

DECODERS **Rachit Jain** and **Siddharth Ghosh**, Team Name **Decoders**, of T5 bagged the title of **Top Performing Team** at Hack the HourGlass Hackthon organized by and at MAIT, New Delhi.

Book Chapter Publication

Amruta Pattnaik et al. (2021) Different Variants of Particle Swarm Optimization Algorithms and Its Application: A Review. Metaheuristic and Evolutionary Computation: Algorithms and Applications. Studies in Computational Intelligence, vol 916. Springer, Singapore.

Research Paper

Mr. **Ajit Kumar Sharma** presented paper "**Performance analysis of different sliding mode controller on single link inverted pendulum**" in International Conference on Renewable Power -2020 by Electrical Engineering Department, BGSB University on 13-14 July 2020

Ms. **Amruta Pattnaik** presented the following papers

- "**The Role of Power Electronics in the field of Photovoltaic System: A Study**", Amruta Pattnaik, Anuradha Tomar, International Conference on Renewable Power-2020, Electrical Engineering Department, BGSB University during July 13 & 14, 2020.
- "**Performance comparison of dual stage photovoltaic based water pumping system**", Anuradha Tomar, Ayush Mittal, Amruta Pattnaik, International Conference on Renewable Power-2020, Electrical Engineering Department, BGSB University, during July 13 & 14, 2020.

Faculty Development Program

Faculty development has been defined as that wide range of activities that institutions apply to support faculty members' roles. This included programs designed to improve the performance of faculty members in education, research and administration as well as augmenting organizational capacities and culture. Online FDPs extends the barriers of learning for faculties.

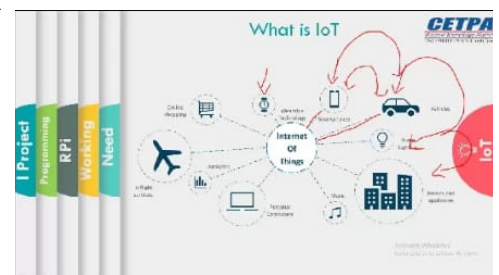
Mr. **Ajit Kumar Sharma** attended Application of AI in Power Grid System by IEEE PES Maharaja Surajmal Institute of Technology, Delhi on 31 July 2020, FDP on Python organized by International Institute of Professional Studies, Devi Ahilya University in association with Spoken Tutorial by IIT Bombay on 1-5 June 2020, National webinar on strengths and Bottlenecks of Solar PV technology by EEE department Bpit on 8 August 2020, One week FDP on Innovative Teaching Learning Practices: way to transform Teachers from July 27-31 2020, by IITM, New Delhi. Mr. **Vikas Varshney** of EEED participated in various FDPs thereby improving learning and teaching methods. Mr. **Md. Saquib Faraz** participated in AICTE Sponsored Online Short Term Training Programme on IOT and Data Analytics.



Webinar by CEPTA

A webinar was organized by CEPTA on **6th October, 2020**. The webinar was headed by **Mr. Sanjay Singh** with IOT as the core of discussion and how has IOT changed the way we look at things, whether it be Industry, Education, Manufacturing process, Power Grid Control etc. CETPA INFOTECH PVT. LTD, certified by ISO 9001:2015 is Northern India's best training institute which offers training in many evergreen

technologies. CETPA has designed its training program to fulfill the needs of engineering students by offering various types of training programs like, Students Training, 6 weeks training, Industrial training, winter training, corporate training, final year project training. Moreover it provides student training in different technologies like Software Testing, JAVA, embedded system, oracle certified, VLSI, PLC and SCADA Training and much more. Different technologies are delivered for students training with well-described modules and different time period.



Joseph Vibin Verghese of T5 bagged the **3rd prize** in Western Solo Singing



Competition organized by MSIT, New Delhi. He also bagged the 2nd prize at Renaissance MSI Singing Competition.



EEE @Technorax V6.0

Rachit Jain and **Praneet Kapoor**, team name PKCR, of T5 bagged the first prize at **IEEE Intra Project Making competition** organized in Technorax V6.0.

IEEE Day is celebrating the first time in history when engineers worldwide and IEEE members gathered to share their technical ideas in 1884. Worldwide celebrations demonstrate the ways thousands of IEEE members in local communities join together to collaborate on ideas that average technology for a better tomorrow. Now engraved in its essence, the IEEE Day's theme is: "Leveraging Technology for a Better Tomorrow". While the world benefits from what's new, IEEE focuses on what's next.