

JUNE 2020

Issue-1

# News Letter

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



**GL BAJAJ**  
Institute of Technology & Management

**FIND  
YOUR  
SPARK**

▶ Panel discussion

▶ Industry visit to ST microelectronics

▶ International Conference

▶ Student corner



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## A Panel Discussion on “How can youth aid the Government in making Indian roads safer”

20 February 2020, Greater Noida: A Panel Discussion was conducted on 'How can youth aid the Government in making Indian roads safer' at GL Bajaj Institute of Technology and Management, Greater Noida. It was organized by the Department of Electronics and Communication Engineering.

The Panel Discussion was graced by Shri Sanjay Mathur, Deputy Transport Commissioner, Govt. of Uttar Pradesh; Dr. Kamal Kumar Kar, Assistant Programme Advisor, NSS, Ministry of Youth Affairs and Sports, Govt of India; Shri Anil Kumar Jha, Additional DCP Traffic, Noida, Uttar Pradesh Traffic Police, and Dr. Anurag Bhargav, Chief Medical Officer, Directorate of Medical and Health Services, Govt of Uttar Pradesh as Esteemed Panelists.

The esteemed panelists guided and informed the discussion making it a success by clearly and extensively addressing the objective of the panel discussion which is on how the youths can play a major role in helping the Government in minimizing road safety issues to make Indian roads safer for everyone. Engagement of youths has been a priority of the IRSC and the panel discussion elaborated on this topic and various others such as spreading more awareness on rules and regulations to ensure safety on roads.





## Industry Visit to ST Microelectronics

On February 8, the Department of Electronics and Communication Engineering of GL Bajaj institute of technology and management was organized an industrial visit to ST Microelectronics, Greater Noida. Visit of 30 students of 3rd year were accompanied with their faculties. The visit was organized in order to familiarise the students with the ongoing technological advancements in the IoT market. An interactive session was organized by the officials of ST Microelectronics in which they inform to the students about the manufacturing of electronics and semiconductors. They made the students awareness of how a chip is designed. They also gave a brief session on IoT and Electric vehicles and how these things are taking over the market. Then the students were visit to “Da Vinci” gallery where they displayed a models of new technologies on which work is being done, it was a prototype of a smart city. Finally, the day ended on a high note. Overall it was an amazing experience for everyone.





## International Conference on Smart Communication and Imaging Systems (MEDCOM 2020)

The Department of Electronics and Communication Engineering was organised an INTERNATIONAL CONFERENCE on Smart Communication and Imaging Systems (MEDCOM-2020) technically sponsored by Springer Nature using the virtual mode, which was scheduled on June 26- June 27, 2020.

### Aim of the Conference

Recent advances in different domains like Sensor Technologies, Wireless Communications, Computer Vision Medical Image, Data Processing and globalization of digital society across various social areas have intensified the growth of remote healthcare services. However, several socioeconomic aspects and integration of these services with classical healthcare system remaining as a challenging issue. Apart from these the recent advances in the field of renewable energy systems, smart grid, Smart sensors, control techniques and environmental issues are the key factors of electronics and ICT.

The conference aims to bring teachers, researchers, scientists, engineers and scholars together, where they will exchange and share their experiences, new ideas and research results about all aspects of mentioned areas. This conference also presents a strong fostering integration between different medical imaging, communication & computational technologies. The two days' conference was including talks/tutorials by experts from industry, academia and research organizations. The two days' conference was including talks/tutorials by experts from industry, academia and research organizations.

### Day 1 Schedule

Inaugural session at 10:00 AM

Invited Talk by Dr. Brahmjit Singh, Prof, NIT Kurukshetra.

Session 1A and session 2A at 11:30 AM onwards

Session 3A and session 3B at 02:30 PM onwards

### Day 2 Schedule

Session 4A and session 2B at 10:30 AM onwards

Invited Talk by Dr. Hardik J. Pandya, Assistant Professor, IISc Bangalore.

Session 5A and session 5B at 02:30 Pm onwards

Conference Validator function @4:30 PM.

Finally, all the sessions were concluded with discussion of their topic by experts of session chairs and Co- chairs. This was successfully completed an International conference using the virtual mode during this Covid-19 Pandemic.





## BLOCKCHAIN TECHNOLOGY

Blockchain technology is a structure that stores transactional records, also known as the block of the public in several databases, known as the “chain,” in a network connected through peer-to-peer nodes. Typically, this storage is referred to as a 'digital ledger.'

Every transaction in this ledger is authorized by the digital signature of the owner, which authenticates the transaction and safeguards it from tampering. Hence, the information the digital ledger contains is highly secure.

In simpler words, the digital ledger is like a Google spreadsheet shared among numerous computers in a network, in which, the transactional records are stored based on actual purchases. The fascinating angle is that anybody can see the data, but they can't corrupt it. Blockchain technology uses hash encryption to secure the data.

Blockchain is a combination of three leading technologies:

1. Cryptographic keys
2. A peer-to-peer network containing a shared ledger
3. A means of computing, to store the transactions and records of the network

Blockchains can be set up to operate in a variety of ways, using different mechanisms to secure a consensus on transactions, seen only by authorized users, and denied to everyone else. Bitcoin is the most well-known example of Blockchain Technology. Blockchain founders are also trying out numerous other applications to expand Blockchain's level of technology and influence. Judging by its success and increased use, it seems that Blockchain is poised to rule the digital world of the near future.

Vidit Shukla

4<sup>th</sup> Year Section B



## THE EYE OF FUTURE SKY: FUTURE DRONES

*“Technology is important because it creates the future. We're able to be a part of the “next” and create things that brings new era “*

Drones are simply a novel gadget, a fun toy to fly, snapping aerial images and even spying. Rapidly is in boom, the Unmanned Aerial Vehicles (UAVs) already have been purposed in a variety of scenarios, far beyond their use as robotic toys. After Reginald Denny invented in 1919 but after 2017 drones have enhanced and redefined a variety of industries.

Here are some of the many ways unmanned aircraft can revolutionize how we get things done in future. It's easy to see why drone degree programs, like Cal U's two-year associate's degree are more relevant than ever.

\***AGRICULTURE:** The Environmental Protection Agency already utilizes drones in various purposes like in pesticide because some pesticide are harmful for human so our future drone also help in delivery of seeds to former without any extra pay they directly get all seeds according to session bases.

\***DELIVERY:** In delivery we will imagine our world of new era with drone platform on every flat like and it replace postmen ,delivery men in future so everything which we order reach earlier as compared present time

\***DISASTER MITIGATION AND RELIEF:** Drones can go where humans can't access, so it is a future solution of any dangerous situation and in rescue efforts, as well as for delivering emergency supplies to remote locations and disaster areas.

\***LOGISTICS:** Heavy-duty drones can replace trucks for inventory management and due to this it help delivery things on time and it also help in decreasing traffic of the road.

\***FILMMAKING AND PHOTOGRAPHY:** Low-budget filmmakers are already using drones to capture the aerial shots and Hollywood will soon be hiring full crews of drone Unmanned aircraft are also gaining ground with photojournalists who want to capture breaking news from above.

\***ISPs:** Big tech companies like Facebook and Google are experimenting with solar powered drone technology to beam Internet to remote locals. This could transform connectivity as we know it.

\***LAW ENFORCEMENT:** In this field drones help police to caught the thief by applying mini bullets to unconscious the thief so they were able to caught them easily and we'll likely begin to see unmanned aircraft supplementing police presence at large public events.

\***Real Estate:** Real Estate listings are poised to change completely with high-definition videos capture by drones that fly through neighborhoods, and into every room in a listed house.

And many mores future are in drone from normal day to day life up to the space use like in future we use drones vechiles . This how engineer and scientist see the world of drones and it is called is **eye of sky**.

SOMYA SINGH

3<sup>rd</sup> year



**Editorial Board**

**Convenor** : Dr. Satyendra Sharma (HOD)

**Editor** : Dr. Dinesh Singh - Associate Professor  
Dr. Shilpa Choudhary - Associate Professor

**Student Editor** : Tanya Sharma - III year  
Shreya Dubey - III year



## VISION

To become a department of repute and prepare globally competent and socially responsible professionals with holistic knowledge and technical skills.

## MISSION

- ✓ To provide a supportive environment for effective knowledge transfer and nurturing ideas.
- ✓ To equip students with technical and leadership skills, and abilities to face the global challenges.
- ✓ To create an environment conducive for research and development with continuous involvement of industry.
- ✓ To inculcate professional and moral values in the students.

## Program Educational objectives (PEO)

On completion of this course, our graduates will be able to

1. Exhibit multi-disciplinary technical and leadership skills for better employability, higher education and entrepreneurship.
2. Possess strong knowledge in the field of Electronics and Communication Engineering to develop solutions for real life problems.
3. Undertake professional responsibilities through strong team-work, communication skills and life-long learning.
4. Become socially responsible professionals with moral values and ethics.



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