

THE FLIP FLOPS

A Quaterly ECE Newsletter



NEWSLETTER

Electronics
&
Communication
Engineering

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Department of Electronics & Communication Engineering
School of Studies of Engineering and Technology
Guru Ghasidas Vishwavidyalaya Bilaspur(C.G.)



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From The Desk Of Hon'ble Vice-Chancellor

“Science is about knowing and Engineering is about Doing”

“According to the 1st engineer of India , Mokshagundam Vishvesvaraya Ji, science is about knowing and engineering is about doing”. accordingly all the doings of the ECE department from the school of studies of engineering and technology are now being mentioned in:

I am very pleased with the efforts of this quaterly newsletter for acknowledging every happening of the ECE departrment. It contains the events, faculty achievements, student achievements, and appreciates every small achievement of our students. these acknowledgments encourages our students, and nurtures them.

I Appreciate That The Dean of SOS (E&T) ECE , Head of Department , and faculty members for providing such an environment for our future engineers. my hartiest congratulations to the team for the Flip-Flop. I wish them a new-era of learning & creating!!

Greetings From The Registrar

In the Digital World That We Now Inhabit, Tecnological Advancements are Dynamic And Unplanned. Young Brains Have A Lot of Opportunities To Reach New Heights Thanks To The World's Rapid progress.I want To Express My Gratitude To The Brilliant And Dedicated Members Of Our Academic Staff Who are Working To Make The Guru Ghasidas Vishwavidyalaya's School Of Studies Of Engineering And Technology a Bastion For Nurturing Diligent Students in India. The Department Of Electronics And Communication Engineering Has A Distinguished History Of Success We Are Certain That The New Initiative To Publish The Flip Flops. A Quaterly Newspaper, We will Contribute To All around Growth Of Our Exceptional Human Resources.

“Art Without Engineering
is Dreaming.
Engineering Without art
is Calculating.”



Message From The DEAN, SoS (E & T)



"Failure Is Central To Engineering. Every Single Calculation That An Engineer Makes Is A Failure Of Calculation.

Successful Engineering Is All About Understanding How Things Break Or Fail"

Being the Dean Of Sos(E&T) having an eye on every happening in the Sos (E&T) is needed and this quarterly journal from of the ECE department is not only a quarterly briefing but also enchants me with the talented minds and efficiencies of this department. "The Flip Flop" and the team of this newsletter are doing a great job. directly or indirectly making students know, how competitive the world is, how one should plan or learn things to be future ready. Making an energetic and enthusiastic surroundings. These are not only beneficial for students but also for the name and fame of our universtty. I am grateful to have them on board and appreciate them for their remarkable contributions this digital newsletter being a good example Of digitalization

Ambition Of The HOD

The Ece department is committed to helping students improve academically and professionally as a whole. to include the most recent trends for student progress, the course material is periodically altered. our department's graduates have a widespread reputation in the fields of business, government, and academia. Interaction between academic institutions and businesses is urgently needed. I warmly invite recruiters and our graduating students to congregate on a single platform and collabo rate to maximize each other's potential.



DEPARTMENTAL ACTIVITIES

DEPARTMENT INAUGURATION



3rd March marked an important day for the University as we celebrated the inauguration of the new departmental building, dedicated solely to the learning and research in the Electronics and Communication Engineering Department.

The ceremony commenced with a traditional pooja, symbolizing auspicious beginnings for the new departmental building. The event was attended by the various guests, including the honorable Vice Chancellor, Prof. Alok Chakrawal, who, along with the Registrar and Head of Department Dr. Soma Das, inaugurated the building amidst applause and excitement from the attendees.

The new departmental building boasts a large range of facilities like classrooms, faculty offices and advanced labs equipped with cutting-edge equipment and tools, providing the students with hands-on experience and not just limiting their knowledge to theory.

The inauguration of the new building marks a significant step forward in the university's commitment to excellence in education and research.

The event concluded with expressions of gratitude to all those who contributed to achieving this goal, and with hopes for a future filled with success for the department.

REPORT ON VIKSIT BHARAT WORKSHOP

On March 13, 2024, Guru Ghasidas Vishwavidyalaya hosted a workshop on the Future perspectives of Semiconductor Technology at the Rajat Jayanti Sabhagar. The Viksit Bharat Workshop, convened by Prime Minister on March 13, 2024, aimed to address critical issues pertaining to the comprehensive development and progress of India.

The workshop commenced by welcoming attendees and setting the stage for discussions on semiconductor technology, future landscape. The ongoing Viksit Bharat workshop at National convention center, Delhi was projected live for the audience out there. Prime Minister inaugurated the workshop with a comprehensive speech outlining the vision for a developed and empowered India. He emphasized the importance of holistic development, encompassing economic, social, and environmental aspects, to create a nation that is resilient and inclusive.

Dr. Prabira kumar shetty, senior professor of ECE Department delivered a speech on Advancements in Semiconductor Manufacturing Techniques. He discussed the latest innovations in lithography, materials science, and fabrication processes, emphasizing the importance of nanotechnology and quantum computing in shaping future semiconductor technologies.

Panel discussions and interactive sessions provided a platform for participants.

The Workshop on Future Perspectives of Semiconductor Technology at Guru Ghasidas Vishwavidyalaya served as a forum for interdisciplinary dialogue, bringing together researchers, industry professionals, and academicians to explore the frontiers of semiconductor technology.

The Viksit Bharat Workshop convened by Prime Minister on March 13, 2024, served as a significant platform for charting the course towards a prosperous and developed India. Through insightful discussions, deliberations, and collaborative efforts, the workshop laid the groundwork for transformative initiatives aimed at fostering sustainable growth, inclusive development, and societal progress. As the nation moves forward, the outcomes of this workshop are poised to guide policy formulation and implementation efforts, driving India towards its vision of becoming a global leader the 21st century. We extend our gratitude to all participants, speakers, and organizers for their contributions to the success of this workshop.

REPORT ON INDUSTRIAL VISIT



On the 15th of March 2024, the students of pre-final year BTech Electronics and Communication Engineering (ECE) had the privilege of visiting BSNL Bilaspur as part of an industrial visit, under the guidance of P. S. Shrivastav sir and Deepak Rathore sir. The visit aimed to provide students with practical knowledge about the telecommunications industry and its applications.

The main objective of the visit was to add to the students' knowledge about the telecommunications field, by exposing them to real-world scenarios that apply the concepts taught to them in the classroom. The visit also aimed at familiarizing students with the operations and infrastructure of a well-known national telecommunications company- BSNL.

Firstly, the students were then taken on a comprehensive tour of BSNL's infrastructure facilities. This hands-on experience allowed students to understand the equipment and technologies used in the telecommunication network. They also had the opportunity to engage in interactive sessions with BSNL professionals. Besides, they were able to ask questions and seek clarification on concepts, allowing them to learn about the latest advancements in telecommunications technology.

This industrial visit to the BSNL Bilaspur proved to be an enriching experience for the ECE students. It not only enhanced their understanding of telecommunications but also provided valuable exposure to the workings of a leading telecommunications company. The mentors, P. S. Shrivastav and Deepak Rathore, are commended for their efforts in facilitating such a valuable learning opportunity.

NSS CAMP

The National Service Scheme (NSS) organized a community engagement event aimed at fostering social responsibility and contributing to the betterment of rural areas. Students of the department of electronics and communication engineering had also engaged with this event under the guidance of our talented faculty member, Dr. Chandan Tamrakar.

The NSS organized a five-day camp in a village. In the camp, activities included morning routines, community engagement through Prabhat Pheri (morning walk), a village visit, physical exercises, and organizational meetings to plan and execute development projects.

In the camp, the day began early in the morning, and all participants woke up early and freshened up to prepare for the day ahead. Further, students were divided into groups, and the entire group embarked on a Prabhat Pheri, a traditional morning walk aimed at fostering community spirit and promoting physical well-being. Following the Prabhat Pheri, the group proceeded to a nearby village for a community visit. The purpose was to gain first-hand insight into the challenges and needs of the rural populace. Upon arrival at the village's primary school, students engaged in warm-up and stretching exercises. These activities aimed to energize the participants and promote physical fitness.

Returning to the campus allowed participants for relaxation and replenishment after the morning's activities. Further, each group was assigned specific tasks related to community development projects such as public cleanliness, village cleanliness, water problems, education, cultural activities, etc. This process continues for the next five days.

The NSS event proved to be a fruitful endeavor, seamlessly blending physical activity, community engagement, and organizational planning. Activities such as the Prabhat Pheri, village visits, and project allocation enabled participants to make meaningful contributions to the welfare of the rural community while fostering teamwork and social responsibility.



• PLANTATION DRIVE



To enhance the environmental sustainability of our campus, the Electronics and Communication Engineering department proudly organized a three-day plantation drive from the 21st to the 23rd of March. With the visionary guidance of Dr. Sudakar Singh Chauhan, our campus blossomed with the addition of 350 thriving plants.

The active participation and unwavering commitment of students from the second and third years of the Electronics and Communication Engineering (ECE) department were crucial to the success of the green initiative. Their dedication and enthusiasm played a key role in making the event successful.

One Day Workshop on IOT & Drone Technology

On March 28, 2024, the Department of Electronics and Communication Engineering and the Technology Enabling Center jointly hosted a one-day workshop titled "Hands-on Practice in IoT and Drone Technology." The event comprised two sessions, each led by distinguished experts in their respective fields.





The first session, focusing on IoT, was delivered by Dr. Rajiv Dey, Associate Professor at ECE, GGV Bilaspur (C.G.). Dr. Dey commenced with a comprehensive definition of IoT and presented an array of essential equipment necessary for establishing IoT systems, including sensors, microcontrollers, and related components. He delved into various challenges inherent in IoT systems, such as security and design challenges, while also discussing network types like PAN, LAN, MAN, and WAN.

During the session he showcased a video demonstration of an IoT-based device capable of object detection and bidirectional maneuvering. He underscored a key challenge in IoT through a real-world anecdote and demonstrated a practical IoT project involving IP address detection and LED control.

Moreover, he introduced several potential IoT projects, including waste management systems, smart street lights, and sensor-equipped refrigerators. He concluded the session by offering participants to see the equipments and imparting guid-

The second speaker, Dr. Abhishek Rawat, commenced the session by elucidating the fundamental principles of drone technology. This session was conducted online, with some participants engaging remotely while others attended in person. Dr. Rawat supplemented his lecture with a video demonstration showcasing drone manufacturing processes and imparted comprehensive insights into the operational mechanisms of drones.

Thus, the one-day workshop concluded, overseen by the convenor of the program, Dr. Nikita Kashyap, and co-convenor, Mrs. Pragati Patharia, who delivered a vote of thanks to the speaker. As the program drew to a close, participants were presented with certificates of participation.



Student Article

Digital Twins

-> Shivam Srivas
(Final Year)



◆ Digital twins, a concept rapidly gaining prominence, serve as a fascinating bridge between the tangible and the digital realms. This article delves into the transformative potential of digital twins and their role in narrowing the gap between our physical reality and the virtual world.

◆ Understanding Digital Twins:
At its core, a digital twin is a virtual replica of a physical object or system, be it machinery, infrastructure, or even an entire city. This dynamic simulation integrates real-time data, allowing for a comprehensive understanding of the physical counterpart's behavior, performance, and status.

◆ The Power of Real-Time Data:
One of the key strengths of digital twins lies in their ability to continuously synchronize with their physical counterparts. This real-time connection enables businesses, industries, and urban planners to monitor and analyze live data, facilitating proactive decision-making, predictive maintenance, and optimization of processes.

◆ Industry Applications:
Digital twins find applications across various industries. In manufacturing, they enhance production efficiency and quality control by simulating processes and predicting potential issues. In healthcare, patient-specific digital twins enable personalized treatment plans. Additionally, in smart cities, digital twins help manage urban infrastructure more effectively, from traffic flow to energy consumption.



◆ IoT Integration:
The Internet of Things (IoT) plays a pivotal role in the success of digital twins. Sensors and devices embedded in physical objects continuously collect and transmit data to the digital twin, creating a seamless flow of information. This integration amplifies the accuracy and responsiveness of digital twins, ensuring a more faithful representation of the physical world.

◆ Challenges and Concerns:

While the potential of digital twins is immense, challenges exist. Security and privacy concerns regarding the vast amounts of data exchanged between the physical and virtual realms require robust solutions. Additionally, the complexity of creating accurate and reliable digital twins demands advanced technologies and expertise.



"Digital twins : where the virtual meets the tangible, unlocking a world of predictive insights and endless possibilities."

Future Outlook:

As technology advances, the capabilities of digital twins are expected to evolve further. The integration of artificial intelligence (AI) and machine learning will enhance predictive analytics, making digital twins even more adept at foreseeing and mitigating issues in real - time. This evolution could reshape how we approach design, maintenance, and optimization across various domains.

Digital twins represent a paradigm shift in our relationship with the physical world. By seamlessly blending reality and simulation, these digital counterparts hold the potential to revolutionize industries, improve decision-making processes, and contribute to the creation of smarter, more efficient systems. As we continue to explore the capabilities of digital twins, the boundary between the physical and virtual realms will continue to blur, opening new possibilities for innovation and progress.

TEACHER'S ACHIEVEMENT

1. The patent has been granted to Dr Rajiv Dey for an invention entitled "Health Monitoring System". Patent No:- 521368 ; Application No :- 201911031672; Date of Grant:- 07/03/2024

2. The patent has been granted to Dr Rajiv Dey for an invention entitled "Vibrational Energy Harvesting System". Patent Number :- 529122 ; Application Number :- 201911043815; Date of Grant:- 19/03/2024

3. Dr. Nikita Kashyap , Ramlakhan Pandey , Snehlata Mishra and Arun Kumar Kashyap (2024) have published a paper entitled " Deep Learning Models for the Identification of Blood Cancer Types by Using Microscopic Images " in " Journal of Nonlinear Analysis and Optimization ", Vol. 15, Issue No. 01, pp. 71-77, ISSN: 1906-9685. (UGC Care Listed).

4. Dr. Nikita Kashyap and Arun Kumar Kashyap have published a paper entitled " Artificial Intelligence for Plant Disease Detection" in " Shodha Prabha ", Vol. 49, Issue No. 01, pp. 85-96, ISSN: 0974-8946. (UGC Care Listed).

5. Dr. Nikita Kashyap and Arun Kumar Kashyap have published a paper entitled "Enhanced Skin Disease Detection and Classification System Using Deep Learning Technique " in " The International Journal of Advanced Technology and Social Sciences ". 2. 93-104. 10.59890/ijatss.v2i1.1292.

6. Pragati Patharia has published a paper entitled " Synthesis , Structural , and Photoluminescence Studies of Tb³⁺ Activated Y₂SiO₅ Phosphor for Display Devices" in "Journal of Applied Spectroscopy". Date:- Jan- Feb 2024

7. Dr. Anil Kumar Soni , Chandan Tamrakar , and Shrawan Kumar Patel have published a technical paper entitled " Theoretical Optimization and Design of Graphene-Based Multiple-Band Terahertz Absorbers for Sensing Applications" in the Journal "Microsystem Technologies" by " Springer - Verlag GmbH Germany" Published Date:- 10/02/2024

8. Dr. Prabira Kumar Sethy has published a paper entitled "Optimizing Precision Agriculture : Bayesian - Enhanced Papaya (Carica papaya L.) Fruit Disease Classification via Cubic SVM and ResNet - 101 Deep Features " in " Journal of Intelligent & Fuzzy Systems. Publication date : 24/03/2024 ; DOI : 10.3233/JIFS-239875.

9. Dr. Prabira Kumar Sethy has published a paper entitled "Breast Mass Density Categorisation using Deep Transferred EfficientNet with Support Vector Machines" in a Journal named "Multimedia Tools and Applications". Publication Date :- 05/02/2024; DOI: 10.1007/s11042-024-18507-2.
10. Dr. Prabira Kumar Sethy has published a paper entitled "Statistical Analysis and Comparison of Deep Convolutional Neural Network Models for the identification and Classification of Maize Leaf Diseases" in a Journal named "Multimedia Tools and Applications". Publication Date :- 03/02/2024; DOI : 10.1007/s11042-024-18481-9.
11. Dr Prabira Kumar Sethy has published a paper entitled "ResNet101-SVM: Hybrid Convolutional Neural Network for Citrus Fruits Classification" in "The Journal of Intelligent & Fuzzy Systems". Publication date : 30/01/2024; DOI :10.3233/JIFS-233910; Vol 1 Issue 1.
12. Dr. Prabira Kumar Sethy has published a paper entitled "Bi-layer Deep Feature Fusion Based Mineral Classification Using Hand - Specimen Images" in "The Journal of Intelligent & Fuzzy Systems". Publication date : 29/01/2024; DOI : 10.3233/JIFS-221987; Vol 1, Issue 1.
13. Dr. Prabira Kumar Sethy has published an article entitled "DeepOvaNet: A Comprehensive Deep Learning Framework for Predicting and Diagnosing Ovarian Cancer in Women Across Menopausal Transitions" at "2024 Fourth International Conference on Advances in Electrical, Computing, Communication and Sustainable Technologies (ICAECT) Bhilai, India, Dated :- 11/01/2024; Publisher : IEEE.
14. Dr. Prabira Kumar Sethy published an article entitled "MongoDB integration with Python and Node.js, Express.js" at "the 2024 Fourth International Conference on Advances in Electrical, Computing, Communication and Sustainable Technologies (ICAECT) Bhilai, India, Dated: 11/01/2024; Publisher: IEEE.
15. Dr. Prabira Kumar Sethy has published an article entitled "Durum Wheat Classification Using Feature Selection, Bayesian Optimization and Support Vector" at "2024 Fourth International Conference on Advances in Electrical, Computing, Communication and Sustainable Technologies (ICAECT) Bhilai, India, Dated:- 11/01/2024; Publisher: IEEE.
16. Dr. Prabira Kumar Sethy has published a paper entitled "A Methodical Analysis of Deep Learning Techniques for Detecting Indian Lentils" in "The Journal of Agriculture and Food Research". Publication Date : 03/01/2024; Vol 15, Page 100943

17. Dr. Prabira Kumar Sethy has published a chapter on "A Comparison of Capability Measurement between Various Incident Handling and Reporting Schemes" in the book "Social Media and Crowdsourcing".
18. Dr. Prabira Kumar Sethy has published a chapter on "Maize Diseases Diagnosis based on Computer Intelligence : A Systematic Review" in the book "Modern Computational Techniques for Engineering Applications".
19. Dr. Nipun Kumar Mishra has guided a research project entitled "Metamaterial - based Refractive Index Sensor for Bio-sensing application" which was presented by his student Ms Taniya Singh in the Category : Engineering and Technology at the Anveshan : International Student Research Convention 2023 - 24 organized by the University of Mumbai under the aegis of the Association of Indian Universities, New Delhi from March 11 to March 12, 2024.
20. Dr. Nikita Kashyap delivered an Invited talk as a resource person on "The Integration of Artificial Intelligence and IoT for Enhanced Environmental Monitoring", in the two - day international seminar (10 - 11 February 2024) on Environment and Sustainable Development : Perspectives and Issues organized by Govt. S.P.M. College Sitapur, Surguja (C.G.).
21. Dr Nikita Kashyap delivered an oral presentation at the "International Conference on Innovative Research in Science, Management and Technology (ICIRSMT)" on the topic "A pre Trained convolutional neural network - based model for skin diseases classification" on January 07, 2024, Jointly Organized by Atal Bihari Vajpayee University, Bilaspur, (C.G.), India and Jai Narayan Vyas University, Jodhpur, India.
22. Dr. Nikita Kashyap, Pragati Patharia along with speaker Dr. Rajiv Dey has organized a one - day Workshop on "Hands practice on IOT and Drone Technology" on 28 March 2024.
23. Pragati Patharia has completed the "NEP 2020 Orientation and Sensitization Programme under the Malaviya Mission Teacher Training Programme (MM-TTP) of University Grant Commission (UGC)" organized by UGC - MMTTC, Guru Ghasidas Vishwavidyalaya (A Central University), Bilaspur (CG) from 13-03-2024 to 22-03-2024 and Obtained Grade A.
24. Dr. Anil Kumar Soni has received the best paper award for paper I'd 74 in the conference of Computing, Communication and Sensor Network.



SPORTS ACHIEVEMENT

The Department of Electronics and Communication Engineering is proud to share its recent sports achievements, which reflect the dedication, talent, and teamwork of its students and professors. Through relentless practice and a commitment to excellence, our department has excelled in various sporting endeavors, garnering recognition and accolades on both School and University levels.

Key Achievements :

- 1. Faculty Cricket Competition :** The Faculty Cricket Match, held on 20/03/2024, brought together faculty members from various departments for a day of spirited cricketing action. Organized by the Sports and Yoga Department, the event aimed to promote camaraderie, sportsmanship, and physical activity among faculty members. The Women's Cricket team consisting of Dr. Anita Khanna, Dr. Nikita Kashyap, Mrs. Praveena Rajputa and Mrs. Beulah Nath from the ECE department emerged victorious, showcasing exceptional teamwork and skill. Additionally, individual awards were presented to standout performers in various categories, including Women of the Match title which was presented to Mrs. Beulah Nath for her marvelous performance.
- 2. Engineering Premier League (Boys):** The boys cricket team under the captaincy of Sachin Kumar Singh (2nd Year) with prominent members Hrithik Kr. Arora and Harsh Kumar from the ECE department emerged as the winner of the tournament after a neck - to - neck competition. Matches were played with enthusiasm and competitive spirit, with each team showcasing their cricketing prowess. All the teams showcased exceptional teamwork and skill. Exceptional performers were awarded individual titles like Best Batsman, Best Bowler and Man of the Match recognizing their contribution to their respective team's success.
- 3. Tug of War (Girls):** The Team named "Halla Bol" bagged the first position in the Tug of War competition at the Annual Sports Event. The team members included 1st year ECE girls, Shrishty Mishra, Shreya Singh, Astha Shukla, Munga Hema Latha, Bhawna Sahu, Arya Patel,

Saniya Shrishty Gupta and Soniya Nareng. Tug of war requires precise strategies in combination with physical strength. It also demands good teamwork. The girls were determined and passionate enough to not just participate but also win the match ultimately.

4. Tug of War (Boys) : The Team named "Halla Bol" bagged the first position in the Tug of War competition at the Annual Sports Event. The team members included 1st year ECE boys, Arsalan, Shivam Bharti, Imroz Khan, Bhanu Durga. Close matches kept the audience on the edge of their seats, with several rounds leading to the final match. The tireless hard work and remarkable physical strength displayed by the boys was the ultimate reason behind their victory.
5. Kabaddi (Girls 1st Year) : The Kabaddi 1st Year girls team was led to its victory under the captainship of Soniya Nareng (ECE) along with invaluable support and strength of Arya Patel and Bharti from ECE as well. The team effort was truly remarkable and played the key role behind their win. Each and every participant showcased their strength, endeavor and perseverance throughout the match. The final match was a very close-cut but nonetheless our girls took the title to their name.
6. Kabaddi (Girls 2nd Year): The Kabaddi 2nd Year girls team had two prominent members from the ECE department, Sana Pavani and Yanamala Ramya. The team excelled in garnering recognition and accolades at the School level. The final was a fiercely conducted match which sparked the environment on the ground. It served as a testament to the participant's commitment towards physical activity, teamwork and sportsmanship among its members.

STUDENT'S ACHIEVEMENT

1. Janiya Singh and Kajal Kumari secured 1st position in the Central Zone Student Research Convention (ANVESHAN 2023-24) under the category of Engineering and Technology for their project entitled "Metamaterial Based Refractive Index Applications" held at GGV, Bilaspur, Chhattisgarh on 2nd March, 2024.
2. Aditi Sharma presented a research paper titled "Machine learning - assisted isolation enhancement using characteristics mode analysis" in 19th Chhattisgarh Young Scientist Congress (CYSC-24) held on 26th and 27th February, 2024.
3. Ms. Taniya Singh presented a research-based project titled "Metamaterial based Refractive Index Sensor for Bio-sensing application", in the category of Engineering and Technology at the Anveshan : International Student Research Convention 2023-24 organized by the University of Mumbai under aegis of the Association of Indian Universities, New Delhi on 11th and 12th March, 2024.
4. P. Navaneeshwar Reddy, Sunkara Sai Nitin, Madalla Dhanaraju, R. Sai Prasad, Nishant Wankhede and M.T. Shiva Krishna qualified GATE 2024.
5. Prachi Patel, Bhaviripudi Kusuma Sri, Komal Kumari, Molabanti Tndav Siva Krishna, Metta Divya, Ronanki Sai Prasad, Geeresh Sonwani, Uday Shankar Chaurasiya, Naitik Agnihotri and Aman Kumar got selected for a year long Internship at Dhoot Transmission Pvt Ltd.
6. Adithya S kumar, Astha Shukla and Kush kumar from 1st year participated in Ideathon 2024.

OUR TEAM

We deeply appreciate your patience as we diligently crafted the upcoming edition of the Electronics and Communication Engineering newsletter. It brings us great joy to announce its completion, and we are thrilled to share it with you. Attached is the acknowledgment note we intend to include in the forthcoming edition. Additionally, we aspire to infuse the next issue with hopeful wishes for the future.



Dr. Soma Das
H.O.D
ECE Department



Preeti Kumari
3rd Year



Gaurav Kumar
2nd Year



Ishu Lal
2nd Year



Tanisha Bhushan
2nd Year



Ritik Kumar Arora
2nd Year



Saima Naseem
2nd Year



Sudhanshu Kumar
1st Year



Fahad Ahmad
1st Year



Prabhakar K Choudhary
1st Year



Astha Shukla
1st Year



Shriyansh Thakur
1st Year