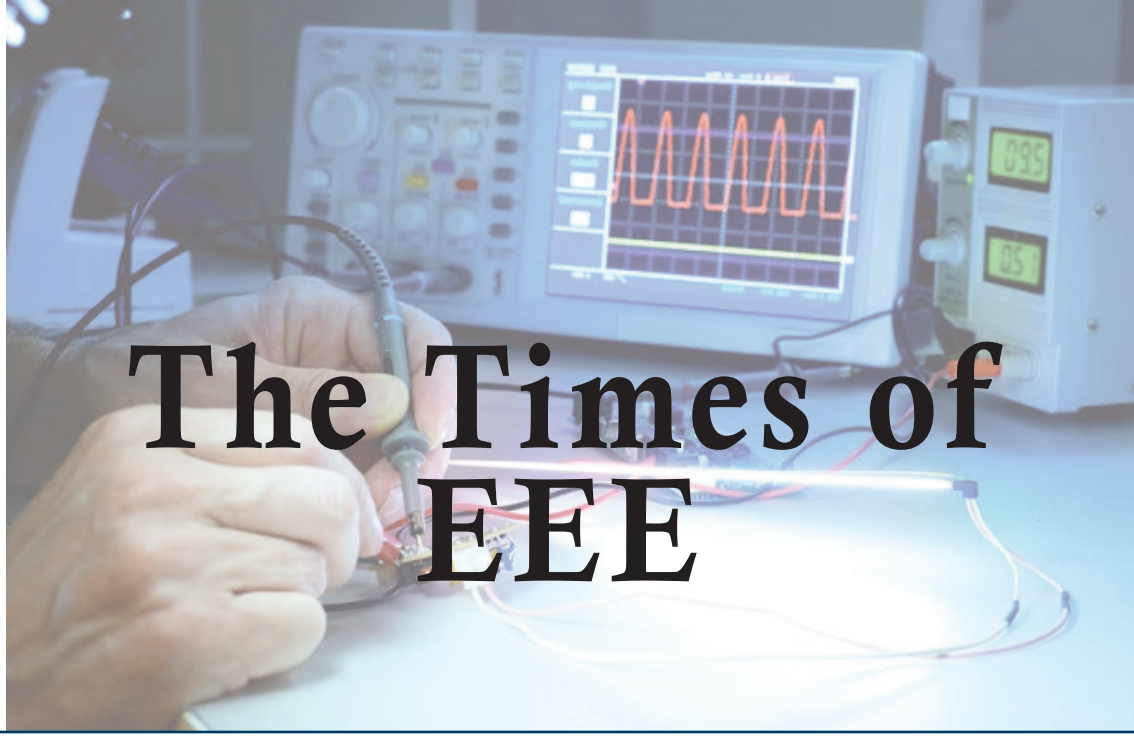
MAHARAJA AGRASEN INSTITUTE OF TECHNOLOGY

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 2022 to April 2022)

- Student updates
- Factopedia
- Pun stop
- Events
  - Robotics Workshop by IEEE MAIT
  - Annual Sports Day -Sportz'22
- Latest technological advancments

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

Chief-Editor: Dr. Rajveer Mittal

Editor: Ms. Poonam Juneja

Student coordinator: Anant Kumar

Factopedia

- A single lightning bolt can measure up to three million volts and lasts less than a second..
- Appliances in the mid-1980s used about four times as much electricity as a modern appliance.
- A standard taser can emit up to 50,000 volts. That is enough to paralyze someone temporarily, which is why tasers are effectively used.
- Global electrical production during 2015 approached 25,000 terawatt hours. One terawatt is 1 trillion wattsthe electrons from one object jump to another object.

Pun stop

Q: What type of fish is made out of 2 sodium atoms?

A: 2 Na

Q: How would you be able to cut the sea in half?

A: Using a see saw

Q: What kind of music do planets dance to?

A: Nep-Tunes

Q: What was the first Electricity Detective's name?

A: Sherlock Ohms

Robotics Workshop by IEEE MAIT

The EEE Dept. of MAIT organised Robotics Workshop in association with IEEE MAIT.
The workshop was inaugaurated by our Hoourable HOD Sir and Dr. Monika Gupta. TheWorkshop was taken by Mr.Raj Kumar, an expert in the field of robotics, a rational amount of students joined the workshop and learned theory as well as applied practical knowledge to the robotics field they were actively attentive and concentrated well in the whole workshop that was conducted. Kits were provided to the students to work on. Students created a Line Following Robot using Arduino, a fun quiz session was organised and refreshments were also provided to the students. The event was a major success as a a lot of students participated in it and learnt well and also made real life projects that'll help them in their career. All the students were provided with certificates and also were allowed to take home the project that they created. Maharaja Agrasen Institute of Technology's Department of Electrical and Electronics Engineering in association with IEEE MAIT conducted this event.

Annual Sports Fest - Sportz'22

Maharaja Agrasen Institute of Technology organized its annual Sports Fest - Sportz, an excellent competition on sports that included games like Chess, Carrom,Table tennis, Basketball and much more. It was a very joyous event in which students from various departments participated and won cash prizes as well as certificates. A lot of faculties coordinated this event and made this a super successfull one. Quite a lot faculties from Electrical and Electronics Department also coordinated in this event and put their hardwork to make sure this event is being done successfully. Despite academics being held online for two years, the Institute came back strong and organised quite a successfull event with everyone participating and winning prizes as well as making memories.

Glimpses of Sportz' 22

Latest Technological Advancements

Edge computing

Edge computing is a new technology that ensures low latency and high-speed data processing. Edge computing allows computations to be carried out closer to data storage systems, improving application performance. Cloud platforms' high bandwidth costs can act as a motivator for edge computing adoption.The technology aims to run fewer processes in the cloud and transfer them to places like the user's computer or an edge server. Bridging the gap between data and computation eliminates long-distance communication between the server and the client, resulting in increased process speed. Therefore, edge computing used to handle time-sensitive data stored in remote areas with minimal access to the central location. Cloud computing and IoT applications would benefit from the technology Edge computing is a distributed computing paradigm that brings computation and data storage closer to the sources of data. This is expected to improve response times and save bandwidth. and other human interactions.

Thus, edge computing is reshaping IT and business computing. Take a comprehensive look at what edge computing is, how it works, the influence of the cloud, edge use cases, tradeoffs and implementation considerations.

Internet of behaviors (IoB)

If you've heard of the Internet of Things (IoT), you should know that the IoT extends to the Internet of behavior as well.

The Internet of Things (IoT) is concerned with using data and insights to influence behavior. IoT devices are possible as massive databases for Internet of behavior (IoB) paradigms.

Businesses will be able to follow customer behavior and use IoB to benefit their respective channels with the aid of IoB. For example, a health-tracking app may collect information about your physical activity routine, diet, sleep, and other habits.

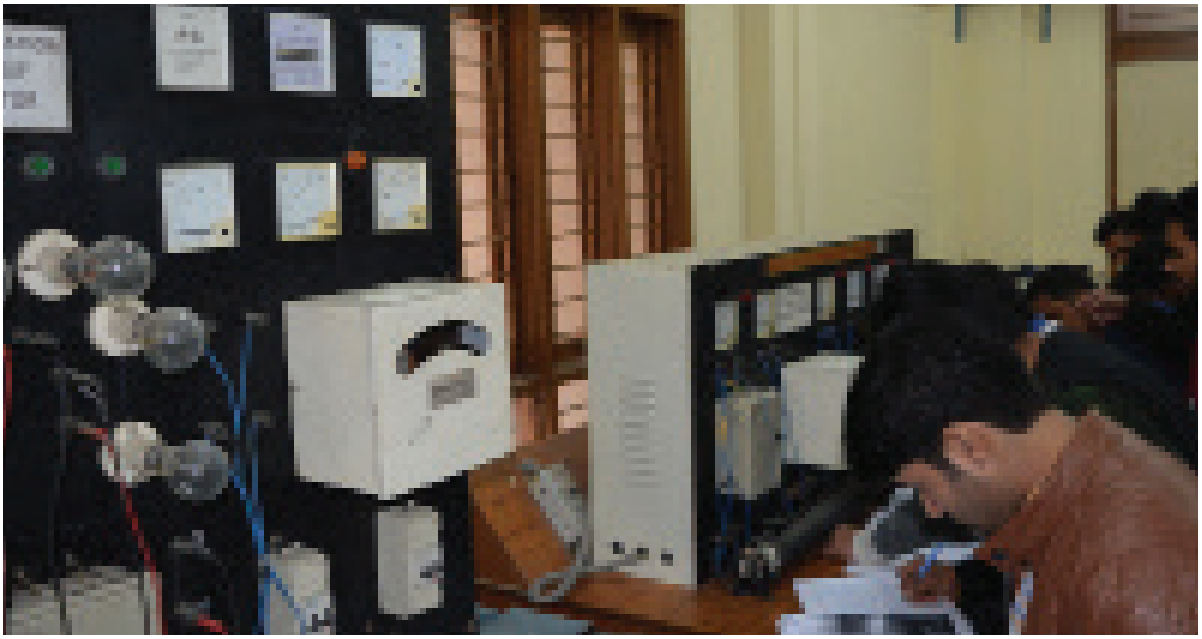
This information can be used to encourage more behavioral improvement, such as by creating personalized health plans.

Human Augmentation

Human augmentation is a broad term that encompasses innovations that seek to improve human abilities and productivity.

Physical augmentation, such as prosthetics, AR lenses, and RFID tags infused inside humans, are all part of the field of human augmentation.

This can aid in the enhancement of human cognition, perception, and action abilities. This is accomplished by sensing and actuation technology, information fusion and fission, and artificial intelligence.



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