2024-25

Babu Banarasi Das Institute of Technology & Management

AKTU College Code - 054

Department of ELECTRONICS & COMMUNICATION ENGINEERING

NATIONAL BOARD OF ACCREDITATION

A NBA ACCREDITED DEPARTMENT

ECE NEWSLETTER

VOLUME I, DEC-2024

(2024 - 2025)

BABU BANARASI DAS
Institute of Technology & Management, Lucknow
Department of Electronics & Communication Engineering

Newsletter
DEC, 2024
Volume I
2024-25

VISION OF INSTITUTE

"To become a leading institute of providing professionally competent and socially responsive technocrats with high moral values"

MISSION OF INSTITUTE

M1: To create an eco-system for the dissemination of technical knowledge, to achieve academic excellence.
M2: To develop technocrats with creative skills and leadership qualities, to solve local and global challenges.
M3: To impart human values and ethics in students, to make them socially and Eco-friendly responsible.

VISION OF DEPARTMENT

"To emerge as a globally recognized center of excellence in engineering education, fostering innovation, ethical values, entrepreneurial spirit and leadership qualities to create professionals who contribute meaningfully to society and industry"

MISSION OF DEPARTMENT

M1: To achieve global standards of excellence through continuous synchronization with the latest technologies and innovation.
M2: To adopt effective pedagogical methods that bridge theoretical concept with practical applications for deeper understanding.
M3: To inculcate professional ethics, self learning abilities, entrepreneurial skills and leadership qualities for holistic professional success.

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

PEO 1: Graduate of the program shall be adaptive to emerging technologies to pursue their career in hardware and software industry.

PEO 2: Graduate of the program shall have technical excellence to augment their proficiency towards higher education and progress in research.

PEO 3: Graduate of the program shall have professional and ethical attitude to uphold team work skills and multidisciplinary approach.

PROGRAM SPECIFIC OUTCOMES (PSOs)

PSO 1: In depth theoretical & practical knowledge of modern engineering in electronic circuitry.

PSO 2: Design and analyze modern communication systems to meet the present and future needs of industry with cost effective solutions.

DIRECTOR'S MESSAGE-

I appreciate the efforts and hard work of the faculty/staff and students in bringing out this volume (Session 2024-25) of the departmental newsletter.

It is a matter of great pride that the ECE department has made outstanding progress in academic as well as extra-curricular activities.

I congratulate all the contributors and editorial team for bringing out such an outstanding newsletter.

My best wishes to the team and the readers for achieving new heights.

Prof (Dr.) Shailendra Singh Chauhan
DIRECTOR
BBDITM

HOD'S MESSAGE-

As a part of continuous teaching and learning process, the department of Electronics and Communication Engineering is pleased to announce the Newsletter for session 2024-25. The departmental newsletter once again highlights the efforts that the department is making for the overall expertise and value addition of its all stakeholders.

We are a NBA Accredited Department and to keep up the same momentum from all of us towards the outstanding work, looking forward to the upcoming semester with lots of expectations.

With Best Wishes

Prof (Dr.) Shailendra Tahilyani
HOD (EC)
BBDITM

EDITOR'S MESSAGE-

Dear Readers,

The ECE department is achieving excellence in shaping the personality of our students through hosting a number of co-curricular and extracurricular activities. This Newsletter (Vol 1, 2024-25) of Electronics and Communication Engineering Department, BBDITM is a consolidated picture of all the departmental activities in the last semester.

We tried our best to make sure that the newsletter represents all the departmental achievements/activities which happened to strengthen our departmental vision.

Thanks & Regards

Mr. Pankaj Verma
Assistant Professor
ECE, BBDITM

➢ EVENT ORGANIZED @ ECE DEPARTMENT

1. Circuit Hackathon

Objective of the event: -

1. The objective of organizing this event is to celebrate the Engineers Day and understand the role of significant contributions of engineers to the society.
2. To test out the skills of engineers to in circuits design.

Benefits in terms of Learning/ Skill/ Knowledge Obtained: -

The basic learning from the event was that students got to learn the working of various circuits on breadboard and to explore about the circuit designs.

Glimpses of Event:

2. Lecture on Strategies to Enhance the Project Quality

Event Summary:-

The Department of Electronics & Communication Engineering in collaboration with IIC and IETE has successfully organized an expert lecture on **"Strategies to enhance the Project Quality"** on 08/10/2024 for students of ECE and IT of BBDITM. This event was organized under the guidance of Director BBDITM **Prof. (Dr.) Shailendra Singh Chauhan** and Head of Department **Prof. (Dr.) Shailendra Tahilyani,** with a message of improving the quality of the project.

The important points regarding project quality enhancement were discussed by Director Sir. The discussed points in the session were on developing quality project requires navigating numerous challenges: assembling a competent team, defining clear goals, setting timelines, and, most importantly, ensuring effective project performance and taking the developed product for getting it patented and the try to move towards setting up startup and business. Session was concluded with glimpses of various innovators achievements.

Objective of the event: -

The objective of organizing this event was to engage the final year students towards their project quality enhancement.

Benefits in terms of Learning/ Skill/ Knowledge Obtained: -

The basic learning from the event was on the strategies defined towards the development of a quality project which intern is to be converted into a product.

Glimpses of Event:

Student Participants Lecture On Strategi

3. Participation on National Space Day Celebration

Event Summary:-

Department of Electronics and Communication, BBDITM under the guidance of our respected Head of Department Prof. (Dr.) Shailendra Tahilyani **,** the students prepared and participated in **Quiz on Indian Space history** held on August 08, 2024.

In this Space Day celebration event, the models of Chandrayaan-3 Lander, Indian Deep Space Antenna, Crew Module, Resource Satellite, Crew Engine, Mars Orbiter Mission Scale, GSAT, Astrosat, GSLV, PSLV, Aryabhata satellite and other astronomical instruments were displayed.

The children were engaged in conversations with ISRO scientists about space and their missions, with many expressing a desire to become space scientists themselves. ISRO highlighted that India's successful landing on the moon is celebrated nationwide as 'Space Day'. ISRO praised the achievement for demonstrating India's space capabilities to the world and about the perseverance following the partial failure of Chandrayaan-2. Despite its 99% success, the soft landing wasn't achieved, but continuous efforts led to the successful landing of Chandrayaan-3. ISRO encouraged the students to learn from failures, emphasizing that perseverance and addressing shortcomings lead to success.

Objective of the event: -

The objective of organizing this event was to engage and inspire the youth towards space technology and its applications.

Benefits in terms of Learning/ Skill/ Knowledge Obtained: -

The basic learning from the event was to recognize the significant achievements in space exploration and highlights advancements in space technology. The day is dedicated to inspiring future generations by generating interest in space science and technology among students and providing them with role models.

Glimpses of Event:

4. **Group Discussion on Human and Artificial Intelligence:**

Overall Event Summary:-

The Department of Electronics & Communication Engineering in collaboration with **IIC, IETE** and **FORCE (Departmental Club)** has successfully organized a group discussion on **"Human and Artificial Intelligence"** on 21/10/2024 for students of ECE under the guidance of Head of Department Prof. (Dr.) Shailendra Tahilyani, with a message to have technical knowledge of the topic which is in high demand in current scenario. Students had participated in the event and discussed the pros and cons of Human Vs Artificial Intelligence. AI can be seen everywhere from robotic manufacturing lines churning out perfect products with maximum efficiency to trading algorithms transforming markets overnight and its use is very much prevalent in technological world. Artificial intelligence is evolving with every passing day. New innovations by using AI are making our lives simpler but it is also a reason for human degradation.

Objective of the event: -

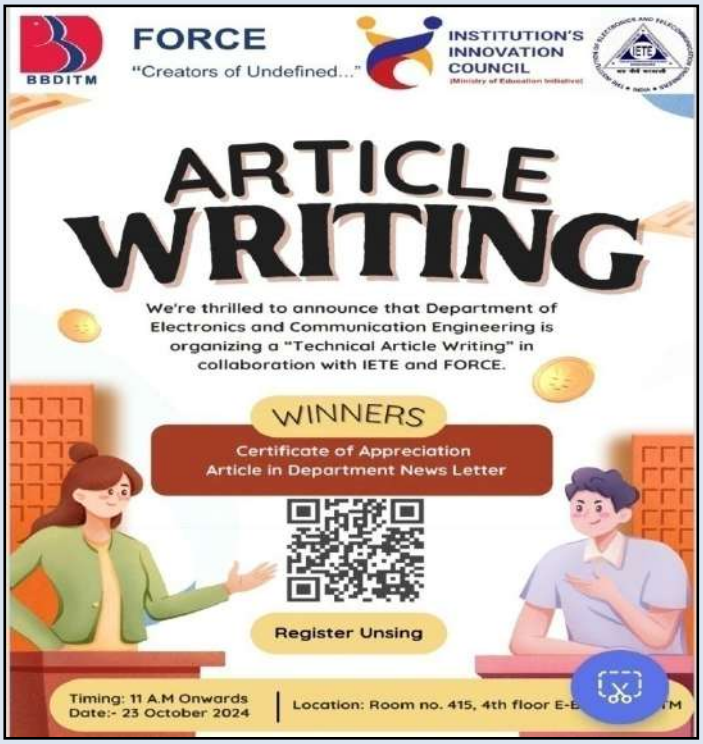
The objective of organizing this event was to honor the birth anniversary of former President of India, Missile Man of India, Dr. APJ Abdul Kalam and to engage the students in critical thinking, decision-making, and enhanced productivity by innovative ideas.

Benefits in terms of Learning/ Skill/ Knowledge Obtained: -

The basic learning from the event was that students remained updated with topics which are currently in demand and learned the utility of various aspects of Artificial Intelligence in Innovations. It helps them prepare themselves for their future career. The take away from the event was that the students were aware of the pros and cons of artificial intelligence. Ethical use of AI for various applications should have various check points at different stages.

Glimpses of Event:

5. Technical Article writing competition :



Event Summary:-

The Department of Electronics & Communication Engineering in collaboration with **IIC, IETE** and **FORCE (Departmental Club)** has successfully organized **"Technical Article Writing"** competition on 23/10/2024 for students of ECE under the guidance of Head of Department Prof. (Dr.) Shailendra Tahilyani, with a message to convey complex information in a simple manner. The purpose of technical documentation is to improve the skills of students for their future endeavors.

Total 20 students have participated in the events on various technical topics.

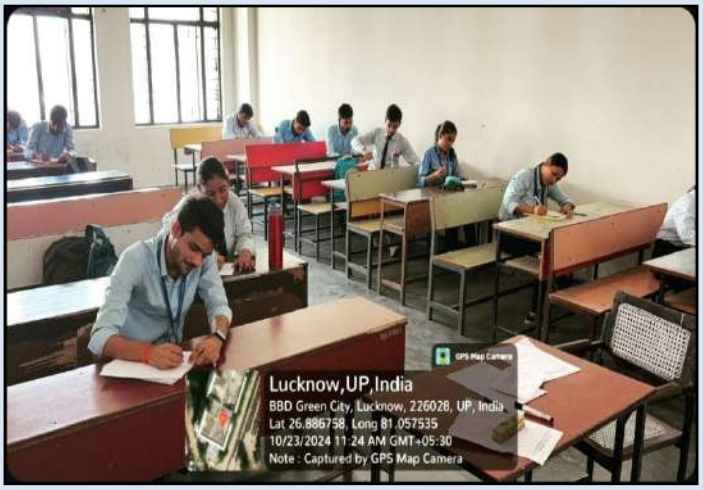
Objective of the event: -

The objective of organizing this event is to enhance the student's ability to think and organize the content in an articulated manner and to convey any thoughts to the people in simple form.

Benefits in terms of Learning/ Skill/ Knowledge Obtained: -

The basic learning from the event was that students remain updated with topics which are currently in demand from their career perspectives.

Glimpses of Event :



Result: - Total 20 students participated in the event. It helps the student to improve their creative thinking and technical writing skills.

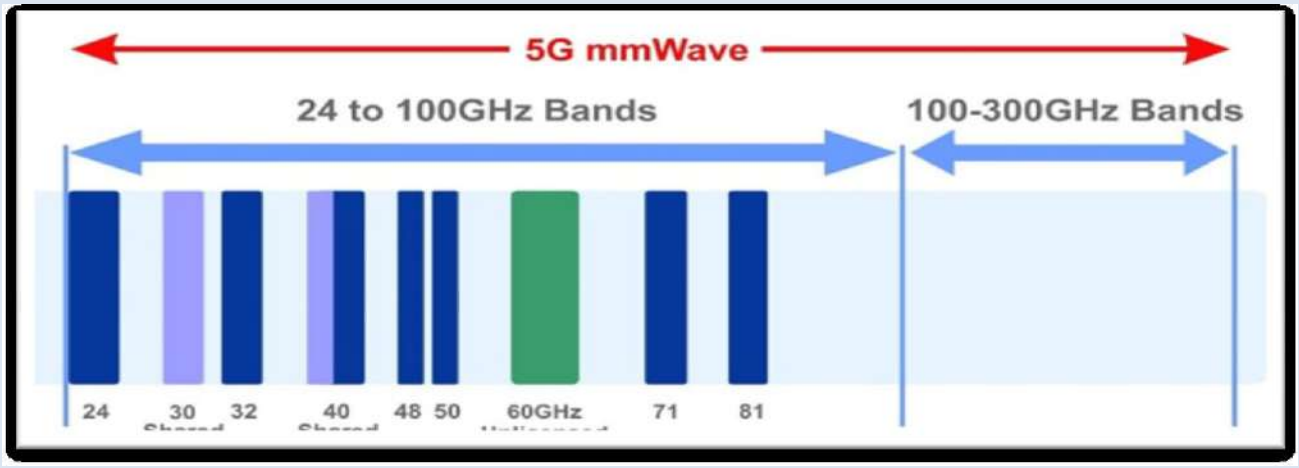
S. No.	Name of Student	University Roll No	YEAR	POSITION
1.	Anshika Mishra	2200540310010	3rd Year / 5th Sem	FIRST
2.	Sambhavi Singh	2300540310043	2nd Year / 3rd Sem	SECOND
3.	Saumya Maurya	2300540310040	2nd Year / 3rd Sem	THIRD

➢ FACULTY CORNER :

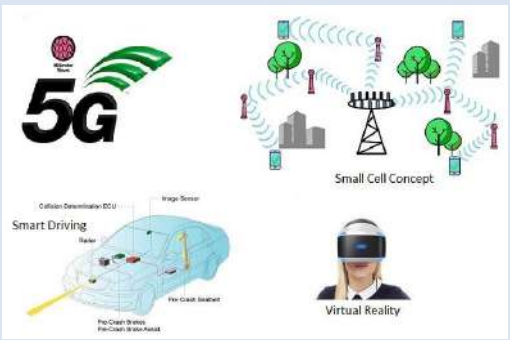
❖ 5G mmWave Technolog:

What is 5G mmWave Technology?

5G mmWave technology utilizes high-frequency millimeter waves (24-100 GHz) to deliver ultra-fast data speeds and low latency. It supports high-capacity networks ideal for dense urban areas but has a limited range and weaker penetration through obstacles. It's pivotal for advanced applications like virtual reality and high-definition streaming.



How mmWave differs from Sub-6 Ghz frequencies?



5G mmWave technology operates at high frequencies (24-100 GHz), delivering extremely fast data speeds and low latency compared to other 5G frequency bands. It excels in providing high-capacity networks suitable for dense urban areas but has a shorter range and less effective penetration through obstacles like buildings. In contrast, sub-6 GHz frequencies, which are lower than 6 GHz, offer broader coverage and better penetration but deliver lower data speeds and higher latency. While mmWave supports high-speed applications such as virtual reality and 4K streaming, sub-6 GHz frequencies are more suitable for wider area coverage and consistent connectivity in less dense environments.

Applications of 5G mm wave technology

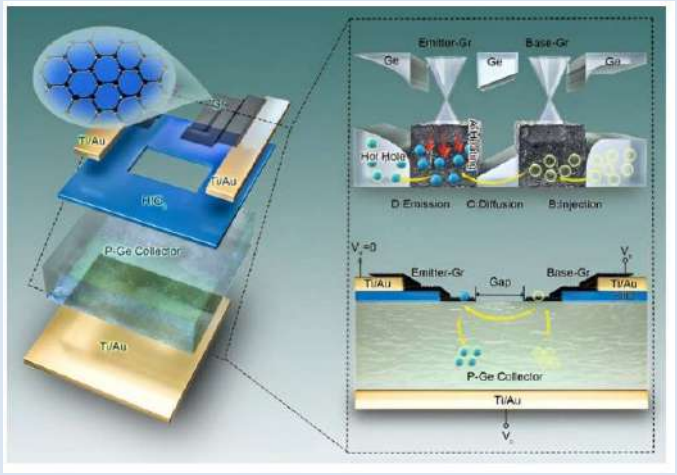
5G mm Wave technology delivers ultra-fast data speeds and low latency, enabling applications like high-definition video streaming, augmented and virtual reality, smart city infrastructure, industrial automation, remote healthcare, and advanced public safety systems. Its high capacity supports dense IoT networks and high-speed internet in crowded urban areas.

Ms. Keerti Mishra
Assistant Professor
Electronics & Communication Engineering

❖ A Review on Transistor Technology With Hot Carrier Generation Mechanism :

Utilizing low-dimensional materials like graphene, the team developed a hot-emitter transistor with good performance metrics, offering multiple applications for future high-performance, low-power devices in the post-Moore era.

A research team from the Institute of Metal Research (IMR) at the Chinese Academy of Sciences has introduced a new mechanism for generating hot carriers, termed stimulated emission of heated carriers (SEHC). The team also developed a hot-emitter transistor (HOET) that achieves an ultralow sub-threshold swing of less than 1 mV/dec and a peak-to-valley current ratio exceeding 100. This research provides a prototype for a low-power, multifunctional device suitable for the post-Moore era.



Low-dimensional materials, such as graphene, present opportunities for developing new hot carrier transistors due to their atomic thickness, electrical and optical properties, and defect-free surfaces. These materials can easily form hetero-structures with other substances, offering diverse energy band combinations. The researchers created a hot-emitter transistor by combining graphene with germanium, leading to a novel mechanism for hot carrier generation. The transistor features two coupled graphene/germanium Schottky junctions. During operation, germanium injects high-energy carriers into the graphene base, which then diffuse to the emitter, causing a significant current increase due to the preheated carriers. The sub-threshold swing of less than 1 mV/dec surpasses the conventional Boltzmann limit of 60 mV/dec.

The transistor demonstrates a peak-to-valley current ratio exceeding 100 at room temperature. These characteristics indicate potential for multi-valued logic computing, showcasing broad prospects for future high-performance, low-power, multifunctional devices. The team claimed this research adds a valuable component to the family of hot carrier transistors, indicating promising applications in future devices.

Mr. Ravi Shankar
Assistant Professor
Electronics & Communication Engineering

➢ STUDENT CORNER :

❖ The Rising Role of Solar Energy in Powering Future Technologies

In the race toward a more sustainable and technologically advanced future, solar energy is emerging as a key player. Once considered a niche power source, solar energy has now grown into a cornerstone of clean energy solutions, fuelling innovations across multiple sectors. Among the most promising areas of development is electric vehicle (EV) charging stations, decentralized power systems, and smart grid technologies.

Solar Energy and Electric Vehicle (EV) Charging Stations

As the world shifts away from fossil fuels, electric vehicles are rapidly becoming the new standard. However, the environmental benefits of EVs can be undermined if the electricity used to charge them is derived from coal or natural gas. This is where solar energy steps in.

Solar-powered EV charging stations are now being installed across cities and highways, offering a clean and renewable way to power vehicles. These stations typically feature solar panels mounted on canopies that provide shade while generating electricity. The integration of solar power reduces the carbon footprint of EVs and lowers operational costs for charging station operators. Some advanced setups also include battery storage systems, allowing energy collected during the day to be used at night or during cloudy weather.

Applications of solar energy

Solar Micro grids and Decentralized Energy Systems

One transformative application of solar energy is in micro grids—small, self-sustaining energy systems that can operate independently or in conjunction with the main power grid. These systems are particularly beneficial in remote areas where traditional infrastructure is lacking.

By combining solar panels with battery storage and smart management systems, micro grids offer reliable, low-cost electricity to homes, businesses, and even entire communities. This decentralization empowers users to take control of their energy needs and reduces dependency on centralized power plants, many of which still rely on fossil fuels.

Smart Homes and Solar Integration

The smart home revolution is also leveraging solar energy for efficient and intelligent energy use. Solar panels paired with home energy management systems allow homeowners to monitor energy production and consumption in real-time. Excess solar power can be stored in home batteries or even sold back to the grid in some regions, creating a dynamic and interactive energy ecosystem. Picture

Moreover, with the rise of Internet of Things (IoT) devices, solar-powered sensors and gadgets are becoming increasingly common. These low-power devices can operate entirely on solar energy, reducing the need for wiring and maintenance, especially in remote or outdoor applications.

Solar in Agriculture and Industry

In agriculture, solar energy is being used to power irrigation systems, drones, and automated machinery, contributing to smarter, more efficient farming practices. Industrial sectors are also adopting solar solutions for onsite energy production, helping to cut costs and emissions in manufacturing processes.

The Road Ahead

As technological advancements continue to drive down the cost of solar panels and improve their efficiency, the integration of solar energy into emerging technologies will only accelerate. Innovations like transparent solar panels, flexible solar fabrics, and solar-powered public infrastructure are already in the pipeline.

The synergy between solar energy and future technologies marks a significant step toward a greener, more resilient world. By tapping into the sun's unlimited potential, we can power not just our homes and cars, but the very future of innovation itself.

Shreya Dwivedi
2100540310028
EC4

❖ Biomedical Electronics: Bridging Engineering And Healthcare

Biomedical Electronics is an interdisciplinary domain that combines *electrical engineering*, *materials science*, and *medical technology* to improve healthcare delivery. It focuses on the design and of electronic systems that can diagnose, monitor, and treat diseases. With the rising importance of precision medicine and early diagnosis, biomedical electronics is emerging as a critical area of research and application.

Core Technologies Driving Innovation Wearable

Technologies such as the ***Apple Watch Series 9***and***Fitbit Charge*** use ECG sensors, SpO_2 monitors, and low-power micro-controllers for continuous health tracking. In medical imaging, devices like ***GE Revolution CT*** and ***Philips EPIQ*** *Ultrasound* employ high-frequency transducers and DSPs for high-resolution scans. Implantable devices have redefined treatment. The ***Medtronic Micra*** pacemaker, the *world's smallest pacemaker* uses miniaturized circuits and biocompatible electrodes to regulate cardiac rhythm. ***Abbott's Free Style Libre glucose monitor*** employs electrochemical biosensors for painless, real-time glucose readings. Neuro electronic systems like *Boston Scientific's Vercise DBS* provide programmable brain stimulation for Parkinson's disease, showing how electronics can interface with the nervous system.

Real-World Applications in Diagnosis and Therapy

At the core are **CMOS** sensors, **MEMS** *accelerometers*, *low-noise amplifiers*, **ADCs**, and wireless modules that enable miniaturization and connectivity. Future devices may adopt graphene transistors for ultrafast bio signal processing, flexible substrates for biocompatibility, and energy-harvesting circuits to eliminate bulky batteries.

India's Breakthroughs in Affordable Healthcare Technologies

India has made remarkable strides in biomedical electronics, emphasizing *low-cost, high-impact innovations*. Devices like ***Cardio Track*** (portable ECG systems), ***3nethra*** (ophthalmic screening tool), and ***SwasthVayu***(non-invasive ventilator) demonstrate the fusion of embedded systems, sensors, and imaging electronics for accessible healthcare. With initiatives like *"Make in India"* and the National Digital Health Mission, India is advancing towards *AI-integrated biosensors*, *IoT-enabled wearables*, and *telemedicine platforms*, positioning itself as a global hub for affordable biomedical technologies.

Future Horizons: AI, IoT, and Personalized Medicine

The future of biomedical electronics lies in the integration of *AI*, *IoT*, and *personalized medicine*, enabling smarter diagnostics, remote monitoring, and patient-specific treatments. Emerging fields like *wearable biosensors* and *neuro-electronics* promise revolutionary healthcare delivery. In conclusion, biomedical electronics continues to bridge technology and medicine, with nations like India driving affordable, scalable innovations that position the field as a cornerstone of global healthcare advancement.

Sayyed Sania
2200540310040
EC3

CONGARULATIONS

Congratulations to following students for their exceptional performance in end semester exam ***Dr. APJ Abdul Kalam Technical University*** *Examination,* ***Even Semester 2023-24***

YEAR	UNIVERSITY ROLL NO.	STUDENT NAME	III SEM SGPA
EC 2nd Year	2200540310012	APARNA TIWARI	8.52
	2200540310040	SAYYED SANIA	8.52
	2200540310026	NIHARIKA ANAND	8.52
	2200540310047	TARUN TIWARI	8.22
	2200540310010	ANSHIKA MISHRA	8.22

YEAR	UNIVERSITY ROLL NO.	STUDENT NAME	III SEM SGPA
EC 3rd Year	2100540310017	MOHD ZAID	7.76
	2100540310009	AYUSH	7.62
	2100540310016	MD TAHIR	7.38
	2100540310010	AYUSH SRIVASTAVA	7.05
	2100540310013	GARIMA YADAV	7.05

YEAR	UNIVERSITY ROLL NO.	STUDENT NAME	III SEM SGPA
EC 4th Year	2000540310013	DIPIKA SRIVASTAVA	8.93
	2000540310019	JANHAVI SRIVASTAVA	8.64
	2000540310003	AGHA HAYAAT FATMA	8.33
	2000540310026	NISHI PANDEY	8.27
	2000540310004	AMIT DIXIT	8.12

➢ FDP attended / Patent / Research Paper published by faculty members-

Prof. (Dr.) Shailendra Tahilyani
Professor & HOD
Electronics & Communication Engineering

Events Attended:

[1] Participated in one week **FDP** on topic "Generative AI" organized by Department of Electronics and Communication Engineering and Electrical Engineering, BBDNIIT, Lucknow during 29 Apr - 03 May 2024.
[2] Participated in one week **FDP** on topic "Future Trends and Design Challenges in 5G/6G Wireless technologies" organized by Department of ECE, Vel Tech Multi Tech Dr. Rangarajan Dr.Sakunthala Engineering College, Avadi, Chennai during 18-23 Nov 2024.

Dr. Rupali Agarwal
Associate Professor
Electronics & Communication Engineering

Events Attended

[1] Participated in one week **FDP** on topic "Design and Development of Biomedical Antennas" organized by Department of ECE, KIET Group of Institutions, Delhi-NCR, Ghaziabad during 22-28 July 2024.

[2] Participated in one week **FDP** on topic "Communication, Signal Processing and Recent Technologies for Different Applications" organized by Department of ECE, BBIT Kolkata during 22-28 Oct 2024.

[3] Participated in one week **FDP** on topic "Future Trends and Design Challenges in 5G/6G Wireless technologies" organized by Department of ECE, Vel Tech Multi Tech Dr. Rangarajan Dr.Sakunthala Engineering College, Avadi, Chennai during 18-23 Nov 2024.

Achievements

[1] Received **Appreciation Later** from Director, BBDITM for excellent performance and innovative teaching style in academics for Even Semester session 2023-24

[2] Session Chair in IEEE International conference (CCTES-24) held at integral University, Lucknow on 15-16 November 2024.

Mr. Pankaj Verma
Assistant Professor
Electronics & Communication Engineering

Events Attended

[1] Participated in one week **FDP** on topic "Design and Development of Biomedical Antennas" organized by Department of ECE, KIET Group of Institutions, Delhi-NCR, Ghaziabad during 22-28 July 2024.

[2] Participated in one week **FDP** on topic "Communication, Signal Processing and Recent Technologies for Different Applications" organized by Department of ECE, BBIT Kolkata during 22-28 Oct 2024.

[3] Participated in one week **FDP** on topic "Future Trends and Design Challenges in 5G/6G Wireless technologies" organized by Department of ECE, Vel Tech Multi Tech Dr. Rangarajan Dr.Sakunthala Engineering College, Avadi, Chennai during 18-23 Nov 2024.

Mr. Amit Kumar Singh
Assistant Professor
Electronics & Communication Engineering

Events Attended

[1] Participated in one week **FDP** on topic "Design and Development of Biomedical Antennas" organized by Department of ECE, KIET Group of Institutions, Delhi-NCR, Ghaziabad during 22-28 July 2024.

[2] Participated in one week **FDP** on topic "Communication, Signal Processing and Recent Technologies for Different Applications" organized by Department of ECE, BBIT Kolkata during 22-28 Oct 2024.

[3] Participated in one week **FDP** on topic "Future Trends and Design Challenges in 5G/6G Wireless technologies" organized by Department of ECE, Vel Tech Multi Tech Dr. Rangarajan Dr.Sakunthala Engineering College, Avadi, Chennai during 18-23 Nov 2024.

Dr. Abhimanyu Kumar Yadav

Associate Professor & DI

Electronics & Communication Engineering

Events Attended

[1] Participated in one week **FDP** on topic "Design and Development of Biomedical Antennas" organized by Department of ECE, KIET Group of Institutions, Delhi-NCR, Ghaziabad during 22-28 July 2024.
[2] Participated in one week **FDP** on topic "Communication, Signal Processing and Recent Technologies for Different Applications" organized by Department of ECE, BBIT Kolkata during 22-28 Oct 2024.
[3] Participated in one week **FDP** on topic "Future Trends and Design Challenges in 5G/6G Wireless technologies" organized by Department of ECE, Vel Tech Multi Tech Dr. Rangarajan Dr.Sakunthala Engineering College, Avadi, Chennai during 18-23 Nov 2024.

Mr .Navneet Kumar Pandey

Assistant Professor

Electronics & Communication Engineering

Events Attended

[1] Participated in one week **FDP** on topic "Design and Development of Biomedical Antennas" organized by Department of ECE, KIET Group of Institutions, Delhi-NCR, Ghaziabad during 22-28 July 2024.
[2] Participated in one week **FDP** on topic "Communication, Signal Processing and Recent Technologies for Different Applications" organized by Department of ECE, BBIT Kolkata during 22-28 Oct 2024.
[3] Participated in one week **FDP** on topic "Future Trends and Design Challenges in 5G/6G Wireless technologies" organized by Department of ECE, Vel Tech Multi Tech Dr. Rangarajan Dr.Sakunthala Engineering College, Avadi, Chennai during 18-23 Nov 2024.

Mr. Diwakar Singh

Assistant Professor

Electronics & Communication Engineering

Events Attended

[1] Participated in one week **FDP** on topic "Design and Development of Biomedical Antennas" organized by Department of ECE, KIET Group of Institutions, Delhi-NCR, Ghaziabad during 22-28 July 2024.
[2] Participated in one week **FDP** on topic "Communication, Signal Processing and Recent Technologies for Different Applications" organized by Department of ECE, BBIT Kolkata during 22-28 Oct 2024.

[3] Participated in one week **FDP** on topic "Future Trends and Design Challenges in 5G/6G Wireless technologies" organized by Department of ECE, Vel Tech Multi Tech Dr. Rangarajan Dr.Sakunthala Engineering College, Avadi, Chennai during 18-23 Nov 2024.

Mr. Ravi Shankar

Assistant Professor

Electronics & Communication Engineering

Events Attended

[1] Participated in one week **FDP** on topic "Design and Development of Biomedical Antennas" organized by Department of ECE, KIET Group of Institutions, Delhi-NCR, Ghaziabad during 22-28 July 2024.

[2] Participated in one week **FDP** on topic "Communication, Signal Processing and Recent Technologies for Different Applications" organized by Department of ECE, BBIT Kolkata during 22-28 Oct 2024.

[3] Participated in one week **FDP** on topic "Future Trends and Design Challenges in 5G/6G Wireless technologies" organized by Department of ECE, Vel Tech Multi Tech Dr. Rangarajan Dr.Sakunthala Engineering College, Avadi, Chennai during 18-23 Nov 2024.

Mr. Kishan Kumar

Assistant Professor

Electronics & Communication Engineering

Events Attended / Paper Published

[[1] Participated in one week **FDP** on topic "Design and Development of Biomedical Antennas" organized by Department of ECE, KIET Group of Institutions, Delhi-NCR, Ghaziabad during 22-28 July 2024.

[2] Participated in one week **FDP** on topic "Communication, Signal Processing and Recent Technologies for Different Applications" organized by Department of ECE, BBIT Kolkata during 22-28 Oct 2024.

[3] Participated in one week **FDP** on topic "Future Trends and Design Challenges in 5G/6G Wireless technologies" organized by Department of ECE, Vel Tech Multi Tech Dr. Rangarajan Dr.Sakunthala Engineering College, Avadi, Chennai during 18-23 Nov 2024.

[4] General Scopes paper title "Artificial Intelligence Based Fast DC Charging Control of Electric Vehicles in Standalone Mode Involving Multiple Renewable Energy Resources" International Journal on Energy Conversion (I.R.E.CON.), Vol. 12, N. 4 July 2024, ISSN 2281-5295

Ms. Keerti Mishra
Assistant Professor
Electronics & Communication Engineering

Events Attended

[1] Participated in one week **FDP** on topic "Design and Development of Biomedical Antennas" organized by Department of ECE, KIET Group of Institutions, Delhi-NCR, Ghaziabad during 22-28 July 2024.

[2] Participated in one week **FDP** on topic "Communication, Signal Processing and Recent Technologies for Different Applications" organized by Department of ECE, BBIT Kolkata during 22-28 Oct 2024.

[3] Participated in one week **FDP** on topic "Future Trends and Design Challenges in 5G/6G Wireless technologies" organized by Department of ECE, Vel Tech Multi Tech Dr. Rangarajan Dr.Sakunthala Engineering College, Avadi, Chennai during 18-23 Nov 2024.

Mr. Rajeev Singh
Assistant Professor & DI
Electronics & Communication Engineering

Events Attended

[1] Participated in one week **FDP** on topic "Design and Development of Biomedical Antennas" organized by Department of ECE, KIET Group of Institutions, Delhi-NCR, Ghaziabad during 22-28 July 2024.

[2] Participated in one week **FDP** on topic "Communication, Signal Processing and Recent Technologies for Different Applications" organized by Department of ECE, BBIT Kolkata during 22-28 Oct 2024.

[3] Participated in one week **FDP** on topic "Future Trends and Design Challenges in 5G/6G Wireless technologies" organized by Department of ECE, Vel Tech Multi Tech Dr. Rangarajan Dr.Sakunthala Engineering College, Avadi, Chennai during 18-23 Nov 2024.

EDITORIAL BOARD

Prof. (Dr.) Shailendra Tahilyani
(Professor & Head)

Mr. Pankaj Verma
(Assistant Professor)

Student Coordinators
Mukesh Sharma
Anuradha Yadav
Sanjay Gupta
Anshika Mishra

"Excellence is a continuous process and not an accident."

– Dr. A.P.J Abdul Kalam

WORDS OF THANKS

We are highly thankful to every member for their dedications and hard work. It is the team work that made this Newsletter possible. We on behalf of our team would also like to express our gratitude towards our readers.

THANK YOU