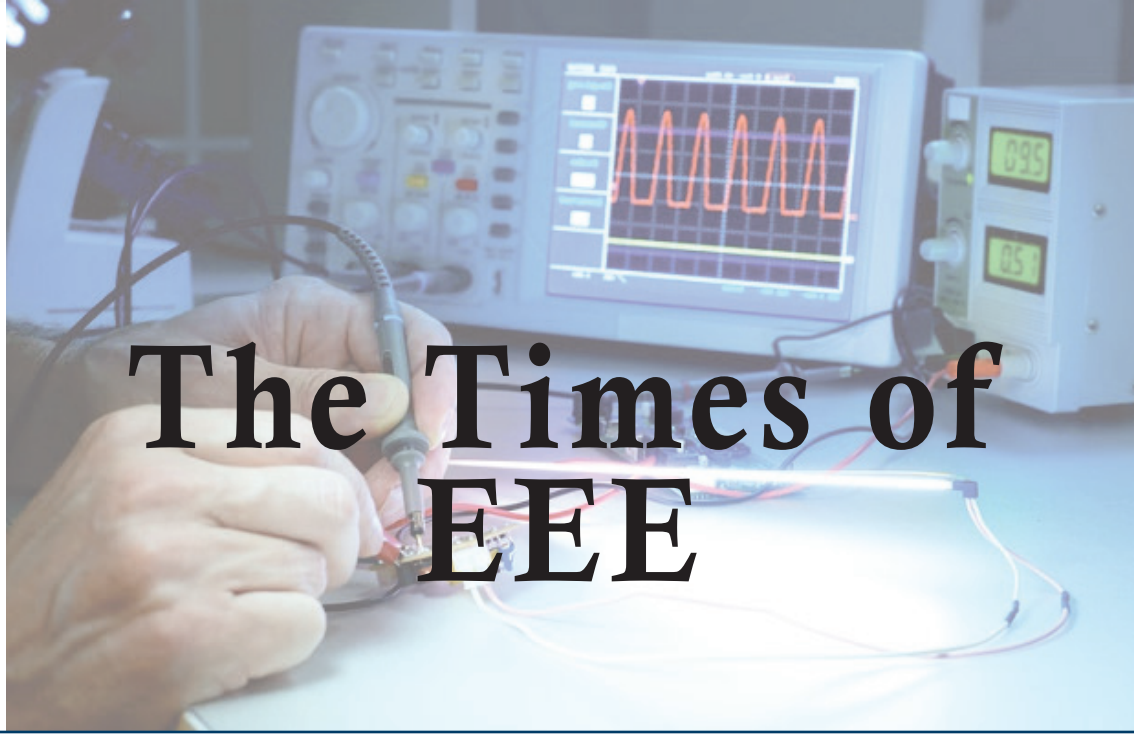
MAHARAJA AGRASEN INSTITUTE OF TECHNOLOGY

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 2
(August 2021 to December 2021)



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

# Factopedia

- Electricity travels at the speed of light, which is 186,000 miles per second.
- Before electricity was a way of life, ancient Egyptians were aware that lightning and shocks from electric fish were very powerful. They used to refer to these fish as the "Thunderers of the Nile."
- Electricity can be created using water, wind, the sun, and even animal waste.
- Iceland is the country that uses the most electricity annually. Their consumption is about 23% more than the U.S..
- Static electricity occurs when the electrons from one object jump to another object.

# Pun stop

Q: What is a Jedi electrician's favorite tool?

A: His Light Saber

Q: Why did the electrical cords break up?

A: There was no spark between them

Q: What would a barefoot man get if he stepped on an electric fence?

A: A pair of shocks

Q: What penalty in hockey uses the most amount of energy??

A: A power play

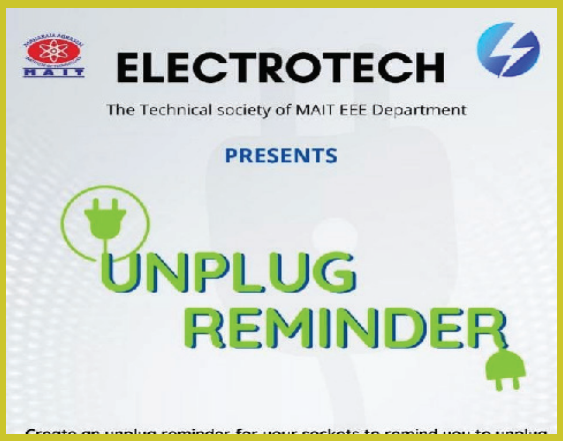
# Orientation of ElectroTech Society


The EEE Dept. of MAIT organised Orientation of ElectroTech Society - The Official Society of Dept of EEE, MAIT. ElectroTech plans to organise seminars, project workshops, events for students to participate in the same. The event was inauguarated by Director ma'am with a warming note from our HOD sir Dr. Rajveer Mittal, Ms. Poonam Juneja and joined by the students from EEE department. The event was quite a successfull one that started with Saraswati Vandana followed by inaugarataion by speeches our honourable faculties, ElectroTech Society hence is now an official society of Maharaja Agrasen Institute of Technology. Electrotech Core Team works very hard to bring the best out of their resources and to provide students the best of events and resources that can be provided. Led by faculty coordinator Ms.Poonam Juneja and chief student coordinator - Anant Kumar. Numerous other events have been planned in order to smoothly run the society.

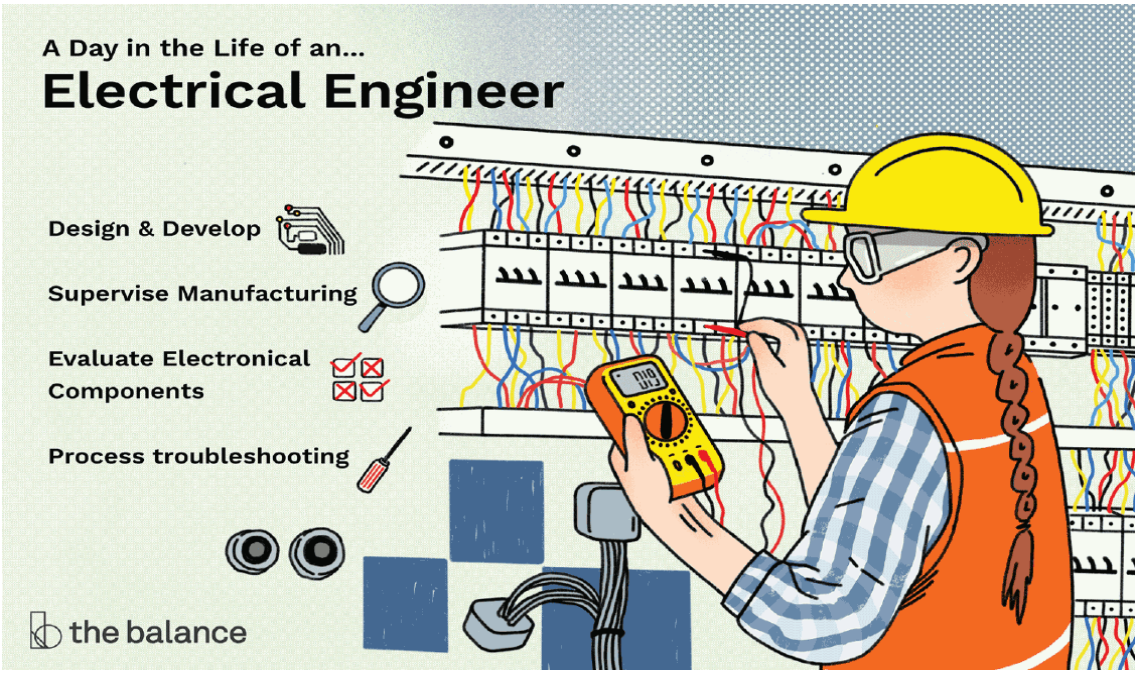
# One Day Seminar on National Energy Conservation Day


A one day seminar was organised by Dept of EEE MAIT on the occasion of National Energy Conservation Day with guest speaker Dr.Bhaskar Singh,the event was started by a speech from our honourable HOD sir Dr.Rajveer Mittal and followed by gracious speech from our speaker Dr. Bhaskar Singh, he emphasised on conserving energy and the steps to follow to conserve energy. Energy conservation is the need of the hour and everyone including all age groups should follow irrespective of their age in order to save our resources, electricity being one of the most important resource. The event was very successfull held on Microsoft Teams was joned by numerous faculties and students that took part and gained a lot of knowledge in the event that was organised by Dept.

# Logo Design Competition organised by ElectroTech




A competition was organised by ElectroTech on Energy Conservation Day that focused on creating logos to remind people to swicth off appliances when not in use that'd help people save energy, the competition was won by Harsh Anand from second year EEE Department and was faciliated by certificate and a prize by our HOD.




# Latest Technological Advancements

## GPT-3

Large natural-language computer models that learn to write and speak are a big step toward AI that can better understand and interact with the world. GPT-3 is by far the largest—and most literate—to date. Trained on the text of thousands of books and most of the internet, GPT-3 can mimic human-written text with uncanny—and at times bizarre—realism, making it the most impressive language model yet produced using machine learning.

conceptual photograph of unicorns
SIERRA LENNY

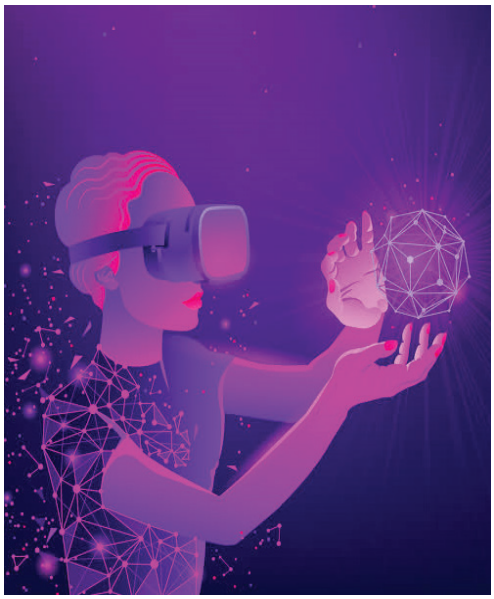
But GPT-3 doesn't understand what it's writing, so sometimes the results are garbled and nonsensical. It takes an enormous amount of computation power, data, and money to train, creating a large carbon footprint and restricting the development of similar models to those labs with extraordinary resources. And since it is trained on text from the internet, which is filled with misinformation and prejudice, it often produces similarly biased passages. Will Douglas Heaven shows off a sample of GPT-3's clever writing and explains why some are ambivalent about its achievements.

# Greenhydrogen

Hydrogen has always been an intriguing possible replacement for fossil fuels. It burns cleanly, emitting no carbon dioxide; it's energy dense, so it's a good way to store power from on-and-off renewable sources; and you can make liquid synthetic fuels that are drop-in replacements for gasoline or diesel. But most hydrogen up to now has been made from natural gas; the process is dirty and energy intensive.

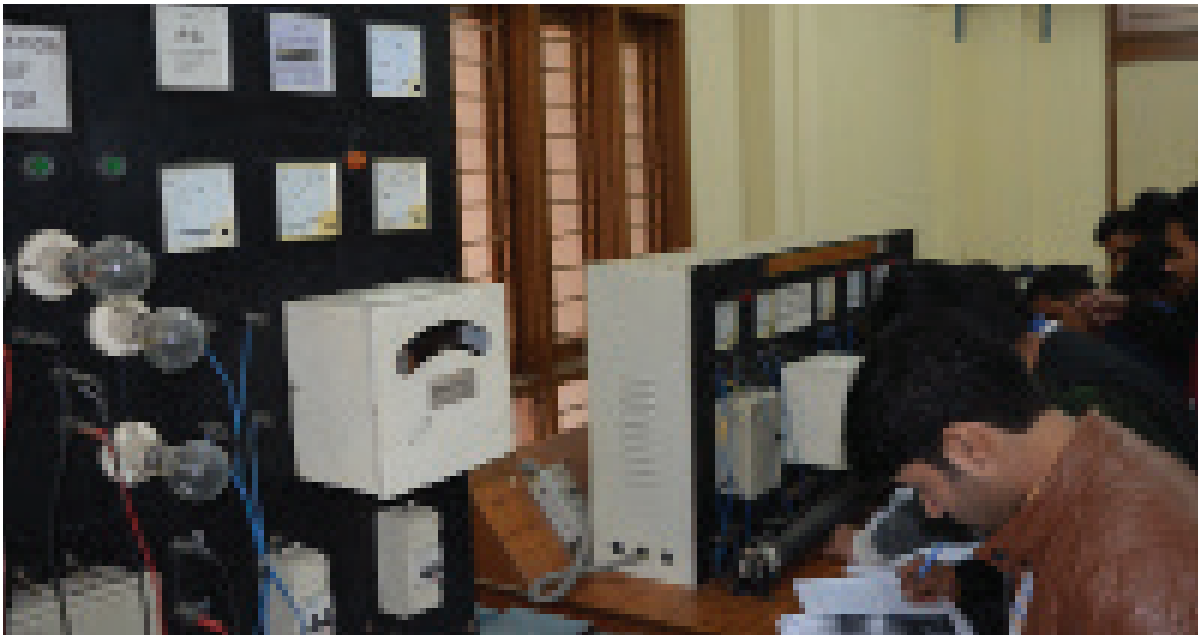
The rapidly dropping cost of solar and wind power means green hydrogen is now cheap enough to be practical. Simply zap water with electricity, and presto, you've got hydrogen. Europe is leading the way, beginning to build the needed infrastructure. Peter Fairley argues that such projects are just a first step to an envisioned global network of electrolysis plants that run on solar and wind power, churning out clean hydrogen.

# Digital Contact Tracing



As the coronavirus began to spread around the world, it felt at first as if digital contact tracing might help us. Smartphone apps could use GPS or Bluetooth to create a log of people who had recently crossed paths. If one of them later tested positive for covid, that person could enter the result into the app, and it would alert others who might have been exposed.

But digital contact tracing largely failed to make much impact on the virus's spread. Apple and Google quickly pushed out features like exposure notifications to many smartphones, but public health officials struggled to persuade residents to use them. The lessons we learn from this pandemic could not only help us prepare for the next pandemic but also carry over to other areas of health care. Lindsay Muscato explores why digital contact tracing failed to slow covid-19 and offers ways we can do better next time.



Our beloved faculty of EEE department

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