

2024-25

 Babu Banarasi Das Institute of Technology & Management
AKTU College Code - 054



ANBA ACCREDITED DEPARTMENT



ECE NEWSLETTER
VOLUME II, JUNE-2025
(2024 - 2025)





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 students, faculty and staff members of Electronics and Communication Engineering department for another newsletter showcasing their overall academic achievements.

I congratulate all the contributors and editorial team for such amazing departmental Newsletter.

Keep it up the good work and try to achieve the targets for upcoming academic session.

My best wishes to the team for achieving new heights.

Prof (Dr.) Shailendra Singh Chauhan
DIRECTOR

HOD'S MESSAGE-

The departmental newsletter once again highlights the efforts that the department is making for the overall expertise and value addition of its all stakeholders.

As a NBA Accredited Department all of us looking forward to the upcoming semester with lots of expectations.

You all are doing a great job.....keep it up!

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

EDITOR'S MESSAGE-

Dear Readers,

This newsletter (Vol II, 2024-25) of the Department of Electronics and Communication Engineering Department, BBDITM is a consolidated essence of all the departmental activities in the last six months.

We have 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. Project Competition:

Event's Brief:

The Department of Electronics & Communication Engineering in collaboration with **IETE and FORCE** (Departmental Club) has successfully organized **Project Competition** on Feb 11, 2025 in the Department of ECE, BBDITM.

This event was organized under the guidance of respected Head of Department Prof. (Dr.) Shailendra Tahilyani with a message to use the technology to achieve a specific goal, whether it's software development, hardware installation, system integration or network design. The students showcased different projects regarding robotics, line follower, light follower, blind stick etc.

2. Industrial Visit at 'Balram Bottlers, Lucknow'



Event's Brief:

The Department of Electronics & Communication Engineering in collaboration with *Bureau of Indian Standards (BIS)*, **Government of India** has successfully organized an industrial visit for ECE 3rd year students at **Balram Bottlers**, Industrial Area Sarojini Nagar, Lucknow on **March 19, 2025**.

Objective of the event: -

The objective of industrial visit to a water supply company is to offer students a chance to learn how science and technology are applied in the real world to solve essential societal problems like access to clean drinking water. It enhances their understanding of industrial operations, the environment, and offers a practical perspective on their studies.

Outcome of the event: -

The outcome of this industrial visit is that our students learned about the processes used to purify raw water to make it safe for drinking. This includes physical, chemical, and biological methods used to remove contaminants. They were introduced to the various stages of water treatment, such as coagulation, sedimentation, filtration, disinfection, and distribution. In addition, our students were also got an overview of the advanced technologies used in water purification, such as reverse osmosis, ultraviolet (UV) treatment, and advanced filtration techniques.

Events Photographs:



Industrial Visit at Balram Bottlers, Lucknow

➤ **FACULTY CORNER :**

❖ **ELECTRIC VEHICLE CHARGING STATION:**

An electric vehicle, also called an EV, uses one or more electric motors or traction motors for propulsion. An electric vehicle may be powered through a collector system by electricity from off-vehicle sources, or may be self-contained with a battery, solar panels or an electric generator to convert fuel to electricity.

An electric vehicle charging station, also called EV charging station, electric recharging point, charging point, charge point and electronic charging station (ECS) is an element in an infrastructure that supplies electric energy for the recharging of plug-in electric vehicles-including electric cars, neighborhoods electric Vehicles and plug-in hybrids.



Nowadays, energy efficiency is a top priority, boosted by a major concern with climatic changes and by the soaring oil prices in countries that have a large dependency on imported fossil fuels, which leads to the demand of EV charging station in the country.

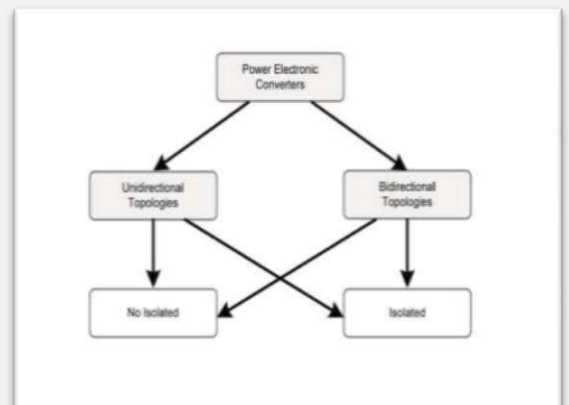
in countries that have a large dependency on imported fossil fuels, which leads to the demand of EV charging station in the country.

Benefits of E-vehicle Charging Station:

- Increase in number of charging stations will boost the selling of EV's as their will be reduced range anxiety.
- It is always great for environment.
- It will boost direct and indirect employment in country.
- Good Opportunity for young entrepreneur to install charging station in their locality.

EV batteries charging system:

This charging system is an AC-DC power circuit that must be controlled in order to respect the vehicles' batteries nominal characteristics to preserve their lifespan. Additionally, it should monitor the batteries during their operation to prevent damages during the charging or discharging processes. The ACDC power circuit can be implemented with different topologies according to the characteristics desired for the system.



Mr. Kishan Kumar
Assistant Professor
Electronics & Communication Engineering

❖ **Energy-Efficient Wireless Chip:**

The chip could improve current electronics and meet the efficiency needs of future 6G technologies.

A new transmitter chip designed by researchers at MIT significantly boosts the energy efficiency of wireless communications, achieving much lower error rates than both traditional and optimal modulation-based systems. The chip could extend battery life and signal range for connected devices, from industrial sensors to smart home appliances.

At the core of the design is a novel modulation scheme that combines adaptive, non-uniform modulation with a clever padding technique. This approach reduces transmission errors while still conserving energy—something conventional systems struggle to balance. Even in noisy environments, the chip maintains consistent message lengths by adding extra bits between data symbols, helping the receiver recognize signal boundaries with clarity.



➤ The chip's reliability stems from a decoding strategy based on GRAND (Guessing Random Additive Noise Decoding), an MIT-developed algorithm. GRAND allows the receiver to identify and remove the added padding, successfully recovering the original message despite varying signal patterns.

➤ Thanks to its compact architecture, the chip leaves room for even more energy-saving enhancements. It has already shown a fourfold reduction in signal error compared to systems using optimal modulation—an unexpected gain for such low-power transmission.

➤ This technology fits neatly into existing IoT devices and can help meet the strict energy demands of future 6G networks. Its flexibility makes it well-suited for applications where energy efficiency and reliability are critical, such as real-time monitoring in factories or continuous updates from smart appliances.

In typical wireless systems, transmitters convert digital bits into radio signals using modulation—often a fixed, evenly spaced symbol pattern. While stable, this traditional method doesn't adapt well to rapidly changing wireless conditions. Adaptive modulation improves efficiency by tailoring symbol patterns to the environment but introduces challenges like increased error rates due to irregular signal lengths.

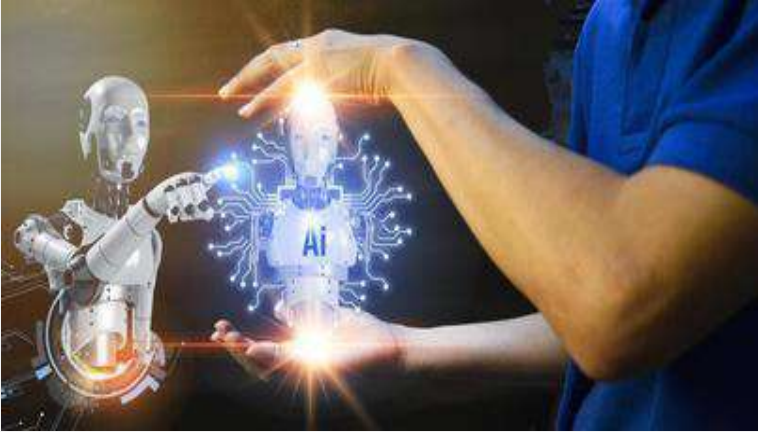
By addressing this issue through equal-length transmissions and robust decoding, MIT's design merges the best of both worlds—adaptive performance with reliable delivery.

Mr. Navneet Kumar Pandey
Assistant Professor
Electronics & Communication Engineering

➤ STUDENT CORNER :

❖ AI: A Powerful Assistant, Not the Master

“AI may be powerful, but imagination, responsibility, and courage belong only to us.”



Artificial Intelligence has quietly woven itself into the fabric of our lives. From classrooms and offices to creative studios, it has become more than just a futuristic concept—it’s now an everyday reality. Yet amid all the fascination and fear surrounding it, one truth stands firm: AI is a helper, not an owner.

Think back to when calculators were first introduced. Many worried they would ruin mathematics, stripping away the need to think. Instead, calculators freed us from mechanical repetition and opened the door to higher problem-solving. AI is today’s equivalent—far more advanced, yes—but at its core, still a tool.

The difference, however, is that AI has crept into areas once thought exclusively human. It filters job applications before managers see them, drafts legal notes within minutes, and even imitates art and music. This raises a pressing question: where do humans still hold an unshakable advantage?

• Where Humans Outperform Machines

- **Judgment and Context** : AI can spot patterns, but it doesn’t understand context. A single word in a contract, or a subtle tone in conversation, might completely change meaning. Humans can weigh culture, ethics, and intent—dimensions machines still can’t process.
- **Common Sense**: Children instinctively avoid touching fire. AI, however, needs endless data to “learn” that. It thrives on repetition but falters when life throws unpredictable, messy situations.
- **True Creativity** : AI generates from what already exists. Humans imagine what has never been. From Leonardo da Vinci’s flying machines to the first moon landing, history is proof that innovation often begins with a spark no dataset could predict.
- **Ethics and Accountability** : AI can recommend a business move, but only humans can answer whether it should be done. Responsibility, morality, and foresight remain uniquely human burdens.

Adapting Wisely

To thrive in this new age, the key is adaptation. That means building AI literacy—understanding its scope without surrendering control. The strongest results come when human qualities like empathy, imagination, and vision work alongside AI’s unmatched speed and efficiency.

The future isn’t humans versus AI. It’s humans with AI. Just as calculators strengthened mathematics, AI can strengthen society—if we keep it in its place.

The Bottom Line

AI is extraordinary. But it is not the thinker, the dreamer, or the decision-maker. It remains what it was designed to be: a tool. The spark of imagination, the weight of responsibility, and the courage to act those belong only to us.

Niharika Anand
2200540310026
EC3

❖ Electric Vehicles: Driving Towards a Greener Future

As the world grapples with the pressing challenges of climate change and environmental degradation, electric vehicles (EVs) have emerged as a promising solution for reducing our carbon footprint. With rising awareness, advancing technology, and supportive government policies, the scope of EVs is expanding rapidly — not just as a mode of transport but as a powerful tool in the fight against global warming.

The Environmental Cost of Traditional Vehicles

For decades, internal combustion engine (ICE) vehicles have dominated the roads, running primarily on petrol and diesel. While they offer convenience and speed, they are also major contributors to air pollution and greenhouse gas (GHG) emissions. Transport alone accounts for nearly 24% of global CO₂ emissions, with the majority coming from cars, trucks, and buses. These emissions trap heat in the Earth's atmosphere, accelerating global warming and leading to severe consequences like rising sea levels, unpredictable weather patterns, and loss of biodiversity.

EVs: A Cleaner Alternative

Electric vehicles offer a cleaner, more sustainable alternative. Unlike ICE vehicles, EVs do not emit tailpipe pollutants such as carbon dioxide, nitrogen oxides, or particulate matter. This makes them especially valuable in reducing urban air pollution, which is linked to respiratory diseases, heart conditions, and premature deaths.

Even when powered by electricity from non-renewable sources, EVs are generally more efficient and emit fewer overall greenhouse gases compared to traditional vehicles. As electricity grids transition to greener sources like solar, wind, and hydro, the environmental benefits of EVs will only grow stronger.



Reducing Global Warming

One of the most compelling arguments for electric vehicles is their potential to slow down global warming. If adopted on a large scale and powered by renewable energy, EVs can significantly reduce global CO₂ emissions.

According to the International Energy Agency (IEA), switching to electric cars could cut carbon emissions from transport by over 50% by 2050. This would play a crucial role in meeting global climate targets, including the goals set in the Paris Agreement.

Battery Recycling and Sustainable Manufacturing

Critics often point to the environmental cost of battery production in EVs. However, this is being addressed through innovations in battery recycling, second-life applications, and the development of greener materials. Companies are now investing in closed-loop battery systems that minimize waste and environmental damage.

Moreover, EV manufacturers are increasingly adopting sustainable practices, such as using recycled materials in car interiors, eco-friendly paint, and energy-efficient factories powered by renewable sources.

The Broader Impact: More than Just Cars

The electric mobility revolution isn't limited to passenger cars. Electric buses, trucks, two-wheelers, and even ships are hitting the roads and waters, making transport cleaner across multiple sectors. Governments around the world are investing in EV infrastructure, including charging stations, battery swapping stations, and incentives to make EVs more accessible.

Conclusion

Electric vehicles represent more than just a trend — they are a necessary evolution in our quest for a sustainable future. With their ability to reduce pollution, cut carbon emissions, and promote renewable energy, EVs are paving the way toward a cleaner, greener planet.

As technology advances and awareness grows, the scope of electric vehicles will only expand, driving us closer to a world where progress and environmental responsibility go hand in hand.

Shreya Dwivedi
2100540310028
EC4

➤ **FDP attended / Patent / Research Paper published by faculty members-**



Dr. Rupali Agarwal
Associate Professor
Electronics & Communication Engineering

Events Attended / Publication

[1] Participated in one week **FDP** on topic “Data Visualization with Power BI” organized by Department of Electronics & Communication Engineering and Electrical Engineering, BBDNIIT Lucknow during 07-11 Jan 2025.

[2] Participated in one week **FDP** on topic “Next Generation Technologies in Electronics and Computer Science: Trends and Teaching Approaches” organized by Greater Kolkata College of Engineering and Management, Kolkata during 16-20 June 2025.

[3] Participated in one week **FDP** on topic “Agentic AI and PEGA: Practical Foundations” organized by BBDU, Lucknow during 16-20 June 2025.

[4] Published Book Chapter “**Smart Weeding Systems: Advancements and Challenges**” in Book “Artificial Intelligence and Internet of Things for Smart Agriculture” **CRC Press, Taylor & Francis, ISBN 978103256873 Aug 2025.**



Mr. Pankaj Verma
Assistant Professor
Electronics & Communication Engineering

Events Attended

[1] Participated in one week **FDP** on topic “Data Visualization with Power BI” organized by Department of Electronics & Communication Engineering and Electrical Engineering, BBDNIIT Lucknow during 07-11 Jan 2025.

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Mr. Amit Kumar Singh

Assistant Professor

Electronics & Communication Engineering

Events Attended

[1] Participated in one week **FDP** on topic “Data Visualization with Power BI” organized by Department of Electronics & Communication Engineering and Electrical Engineering, BBDNIIT Lucknow during 07-11 Jan 2025.

[2] Participated in one week **FDP** on topic “Next Generation Technologies in Electronics and Computer Science: Trends and Teaching Approaches” organized by Greater Kolkata College of Engineering and Management, Kolkata during 16-20 Jun 2025.



Dr. Abhimanyu Kumar Yadav

Associate Professor & DI

Electronics & Communication Engineering

Events Attended

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Mr. Navneet Kumar Pandey

Assistant Professor

Electronics & Communication Engineering

Events Attended

[1] Participated in one week **FDP** on topic “Data Visualization with Power BI” organized by Department of Electronics & Communication Engineering and Electrical Engineering, BBDNIIT Lucknow during 07-11 Jan 2025.

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Mr. Diwakar Singh

Assistant Professor

Electronics & Communication Engineering

Events Attended

[1] Participated in one week **FDP** on topic “Data Visualization with Power BI” organized by Department of Electronics & Communication Engineering and Electrical Engineering, BBDNIIT Lucknow during 07-11 Jan 2025.

[2] Participated in one week **FDP** on topic “Next Generation Technologies in Electronics and Computer Science: Trends and Teaching Approaches” organized by Greater Kolkata College of Engineering and Management, Kolkata during 16-20 Jun 2025.

Mr. Ravi Shankar

Assistant Professor

Electronics & Communication Engineering



Events Attended

[1] Participated in one week **FDP** on topic “Data Visualization with Power BI” organized by Department of Electronics & Communication Engineering and Electrical Engineering, BBDNIIT Lucknow during 07-11 Jan 2025.

[2] Participated in one week **FDP** on topic “Next Generation Technologies in Electronics and Computer Science: Trends and Teaching Approaches” organized by Greater Kolkata College of Engineering and Management, Kolkata during 16-20 Jun 2025.



Mr. Kishan Kumar

Assistant Professor

Electronics & Communication Engineering

Events Attended / Publication

[1] Participated in one week **FDP** on topic “Data Visualization with Power BI” organized by Department of Electronics & Communication Engineering and Electrical Engineering, BBDNIIT Lucknow during 07-11 Jan 2025.

[2] Participated in one week **FDP** on topic “Next Generation Technologies in Electronics and Computer Science: Trends and Teaching Approaches” organized by Greater Kolkata College of Engineering and Management, Kolkata during 16-20 Jun 2025.

[3] Published paper “**Marine Current Energy Coupled with a VSC-HVDC link integrated with the grid**”, 2025 International Conference on Cognitive Computing in Engineering, Communications, Sciences and Biomedical Health Informatics (IC3ECSBHI), May 2025, pp: 933-938.



Ms. Keerti Mishra

Assistant Professor

Electronics & Communication Engineering

Events Attended

[1] Participated in one week **FDP** on topic “Data Visualization with Power BI” organized by Department of Electronics & Communication Engineering and Electrical Engineering, BBDNIIT Lucknow during 07-11 Jan 2025.

[2] Participated in one week **FDP** on topic “Next Generation Technologies in Electronics and Computer Science: Trends and Teaching Approaches” organized by Greater Kolkata College of Engineering and Management, Kolkata during 16-20 Jun 2025.



Mr. Rajeev Singh

Assistant Professor & DI

Electronics & Communication Engineering

Events Attended

[1] Participated in one week **FDP** on topic “Data Visualization with Power BI” organized by Department of Electronics & Communication Engineering and Electrical Engineering, BBDNIIT Lucknow during 07-11 Jan 2025.

[2] Participated in one week **FDP** on topic “Next Generation Technologies in Electronics and Computer Science: Trends and Teaching Approaches” organized by Greater Kolkata College of Engineering and Management, Kolkata during 16-20 Jun 2025.

➤ **RESEARCH PAPER PUBLISHED BY FINAL YEAR STUDENTS**
(SESSION 2024-25)

S. No.	University Roll No.	Name of Student	Project Guide	Title of Paper	Name of Journal
1.	2100540310032	Yugal Kumar Singh	Dr. Rupali Agarwal	Hybrid Controlled Advanced Drone	International Journal of Research and Analytical Reviews (IJRAR) Volume 12, Issue 2, May 2025, pp: 946-948 (ISSN:2348-1269)
2.	2100540310025	Sawan Kumar Singh			
3.	2100540310012	Dipika Yadav			
4.	2100540310030	Twinkle Shukla			
5.	2100540310010	Ayush Srivastava	Mr. Ravi Shankar	Solar Based EV Charging Station with IOT Networking	International Research Journal of Modernization in Engineering Technology and Science (IRJMETS) Volume 7, Issue 4, April 2025, pp: 8103-8107 (e-ISSN: 2582-5208)
6.	2100540310005	Anuradha Yadav			
7.	2100540310028	Shreya Dwivedi			
8.	2000540310020	Jyotirmaya Samanta			
9.	2100540310009	Ayush			
10.	2100540310003	Aditya Singh	Mr. Pankaj Verma	SURVILLANCE DRONE USING ESP32	Journal of Emerging Technologies and Innovative Research(JETIR) Volume 12, Issue 4, April 2025, (ISSN: 2349-5162)
11.	2100540310008	Aviral Srivastava			
12.	2100540310013	Garima Yadav			
13.	2100540310031	Utsav Singh			
14.	2100540310001	Abhay Pratap Singh	Mr. Diwakar Singh	Robotics Arm for Industrial Applications	International Journal of Research Publication and Reviews (IJRPR) Volume 6, Issue 5, May 2025, pp: 5814-5816 (ISSN:2582-7421)
15.	2100540310018	Mukesh Sharma			
16.	2100540310019	Nikhil Kumar Yadav			
17.	2100540310027	Shiwangi Yadav			

S. No.	University Roll No.	Name of Student	Project Guide	Title of Paper	Name of Journal
18.	2100540310014	Kinshuk Makhija	Mr. Navneet Kumar Pandey	Smart Wearable for Mountaineers	International Journal of Research Publication and Reviews (IJRPR) Volume 6, Issue 5, May 2025, pp: 2944-2947 (ISSN:2582-7421)
19.	2100540310024	Ravi Prakash			
20.	2200540319004	Rishabh Pandey			
21.	2200540319006	Sushma Kumari			
22.	2100540310007	Arun Kumar Singh	Mr. Kishan Kumar	System to check the Healthiness of the Earthing system and Alert staff in case of Malfunction	International Journal of scientific research & Engineering Trends, Volume 11, Issue 2, Mar-Apr-2025, pp: 1520-1523 ISSN(Online): 2395566X
23.	2100540310011	Deepak Pal			
24.	2100540310016	Md. Tahir			
25.	2100540310017	Mohd. Zaid			
26.	2100540310002	Aditya Mittal	Ms. Keerti Mishra	Smart stretcher for monitoring mobile patients	International Journal of Research Publication and Reviews (IJRPR) Volume 6, Issue 5, May 2025, pp: 17273-17276 (ISSN:2582-7421)
27.	2100540310020	Niraj Verma			
28.	2100540310026	Shivam Singh			
29.	2200540319001	Anushka Chaudhary	Mr. Amit Kumar Singh	Road Surface Analyser for Safety and Smoothness of Road	International Journal of Research Publication and Reviews (IJRPR) Volume 6, Issue 5, May 2025, pp: 5217-5223 (ISSN:2582-7421)
30.	2200540319002	Rajat Rastogi			
31.	2200540319003	Rajat Srivastava			
32.	2200540319005	Shailly Soni			

➤ **PLACEMENTS @ECE (2024-25) - BBDITM:-**

S. No.	Student Name	Univ. Roll No.	Company Name
1.	Ayush Srivastava	2100540310010	Vivo Mobiles Pvt. Ltd. Windcare India Private Limited Edu-Versity KTPL Technologies
2.	Mukesh Sharma	2100540310018	Polycab India Pvt. Ltd ADJ Engineering Pvt. Ltd
	Shreya Dwivedi	2100540310028	Indus Tower Edu-Versity
3.	Aditya Singh	2100540310003	Vivo Mobiles Pvt. Ltd.
4.	Utsav Singh	2100540310031	Vivo Mobiles Pvt. Ltd.
5.	Yugal Kumar Singh	2100540310032	Design2 Occupancy
6.	Dipika Yadav	2100540310012	RJ Solar
7.	Garima Yadav	2100540310013	RJ Solar
8.	Sushma Kumari	2200540319006	RJ Solar
9.	Twinkle Shukla	2100540310030	Indus Tower
10.	Shailly Soni	2200540319005	Statix Electric
11.	Anuradha Yadav	2100540310005	Indus Tower
12.	Rajat Rastogi	2200540319002	Panasonic Electric Works India Pvt. Ltd. ADJ Engineering Pvt. Ltd
13.	Md Tahir	2100540310016	EVTL Pvt. Ltd.

EDITORIAL BOARD

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

Mr. Pankaj Verma
(Assistant Professor)

Student Coordinators

Mukesh Sharma
Anuradha Yadav
Sanjay Gupta
Anshika Mishra

“Dream is not that which you see while sleeping it is something that does not let you sleep.”

– 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