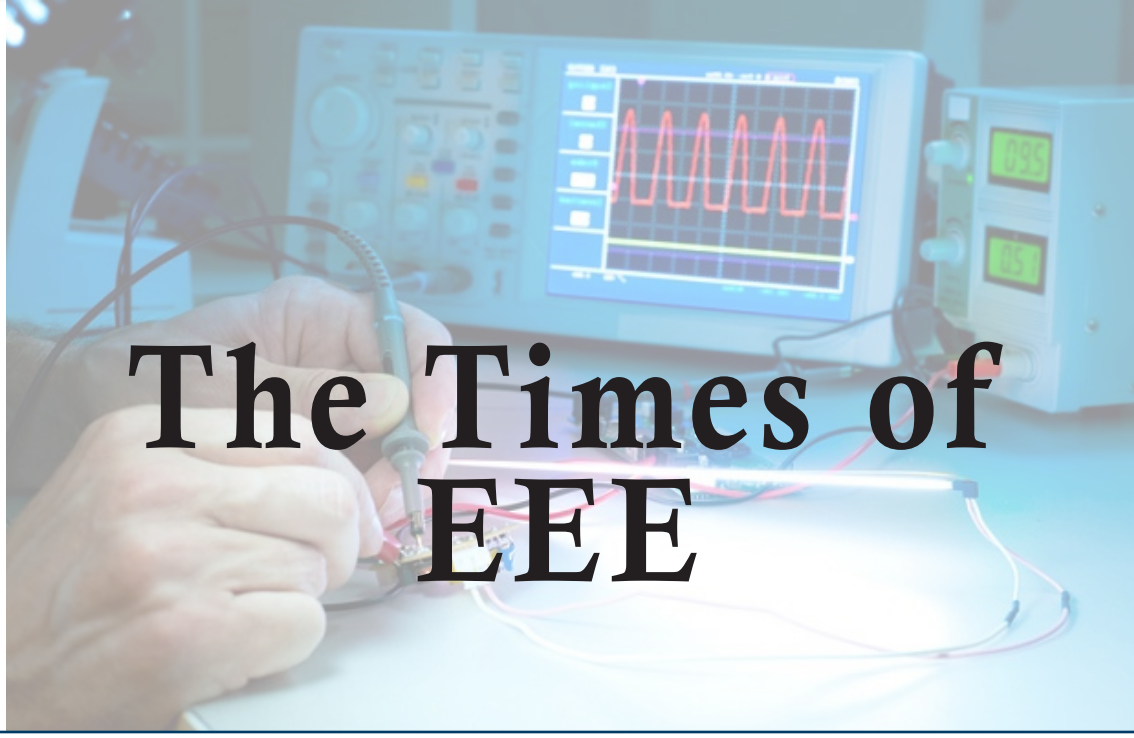
MAHARAJA AGRASEN INSTITUTE OF TECHNOLOGY

MAIT

उद्यमेन हि सिध्यन्ति कार्याणि न मनोरथैः

The official newsletter of Department of Electrical and Electronics Engineering Maharaja Agrasen Institute of Technology



The Times of EEE

VISION

To produce technically competent human resource for electrical and electronics industry with high moral and ethical values.

In this edition

Volume 1
(January 2023 to August 2023)

EEE department always enjoyed the immense pleasure to find alumni of this department, getting placed in government jobs and almost all private and multinational companies. The follow-up of the university curriculum, blending core electrical subjects like machines, control and power systems with those of electronics based communication, VLSI design and microcontrollers have helped enriching the broad knowledge based with cutting edge technology to foster self development and confidence to do good & prove one's own worth. The inherent skills of our students are being well nurtured by highly qualified faculty and hard working staff in achieving goals & objectives of the Department. We support the endeavour and wish them success to rise to the pinnacle of glory.

Editorial Team

GGSIPU RESULT

7th Semester 4th Year Result

S.No.	Roll No.	Name	Percentage
1	00114804919	Mayank Pokhriyal	93.455 %
2	05614804919	Sumit Sharma	92.455 %
3	35114804919	Mallika Mishra	90.455 %
4	00814807820	Amit	90.182 %
5	03314807820	Prince Kumar Singh	90.091 %
6	07114804919	Ashish Kumar Tyagi	89.727 %
7	03714804919	Tushar Kumar Jain	89.273 %
8	00514804919	Abhinav Choudhary	88.909 %
9	01014807820	Amrit Kumar	88.545 %
10	03114807820	Pradeep Kumar	88.455 %

5th Semester 3rd Year Result

S.No.	Roll No.	Name	Percentage
1	05214804920	Hanish Kumar Kandoi	90.417 %
2	06514804920	Kinshuk Jha	88.750 %
3	07314804920	Lokesh Melkani	88.417 %
4	00314807821	Neeraj	88.167 %
5	13514804920	Udit Dixit	87.083 %
6	14214804920	Vrinda Gupta	87.083 %
7	20314804920	Anjali Gupta	86.917 %
8	14314804920	Yash Jain	85.667 %
9	00914807821	Bhupesh Vardhan Singh	84.833 %
10	06714804920	Krishi Jain	84.583 %

3rd Semester 2nd Year Result

S.No.	Roll No.	Name	Percentage
1	03814804921	Jasjot Singh Kalra	86.909 %
2	11314804921	Sakshi Singh	85.091 %
3	35514804921	Tanuj Goel	84.000 %
4	00814807822	Satyam Kumar Mishra	83.692 %
5	10814804921	Richa Mishra	83.636 %
6	06714804921	Aakash	83.364 %
7	14514804921	Oorjit S Kumar	83.091 %
8	02214804921	Amandeep Singh	82.818 %
9	02014804921	Nikhil Chaudhary	82.727 %
10	09514804921	Akshat Kaushik	82.364 %

Factopedia

- Electricity is sometimes used as electro-convulsive therapy (ECT), where patients are given electrically induced seizures in order to treat psychiatric illnesses.
- In the 1880's, there was a "war of currents" between Nikola Tesla and Thomas Edison. Tesla helped invent AC current and Edison helped invent DC current, and both wanted their currents to be popularized. AC won the battle because it's safer and can be used over longer distances.
- The world's biggest light bulb is located in Edison, New Jersey. It's 14 feet tall, weighs eight tons, and sits on top of the Thomas Edison Memorial Tower.
- Electricity is present in our bodies – our nerve cells use it to pass signals to our muscles.

Pun stop

Q: What is the electrician's favorite dance?

A: The electric slide.

Q: What kind of plant produces the most energy?

A: A power plant

Q: Why did the monk always meditate with a light bulb?

A: It helped him reach enlightenment.

Q: Why did the light bulb fail his science test?

A: He wasn't too bright.

Techsurge and Mridang : Technomind

The EEE Dept. of MAIT organised Orientation of ElElectrotech conducted this Technical Extravaganza TechnoMind on 5th April 2023. This event is conducted by Prof. (Dr). Rajveer Mittal (H.O.D) & Ms. Poonam Juneja (Society Coordinator). A cash prize of Rs 1100 and Rs 500 was sponsored along with attractive goodies by Dr. Anil Kumar Dahiya (Faculty Coordinator TnM 23' and Mr. Jitender Lather (Treasurer TnM 23'). It was a 3 round competition comprising a quiz, a crossword, and finally an ambitious problem-solving session. Students participated with zeal and passion, and out of 35, just 8 reached the final round! There was an extensive discussion on E-waste management with our faculty Ms. Poonam Juneja and Mr. Ravi Sharma, and the participants came up with great electrical, technical, and even social remedies for the issue. Choosing the winners was a real nip-and-tuck affair because of how well everybody performed. Finally, Ashutosh and Vishwajeet of 3rd year emerged as the winners of this competition.

Industrial Visit To Nuclear Power Plants

An industrial visit to Narora nuclear power plant was organized by Electrotech on 18th April 2023 for 6th-semester students. A total of 45 students along with Ms. Poonam Juneja, Ms. Supriya Sharma, and Mr. Ashok Goyal visited the Narora nuclear power plant.

The Power Station is located at Narora, Bulandshahar District in Uttar Pradesh. The power plant is one of the nuclear-based power plants of Nuclear Power Corporation of India Ltd. Students visited units No.1 and 2 each of 220 MW and understood various technical factors which would be very helpful for their understanding of various theoretical aspects studied in their curriculum. The visit was very successful and it was a learning experience for the students.

Hardware Project Compitition Organised By IEEE MAIT And Department Of Electrical & Electronics Engineering

IEEE MAIT AND the Department of Electrical & Electronics Engineering organized a two-day Hardware Project Competition from 1-2 June 2023 for students of MAIT from all branches. The event was hosted by HOD (EEE) Prof. (Dr.) Rajveer Mittal and Dr. Monika Gupta (IEEEMAIT counselor) The event started with a ribbon cutting ceremony by Director (MAIT) Prof. (Dr.) Neelam Sharma, Dean (MAIT) Prof. (Dr.) SS Deswal, CFO (MAIT) Mr Jai Mani Tripathi. It was followed by a briefing of the event by HOD (EEE) Prof. (Dr.) Rajveer Mittal. On day 1 twelve teams showcased their hardware and a poster. The judges of round one were Mr. U K Jha, Dr. L P Singh, Dr. Neelu Nagpal, Dr. Neelam Kesarwani, Dr S K Pndey and Dr Laxya. Five teams were shortlisted on day 1 by them. On Day 2 i.e. on 2nd June shortlisted five teams came with their improvised hardware, poster, and a PowerPoint presentation. Judges for round 2 were Prof. (Dr.) Namita Gupta (HOD CSE), Prof. (Dr.) M L Sharma (HODIT), Prof. (Dr.) Sunil Mathur (HOD ECE), Prof. (Dr.) Amita Goel (HOD ITE), Dr Neeraj Garg (HOD AIML) Dr Vinay Saini (HOD AIDS), Dr Pooja Gupta (HOD CST). Positions were allotted to these teams based on their judgment. Team Helix won first prize and was given a cash prize of Rs 5000/, Team Solar won 2nd prize and won a cash prize of Rs 3000/ while team Vayu won third prize of Rs 2000/- Day 2 of the event concluded with the distribution of certificates and cash prizes by Director (MAIT) Prof. (Dr.) Neelam Sharma, Dean (MAIT), Dean (MAIT) Prof.

One Day Seminar On Role Of NPTI In Power Sector

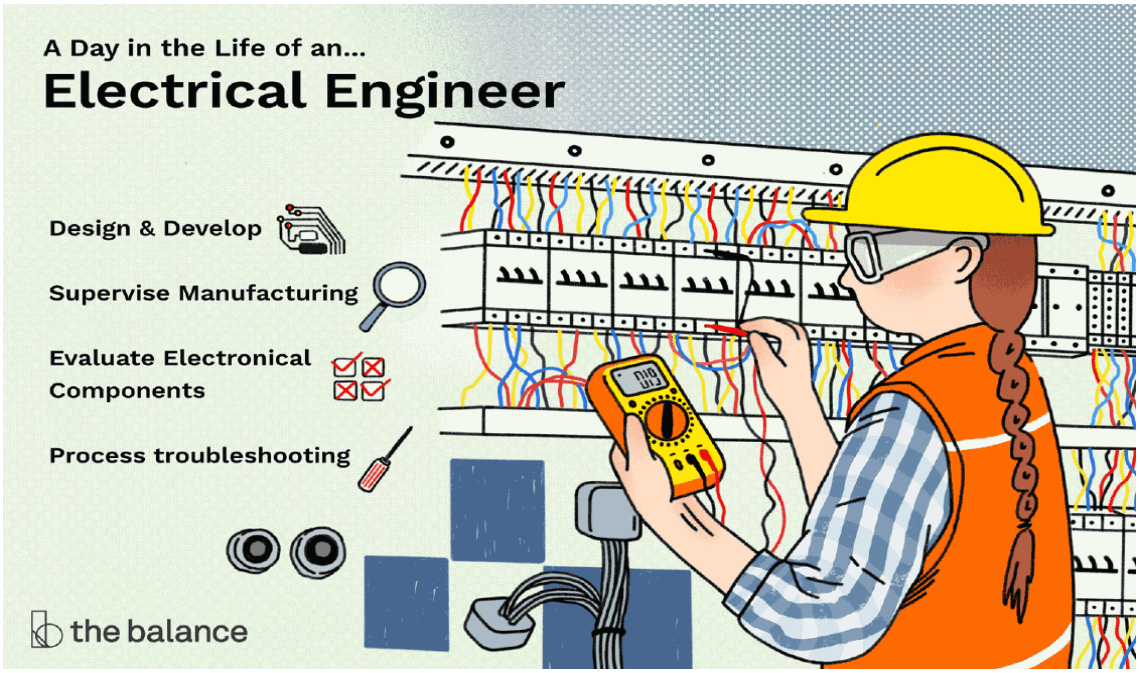
Dr. Vatsala Sharma and her team being felicitated by Prof. Neelam Sharma and Prof. Rajveer Mittal

One day seminar on "Role of NPTI in Power Sector" is organized by the Electrical and Electronics Engineering department of Maharaja Agrasen Institute of Technology, Rohini, Delhi on May 24, 2023. The program started at 2 pm with the welcome address by Prof. Neelam Sharma, Director, MAIT. Who has emphasized the importance of renewable energies, especially, solar photovoltaic systems and wind energy to meet the future challenges due to industrialization and global warming. Opening remarks and introduction of Dr. Vatsala Sharma, Dy Director, NPTI, and her team to Director, MAIT is given by Prof. Rajveer Mittal, HOD, EEE.

Hundreds of students of the EEE department and faculty members enthusiastically participated in the seminar. The students have raised a number of queries related to carrier opportunities and industrial training to the NPTI, team.

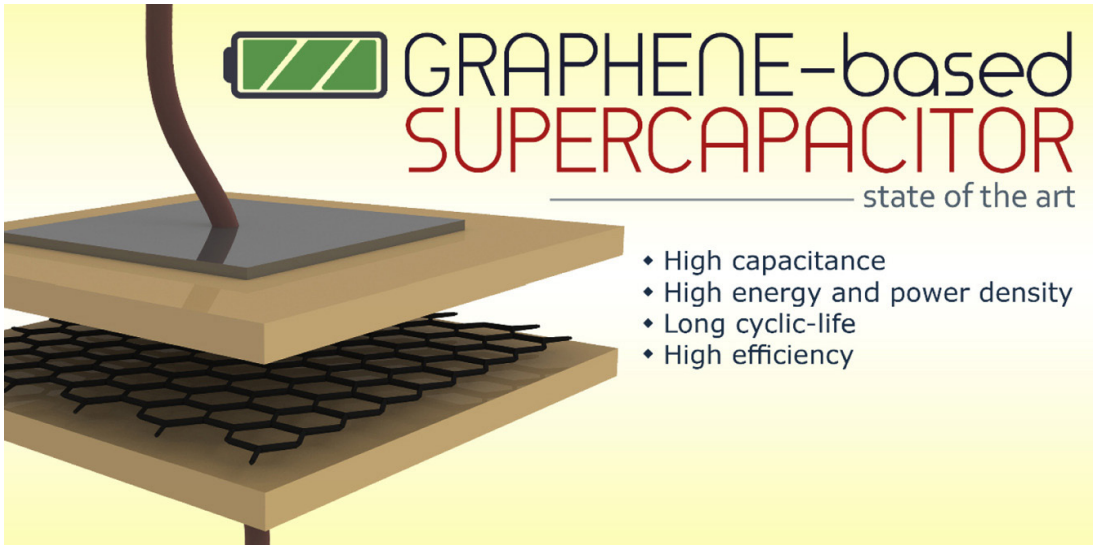
The key points of the talk delivered are as,

- Role of Electrical Engineers at NPTI.
- NPTI and the Renewable Energies
- Various Courses offered to undergraduates.
- Various short-term training programs offered to B.Tech Students
- Workshops offered to engineering teacher fraternity.



Latest Technological Advancements

Advances in graphene-based supercapacitor electrodes



Graphene-based materials are widely explored as the active electrode materials for energy storage and conversion devices, especially supercapacitors (SCs). Their high electrochemically active surface area, hierarchical porous structure, excellent compressibility, and high mechanical stability, as well as excellent conductivity, are the critical merits for providing robust and facilitative channels for charge transport. Various studies have explored many possible ways to utilize the maximum potential of graphene-based SC electrodes, and graphene research is booming, given its exceptional charge storage properties. This review focuses on the class-specific electrode materials for different types of SCs, followed by the classification and critical review of graphene-based electrodes reported in the past five years. The current challenges in the field have also been discussed with a focus on promising pathways for future research.

Smart Ceiling Fan

Smart ceiling fans operate like your regular ceiling fan, only that they know when to spin and when to keep the air still. This means that you can program a preset temperature for it to adjust to, or a schedule within which the ceiling fan should operate.

For some of the more advanced versions occupancy sensors and geolocation settings make sure it is only spinning when needed.

Unlike your regular ceiling fan where the only connection is a pull cord or wiring in your wall, smart ceiling fans operate via Wi-Fi or Bluetooth. This means you can remotely control and program them to operate within a given setting and schedule even while you are away from home from your iOS or Android device.

For people who prefer their older ceiling fans there are a few devices that let you convert your existing fans to a smart fan either by hardwiring a small device inside your fan, using a hub and your existing motorized blind IR remote control (See Bond Hub for an example), or replacing your dedicated wall switch with a Z-Wave or Zigbee version that connects and controls your fan.

Our beloved faculty of EEE department

Department of Electrical & Electronics Engineering
Mahatma Gandhi Block, Block No. 6,
Maharaja Agrasen Institute of Technology
PSP Area, Plot No. 1, Sector-22, Rohini, Delhi-110086, Ph.: 011 6564 7741