



# ELECTRONICLE

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DEPARTMENT OF ELECTRONICS AND  
COMMUNICATION ENGINEERING

TECHNO COLLEGE OF ENGINEERING AGARTALA

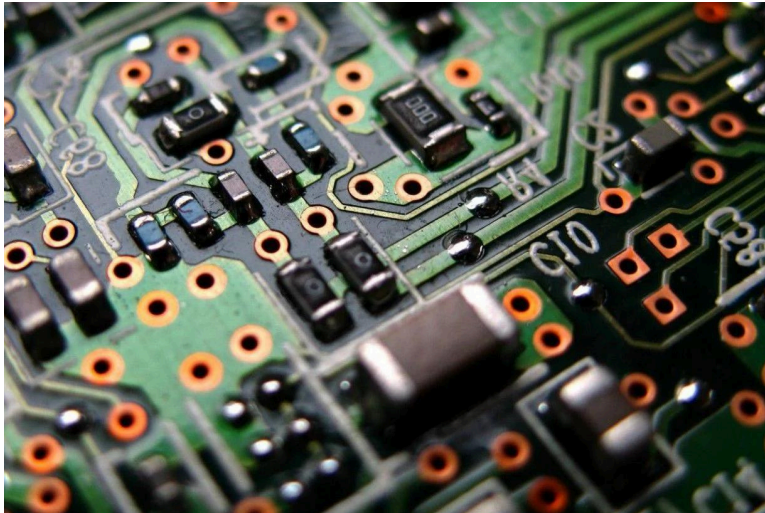
An Engineering college affiliated to Tripura University, approved by AICTE, MHRD, Govt. of India  
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# NEWSLETTER

DEPARTMENT OF  
ELECTRONICS  
AND  
COMMUNICATION  
ENGINEERING

*When you want to know how things really work, study them when they're coming apart.*

*William Gibson*



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## EDITORIAL

- Asst.Prof. Susmita Majumder

## FACULTY ADVISORY COMMITTEE

- Asst. Prof. Dipjyoti Deb
- Dr. Priyansha Bhowmik
- Asst.Prof. Malay Ghata
- Asst. Prof. Tandra Sutradhar
- Mr. Sudip Deb
- Asst.Prof. Kaberi Saha

## STUDENT TEAM

- Ms. Disha Chakraborty (ECE-3rd Year)
- Mr. Pratyosh Ranjan Das (ECE-3rd Year)
- Mr. Subham Kumar (ECE-2nd Year)

# INSTITUTE'S VISION

## VISION

Techno College of Engineering Agartala strives to develop institutional excellence in technical education and research to graduate talented, skilled and trained engineers, with admirable traditional cultural values to meet the technological and socioeconomic needs of our state, nation and the world at large.



**"Engineering is the application of science to the optimum conversion of natural resources to the uses of humankind."**

**– Ralph J. Smith**

# INSTITUTE'S MISSION

## MISSION

a) To produce creative and technically strong engineers by providing high-quality technical education with emphasis on technical academic excellence, innovative research and development programs with core human values.

b) To continuously upgrade the faculty in curriculum design, teaching pedagogy, usage of ICT (Information and Communication Technology) and various processes pertaining to academics, research and University administration.

c) Techno College of Engineering Agartala is committed to providing an education that combines rigorous academics with joy of discovery.

d) The Institute encourages its community to develop a unique culture that instils responsibility and accountability in partnership with various stakeholders such as parents, society, business and education community.

# DEPARTMENT'S VISION

## VISION

The Department of Electronics and Communication Engineering at TCEA innovates by conducting fundamental and applied research to develop physical technologies, hardware and software systems, and information technologies and educates future academic and industry leaders for careers in industry, academia, and research labs.



**Science can amuse  
and fascinate us all,  
but it is engineering  
that changes the  
world.**

**– Isaac Asimov**

# DEPARTMENTS'S MISSION

## MISSION

- To impart rationalized and high quality technical education and knowledge.
- To achieve self-sustainability and overall development through different Research activities.
- To provide education for life by focusing on the inculcation of human and moral values through an honest and scientific approach.
- To address important engineering challenges for well-functioning societies with a new focus on developing research and curricula to promote sustainable engineering.
- To groom students with good attitude and personality skills.
- To maintain a culture that promotes excellence and that allows students, staff, and faculty members to excel in their endeavors.

# EDITORIAL

With immense joy and pride, we present to you the fourth issue of *Electronicle*, the newsletter of the Department of Electronics and Communication Engineering (ECE). This publication stands as a testament to the dedication, creativity, and intellectual prowess of our students and faculty members.

A department's true strength lies in the collective achievements of its members. The unwavering commitment of our educators to fostering knowledge and guiding students towards excellence is what defines our success. At the same time, the enthusiasm and innovative spirit of our students drive the department forward, making every milestone a shared accomplishment.

*Electronicle* serves as a dynamic platform, offering our students an opportunity to express their technical acumen, creative insights, and co-curricular talents. It reflects not only their academic pursuits but also their passion for innovation, problem-solving, and collaboration. Through this initiative, we aim to encourage a culture of knowledge sharing, intellectual growth, and creative expression within our department.

This newsletter would not have been possible without the dedication and hard work of our contributors who provided their valuable guidance. We extend our heartfelt gratitude to our management for their continuous support and encouragement in making this endeavor a success.

We sincerely appreciate everyone who contributed their efforts and talents to this inaugural edition. Your participation has enriched this publication, and we look forward to many more editions filled with inspiring content and groundbreaking ideas.

We hope *Electronicle* ignites curiosity, sparks creativity, and serves as a source of inspiration for all. Happy reading!

*"The true laboratory is the mind, where behind illusions we uncover the laws of truth."*

*Acharya J.C. Bose*



## PRINCIPAL'S DESK

A departmental newsletter acts as a reflection of its progress, capturing the collective achievements and endeavors of students and faculty members alike. I firmly believe that **Electronicle** will leave a lasting impression on students, educators, and technology enthusiasts, offering valuable insights into industry-ready advancements and academic pursuits.

I extend my sincere appreciation to the Head of the Department, dedicated faculty members, and our talented students for their hard work and commitment in bringing this initiative to fruition. Their relentless efforts have made this milestone possible, and I commend them for their dedication to knowledge-sharing and technical excellence.

I hope **Electronicle** inspires curiosity, encourages innovation, and strengthens the academic and professional journey of everyone involved.

Warmest Regards.....



DR. DIBAKAR DEB  
PRINCIPAL,  
TECHNO COLLEGE OF  
ENGINEERING AGARTALA

*"Design is not just what it looks like and feels like. Design is how it works."*

*– Steve Jobs*



## HOD'S CORNER

*Welcome to the Department of Electronics and Communication Engineering at Techno College of Engineering Agartala, where innovation, research, and skill development drive academic excellence. We offer Diploma, Degree, and Postgraduate programs, equipping students for the evolving tech industry.*

*With state-of-the-art laboratories, advanced research centers, and expert faculty in VLSI, Embedded Systems, AI, IoT, and Communication Networks, we ensure a perfect blend of theory and hands-on experience for industry readiness.*

*Graduates excel in telecommunications, semiconductors, automation, AI, and government sectors, securing positions in top MNCs, research, and entrepreneurship.*

*Through industry collaborations and innovation-driven training, we empower students to solve real-world challenges and drive technological transformation.*



MR. DIPJYOTI DEB  
HOD, DEPT.OF ECE.

*"The future belongs to those who learn more skills and combine them in creative ways."  
– Robert Greene*

# FACULTY MEMBERS



**Dr. Priyansha Bhowmik**  
Associate Professor



**Mr. Malay Ghata**  
Assistant Professor



**Miss. Susmita Majumder**  
Assistant Professor



**Mrs. Tandra Sutradhar**  
Assistant Professor



**Miss. Kaberi Saha**  
Assistant Professor



**Mr. Sudip Deb**  
Lecturer



**Mr. Udayan Chakraborty**  
Visiting Lecturer



**Mr. Srikanta Das**  
Visiting Lecturer



**Mr. Abhijit Das**  
Visiting Lecturer

# THE DEPARTMENT



**"Genius is one percent  
inspiration and ninety-  
nine percent perspiration."**

**Thomas Edison**



# Students' Corner



**Miss Disha Chakraborty**  
**(ECE – 3rd Year)**

## **Growth of the Semiconductor Industry in India & Its Significance**

The semiconductor industry in India has been experiencing remarkable growth over the past few years, driven by government initiatives, global demand, and the increasing need for technological self-reliance. As a critical component of modern electronics, semiconductors are the backbone of devices ranging from smartphones and laptops to advanced defense systems and electric vehicles.

### **Current Landscape and Growth Drivers**

India's semiconductor industry is projected to reach USD 63 billion by 2026, up from USD 15 billion in 2020, marking a robust compound annual growth rate (CAGR). This growth is primarily fueled by the expanding consumer electronics market, the rise of electric vehicles, advancements in 5G technology, and the proliferation of the Internet of Things (IoT).

One of the pivotal factors contributing to this surge is the Indian government's proactive policies, such as the "Make in India" initiative and the Production Linked Incentive (PLI) scheme for electronics manufacturing. The government has announced a USD 10 billion incentive plan to attract semiconductor manufacturers, promote research and development, and support the establishment of semiconductor fabrication (fab) units in the country.

### **Key Developments and Investments**

Several global semiconductor giants, including Intel, TSMC, and Micron, have shown interest in investing in India, recognizing its potential as a manufacturing hub. Additionally, Indian conglomerates like Tata Group and Vedanta are venturing into semiconductor manufacturing, further bolstering the ecosystem. The establishment of semiconductor fabrication units in Gujarat and Karnataka signifies a transformative shift, positioning India as a key player in the global semiconductor supply chain.

The semiconductor design segment also plays a significant role, with India contributing to approximately 20% of the world's semiconductor design engineers. Major design centres of companies like Qualcomm, Broadcom, and AMD are already operational in cities like Bengaluru and Hyderabad, emphasizing India's strength in design and R&D capabilities.

### **Significance of the Semiconductor Industry in India**

- **Technological Self-Reliance:** Developing a robust semiconductor ecosystem reduces dependency on imports, enhancing national security, especially in defence and critical infrastructure.
- **Economic Growth:** The semiconductor industry is expected to generate significant employment opportunities, both directly in manufacturing and indirectly through ancillary industries.
- **Driving Innovation:** Semiconductors are at the heart of innovations in AI, IoT, autonomous vehicles, and smart devices. A strong domestic industry fosters technological advancements and supports startups and research institutions.
- **Strategic Importance:** Amid global supply chain disruptions, having domestic semiconductor capabilities ensures resilience and strategic autonomy, reducing vulnerabilities to external shocks.

### **Challenges and the Road Ahead**

Despite the promising growth, challenges such as high capital investment, lack of skilled workforce, and the need for robust infrastructure persist. Addressing these requires continued government support, international collaborations, and investments in education and skill development. In conclusion, the growth of the semiconductor industry in India signifies a pivotal shift towards technological sovereignty and economic resilience. With strategic initiatives and sustained efforts, India is poised to become a global semiconductor powerhouse, driving innovation and development in the digital era.

# Student's Corner



**Mr. Pratyosh Ranjan Das**  
(ECE – 3rd Year)

## **Semiconductor & Nanoelectronics**

### **Semiconductors & Nanoelectronics: Powering the Future of Technology**

In the ever-evolving landscape of technology, few fields have made as significant an impact as semiconductors and nanoelectronics. These foundational technologies have revolutionized everything from consumer electronics to medical devices, communications, and even space exploration. Today, they continue to be at the heart of innovation, paving the way for the next wave of technological advancements. Semiconductors and nanoelectronics are two of the most fundamental fields driving modern technology. From powering everyday electronic devices to enabling advancements in computing, communications, and medical systems, they play a critical role in shaping the future. The growth of these industries has been exponential over the last few decades, driven by innovations in materials science, nanotechnology, and manufacturing techniques.

### **Semiconductors: The Heart of Modern Electronics**

Semiconductors are the backbone of nearly all modern electronic devices. A semiconductor material has electrical properties that lie between conductors (like metals) and insulators (like rubber), making it ideal for controlling the flow of electricity in electronic systems. The invention of the transistor, made from semiconductor materials like silicon, is one of the most significant milestones in the history of electronics.

#### **Key Characteristics of Semiconductors:**

- **Electrical Conductivity:** Semiconductors can conduct electricity under controlled conditions, allowing them to act as switches or amplifiers in circuits.
- **Doping:** Adding impurities to semiconductor materials allows them to conduct electricity more efficiently, creating components like diodes, transistors, and integrated circuits.

#### **The Semiconductor Industry Today:**

- The global semiconductor market reached a staggering \$580 billion in 2022, and analysts predict it will grow at a 6.5% CAGR from 2023 to 2030, surpassing \$900 billion by 2030. This growth is driven by demand across a variety of sectors, including consumer electronics, automotive, and industrial applications.
- The global semiconductor shortage in recent years has highlighted the essential role these materials play in almost every technology, from smartphones and laptops to electric vehicles and medical devices.

As of 2025, semiconductor manufacturers are pushing boundaries with 2 nm (nanometer) node technology, significantly enhancing performance and energy efficiency. Leading companies like Intel, TSMC, and Samsung are at the forefront of developing next generation chips, promising even faster speeds, improved energy efficiency, and the ability to process increasingly complex algorithms.

### **Nanoelectronics: A New Era of Miniaturization and Innovation**

Nanoelectronics refers to the application of nanotechnology in the creation of electronic components at the nanoscale, typically ranging from 1 nm to 100 nm. At this scale, the physical properties of materials are drastically different from their bulk counterparts, enabling the development of faster, more efficient devices with enhanced functionality.

# Student's Corner

## Key Characteristics of Nanoelectronics:

- **Quantum Effects:** At the nanoscale, quantum mechanical effects like tunneling and superposition become prominent, enabling the creation of devices that are more energy-efficient and faster than traditional ones.
- **Material Innovation:** Materials like graphene, carbon nanotubes (CNTs), and quantum dots are being explored for use in next-generation transistors, memory devices, and sensors, offering unprecedented performance.

## Impact of Semiconductor & Nanoelectronics on Various Industries

- **Consumer Electronics:** Advances in semiconductors and nanoelectronics have led to the miniaturization and performance improvements of devices such as smartphones, laptops, and wearable devices. Processors have become more energy-efficient and faster, enabling features like AI, 5G connectivity, and immersive augmented reality (AR) experiences.
- **Automotive Industry:** The integration of semiconductors in modern vehicles, particularly electric vehicles (EVs) and autonomous vehicles, has surged.

Nanoelectronics will enable innovations in sensor systems, power management, and vehicle-to-everything (V2X) communication, which are key for the development of self-driving cars.

- **Healthcare:** Semiconductor devices are at the heart of medical imaging, diagnostic tools, and implantable devices. Nanoelectronics, on the other hand, holds great promise for biomedical sensors and drug delivery systems at the nanoscale, enabling precise diagnosis and treatment.

## Global Semiconductor Industry Overview

Key Global Trends:

• **Miniaturization:** The industry continues to push the boundaries of Moore's Law, with manufacturers moving toward 2 nm nodes for semiconductor chips. Intel, TSMC, and Samsung are actively working on this, with Intel planning for a 2 nm node by 2025.

• **5G/6G:** The advent of 5G has accelerated the demand for semiconductor components, while 6G networks are already in the planning stages. Both networks rely on the next-generation semiconductor technologies to handle the enormous data loads and connectivity requirements.

• **Quantum Computing:** The quantum computing market was valued at \$1.7 billion in 2022 and is expected to grow to \$13.6 billion by 2030, fueled by advancements in nanoelectronics and quantum chips.

## Semiconductor Industry in India

Key Developments in India:

• **Production Plans:** Companies like Vedanta and Foxconn have announced plans to set up semiconductor fabrication units in India. The Indian government has approved a \$10 billion package for semiconductor manufacturing, with the aim to establish two semiconductor fabrication plants.

• **Research and Development:** India is emerging as a research and development (R&D) hub for semiconductor technologies, with leading research institutions like the Indian Institute of Technology (IITs) focusing on nanoelectronics, materials science, and quantum computing.

Comparison of Global and Indian Trends in Nanoelectronics Global Nanoelectronics Market:

• **Market Value:** The global nanoelectronics market was valued at \$36.4 billion in 2022 and is expected to grow at a 19.2% CAGR, reaching \$129.4 billion by 2030.

# Student's Corner

- Pioneering Research: Countries like the United States, Germany, and Japan are leaders in nanoelectronics R&D, particularly in quantum dot technology, carbon nanotubes (CNTs), and graphene for applications in electronics and energy storage.
- Key Applications: Nanoelectronics is making significant strides in areas like memory devices, biomedical sensors, advanced computing, and wearable technology.

## **India's Position in Nanoelectronics:**

- Research Focus: India is increasingly investing in nanoelectronics through research institutions such as the Indian Institute of Science (IISc) and IITs. These institutions are focusing on quantum computing, nanoscale transistors, and energy-efficient memory devices.
- Government Support: The Indian government has earmarked funding for nanotechnology under the National Mission on Nano Science and Technology (Nano Mission), which aims to advance research and industrial application of nanotechnology in electronics.
- Challenges in India: India faces challenges in commercializing nanoelectronics due to the high cost of research and development and the limited number of manufacturing facilities for nanoelectronics components. However, progress in integrated circuit design and sensor technology is expected to drive future developments.

## **Market Trends and Future Outlook**

The semiconductor and nanoelectronics industries are on the brink of transformative changes, driven by advances in quantum computing, artificial intelligence (AI), and internet-of-things (IoT) technologies. According to recent market data:

- The global quantum computing market was valued at \$1.7 billion in 2022, with projections to reach \$13.6 billion by 2030, expanding at a CAGR of 29.6%. Quantum computing, enabled by advancements in nanoelectronics, promises to revolutionize fields such as cryptography, drug discovery, and complex simulations.
- The 5G and 6G networks will rely heavily on semiconductors and nanoelectronics. These networks will require faster, more efficient microchips to handle the increased data traffic and enable the massive connectivity expected in the future.

## **Future Outlook and Conclusion**

The future of semiconductors and nanoelectronics is incredibly promising. With continued research and development, innovations in quantum computing, artificial intelligence, and advanced materials will likely lead to faster, more efficient, and more energy-conscious devices. However, addressing challenges such as heat dissipation, material limitations, and manufacturing scalability will be critical in unlocking the full potential of these technologies.

The semiconductor market will continue to grow at a steady pace, while nanoelectronics will play a pivotal role in ushering in the next era of computing, communication, and electronics. As these technologies evolve, we can expect further breakthroughs that will transform industries and enhance the quality of life on a global scale.

# Student's Corner



**Mr. Subham Kumar**  
**(ECE - 2nd Year)**

## 6G Communication Technology

6G (Sixth Generation) is the future of wireless communication technology, expected to succeed 5G around 2030. It aims to provide ultra-fast data speeds (up to 1 Tbps), ultra-low latency, and seamless connectivity for advanced applications like AI-driven automation, holographic communication, and smart cities.

### Features

- **Higher Speeds: (Terahertz Frequencies)** Enables faster data transmission. Speed 6G is anticipated to offer speeds up to 1 terabit per second, which is 100 times faster than 5G.
- **Frequency Bands:** 6G will likely utilize higher frequency bands, including terahertz (THz) waves, which can support greater data throughput but have shorter range and require new technologies for effective transmission and reception.
- **Ultra-Low Latency:** Even lower than 5G for real-time applications. Latency could be reduced to microseconds, enabling near-instantaneous communication
- **AI Integration:** Optimizes network efficiency and security. Advanced AI for smarter network management. AI and machine learning will be deeply integrated into 6G networks to optimize performance, manage resources, and enhance user experiences. This includes intelligent network management and adaptive communication protocols.
- **Holographic & Immersive Communication:** Supports AR, VR, and XR. 6G could enable advanced applications like holographic communications, providing immersive experiences for virtual reality (VR), augmented reality (AR), and mixed reality (MR).
- **Ubiquitous Connectivity:** 6G aims to provide seamless global coverage, including remote and rural areas, through the integration of satellite networks, high-altitude platforms, and terrestrial systems.
- **Massive IoT Connectivity:** Connects billions of smart devices. Internet of Everything (IoE) 6G will support the Internet of Everything, connecting not just devices but also people, processes, data, and things, enabling a fully interconnected world.
- **Energy Efficiency:** With the increasing demand for data and connectivity, 6G will focus on energy-efficient technologies to reduce the environmental impact and operational costs.
- **Advanced Security and Privacy:** Enhanced security protocols and quantum cryptography may be employed to ensure data integrity and privacy in 6G networks.
- **Tactile Internet:** The tactile internet, which allows real-time control and feedback, will be a key feature of 6G, enabling applications in healthcare, industry, and robotics.
- **Research and Development:** Major research initiatives are underway globally, involving academia, industry, and governments. Key players include companies like Huawei, Samsung, Nokia, and Ericsson, as well as universities and research institutions

# Student's Corner

## Challenges in 6G Development

High Infrastructure Cost – Requires a massive investment in new technology and infrastructure. Power Consumption – Managing energy efficiency for such high-speed networks. Hardware Limitations – Need for new semiconductor materials and chip designs for THz communication. Security Risks – Quantum-based threats and new cybersecurity challenges.

## Current Developments in 6G

- China, the U.S., Japan, South Korea, and the EU are leading in 6G research.
- Companies like Nokia, Samsung, Huawei, and Ericsson are developing 6G prototypes.
- NASA and SpaceX are exploring 6G for satellite communications.
- 6G will revolutionize industries like healthcare, transportation, and entertainment, making communication faster and more efficient.
- 6G is still in early research, It promises to revolutionize industries and daily life with unprecedented connectivity.

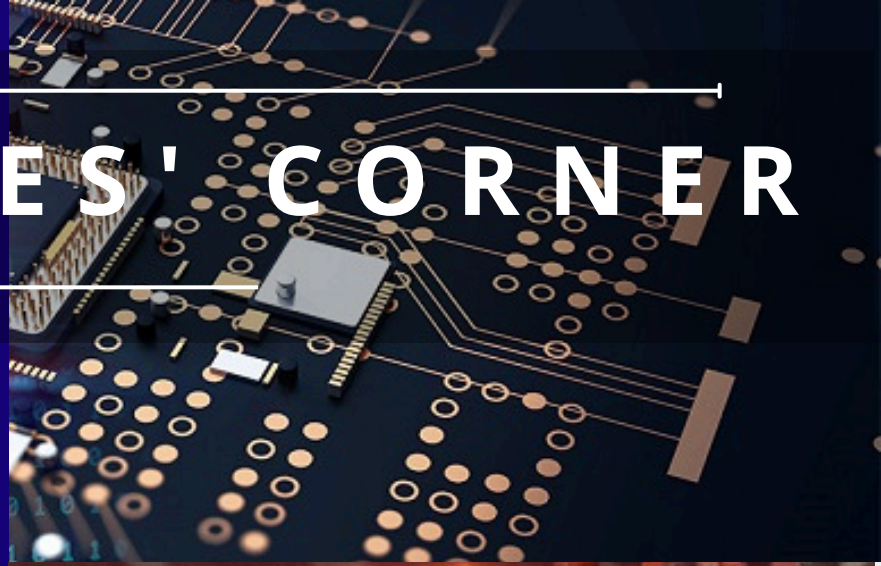
# ACTIVITIES' CORNER

## INSTITUTIONAL ACTIVITIES



# ACTIVITIES' CORNER

## INSTITUTIONAL ACTIVITIES





# CORPORATE SOCIAL RESPONSIBILITY

## FLOOD RELIEF CAMP



## DISTRIBUTION OF STUDY MATERIALS



## DISTRIBUTION OF CLOTHES



# DEPARTMENTAL ACTIVITIES

## SCHOOL EXCURSION



## TECHNICAL TALK



# DEPARTMENTAL ACTIVITIES

## WIREWIZ 1.0 (Circuit Design Competition)

## BRAINSTORM 2.0



# BEYOND CLASSROOM

## INDUSTRIAL TOUR TO BSNL, AGARTALA



## CLAY ART & RANGOLI MAKING



## TEACHERS' DAY CELEBRATION



# REMARKABLE GRADUATES



**Mr. Udayan Chakraborty**  
(Batch 2022)  
Visiting Lecturer, TCEA



**Mr. Ajoy Sarkar**  
(Batch 2023)  
Deloitte



**Mr. Subhra Majumder**  
(Batch 2022)  
Inmovidu , Reliance JIO  
Espoir Network Pvt. Ltd.



**Mr. Somnath Acharjee**  
(Batch 2024)  
Deloitte



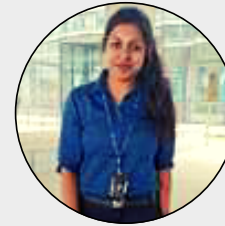
**Mr. Atul Saha**  
(Batch 2021)  
Cognizant



**Mr. Koushik Datta**  
(Batch 2021)  
Cadence Design System



**Miss. Kaberi Saha**  
(Batch 2020)  
Assistant Professor, TCEA



**Miss. Anurima Das**  
(Batch 2019)  
Cognizant



**Mr. Mitradeep Debnath**  
(Batch 2018)  
Tripura Gramin Bank



**Mr. Rohan Debroy**  
(Batch 2018)  
Infosys, TCS, Volkswagen



**Miss. Khushbu Ghosh**  
(Batch 2018)  
Tripura Gramin Bank

ALUMNI (2018-2024)

# FACULTY DEVELOPMENT PROGRAM

**5 Day Faculty Development Program**  
Organized By:  
**TECHNO ENGINEERING COLLEGE BANIPUR**  
In Association With  
COMPUTER SOCIETY OF INDIA, (Kolkata Chapter)

**CERTIFICATE OF PARTICIPATION**

This is to certify that  
**Asst. Prof. Dipjyoti Deb**  
of Electronics and Communication Engineering, Techno College of Engineering Agartala has successfully completed the 5 days Faculty development Program on "Computational Tools on Engineering And Research: Issues and Challenges" organized by Department of CSE, CSE (AIML), ECE & ME of Techno Engineering College Banipur, technically sponsored by Computer Society of India (CSI), Kolkata Chapter, conducted from 18<sup>th</sup> November to 22<sup>nd</sup> November 2024.

Dr. Aniruddha Nag  
Convener, FDP-2024

Dr. Indrajit Sadhukhan  
Convener, FDP-2024

Mr. Snehasis Banerjee  
Secretary  
CSI, Kolkata Chapter

Dr. Maloy Kumar Chandra  
Principal

**5 Day Faculty Development Program**  
Organized By:  
**TECHNO ENGINEERING COLLEGE BANIPUR**  
In Association With  
COMPUTER SOCIETY OF INDIA, (Kolkata Chapter)

**CERTIFICATE OF PARTICIPATION**

This is to certify that  
**Mr. Udayan Chakraborty**  
has successfully completed the 5 days Faculty development Program on "Computational Tools on Engineering And Research: Issues and Challenges" organized by Department of CSE, CSE (AIML), ECE & ME of Techno Engineering College Banipur, technically sponsored by Computer Society of India (CSI), Kolkata Chapter, conducted from 18<sup>th</sup> November to 22<sup>nd</sup> November 2024.

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In Association With  
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**CERTIFICATE OF PARTICIPATION**

This is to certify that  
**Ms. Tandra Sutradhar**  
has successfully completed the 5 days Faculty development Program on "Computational Tools on Engineering And Research: Issues and Challenges" organized by Department of CSE, CSE (AIML), ECE & ME of Techno Engineering College Banipur, technically sponsored by Computer Society of India (CSI), Kolkata Chapter, conducted from 18<sup>th</sup> November to 22<sup>nd</sup> November 2024.

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Mr. Snehasis Banerjee  
Secretary  
CSI, Kolkata Chapter


Dr. Maloy Kumar Chandra  
Principal

**GARUDA AEROSPACE PRIVATE LIMITED**

This Is To Certify That:  
**MR. DIPJYOTI DEB, ECE**  
of **TECHNO COLLEGE OF ENGINEERING, AGARTALA**  
Has successfully participated in  
**Training and Orientation Program on Drone Technology**  
Organized by Garuda Academy and  
Held in Garuda Aerospace Pvt Ltd, Chennai, Tamilnadu from **21-10-2024** to **25-10-2024**

Date of Issue: **25-10-2024**

Dr. Vijayakumar Rajarathinam



TECHNO COLLEGE OF ENGINEERING AGARTALA

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