

2024-25

# NEWS LETTER

Department of Electronics and Communication Engineering

- **Vivo Mobile India Pvt. Ltd**
- **Farewell 2025**
- **Workshop on Unmanned Aerial Vehicle**
- **Celebrating World Intellectual Property Day 2025**
- **Students visit to Bharat Shiksha Expo 2025**
- **The five-day Online Short-Term Course**
- **PEER to PEER Learning on 5G Communication**
- **Parikrama : The Campus Tour (ECE)**
- **Three-Day Workshop on Embedded System Design with embedded C**
- **Guest Lecture on Cadence Design Systems**
- **Celebrating National Education Day 2024**
- **5G Workshop under Capgemni MOU**



10<sup>th</sup> June 2025

## Industrial to Vivo Mobile India Pvt. Ltd.

On 10 June 2025 Department of Electronics and Communication organised an industrial visit to Vivo Mobile India Pvt. Ltd. located at RC-458, Deepak Vihar, Khora Colony near Vishal Mega Mart, Noida, Uttar Pradesh 201309. This was a one-day visit intended to provide an exposure to students

### **Objective:**

To bridge the gap between academic studies and real.world applications by observing cutting.edge production, testing, and communication technologies in action.

### **Visit Highlights:**

During the industrial visit to Vivo Mobile India Pvt Ltd, students were given a guided tour through the company's state-of-the-art manufacturing and assembly facilities, providing a comprehensive view of the mobile phone production lifecycle—from PCB fabrication to final quality assurance. They gained in-depth exposure to modern communication technologies, including 4G/5G testing protocols, RF calibration, signal processing workflows, and embedded system testing. The visit also featured live demonstrations of advanced quality control systems, such as environmental testing (temperature/humidity), electromagnetic compatibility (EMC) testing, and mechanical drop-test mechanisms. An interactive session with Vivo's engineers offered valuable insights into mobile hardware architecture, software–hardware integration, and key performance indicators, while also highlighting current industry trends. The visit concluded with a Q&A session that explored topics like supply chain logistics, product lifecycle management, and regulatory and certification processes—giving students a holistic understanding of the electronics and communication industry in a real-world context.

### **Learning Outcomes:**

- Gained clear insights into the practical implementation of electronics and communication theories in a large.scale manufacturing environment.
- Understood the importance of rigorous testing, quality assurance, and compliance in consumer electronics.
- Observed real-world applications of RF engineering and embedded systems development.
- Became familiar with wearable-to-handset integration and the ecosystem for 5G-enabled smartphones.
- Strengthened appreciation for collaborative, multi-disciplinary work needed in modern ECE roles.

### **Coordination & Appreciation:**

- Faculty members : Ms Shaina Suresh Kumar and Mr Mohit Tyagi
- Thanks extended to Vivo Mobile India Pvt Ltd's management and technical teams for their warm welcome, insightful demonstrations, and generous sharing of industry expertise.

10<sup>th</sup> June 2025  
Industrial to Vivo Mobile India Pvt. Ltd.



24 May 2025  
Farewell Party - 2025 Batch

The Department of Electronics and Communication Engineering organized a grand Farewell Party for the B.Tech 2025 pass-out students on 24th May 2025. The event was held to bid an affectionate goodbye to the outgoing batch and to celebrate their academic journey and achievements. The program commenced with a welcome address by Dr. Satyendra Sharma, Head of Department, who congratulated the graduating students on successfully completing their course and encouraged them to carry forward the values and knowledge gained at the institute. This was followed by an address by Dr. Preeti Bajaj, Director, GLBITM. Faculty members also shared their best wishes and motivated students to excel in their future endeavours. The students of the pre-final year presented a series of cultural performances, including dance, music, and fun-filled activities, which added vibrancy to the evening. The graduating students also shared their experiences, memories, and gratitude towards the department and faculty members. The farewell concluded with a vote of thanks. The department extends its heartfelt wishes to the outgoing students for a bright and successful future ahead.

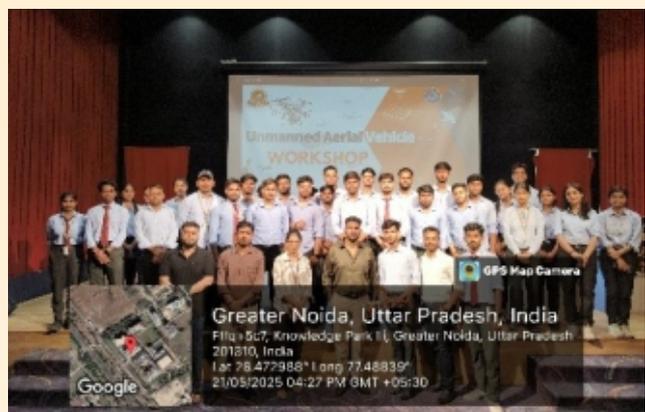


21 May 2025

## WORKSHOP REPORT On "UAV (Unmanned Aerial Vehicle)

The Anvitha Club of the Department of Electronics and Communication Engineering (ECE), GL Bajaj Institute of Technology and Management, successfully organized a workshop on Unmanned Aerial Vehicles (UAVs) on 21st May 2025 at the SBG Hall. The workshop aimed to provide students with a practical understanding of UAV technology, its current applications, and its future potential in various sectors. The session was led by Mr. Ayush Awasthi from Aeroworks Technologies, an expert in UAV systems. He was accompanied by Mr. Arpit Goel, the Co-founder of Aeroworks, who added valuable insights into the entrepreneurial and technological aspects of drone development. The two-hour workshop, held from 3:00 PM to 5:00 PM, was highly engaging and informative. The speakers covered various dimensions of UAV technology, including drone architecture, navigation systems, use-cases in industry and defense, and emerging trends in

autonomous aerial systems. The interactive nature of the session encouraged active participation from the attendees. The event was coordinated by Dr. Smriti Sachan and Dr. Rishabh Yadav, faculty members from the ECE Department, who played a pivotal role in ensuring the success of the event. As a token of appreciation, a felicitation ceremony was held wherein saplings and mementos were presented to the esteemed guests by Dr. Dinesh Kumar Singh and Dr. Shilpa Choudhary. This gesture symbolized growth, sustainability, and gratitude. The workshop received an enthusiastic response from students and faculty members, and it served as a significant step in fostering interest in UAV technologies within the campus community.



26 April 2025

## Celebrating World Intellectual Property Day 2025

Department of Electronics & Communication Engineering, GL Bajaj Institute of Technology and Management, Greater Noida in collaboration with Institution' Innovation Council (IIC) GLBITM organized an Expert talk on "Foundations of Intellectual Property: Basics and Beyond" on 26th April, 2025 to mark celebration of World Intellectual Property Day. Every year, the world celebrates World Intellectual Property Day on April 26 which aims to spread awareness about intellectual property (IP) rights and how it encourages innovation and creativity to drive human progress. This day marks the opportunity to educate people on the need for IP protection to protect the creator's rights and copyright as well as the public interest. World Intellectual Property Day is an opportunity for both inventors and creators for people across the world to promote IP solutions that shape the world. This day aims to educate people on the various ways of safeguarding intellectual property such as patents, trademarks, copyrights and others. The keynote speaker of the event was Dr. Pushpa. She emphasised on the need, importance, and requirement of IPR with the help of simple and real-life examples. She addressed that Intellectual property refers to any intellectual creation, such as literary works, artistic works, inventions, designs, symbols, names, images, computer code, etc. Dr. Krishanu kundu (Associate Professor, ECE) coordinated the whole event under the supervision of Prof. Dr. Satyendra Sharma (Professor & HOD, ECE). Around 80 students of ECE Department participated in the event.



## 25 April 2025

### Bharat Shiksha Expo 2025

On 25 th April, 25 the students of the Electronics and Communication Engineering (ECE) Department had the opportunity to visit the Bharat Shiksha Expo 2025, an event organized by the Institution's Innovation Council (IIC) Cell and the Anvitha Club. The educational trip was coordinated under the able guidance of Dr. Krishanu Kundu and Dr. Smriti Sachan, aiming to expose students to the latest advancements, innovations, and trends in the educational and technological sectors.

#### Objective:

The primary objective of the visit was to:

- Broaden students' understanding of emerging educational technologies.
- Inspire innovation and creativity among students.
- Provide real-world exposure to the current developments in electronics, communication, and education technology fields.
- Strengthen the industry-academia linkage.

#### Overview of the Expo:

The Bharat Shiksha Expo 2025 showcased a wide range of exhibits covering:

- Smart education solutions.
- AI-based learning tools.
- Emerging trends in IoT, Robotics, and Embedded Systems.
- Start-up innovations in education technology.
- Seminars and interactive sessions with industry experts.

Students attended various technical talks and demonstrations, interacted with exhibitors, and gained first-hand knowledge about modern tools and practices being adopted in the education sector.

#### Student Experience:

Students were enthusiastic and highly engaged throughout the visit. They actively participated in Q&A sessions, explored new learning methodologies, and networked with professionals and innovators. The visit significantly enhanced their understanding of practical applications of theoretical concepts learned in the classroom. Feedback from students was overwhelmingly positive, with many expressing a desire to implement some of the innovative ideas they encountered into their academic projects.

#### Conclusion:

The visit to Bharat Shiksha Expo 2025 was a resounding success, fulfilling its educational objectives and providing valuable exposure to the students. It fostered innovation, encouraged entrepreneurship, and broadened the technological horizons of the participants.



17 February 2025

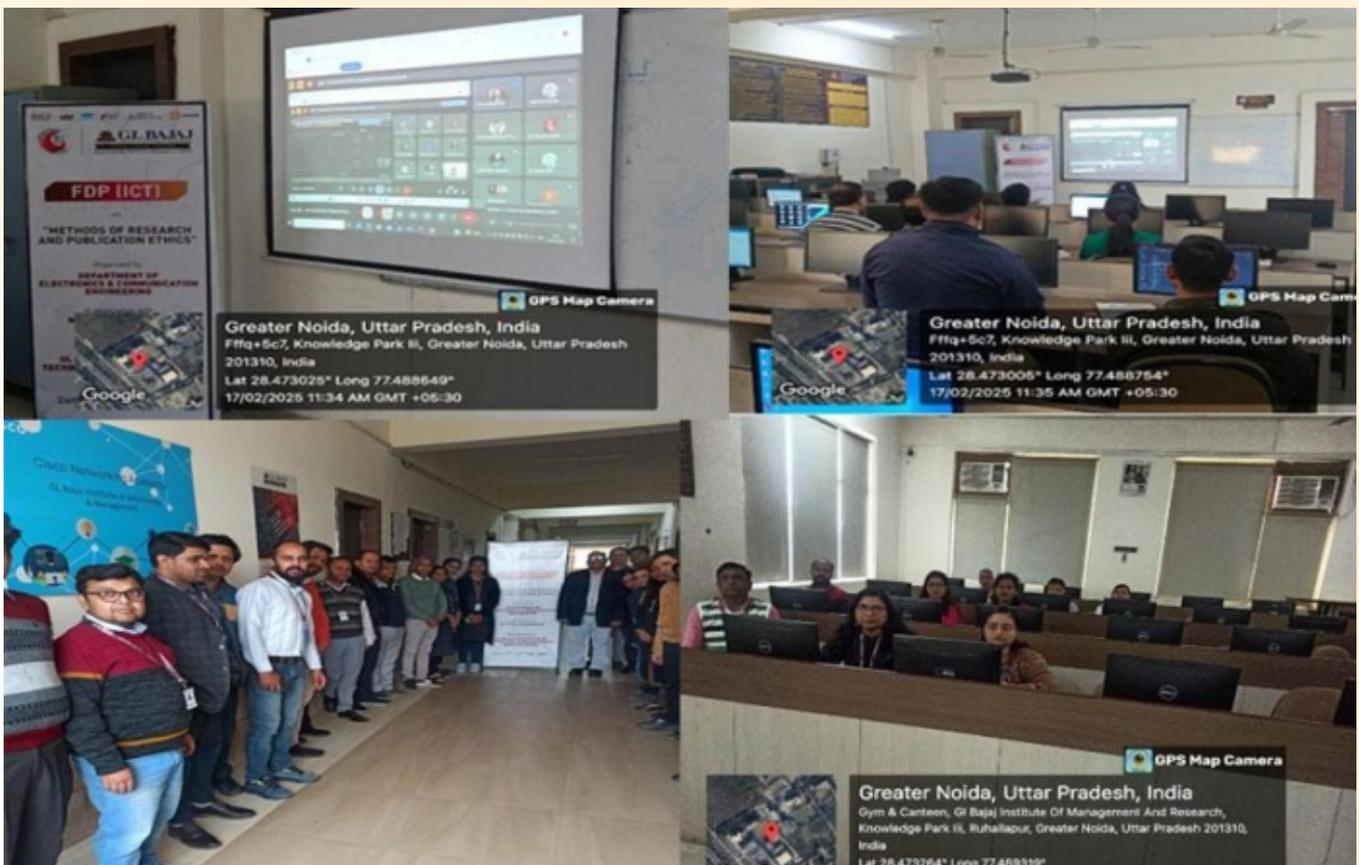
## Methods of Research and Publication Ethics

The five-day Online Short-Term Course on “Methods of Research and Publication Ethics,” organized by the ECE Department of G. L. Bajaj Institute of Technology and Management, Greater Noida, in association with NITTTTR, Chandigarh [ICT-104], took place from 17th to 21st February 2025. The course commenced with registration (total of 65 participants has been registered from our remote centre) and an inaugural session led by Dr. Bholu Ram Gurjar, Dr.

Arvind Bal Gupta, and Dr. Amandeep Kaur. The first day included sessions on the research process and selecting and defining a research problem by Dr. Sunil Dutt and Dr. Paramjit Kaur Tulsi, respectively.

On the second day, Dr. Ashok Kumar discussed the paradox of experience, life sciences, quantum physics, and the Vedas, followed by a session on Intellectual Property Rights (IPR) and patent filing by Dr. Niraj Bala. Dr. Paramjit Kaur Tulsi then covered various research methods. The third day featured discussions on literature review by Dr. Amandeep Kaur and

developing measuring instruments by Dr. Sunil Dutt. Day four included sessions on integrating research culture as per NEP-2020 by Dr. Amandeep Kaur, data mining and analysis using Orange software by Dr. Jagriti Saini, and ethical AI-based research by Dr. Gaurav Kumar. The final day began with an activity session led by Dr. Nivedita Singh, followed by a discussion on literature review tools by Dr. Gaurav Kumar. The course concluded with a feedback and valedictory session managed by Dr. Amandeep Kaur. The program provided participants with valuable insights into research methodologies, ethics, AI tools, and data analysis, significantly enhancing their academic and research skills. The whole STP is coordinated by Dr. Dinesh Kumar Singh, Professor, ECE and Dr. Smriti Sachan, Assistant Professor, ECE under the guidance of Dr. Satyendra Sharma, HOD, ECE.



## 2 January 2025

### PEER to PEER Learning on 5G Communication

To foster a culture of peer-to-peer learning and encourage technical self-development, on ..... a three-day training workshop on 5G technology was organized on the VNGC Server platform. The event was spearheaded by Mr. Abhay Tripathi, a final-year student of the Electronics and Communication Engineering (ECE) department from the 2021–2025 batch. Mr. Tripathi, who has secured placement at Capgemini and is currently engaged in projects related to 5G technology, served as a key resource person for the program. His hands-on experience and deep understanding of emerging telecom technologies made him a credible and inspiring figure for the participants.

The workshop was designed to introduce students to the fundamentals of cellular communication, with a special focus on the evolution from 4G to 5G networks. The training included theoretical sessions, real-world case studies, and live simulations conducted via the VNGC Server, providing a practical and immersive learning experience. Topics such as the architecture of 5G, key enabling technologies (e.g., MIMO, mmWave, and network slicing), latency improvements, and use cases in various sectors were covered extensively.

Participants, primarily from the second year of the ECE department, showed great enthusiasm and actively engaged in all the sessions. They demonstrated keen interest by asking insightful questions, participating in simulation exercises, and collaborating in team-based activities. The workshop successfully bridged the gap between academic knowledge and industry application, equipping students with a foundational understanding of modern cellular networks and preparing them for future roles in the telecommunications sector.

Overall, the workshop was a significant initiative toward cultivating technical competence and peer-led learning within the student community. The contributions of Mr. Abhay Tripathi were particularly commendable, as he not only shared his technical expertise but also motivated his juniors to pursue excellence in the field of communication technologies.



**14 December 2025**  
**Parikrama - The Campus Tour (ECE)**

As part of a continued effort to promote STEM (Science, Technology, Engineering, and Mathematics) education and inspire young minds toward technological innovation, the Anvitha Club of the Electronics and Communication Engineering Department organized an educational visit for school students on December 14, 2024.

A total of 386 students from GHS Chhajarsi School, located in Sector 63, Noida, visited our institution to gain firsthand exposure to advanced engineering laboratories and technological practices. This initiative was aimed at bridging the gap between theoretical learning and real-world application for school students, many of whom had limited access to high-end technical infrastructure.

The students were taken on guided tours of various engineering labs, including but not limited to Electronics & Communication, Embedded Systems, Robotics, IoT, and Wireless Communication. Faculty members and student volunteers from the Anvitha Club provided live demonstrations, explained fundamental engineering concepts, and interacted with the school students to answer their queries. Sessions included demonstrations on circuit design, signal processing, wireless transmission, and robotics automation.

The visit not only enriched the academic exposure of the students but also kindled curiosity and enthusiasm among them regarding future careers in engineering and technology. Feedback from both teachers and students of GHS Chhajarsi was overwhelmingly positive, with many expressing gratitude for the opportunity to witness cutting-edge facilities and interact with engineering students and faculty.

This outreach program effectively fulfilled its goal of promoting early awareness and interest in STEM disciplines. It also reinforced the college's commitment to community engagement and educational mentorship by empowering the next generation of learners with knowledge, motivation, and inspiration.



Greater Noida, Uttar Pradesh, India  
Fffq+39p, Knowledge Park Iii, Greater Noida, Ruhallapur,  
Uttar Pradesh 201310, India  
Lat 28.4728° Long 77.488366°  
14/12/24 11:20 AM GMT +05:30

29 November 2025

## Three-Day Workshop on Embedded System Design with embedded C

The Department of Electronics and Communication Engineering organized "A Three-Day Workshop on Embedded System Design with embedded C". The workshop was conducted by Bosch Technologies Pvt Ltd, Bengaluru, Karnataka, on 29-11-2024 to 01-12-2024. All the students of VII Sem. B. Tech. ECE participated in the workshop and enhanced their awareness. The Program began at 9.30 A.M. with a welcome note by Dr. Satyendra Sharma, (Professor, and Hod, ECE) who welcomed all the dignitaries and the resource person, Mr Malay kenia, (Associate Director of Mirafra technology, Ex semen and ex google) Mr Akansh Garg (Senior embedded engineer Bosch technology) & Dr. Mohan Singh, Dr. Richa Tiwari, and Dr. Vinay Kumar along with VII semester students participated in the Workshop.



Greater Noida, Uttar Pradesh, India  
Girls Hostel & Amphitheatre, GI Bajaj Institute Of Management  
Research, Sardar Fateh Singh Rd, Knowledge Park III, G  
Ruhallapur, Uttar Pradesh 201310, India



Greater Noida, Uttar Pradesh, India  
Seminar Hall & Computer Centre, GI Bajaj Institute Of Management



Greater Noida, Uttar Pradesh, India  
Seminar Hall & Computer Centre, GI Bajaj Institute Of Management And  
Research, 2, Knowledge Park III, Greater Noida, Ruhallapur, Uttar Pradesh  
201310, India  
Lat 28.472871° Long 77.48828°  
01/12/24 11:33 AM GMT +05:30

## 25 November 2025

### Guest Lecture on Cadence Design Systems

The Department of Electronics and Communication Engineering at G.L. Bajaj Institute of Technology and Management, Greater Noida, successfully organized a highly informative and interactive Technical Guest Lecture on Cadence Design Systems on November 25, 2024. The two-hour session, held from 10:30 AM to 12:30 PM, proved to be a valuable platform for students to explore the intricate world of Electronic Design Automation (EDA) and semiconductor industry trends directly from seasoned professionals.

The guest lecture was delivered by experts with extensive industry experience in Cadence tools and VLSI design, who offered deep insights into the application of Cadence software in modern chip design and verification workflows. The session began with a comprehensive overview of the Cadence Design Systems suite, covering core tools such as Virtuoso, Allegro, and Spectre, and their roles in analog, digital, and mixed-signal design environments.

Participants gained a deeper understanding of how EDA tools play a critical role in the design, simulation, and verification of integrated circuits (ICs), and how these tools contribute to reducing time-to-market in the semiconductor industry. Special emphasis was laid on current industry demands, the importance of skill development in EDA platforms, and emerging career opportunities in the VLSI and semiconductor sectors.

Throughout the lecture, students engaged actively by posing thoughtful questions and discussing practical design challenges. The speakers also shared real-life industry case studies and project scenarios to help contextualize the theoretical concepts being discussed. This interactive format helped bridge the gap between classroom learning and practical, real-world applications.

The session concluded with a Q&A segment and a vote of thanks from the department, appreciating the contributions of the guest speakers and emphasizing the importance of continued industry-academia collaboration.

The guest lecture was not only an educational experience but also served as an eye-opener for aspiring engineers eager to pursue careers in semiconductor technology. It reinforced the department's dedication to providing students with cutting-edge knowledge and exposure to industry-relevant tools and practices.



## 11 November 2025 Celebrating National Education Day 2024

Department of Electronics & Communication Engineering, GL Bajaj Institute of Technology and Management, Greater Noida in collaboration with Institution' Innovation Council (IIC) GLBITM celebrated "National Education Day" on 11th November, 2024.

National Education Day is celebrated in India every year on November 11 to commemorate the birth anniversary of Maulana Abul Kalam Azad, the first Education Minister of independent India. The day honors his contributions to shaping the nation's education system and promoting the importance of knowledge and learning. Schools, colleges, and institutions across the country organize seminars, essay competitions, and debates to highlight the significance of education in national development. The celebration also emphasizes the need for inclusive and equitable education to empower every citizen, reflecting Maulana Azad's vision for a progressive India.

The keynote speaker was Dr. Prateek Agarwal, Professor, Bundelkhand University, Jhansi. He briefed the audience about the journey and contribution of Maulana Abul Kalam Azad. He stated that Maulana Azad was a firm believer in inclusive education, urging that every child, regardless of gender, caste, or religion, has a right to learn and grow. Azad ji once said, "Education imparted by heart can bring revolution in the society." These words remind us of the transformative power of education in shaping not just individuals but the future of an entire nation. Dr. Krishanu Kundu (Associate Professor, ECE) coordinated the whole event under the supervision of Prof. Dr. Satyendra Sharma (Professor & HOD, ECE). Around 80 students of ECE Department participated in the event.



## 27 August 2025

### 5G Workshop under Capgemini MOU

The Department of Electronics and Communication Engineering at G.L. Bajaj Institute of Technology and Management, Greater Noida, successfully conducted a highly impactful workshop on 5G technology from August 27 to September 5, 2024. The workshop was organized under the Capgemini Memorandum of Understanding (MoU), which supports advanced technical training and skill development initiatives. The sessions were led by Mr. Sanjay Nokhla, a seasoned expert in telecommunications and next-generation network systems, who provided in-depth insights and shared valuable industry knowledge with the participants. Over the course of nine days, the workshop offered a thorough understanding of mobile communication technologies, tracing the evolution from 2G through 3G and 4G to the current advancements in 5G. The program delved into the architecture and functioning of 5G Radio Access Network (RAN), along with the concept of Telco Cloud and its application in modern telecom infrastructure. Participants were also introduced to cutting-edge innovations such as network slicing and were given practical exposure through the use of a virtual 5G lab.

These sessions combined theoretical learning with hands-on experience, creating an immersive and engaging environment that significantly enriched the students' technical competencies. The workshop drew enthusiastic participation from the 2021–2025 batch of ECE students, who responded with great interest and curiosity. The interaction between the expert and the students was dynamic, with multiple discussions, real-time problem-solving, and practical demonstrations reinforcing the concepts taught. The success of the workshop was further underscored by a significant achievement: the selection of 21 students from the batch in areas related to 5G network technology. This outcome not only reflects the effectiveness of the training but also highlights the department's commitment to bridging the gap between academic learning and industry requirements.

This initiative marked a significant step toward empowering students with industry-relevant skills and reinforcing the importance of technical excellence in a rapidly evolving digital world. It also reaffirmed the value of institutional collaborations such as the one with Capgemini, which continue to play a vital role in enhancing the employability and readiness of engineering graduates.



20 June 2024  
Industry Visit to Pigeon India

On 20 June 2024 Department of Electronics & Communication Engineering with the help of Bureau of Indian Standards (BIS), Government of India planned an industry visit at PIGEON INDIA PVT.LTD, Sec-40 Greater Noida, GB Nagar-UP for providing an in-depth of knowledge & skill to the students. Total 10 students were short listed based on their merit and attendance in the class. The main aim of BIS was to educate students that the role of an Electronics equipment is vital in checking the quality of a baby products. The feeding bottle made for a newborn baby are so sensitive that there is no compromise in quality even human error occur in a product. The role of sensors provides an automation and the human error is totally minimized in a product. The approval is provided by Government of India Immediately after the product is tested. The step of manufacturing and quality assurance were taught by technology head of Pigeon India Pvt.Ltd. Transportation and fooding is also provided by Bureau of Indian Standards (BIS) Government of India to our students.



27 May 2024  
A VISIT TO WORLD TRADE CENTRE

On May 7, 2024, the Department of Electronics and Communication Engineering organized an industrial visit to the World Trade Centre (WTC), where students had the valuable opportunity to explore VIVO, a renowned smartphone manufacturing unit.

The visit provided students with deep insights into the latest procedures involved in assembling cellular smartphones. They were introduced to the state-of-the-art facilities available at the unit, the step-by-step methods of assembling mobile components, and the use of specialized equipment for production, storage, and packaging.

This educational experience significantly enriched the students' understanding of modern smartphone manufacturing technologies. In addition to technical learning, the visit also emphasized the importance of industry standards, maintenance practices, and ethical values upheld by the company, helping students relate their academic knowledge with practical industrial operations.



## Editorial Board

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

**Editors** : **Dr. Dinesh Singh - Professor**

: **Dr. Shilpa Choudhary - Associate Professor**

## 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 (PEOs)

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