



**TECHNO INDIA UNIVERSITY**  
WEST BENGAL



# **ANNUAL REPORT**

**— 2024-2025 —**

# Inaugurating an Era of Excellence

## Techno India University, West Bengal

Established through the West Bengal State Legislature Act in 2012, Techno India University, West Bengal has emerged as a leading private university with a global outlook. Known for its distinguished faculty, the University offers an environment where academic excellence, innovation, and mentorship come together to empower students and scholars to realize their full potential.

With a steadfast commitment to the generation, preservation, and dissemination of knowledge, the University collaborates with renowned academic institutions, research centers, and knowledge hubs across India and around the world. At Techno India University, education goes beyond the classroom—students are immersed in rigorous academic experiences complemented by the thrill of discovery and the support of world-class mentors.

The University fosters a culture of creativity, critical thinking, and social responsibility. It encourages every member of its community to contribute meaningfully to society through thoughtful, innovative, and impactful work.

Guided by the visionary roadmap of the Hon'ble Chancellor's Vision 2025, the University's cutting-edge research has led to the creation of sustainable, real-world solutions. From solar-powered devices to eco-friendly innovations like tulsi-infused desserts, marine floral snacks, organic abir and seaweed-based ice creams and cookies—Techno India University's research has redefined how education can translate into livelihood opportunities for millions.

With a shared purpose of building a better, poverty-free world through education, research, and innovation, Techno India University, West Bengal stands at the forefront of transformative learning and impactful development.

# A New Year, A New Beginning

## From the Desk of Chancellor



As another remarkable year unfolds at Techno India University, West Bengal, I find myself reflecting not just on milestones achieved, but on the spirit that makes our community so special. We are more than a university—we are a family of dreamers, thinkers, builders, and doers. Each of you, in your own way, has helped shape our story: the faculty who guide with patience and passion, the students who dare to imagine more, the alumni who carry our name with pride, and every individual who contributes to our shared mission. This past year has shown us the power of unity and purpose. Our campus has been alive with discovery, dialogue, and determination. From research breakthroughs to artistic triumphs, from academic achievements to community impact—together, we've moved forward with conviction. And yet, what excites me most is not just what we've done, but what lies ahead. Our vision remains rooted in one simple truth: education should inspire, uplift, and transform. Let's continue nurturing minds, growing with empathy, and working towards a world shaped by knowledge, kindness, and innovation. Thank you for being part of this journey. The best is still to come.

**Prof. (Dr.) Goutam Roy Chowdhury**  
Chancellor, Techno India University

# A New Horizon

## From the Desk of Co-Chancellor



Each new academic year brings with it a sense of renewal—a chance to reflect, reset, and reimagine. At Techno India University, West Bengal, we begin this chapter with hope in our hearts and purpose in our stride. Our university is more than just a place of learning—it is a living, breathing space where ideas take shape, where diversity strengthens us, and where every individual is given the chance to grow. The Annual Report stands as a testament to that spirit—a platform where knowledge meets creativity and where innovation thrives. As we move forward, let us embrace the power of collaboration. Let curiosity guide our questions, resilience carry us through challenges, and empathy shape our community. Whether in classrooms, labs, or conversations—we all have something to learn and something to contribute. Growth does not come without effort, but with determination and belief, there's no limit to what we can accomplish together. Here's to another year of discovery, transformation, and shared success.

Prof. Manoshi Roy Chowdhury  
Co-Chancellor, Techno India University, West Bengal

# A World of Excellence

## From the Desk of the Vice-Chancellor

As the latest edition of the Annual Report comes to life, I am filled with a quiet sense of joy and reflection. This annual publication is more than a collection of updates—it is a chronicle of dreams in motion, a story that began over a decade ago under the vision and guidance of our Hon'ble Chancellor. Now, as Techno India University, West Bengal prepares to step into its teenage years, we find ourselves standing on a foundation shaped by resilience, growth, and community. The past year brought with it



a renewed sense of momentum. This year, our campus witnessed a natural resurgence—of ideas, of admissions, of opportunities, and of transformation. The Annual Report captures this vibrant rhythm: stories of academic milestones, groundbreaking placements, and lives changed through education. Like a river, a university has its currents—sometimes swift, sometimes still—but always moving, always touching lives along its path. As we move forward, we carry with us not just achievements but memories. Looking back isn't about numbers or metrics; it's about honoring the journey. And looking ahead? It's about continuing to walk together—with curiosity, with purpose, and with joy.

Prof. (Dr.) Samiran Chattopadhyay

Vice-Chancellor, Techno India University, West Bengal

# *Techno India University Convocation 2024*

The Third Convocation of Techno India University, West Bengal, was held on **12th August 2024** at the prestigious **Biswa Bangla Convention Centre, New Town, Kolkata**. This momentous occasion celebrated the outstanding achievements of the 2023 and 2024 outgoing batches, marking a significant milestone in their academic journey.

The event was graced by **Shri Ram Nath Kovind**, the 14th President of India, as the Chief Guest. His presence, along with an esteemed lineup of distinguished guests, added immense value to the convocation. The luminaries included:

- ❖ **Padma Bhushan Sampooran Singh Kalra (Gulzar)** – Poet & Lyricist
- ❖ **Padma Bhushan Jogen Chowdhury** – Renowned Artist
- ❖ **Padma Shri Shabana Azmi** – Actress
- ❖ **Padma Shri Leander Paes** – Former Indian Tennis Player
- ❖ **Padma Shri Shankar Mahadevan** – Singer & Composer
- ❖ **Shri Partha Pratim Chakrabarti** – Former Director, Indian Institute of Technology, Kharagpur
- ❖ **Dr. Kunal Sarkar** – Renowned Cardiac Surgeon
- ❖ **Prof. K. D. Mondal** – Former General Manager of NLC, BCCL, SECL & Distinguished Director of Netaji Subhash Engineering College
- ❖ **Dr. Subhankar Chakraborty** – Former Vice Chancellor, Rabindra Bharati University
- ❖ **Dr. Kali P. Chaudhuri** – Founder & Chairman, KPC Group

This convocation was not merely a ceremony but a celebration of innovation, excellence, and limitless possibilities. It symbolized the university's unwavering commitment to fostering the next generation of leaders and innovators, paving the way for a brighter future.

- ❖ Students from 2023 & 2024 batches were awarded the Certificates and Gold/Silver/Bronze Medals based on their academic performances.
  - Total No. of Ph.D Recipients - 67
  - Gold Medal Winner – 19 (2020 Batches), 25(2021 Batches), 28 (2022 Batches)
  - Silver Medal Winner – 12(2020 Batches), 20 (2021 Batches), 23 (2022 Batches)
  - Bronze Medal Winner – 09 (2020 Batches), 13 (2021 Batches), 19 (2022 Batches)
  - Degree Recipients – 1594 (2020), 1680(2021), 1763(2022)

*Some memorable moments of Techno India University, West Bengal Convocation-2024*







# *IEEE International Conference 2024*

The IEEE International Conference on Computer, Electrical, and Communication Engineering, organized by Techno India University, West Bengal, has garnered global attention for its innovative approach. The 2024 conference, held on February 2nd and 3rd, introduced a groundbreaking initiative in India by allowing international participants to present their research via Skype. The event welcomed submissions from industry, government, and academia, encouraging interdisciplinary research in computing, electrical, and communication engineering, with a focus on functional applications, advanced technologies, and innovative ideas for future development. Peer-reviewed papers, keynote speeches, and tutorials by distinguished experts from ISRO, ISI, and leading organizations like Intel, Google, Microsoft, and TCS contributed to the conference's resounding success, attracting wide participation from scholars and researchers worldwide.

## **Honorary Chair**

- Prof. Bhargab B. Bhattacharya, IEEE Fellow, Indian Statistical Institute, Kolkata (ISI, Kolkata)
- Prof. B. B. Chowdhury, IEEE Fellow, Techno India University, West Bengal, Ex Prof. Indian Statistical Institute, Kolkata (ISI, Kolkata)

## **Keynote Speakers**

- Padma Shri Sanghamitra Bandyopadhyay, IEEE Fellow, Director, Indian Statistical Institute, Kolkata (ISI, Kolkata)
- Prof. Samiran Chattopadhyay, Vice Chancellor, Techno India University, West Bengal, India, Ex-Professor Jadavpur University
- Prof. Omar M. Ramahi, IEEE Fellow, University of Waterloo, Canada
- Prof. Daniel Dongyuel Lee, Cornell University, USA
- Prof. Madhu Mutyam, Indian Institute of Technology, Madras
- Prof. S. Arun kumar, Indian Institute of Technology, Delhi
- Prof. Ramakrishnan Angarai Ganesan, Indian Institute of Science, Bangalore

## **Tutorial Session Speakers**

- Aishwary Mishra, Scientist, Indian Space Research Organisation (ISRO)
- Rakhi Mitra, Vice President, Goldman Sachs
- Anupam Jain, Software Engineer, Apple

This international conference, organized by Techno India University, West Bengal, represents a visionary effort to broaden its scope by engaging researchers from both India and abroad. It has provided a platform that fosters innovation and research, elevating education to new heights.





# *International Conference on Security, Surveillance and Artificial Intelligence (ICSSAI 2023)*

Techno India University, West Bengal successfully organized the Taylor & Francis International Conference on Security, Surveillance and Artificial Intelligence (ICSSAI 2023) at their Salt Lake Sector V campus, Kolkata, during 1st and 2nd December 2023. With support and active participation from eminent delegates, authors, speakers, students, faculties from academic institutions and industries around the globe, the conference – in its first edition – truly lived up to the expectations.

There were engrossing keynote address from eminent luminaries Prof. (Dr.) Partha Pratim Chakraborty, Professor, Indian Institute of Technology, Kharagpur, Chief Guest of Day 1 and Dr. Saibal Kumar Pal, Scientist 'G' and Divisional head, DRDO) Scientific Analysis Group, Delhi, Chief Guest of Day 2.

The plenary sessions were graced by distinguished personalities Prof. (Dr.) Prasanta Kumar Jana, Professor, Indian Institute of Technology (ISM), Dhanbad, Prof(Dr.) Odelu Vanga, Indian Institute of Information Technology, Sri City, Chittoor, Prof. (Dr.) Sukumar Nandi, Indian Institute of Technology, Guwahati, Prof. (Dr.) Pabitra Mitra, Indian Institute of Technology, Kharagpur, Industry Chair Dr. Tanushyam Chattopadhyay, Principal Scientist AI Lab, Adani Enterprises and Mr. Partha Sarkar, Academic Relationship Manager, Tata Consultancy Services.

Online addresses from Prof. (Dr.) Dhiya AL-Jumeily, Faculty of Engineering and Technology, Liverpool John Moores University and Dr. Indranil Chatterjee, Semiconductor Radiation Effects and Reliability Engineer, Defence and Space division of Airbus in Friedrichshafen, Germany, enriched the event.

The afternoon break-out sessions had exciting technical sessions including Information Security, Surveillance & Real Life Applications, Artificial Intelligence & Industrial Applications. Authors presented their work and were immensely appreciated by the audience. The quality of presentations and technical papers were of the highest order with overall 46 out of 128 papers being accepted in the conference, translating to approximately 35% acceptance rate. All the accepted papers were published with Taylor & Francis conference proceedings (CRC press). Conference attendees, delegates and participants utilized this incredible opportunity to learn, collaborate and share experiences from stalwarts and each other in the aforementioned domains. The key objectives of the conference were accomplished with widespread engagement, brainstorming on a broad spectrum of topics relevant to the current realm of security and AI.

Techno India University, West Bengal express their heartfelt thanks to their valued sponsors DRDO, Optonet Technologies Pvt. Ltd., Alumnus Software Ltd., Berger Paints, Yuva Kadam Foundation and everyone associated with this one of a kind event that attracted an exemplary galaxy of knowledge and looks forward to providing similar platform in future.





## *Special Events Organized by Techno India University, West Bengal*

### **❖ An Interactive Session with the Students by Mr. Soumyajit Chatterjee**

Mr. Soumyajit Chatterjee, a distinguished alumnus of our institution, visited our campus on 2nd November 2023 to share his inspiring journey and insights with Techno India University, West Bengal. Mr. Chatterjee made significant contributions to the Indian Space Research Organization (ISRO), and his story served as a testament to the extraordinary talent fostered within our institution. As the first alumnus to speak on his experiences, he delved into his career at ISRO, the challenges he faced, and the groundbreaking projects he was a part of.



## ❖ One Day Workshop on "NEP 2020 - Plan for Implementation"

Techno India University, West Bengal, hosted a one-day workshop on the National Education Policy (NEP) 2020 - Plan for Implementation, which was coordinated by Dr. Urmila Kar, Professor at NITTTR Kolkata, on 1st August 2023 (Tuesday) from 10:00 AM to 6:00 PM at the Ground floor Conference Room, Techno India University. All departments with an existing 3-year undergraduate program were required to prepare a 5-minute presentation. The presentations focused on the semester-wise subject and credit distribution that would be implemented for a 4-year honours program, as per the guidelines of NEP 2020. Faculties of 4-year UG programs were also encouraged to attend the session to gain insights into NEP 2020 and its implementation.



## ❖ Seminar on Solution for Sustainable Plastic Waste Management

The seminar on “Solution for Sustainable Plastic Waste Management” was held on 2nd September 2023 at the Seminar Hall, Techno India University, West Bengal, an initiative by the Rotary Club of Dumdum in collaboration with Techno India University and partnering organizations. The event focused on addressing the global challenge of plastic waste and exploring innovative, sustainable solutions. It featured insightful sessions by experts who discussed the environmental impact of plastic pollution, technologies for recycling and up-cycling, and policies for waste reduction. The seminar also emphasized the importance of a collaborative approach involving industries, academic institutions, and communities to develop effective solutions. Participants engaged in interactive discussions on biodegradable alternatives, circular economy practices, and awareness campaigns, highlighting actionable strategies for sustainable plastic waste management. The event concluded with a commitment to fostering environmental responsibility and advancing collective efforts toward a sustainable future.



## ❖ **TEDx – Techno India University 2023 - "Redefining Success"**

The third edition of **TEDxTechnoIndiaUniversity** was successfully held on 4th November, 2023, at the University Seminar Hall. This year's theme, "*Redefining Success*," brought together remarkable speakers who shared their unique perspectives through concise and engaging talks. The event challenged traditional ideas of success, sparking insightful discussions among an audience of students, staff, and faculty members. With thought-provoking ideas and dynamic sessions, the event inspired all participants to rethink and redefine what success means in today's ever-evolving world.



## ❖ Teacher's Day Celebration

National Teacher's Day was celebrated on 5th September, 2023 at Techno India University, West Bengal, to honor the birth anniversary of Dr. Sarvepalli Radhakrishnan, a philosopher, scholar, and the second President of India, who emphasized the vital role of teachers in shaping the future of the nation. The event, held at the Seminar Hall, was a heartfelt tribute to educators for their hard work, dedication, and invaluable contributions to society and the nation's progress. The celebration provided an opportunity to acknowledge and appreciate the efforts of all educators and mentors who have guided students toward academic and personal excellence. The event featured cultural performances and activities showcasing students' gratitude for their teachers. Special mentions and expressions of appreciation were extended to faculty members, making the day a memorable occasion of respect and gratitude for the teaching community.



## ❖ Celebration of World Environment Day

The World Environment Day celebration at Techno India University, West Bengal, on 5th June 2024, centered on the theme “Land Restoration, Desertification, and Drought Resilience” and saw active participation from 150 students and 25 faculty members. The event featured two sessions: the first in the G-Series Hall included a quiz on environmental issues, innovative idea presentations, a poster competition, and a plantation activity with Miyazaki mango plants. The second session in the Conference Hall included the Mega Mango Project launch, keynote speeches by Prof. (Dr.) Chandan Chakraborty and Dr. Atanu Raha, and prize distribution. The program concluded with the National Anthem and a pledge to protect the planet, leaving participants enriched with knowledge and skills for sustainable solutions.



## ❖ An Interactive Session with French Author Mme. Clarence Boulay

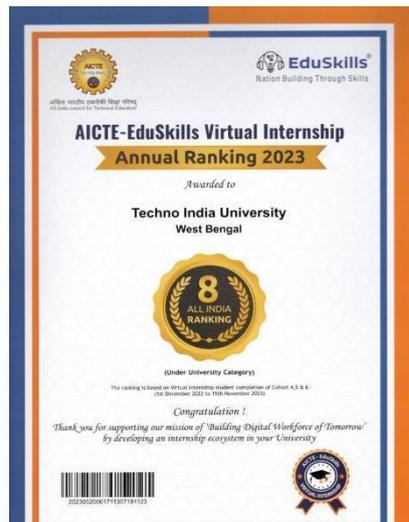
On **September 26, 2023**, Techno India University, West Bengal had the honor of hosting a remarkable interactive session with the celebrated French author, **Mme. Clarence Boulay**, organized in collaboration with **Alliance Française du Bengale** and the **French Institute in India**. The event, held at **3:00 PM**, featured engaging discussions facilitated by **Julia Trouillaud**, Attaché for Books, Debates & Ideas at the French Institute in India. Students from the Humanities Departments participated enthusiastically, having been well-prepared with insights into the translated version of Mme. Boulay’s book. The interactive format fostered lively exchanges, making the session both enriching and memorable for all involved.

# Special Achievements by Techno India University, West Bengal

- ❖ Techno India University, West Bengal, was awarded the “**Best Performing University - 2024 (Eastern Zone)**” for its exemplary contribution and outstanding performance in the EduSkills Center of Excellence (CoE) Programme during the Next Gen Skill Conclave held from 27th to 29th September 2024 at Dr. Ambedkar International Centre, New Delhi.



- ❖ Techno India University, West Bengal, was awarded the “All India Ranking 8” in the AICTE - EduSkills Virtual Internship Annual Ranking 2023. The ranking was based on the completion of Virtual Internship Cohorts 4, 5, and 6 (1st December 2022 to 15th November 2023) and recognized the university's efforts in supporting the mission of ‘Building the Digital Workplace of Tomorrow’ by fostering a robust internship ecosystem.



- ❖ Techno India University, West Bengal secured the Rank 21 among all Institutes in Eastern India as per Data Quest CMR Survey 2024.
- ❖ The iHUB Techno India University - Centre of Excellence for Advanced Computing and IoT Technology was established following the MoU signed between Techno India University, West Bengal, and iHUB DivyaSampark, IIT Roorkee.
- ❖ The students of Techno India University, West Bengal, won first place in the prestigious NASA Space Apps Challenge 2024. The revolutionary initiative, NyxNova by team Stardust, TIU, has captivated experts worldwide and set a new benchmark in planetary exploration. In recognition of their achievement, team Stardust has been nominated globally for NASA, where they will compete against the best innovators in the world.

- ❖ Techno India University, West Bengal, the first private university of West Bengal was awarded outstanding Private University in Academic Excellence at Shikha Samman platform by ABP Ananda on 9th June, 2023.



- ❖ Techno India University, West Bengal received Certificate of Appreciation on Education Minence 2023 from News 18 Bangla as a most patriotic private university.



- ❖ Techno India University, West Bengal was awarded Excellence in Private Education at the Zee 24 Ghanta Education Excellence 2023.



- ❖ Techno India University, West Bengal received “Solution for Sustainable Plastic Waste Management award” at the seminar conducted by Rotary Club of Dum Dum.



## *Institution's Innovation Council - Techno India University, West Bengal*

### ❖ IIC Event for schools – Workshop on Innovation and Entrepreneurship

On 7th September 2023, the Institution's Innovation Council (IIC) of Techno India University, West Bengal, organized a workshop on "Innovation and Entrepreneurship" at Techno India Public School, Ariyadaha. The event, coordinated by Dr. Anuradha Bhattacharya, saw participation from 10 faculty members and 60 students of classes 10, 11, and 12. Students showcased innovative science projects on topics such as the Peltier effect, holography, and Arduino applications. Eminent speakers, including Soma Roy Acharjee, Dr. S. Roy, and Dr. Anuradha Bhattacharya, highlighted the importance of startups and entrepreneurship. The event concluded with an engaging demonstration by Prof. Gopal Dey, showcasing wind energy conversion, inspiring students to explore technological advancements and entrepreneurial ventures.

### ❖ Seminar on National Technology Day

On 31st July 2023, the Institution's Innovation Council (IIC) of Techno India University, West Bengal, organized a seminar on National Technology Day at Room 401, Main Building, Sector V, Salt Lake, Kolkata. The seminar, coordinated by Dr. Anuradha Bhattacharya and Mr. Sudeep Chowdhury, featured Dr. Debasis Chaudhuri, an esteemed professor and ex-Senior Scientist at DRDO, as the speaker. With participation from 5 faculty members and 16 students, the event highlighted the role of science and technology in India's progress. Discussions focused on recent technological advancements, fostering innovation, and inspiring the younger generation to pursue careers in STEM fields, contributing to the nation's development.

### ❖ Seminar on World Entrepreneurship Day

On 21st July 2023, the Institution's Innovation Council (IIC) of Techno India University, West Bengal, organized a seminar on World Entrepreneurship Day at Room 401, Main Building, Sector V, Salt Lake, Kolkata. Coordinated by Mr. Soumyadeep Das and Dr. Anuradha Bhattacharya, the event featured Dr. Debasis Chaudhuri, an eminent professor and former DRDO scientist, as the speaker. With participation from 13 faculty members and 38 students, the seminar emphasized the role of entrepreneurship in driving technological advancements, particularly in DRDO and satellite innovations. It inspired attendees to develop innovative ideas, promoting entrepreneurship as a catalyst for economic growth and global recognition.

## *Professional Society Chapters @ Techno India University, West Bengal*

### ➤ *Indian Society for Technical Education (ISTE)*

#### ❖ **Seminar on "Recent Trends in the Design and Fabrication of Microwave and Millimeter Wave Semiconductor Devices":**

A seminar on "Recent Trends in the Design and Fabrication of Microwave and Millimeter Wave Semiconductor Devices" was organized by the ISTE Student Chapter of Techno India University, West Bengal, on August 18, 2023, in the Ground Floor Seminar Hall. The event featured an enlightening keynote address by Prof. (Dr.) Madhumita Chakraborty, Director, CMSDS, DRDO Kolkata, who delivered an informative talk on advanced microwave, MM-wave, and THz devices, antennas, and system technologies. The program commenced with an inaugural address by Dr. Rina Paladhi, Honorable Director of TIU, followed by an inspiring speech on DRDO's achievements by Prof. (Dr.) Debasis Chaudhury. Additional addresses by Prof. (Dr.) Sudarshan Chakraborty and Prof. (Dr.) Buddhadev Pradhan emphasized the relevance of the seminar topic. Prof. (Dr.) Sandeep Mukherjee introduced the speaker, and during the technical session, Prof. (Dr.) Madhumita Chakraborty provided a comprehensive overview of microwave and MM-wave circuits, components, and applications in consumer, industrial, biomedical, and chemical domains. She also discussed electromagnetic radiation hazards and answered audience queries. The session, which lasted approximately two hours, was highly informative and beneficial for students and faculty. The seminar concluded with a vote of thanks by Prof. (Dr.) Buddhadev Pradhan, Professor and HOD, ECE Department. The event was expertly organized by Prof. (Dr.) Abhiro Mukherjee and Dr. Harekrishna Chatterjee, with poster design contributions by Mr. Sayan Das. The seminar was a resounding success, providing valuable insights to the academic community.

**TECHNO INDIA UNIVERSITY**  
WEST BENGAL

**DRDO**  
DEFENCE RESEARCH ORGANISATION  
MINISTRY OF DEFENCE

**ISTE**  
INDIAN SOCIETY FOR TECHNICAL EDUCATION

**SEMINAR ON:**  
"RECENT TRENDS IN THE DESIGN AND FABRICATION OF  
MICROWAVE AND MILLIMETER WAVE SEMICONDUCTOR  
DEVICES"

**EVENT DATE:** 18TH  
AUGUST 2023

**VENUE:**  
SEMINAR  
HALL, GROUND  
FLOOR, TECHNO  
INDIA UNIVERSITY  
WEST BENGAL

**SPEAKER:**  
PROF. (DR.) MADHUMITA  
CHAKRABORTY, DIRECTOR, CMSDS, DRDO

**TIME:** 2PM  
ONWARDS

"E-CERTIFICATES WILL BE  
PROVIDED ON SUCCESSFUL  
PARTICIPATION"

ORGANIZED BY: ISTE STUDENT CHAPTER,  
DEPARTMENT OF ECE, TECHNO INDIA  
UNIVERSITY

SCAN TO  
REGISTER



## ➤ *Institute of Engineer (IEI)*

### ❖ **A REPORT ON SEMINAR ON “INNOVATIONS IN PLANNING & CONSTRUCTION OF SCIENCE CITY**

The Department of Civil Engineering at Techno India University, West Bengal organized an insightful event on December 7, 2023. The session featured Mr. Animesh Kumar Saha, Retired Deputy Chief Engineer of the National Council of Science Museums, Ministry of Culture, Government of India, as the esteemed speaker. The event focused on the innovative approaches to the design and construction of Science Cities, highlighting their role as multifunctional hubs for science communication, education, and research. Mr. Saha elaborated on sustainable development practices, technological integration, and community engagement as key strategies in planning and executing these projects. He

also emphasized the importance of using advanced materials, smart technologies, and inclusive planning to set new benchmarks in urban development. The session, attended by approximately 40 students, provided valuable insights into the confluence of creativity, technology, and sustainability in urban planning. The event concluded successfully, enriching participants with knowledge and inspiration for future endeavors in engineering and urban development.



### ❖ AWARD OF STUDENTS CHAPTER AT DEPARTMENT OF CIVIL ENGINEERING, TECHNO INDIA UNIVERSITY IN 2024

On 25th July, 2024 Department of Civil Engineering of Techno India University received the certificate of Students Chapter from The Institution of Engineers (India) with membership number 700091/TIUK/CV.



### ❖ PLANT VISIT AT JAI HIND JAL PRAKALPA

A plant visit was organized to provide Civil Engineering students with practical exposure to the operations of a 30 MGD water treatment plant, aligning with their Environmental Engineering curriculum. The session was led by Mr. Anwarul Haque, Sub-Assistant Engineer of the plant, who demonstrated the entire process through a showcase model and a physical tour of the plant. The raw water, sourced from Bagbazar through a 1300 mm diameter pipe, undergoes sedimentation in the primary and pre-settling tanks, followed by treatment in the clariflocculator using alum, filtration through filter beds, and disinfection in the chlorine dosage tank before distribution. Students observed all unit

Operations, including the intake pit, sedimentation tanks, clariflocculators, filter beds, chemical storage, pump house, and distribution channels. Faculty members Dr. Sushovan Sarkar and Mr. Minangshu Baidya participated actively in the visit, which aimed to deepen students' understanding of water treatment processes. The visit provided hands-on learning about physicochemical processes, the use of chemicals, and the operation of various pumps and treatment units. Students gained substantial technical knowledge and practical insights into water treatment, fostering increased interest and understanding of Environmental Engineering. A banner prepared for the event accompanied the group, emphasizing the importance of such experiential learning initiatives.

**TECHNO INDIA UNIVERSITY**

**THE INSTITUTION OF ENGINEERS (INDIA)**  
INCORPORATED BY ROYAL CHARTER 1847

**Department of Civil Engineering**  
is going to organize  
**A PLANT VISIT AT JAI HIND JAL PRAKALPA**  
(A 30 MGD Water Treatment Plant)  
With B.Tech Civil students.

**ON**  
**14th August'24**  
**(Wednesday)**

<https://www.technoindiauniversity.ac.in>

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**IEI**

**Newsletter**  
Students' Chapters

August 2024

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**ALL INDIA STUDENTS' COMMITTEE (AISC)**  
Session 2023-24

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- Dr G Venkata Subbalah
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**News of Technical Activities from Engineering College Students' Chapter**

**Swarnandhra College of Engineering and Technology, Seethampuram (Andhra Pradesh)**

The IEI Students' Chapter, Department of Civil Engineering had organized a Guest Lecture on "Public Perception about Electric Vehicles in India" on 05 July 2024.



Glimpse of the event

**TKM Institute of Technology, Kollam (Kerala)**

The IEI Students' Chapter, Department of Computer Science and Engineering organized a Seminar on "Launching Your Career from Campus to Corporate" on 23 July 2024.



View of the speaker addressing the participants

**Eastern Zone**

**St. Thomas' College of Engineering & Technology, Kolkata (West Bengal)**

The IEI Students' Chapter, Department of Information Technology, had arranged a Workshop on "Intellectual Property Rights and Intellectual Property Management for Start-Ups" on 29 April, 2024.



Speaker delivering lecture on the topic

**Techno India University, Kolkata (West Bengal)**

The IEI Students' Chapter organized a Plant Visit to 30 MGD Water Treatment Plant at Jai Hind Jol Prokolpo, Science City Dhapa, Kolkata on 14 August 2024



Glimpses of the Plant Visit

**Western Zone**

**AISSMS College of Engineering, Pune (Maharashtra)**

The IEI Students' Chapter Department of Electronics & Telecommunication Engineering organized an Expert Talk on "Improving Analytical Skills" on 22 July 2024.



Glimpse of the event

❖ **Publication of Events in News Letter of IEI**

Event organized by Civil Department (Plant Visit on 14.08.24) is published in IEI Students Chapters Newsletter Issue August in page number 6 of Newsletter and circulated across the country

# A Full Revolution Departmental Activities

## *Department of Mathematics*

### **Departmental Achievements**

#### **Participation in International/National Conferences/Seminars/Workshops and FDPs**

- Dr. Oshmita Dey served as the Technical Session Organizing Chairperson at the IEEE International Conference on Computer, Electrical & Communication Engineering (ICCECE), organized by Techno India University, West Bengal on January 19-21, 2024.
- Dr. Oshmita Dey served as the Inauguration and Valedictory Session Organizing Chair at the Grand Finale of the Smart India Hackathon 2023 (Software Edition) hosted by Techno India University, West Bengal, Salt Lake, Kolkata 700091, West Bengal, India, on December 19 - 20, 2023.
- Dr. Oshmita Dey served as the Event Organizing Chair and Dr. Sayan Sengupta, Dr. Kaushik Chakraborty served as Organizing Members at the Taylor and Francis International Conference on Security, Surveillance and Artificial Intelligence (ICSSAI) 2023 organized by Techno India University on 1st and 2nd December 2023.
- Dr Mourani Sinha and Dr Mukulika Brahma participated as coordinator to “Smart India Hackathon 2023 – Software Edition” at nodal center – Techno India University, West Bengal during 19th to 20th December 2023.
- Dr. Oshmita Dey, Dr. Sayan Sengupta, Dr. Chirantan Mondal, Dr Kamalika Chakraborty and Dr Mukulika Brahma attended a one-Day National Level Webinar on History of Science organized by Calcutta Mathematical Society, on 6th September 2023.

- Dr. Oshmita Dey participated in a Panel Discussion on “Multifarious Representations of Nineteenth-century Colonial India in Science Fiction” for the Second Annual Conference of The Incredible Nineteenth Century organized by the Middle Tennessee State University on 26th April 2024.
- Dr. Oshmita Dey participated in the National Seminar on Mental Wellness organized by the Dept of Psychology, TIU on February 22, 2024.
- Dr. Oshmita Dey presented a paper titled “An integrated vendor-buyer production-inventory model with quality control and emissions” in the International Conference on Mathematical Analysis and Applications in Modeling (ICMAAM - 2023) organized by Jadavpur University on 9th-11th October, 2023.
- Dr. Chirantan Mondal presented a paper titled “Bundling or not? Determining optimal strategy for complementary products in a closed-loop supply chain” in the International Conference on Mathematical Analysis and Applications in Modeling (ICMAAM - 2023) organized by Jadavpur University on 9th-11th October, 2023.
- Dr. Oshmita Dey conducted a Workshop under “Math Circle” as a part of RAA-PMSHRI scheme of activities at KV Ballygunge on February 7 and February 12, 2024.
- Dr. Oshmita Dey, Dr. Mukulika Brahma, Dr. Sayan Sengupta, Dr. Kaushik Chakraborty, Dr. Kamalika Chakraborty, Dr Mourani Sinha, Dr. Anushree Samanta and Dr. Chirantan Mondal participated in a One Day Workshop on NEP 2020 – Plan for Implementation organized by NITTTR, Kolkata on 1st August 2023.
- Dr. Chirantan Mondal participated in “ChatGPT and Other AI Tools for Researchers” organized by Nuhianwali Education Society, Nuhianwali, Sirsa (Haryana) India held from 14th - 16th May, 2024.
- Dr Mukulika Brahma attended an Online Workshop on Intellectual Property Rights (IPR) & Patents and Design filing organised by R & D Cell of E & TC Dept. of College of Engineering and Technology & G K Pate (Wani) Institute of Management, Pune in association with Rajiv Gandhi National Institute of Intellectual Property Management (RGNIIIPM) Government of India, Nagpur (Under National Intellectual Property Awareness Mission) held on 8th September, 2023.
- Dr. Oshmita Dey, Dr. Sayan Sengupta, Dr. Chirantan Mondal, Dr. Anushree Samanta, Dr. Jyotirmoy Poddar and Dr Mukulika Brahma participated in a Five-Day International Online FDP on Exploring Recent Trends in Applied Mathematics and Machine Learning held from 20th May 2024 to 24th May 2024 by the Department of Mathematics at Koneru Lakshmaiah Educational Foundation (Deemed to be University), Bachupally Campus, Hyderabad.
- Dr. Chirantan Mondal participated in a One-week FDP on Mathematical and Computational Aspects of Industry 4.0 organized by Haldia Institute of Technology, Haldia held from 3rd June to 7th June, 2024 by.
- Dr Oshmita Dey, Dr Mukulika Brahma, Dr Anushree Samanta, Dr Jyotirmoy Poddar, Dr Kaushik Chakraborty, and Dr. Chirantan Mondal attended One Week Faculty Development Program on “Methods for Improving Higher Education Teaching Quality Using Outcome Based Education, Pedagogy Approach and NEP 2020” ( OBENEP24 ), organised by Department of Computer Science and Engineering in association with IQAC, Haldia Institute of Technology held from 22nd – 26th, July, 2024.

## **Publications (Books / Articles /Journals/Papers)**

- Khan, W.F. and Dey, O. (2024) ‘A fuzzy random periodic review mixture inventory model with backorder price discount’, Int. J. Operational Research, Vol. 49, No. 1, pp.47–64. <https://doi.org/10.1504/IJOR.2024.136007>
- Sinha, Mourani., Bhattacharya, M., Seemanth, M., & Bhowmick, S. A. (2023). Probabilistic Models and Deep Learning Models Assessed to Estimate Design and Operational Ocean Wave Statistics to Reduce Coastal Hazards. Geosciences, 13(12), 380. <https://doi.org/10.3390/geosciences13120380>

- Sitangshu Roy, Nabonita Pal, Mourani Sinha, SufiaZaman and Abhijit Mitra (2024), Application of computer language to evaluate carbon credit from mangroves of Indian Sundarbans, *Journal of Environment and Sociobiology*, 20(2), 173-180. <https://www.informaticsjournals.com/index.php/jes/article/view/43074>
- Susmita Biswas and Mourani Sinha (2024), Spatio Temporal Analysis Of Swell Waves During FANI And TITLI Cyclones Using Empirical Orthogonal Function Analysis, *Educational Administration: Theory And Practice*, 30(4), 8874-8882. <https://doi.org/10.53555/kuey.v30i4.2876>
- Mallick, P., Sinha, Mourani., Poray, J., Banerjee, A., Sarkar, S., & Ghosh, A. (2024). Recognition of altered gene-gene interaction using BiLSTM in different stages of lung adenocarcinoma. *Procedia Computer Science*, 235, 1213-1221. <https://doi.org/10.1016/j.procs.2024.04.115>
- Chirantan Mondal and Bibhas C. Giri (2024). Pricing and bundling strategies for complementary products in a closed-loop green supply chain under manufacturers' different behaviors. *Expert Systems With Applications*, 238, 121960. <https://doi.org/10.1016/j.eswa.2023.121960>
- B. Roy , K. Chakraborty, M. Mandal and S. K. Sardar (2024). On matrix semiring over the extended tropical semiring ; *Asian-European Journal of Mathematics*, 17:04, <https://doi.org/10.1142/S1793557124500190>
- Sinha, Mourani., Biswas, S. (Dec 2023). Wind-Wave Relationship Compared Between the Arabian Sea and Bay of Bengal Regions Using Numerical Ocean Models, Genetic Algorithm, and Scatterometer Wind Fields. In: Ergüler, Z.A., et al. *Selected Studies in Geotechnics, Geo-informatics and Remote Sensing. CAJG 2020. Advances in Science, Technology & Innovation. Springer, Cham.* [https://doi.org/10.1007/978-3-031-43759-5\\_2](https://doi.org/10.1007/978-3-031-43759-5_2) (BOOK CHAPTER)
- Sinha, Mourani., Bhattacharya, M. (Dec 2023). A Probabilistic Approach to Estimate Design Wave Parameters and Extreme Wave Return Values for 100 Years in the Indian Ocean. In: Kallel, A., et al. *Selected Studies in Environmental Geosciences and Hydrogeosciences. CAJG 2020. Advances in Science, Technology & Innovation. Springer, Cham.* [https://doi.org/10.1007/978-3-031-43803-5\\_2](https://doi.org/10.1007/978-3-031-43803-5_2) (BOOK CHAPTER)

## Departmental Events

- As part of the ongoing Invited Lecture Series, Prof. Dr. Guruprasad Samanta, Professor, Department of Mathematics, IEST Shibpur delivered a lecture on "Mathematical Modelling of Ecological Systems" on October 12, 2023.
- As part of the ongoing Invited Lecture Series, Prof. Dr. Swarup Poria, Professor, Department of Applied Mathematics, University of Calcutta delivered a lecture on "Distinguished Features of Nonlinear Ordinary Differential Equations" on April 23, 2024.

## List and details of Achievement (Academic and Non-Academic) of the students, faculty/staff members

- Dr Mourani Sinha received external funding and became the coordinator for Divya Sampark iHUB Roorkee for Devices Materials and Technology Foundation, (A joint initiative of Department of Science and Technology, Govt. Of India and IIT Roorkee, under National mission on interdisciplinary Cyber Physical systems- NMICPS) effective at TIU as of 11th March 2024.
- Dr. Jyotirmoy Poddar received his PhD degree from Kalyani University on January 17, 2024.
- Dr. Sayan Sengupta, Dr. Chirantan Mondal and Dr. Anushree Samanta attended an IP Awareness/Training program under Nation Intellectual Property Awareness Mission by Intellectual Property Office, India on September 08, 2023.
- Dr Mukulika Brahma attended My Story-Motivational Session by successful innovator – Speaker Mr. Kumar Nikhil held on 29 November 2023 organised by IIC, Techno India University.
- Dr Mukulika Brahma attended an Invited Lecture on Innovations in Planning and Construction of Science City by Animesh Kumar Saha organised by IIC, TIU held on 7 December, 2023.
- Under the co-supervision of Dr Mourani Sinha Sitangshu Roy got his Ph.D. degree awarded (06.05.2024). Title of the thesis: "Application of computer language and numerical model to analyse environmental data of varied ecosystems".

# *Department of English*

## **Departmental Achievements**

### **Participation in International/National Conferences/Seminars/Workshops and FDPs**

- Dr. Sucheta Kapoor attended the Somendranath Basu Memorial lecture titled 'Bhasha, Chitra, Kalpo: Rabindranath O Kafka' delivered by Sukanta Chaudhuri, Professor Emeritus, Jadavpur University organized by the Tagore Research Institute, Kolkata on July 18, 2024.
- Dr. Sucheta Kapoor attended a special session on Artificial Intelligence addressed by Professor Gautam Roy Chowdhury, Honourable Chancellor, Techno India University, West Bengal organized by Techno India University, West Bengal on June 11, 2024.
- Dr. Sucheta Kapoor and Dr. Shantanu Majee visited a guided exhibition of sketches by painter KG Subramanyan with the students and colleagues of the English department, Techno India University, West Bengal organized by the Seagull Foundation for the Arts' initiative History for Peace on February 13, 2024.
- Dr. Sucheta Kapoor, Satarupa Sengupta, Dr. Debarati Chakraborty, Dr. Koyel Chanda participated in a literary session addressed by French author Clarence Boulay organized by the Alliance Francaise du Bengale and the French Institute in India at Techno India University, West Bengal on September 26, 2023.
- Dr. Sucheta Kapoor, Dr. Satarupa Sengupta, Dr. Debarati Chakraborty participated in the one-day workshop NEP 2020-Plan for Implementation by Dr. Urmila Kar, Professor NITTTR, Kolkata organized by Techno India University, West Bengal on August 1, 2023.
- Dr. Satarupa Sengupta attended the Chairman's conclave at the ICCECE 2024 conference organized by TIU on February 2, 2024.
- Dr. Satarupa Sengupta, Dr. Debarati Chakraborty attended a workshop on "Fostering Innovation for a Sustainable and Eco-Friendly Future" organized by the Intellectual Property Rights (IPR) Cell in collaboration with Institution's Innovation Council (IIC), Techno India University West Bengal on World Intellectual Property Day, 26 April 2024.
- Dr. Debarati Chakraborty, Dr. Koyel Chanda participated in the One Week Faculty Development Program on "Methods for Improving Higher Education Teaching Quality Using Outcome Based Education, Pedagogical Approaches and NEP 2020 (OBENEP24), organised by the Department of Computer Science & Engineering, in association with IQAC, Haldia Institute of Technology Techno India University from 22nd -26th, July 2024.
- Dr. Debarati Chakraborty participated in the One Week Online Faculty Development Programme titled "Cultural Studies: Indian Perspective in Literary And Social Context" organised by the Career Development Cell, Gokul Global University, Gujarat, 19-25 February 2024.
- Dr. Debarati Chakraborty was a Resource Person at the two-week Refresher Course on the theme "Comparative Literature, World Literature, and Translation", organized by the Department of Comparative Literature, Jadavpur University, and the UGC-Academic Staff College, Jadavpur University from 17th August, 2023 to 31st August, 2023.

- Dr. Debarati Chakraborty helped to organise ICSSAI -2023 at Techno India University, West Bengal on 1-2 December 2023.
- Dr. Debarati Chakraborty chaired a session at the National Conference on War and Literature, organised by the Department of English, St. Xavier's University, Kolkata - 17-18 January 2024.
- Dr. Debarati Chakraborty was the emcee at ICCECE conference at TIUWB from February 1-3, 2024.
- Dr. Debarati Chakraborty chaired a session at the 15th Debrupa Bal International Students 'Seminar on the 'Impossible!: Politics, Possibilities and Celebration', organised by the Department of Comparative Literature, Jadavpur University, Kolkata on 6- 7 of February, 2024.
- Dr. Debarati Chakraborty chaired the first session at Palaver XVII, International Conference for the Scholars of African Studies, organised by Centre for Studies In African Literatures and Cultures, Jadavpur University, Kolkata on 19-20 March, 2024.
- Dr. Shantanu Majee was invited as a Resource Person in ICSSR sponsored International Conference on "Creative Commons" at Gour Mahavidyalaya, Malda between August 30 - September 2, 2023.
- Dr. Shantanu Majee was invited for a special lecture on "Digital Humanities in Indian Classrooms" by the Northeast Audio Visual Archive Nodal Centre at Nar Bahadur Bhandari Government College, Sikkim on September 4, 2023.
- Dr. Shantanu Majee was invited for a special lecture on Digital Education and Empowerment as part of the NEP curriculum organised by Loreto College, Kolkata on September 14-15, 2023.
- Dr. Shantanu Majee participated in the live webinar on "Leadership Skills Through Literature" organised by Higher Ed for All on September 21, 2023.
- Dr. Shantanu Majee presented a paper titled "Prioritizing Pedagogy in Victorian Studies from the Global South" at the International Conference on Towards World Critical Theory? Contributions from the Global South organised by the Postcolonial Studies Association of the Global South and held at the Institute of Language Studies and Research, Kolkata on December 4-5, 2023.
- Dr. Shantanu Majee participated in the International Conference on Romantic Women Writers organised by Jadavpur University on November 24-25, 2023.
- Dr. Shantanu Majee was invited as a member of the panel and Distinguished Speaker on the Book Release of the Bengali Translation of Ramdas Bhatkal's "Jagadamba" organised by Jadavpur University on January 10, 2024.
- Dr. Shantanu Majee presented a paper entitled "Woman's Brain, Man's Brain" in the International Conference on "Mind Matters" organised by Rabindra Bharati University on January 19-20, 2024.
- Dr. Shantanu Majee was invited to Chair a Panel at Kolkata International Book Fair organised by the United States Consulate General on January 23, 2024.
- Dr. Shantanu Majee was invited to Chair a Panel and presented a paper at the International Conference on "Global Anthro-scene: Rethinking Sustainability and Cultural Presentation" organised by the Department of English, Jadavpur University, on January 30-31, 2024.
- Dr. Shantanu Majee participated in the Two-day International Workshop on "Redefining Cultural Heritage" on February 2-3, 2024. The presentation was a part of the Research Project titled "Redefining for India the Role of Intangible Cultural Heritage", conducted by Jadavpur University and University of Liverpool, and supported by the Scheme for Promotion of Academic and Research Collaboration (SPARC), Government of India.
- Dr. Shantanu Majee presented a paper on Memory Studies at an International Conference on Memory Studies titled "Mapping Memory: History, Texts and Cultures" organised by Loreto College, Kolkata on February 22-23, 2024.

- Dr. Shantanu Majee was invited as a resource person to deliver a lecture on “Performance Studies: An Introduction and Career Prospects” for the Add-On Course on “Performance Studies” jointly organised by the Department of English and IQAC, Ghoksadanga Birendra Mahavidyalaya and the Department of English and IQAC, Dhupguri Girls’ College, on February 24, 2024.
- Dr. Shantanu Majee presented a paper on Victorian Women in a State-level Conference Panel on Victorian Studies entitled “The Great Victorian Transformations: Looking Back and Ahead” organised by Gour Mahavidyalaya on April 13, 2024.
- Dr. Shantanu Majee proposed and chaired a Panel on “Folklore and India” and presented a paper entitled “Conservation of Folklore and Intangible Cultural Heritage in India” in the International Conference on the Incredible Nineteenth Century organised by the Middle Tennessee State University on April 26, 2024.
- Dr. Shantanu Majee was invited for a special lecture in a panel discussion on “Career Prospects in Digital Humanities” with special reference to Digital Archiving and Cultural Heritage organised by Adamas University on May 19, 2024.
- Dr. Shantanu Majee was invited as a resource person to deliver a lecture on “Dance as Performance” for the Add-On Course on “Performance Studies” jointly organised by the Department of English and IQAC, Ghoksadanga Birendra Mahavidyalaya and the Department of English and IQAC, Dhupguri Girls’ College, on June 8, 2024.
- Dr. Debarati Chakraborty, Dr. Shantanu Majee, Dr. Koyel Chanda attended a special lecture delivered by Dr. Ahmed Ahsanuzzaman, Professor, Dept of English, Independent University, Bangladesh in a special program organised by Department of English, Techno India University, West Bengal on Oct 3, 2023.
- Dr. Debarati Chakraborty, Dr. Shantanu Majee, Dr. Koyel Chanda participated in the National Seminar on Mental Wellness, organised by the Department of Psychology, Techno India University on 22nd February 2024.
- Dr. Koyel Chanda presented a paper titled, ‘Intersections of Science and Feminist Utopias: Reimagining Gender Roles in Sultana’s Dream’ in the 2nd Annual Conference organised by The Incredible Nineteenth Century: Science, Fiction, Fantasy and Fairy Tale Journal of Middle-Tennessee State University on 26th April 2024.
- Dr. Koyel Chanda presented a paper titled, ‘The Consciousness of the Unconscientious Germ: Open Systems, Climate Change and Pathogens in The Illuminatus Trilogy’ in the Two-day International Conference on “Global Anthro-scene; Rethinking Sustainability and Cultural Preservation” organised by Jadavpur University on 30-31 January 2024.
- Dr. Soumava Maiti presented a paper on “Naturphilosophie, Climate and Romantic Anthropology”, in a conference on “Postanthropocentric Mappings in the era of Climate Crises,” organised by Dept. of Humanities and Social Science, IIT Kharagpur from 01-03 Nov 2023,

- Dr. Soumava Maiti presented a paper on “Subaltern Planerarity” in a conference on “Reimagining Planerarity: Planerarity and the Earth Family,” organised by Dept. of English, Banaras Hindu University on 24-25 Nov 2023.
- Dr. Nibedita Paul presented a paper titled, ‘In Quest for Dutiful Wives: Bratakathas and Women in Folklore of 19th Century Colonial Bengal’ in the 2nd Annual Conference organised by The Incredible Nineteenth Century: Science, Fiction, Fantasy and Fairy Tale Journal of Middle-Tennessee State University on 26th April 2024.
- Dr. Nibedita Paul presented a paper titled, ‘Letters and Education: Exploring the 19th Century Periodical Letters of Bengal’ in the Two-Days Online Conference on Approaches to Women’s Letters, 1660-1860 organised by The Chawton House, East Hampshire, England held on 1st and 2nd September 2023.
- Dr. Nibedita Paul successfully completed the Faculty Development Programme titled ‘Understanding the Many Nuances of Indian Art and Architecture: An Aesthetic Journey’ organised by St. Paul’s Cathedral Mission College, Kolkata and Surendranath College for Women, Kolkata held in the blended mode from October 8th – 16th, 2023.

### **Publications (Books / Articles /Journals/Papers)**

- Kapoor, Sucheta. “The Enslaved Man in Un Cœur simple: A Story within a Story.” Colonial Continuities and Decoloniality in the French-Speaking World: From Nostalgia to Resistance, edited by Sarah Arens, Nicola Frith and Rebekah Vince, Liverpool University Press, 2024, pp. 219-236.
- Sengupta, Satarupa. “Visibility through Distributive and Corrective Justice: A Reading of Munshi Premchand’s ‘The Woman Who Sold Grass’ and M.M. Vinodini’s ‘The Parable of the Lost Daughter’”, Smart Moves International Journal of English Language, Literature and Humanities 12.2 (February2024).
- Sengupta, Satarupa. Book chapter on Amitav Ghosh’s The Hungry Tide and Gun Island has been accepted for publication in the anthology “Emerging from the Rubble: Asian /American Writings on Disasters” (forthcoming, Vernon Press).
- Chakraborty, Debarati. “The Politics of Remembering and Forgetting: The Plurality of Subjectivity in Memories of “Desh”” in Elwin Susan John, Amal P Mathews ed. Media Technology and Cultures of Memory: Mapping Indian Narratives. Taylor and Francis, Rout ledge: London. 2023(ebook), 2024 (print). DOI: <https://doi.org/10.4324/9781003350330>, eBook ISBN9781003350330.
- Majee, Shantanu. “‘Umar ka Lihaz’: Ageism in Indian Classical Dance”. Ageing Bodies, Ageist Culture: Growing Older in India, edited by Paromita Chakravarti and Kaustav Bakshi. Rout ledge, 2023.
- Majee, Shantanu. “Translation as a Career”. Career Guidance: Choices Before You, edited by Manas Kabi and Chandramalli Sengupta. Asutosh College, 2023.
- Majee, Shantanu. “Decolonising Victorian Pedagogy: A Methodology for Engaging with Literary Commons from the Global South”. In Search of Creative Commons: Crisis, Catastrophe, and Responsive Literature in India, edited by Dhritiman Chakraborty, Sanchayita Paul Chakraborty and Mukunda Mishra. Springer, 2024.

- Kumar, Sukrita Paul. "Poetry was a kind of dialogue with myself". Interview by Koyel Chanda. MuseIndia.10 Nov. 2023,<https://museindia.com/Home/ViewContentData?arttype=feature&issid=112&menuid=10881>
- Chanda, Koyel. Currently co-editing a global Routledge volume titled Gender Perspectives in Media and Performance with Dr. H. Kalpana and Ms. Ashly Joshy. (Forthcoming)
- Maiti, Soumava. "Travel, Medical Affect and Romantic Planerarity" in *as a matter of Affect: Making Sense of Planerarity*. Routledge, 2024, pp. 56-70.<https://www.taylorfrancis.com/chapters/edit/10.4324/9781003461593-5/travel-medical-affect-romantic-planerarity-soumava-maiti>
- Maiti, Soumava. "Epidemic, Oriental Anxiety, and Plague Poetics in Mary Shelley's *The Last Man*" in *Panorama of the Pandemic: A Phenomenological Inquiry*. Routledge, 2024-25. [https://www.routledge.com/Panorama-of-the-Pandemic-A-Phenomenological-Inquiry/Malhotra-Nagpal-George-Roy/p/book/9781032966731?srsId=AfmBOoq1APuBJRrYtI0-C2P-h\\_D9VAwGYPo3IB0-RW2c1EHZKqxnjFC8](https://www.routledge.com/Panorama-of-the-Pandemic-A-Phenomenological-Inquiry/Malhotra-Nagpal-George-Roy/p/book/9781032966731?srsId=AfmBOoq1APuBJRrYtI0-C2P-h_D9VAwGYPo3IB0-RW2c1EHZKqxnjFC8)
- Bandyopadhyay, Mita. *Nationalism in Cinema, "Shifting Paradigms in the Discourse of Nationhood Projected through Indian Cinema"*. Cambridge Scholar Publishing, 2023.
- Bandyopadhyay, Mita. *Litflicks; Literature Adapted into Films; "Interpolating Visual Effects: A Study of The Jungle Book"*. Clever Fox Publishing, 2024.

## Departmental Events

- Alliance française du Bengale, in association with the French Institute in India, welcomed in Kolkata the French author, researcher and scenographer Clarence Boulay. The recent interactive session with the author at TIU centred on her latest book, *Tristan*, drawing an engaged audience eager to delve into her creative process. The Interactive session with French author Clarence Boulay took place on 26 September, 2023 at the CPC room.
- As a part of the special lecture series on the course "Journeys: Travel Accounts in the Age of Exploration and Colonialism", the Department of English organised two special lectures on September 27, 2023 at the SAP room. Dr. Rahi Soren, Assistant Professor, School of Oceanographic Studies, Jadavpur University, Kolkata & Dr. Nibedita Paul, Assistant Professor, Dept of English, Techno India University delivered the lectures.
- As a part of the special lecture series, the Department of English, TIUWB was delighted to have an esteemed international speaker, Prof. (Dr.) Ahmed Ahsanuzzaman, Professor, Dept of English, Independent University, Bangladesh (IUB), Dhaka. The special lecture titled "Devdas: Travels from Text to Screen" explored the enduring legacy of Sarat Chandra Chattopadhyay's iconic novella *Devdas* and its adaptations across various media.
- The students of the Department attended a curated tour to a guided exhibition of sketches by painter KG Subramanyan organized by the Seagull Foundation for the Arts' initiative History for Peace on February 13, 2024.
- The students of the Department organised a Farewell ceremony for outgoing UG and PG batches on 10 July 2024.
- The students of the Department organised Women's Day 2024 in an event coordinated by Dr. Koyel Chanda.

- A guided tour of Kolkata Book fair 2024 with students of the Department.

## **List and details of Achievement (Academic and Non-Academic) of the students, faculty/staff members**

- Debjani Sanyal, PhD scholar participated in a Webinar - 'Ensuring Academic Integrity in the Era of Artificial Intelligence' held on March 20, 2024 and organized by Association of Indian Universities and Turnitin.
- Kausani Nandi, PhD scholar, Participated in One Day Online International Workshop on “Translation Studies” organized by Amity School of Languages at Amity University Chhattisgarh, Raipur on 30th September 2023.
- Kausani Nandi, PhD scholar, Participated in Webinar on “Leadership Skills Through Literature” organized by HigherEd for All on 21st September 2023.
- Kausani Nandi, PhD scholar, KAUSANI NANDI Participated in Webinar on Online Symposium: The Fairy/Witch Paradigm in Italian Popular Culture Organized by University of Cambridge. On 4th and 5th December 2023.
- Kausani Nandi, PhD scholar, Participated in Two Day International Workshop on Redefining Cultural Heritage organized by School of Media Communication and Culture, Jadavpur University on 2nd and 3rd February 2024.
  
- Kausani Nandi, PhD scholar, Participated in Online Workshop on “Redefining Tangible and Intangible Cultural Heritage: A Four Day Workshop Exploring Global Perspectives and Practices and their Lessons for India” organized by Center for Promotion of Academic and Research Collaboration with University of Liverpool.
- Tulika Chatterjee, PhD scholar, presented a paper titled, ‘English as Lingua Franca’ in the 3rd Annual Media Conference organised by Sister Nivedita University on 27th September 2024.
- Krittika Das, PhD scholar participated in the FDP on INNOVATION TEACHING AND LEARNING PEDAGOGY from 9 January 24 to 13 January 24.
- Krittika Das, PhD scholar, participated in NIIT TRICHY-UNESCO CHAIR FDP on READING AND RESEARCHING THE LITERATURE OF CRISIS from 22nd Jan 24 to 28th Jan 24.
- Krittika Das, PhD scholar participated in the FDP on NEP 2020 POLICY WITH REFERENCE TO NAAC PERSPECTIVE from March 18 to March 24.
- Krittika Da, PhD scholar, participated in the FDP on AICTE UHV-I from 11th March 24 to 15th March 24.
- Krittika Das, PhD scholar participated in the FDP on AICTE-UHV-II from 25th March 24 to 30th March 24.
- Krittika Das, PhD scholar, participated in the STP—Short Term Program on SDGs, Precarity, and Literary Studies— from July 1st to 6th, 2024, organised by the MMTTC, University of Hyderabad.
- Krittika Das, PhD scholar participated in the FDP on- RESEARCH PAPER WRITING from 1st July to 8th July 2024.

- Ananya Chatterjee, PhD scholar, published an article entitled “Hijra Autobiographies as Trans Literature” in The Routledge Handbook of Trans Literature (ISBN 9781032431550) by Routledge in 2024.
- Ananya Chatterjee, PhD scholar, published an article entitled “Women’s Autobiographies: Conditional Agency and Empowerment of Nineteenth Century Bengali Widows,” in Literature in Life: Decoding the Muffled Voices (ISBN 9392469855) by Pacific Books International in 2024.
- Pragati Das, PhD scholar, delivered an invited lecture titled “Sustainable Development Goal 5: Gender Equality” delivered on 13 April 2024 in the Certificate Course on Gender, Media and Culture, conducted by the Department of English (in collaboration with IQAC) of Mahadevananda Mahavidyalaya from 08 Apr. 2024 to 16 Apr. 2024.

2 PM, October 3, 2023  
SAP Room, 4th Floor  
Techno India University, West Bengal

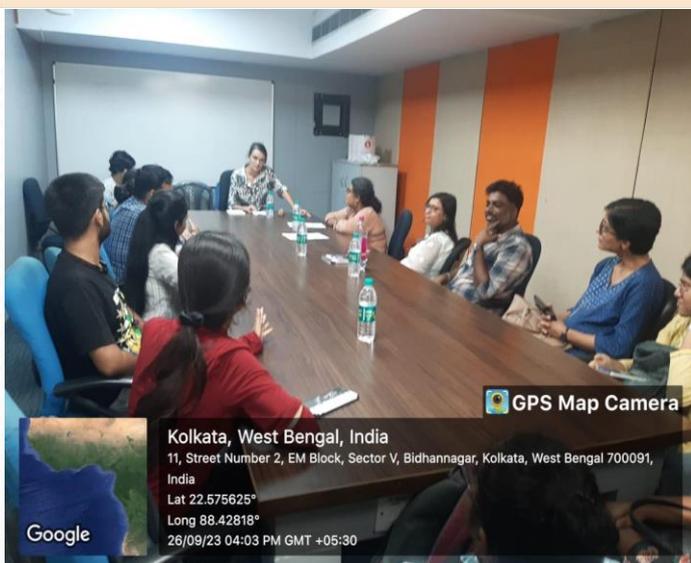
Department of English  
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**SPECIAL LECTURE SERIES**  
Sharatchandra Chattopadhyay's  
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Independent University, Bangladesh  
(IUB), Dhaka

DEPARTMENT OF ENGLISH  
presents  
**SPECIAL LECTURE SERIES**  
**Journeys: Travel Accounts in the Age of Exploration and Colonialism**  
Lecture 1:  
Darwin's Travels by Dr. Rahi Soren  
Lecture 2:  
Colonial Bengal and Travel Writing:  
Looking into Krishnabhabini Das's  
"England e Bongomahila" by Dr.  
Nibedita Paul

Dr. Rahi Soren  
Assistant Professor  
School of Oceanographic Studies,  
Jadavpur University

Dr. Nibedita Paul  
Assistant Professor  
Department of English, TIUWB

27 SEP 12 - 5 PM  
SAP Room, 4th Floor  
Techno India University,  
West Bengal



## Department of Chemistry

### Departmental Achievements

#### Participation in International/National Conferences/Seminars/Workshops and FDPs

- Dr. Arup Ratan Biswas participated in a single day seminar on “Angel Investment or VC funding opportunities for Early Stage Entrepreneurs” organized by Institution’s Innovation Council- Techno India University, West Bengal, on 31st August, 2023.

- Dr. Arup Ratan Biswas participated in One-Day National Webinar entitled “Artificial Intelligence and Future of Education” organized by UGC-Malaviya Mission Teacher Training Centre (UGC-MMTTC/GAD-MMTTC), SGTB Khalsa College, University of Delhi, held on 09th March 2024. Unique Certificate Code: GAD-MMTTC-23-24-WEB-95-200.
- Dr. Arup Ratan Biswas received the certificate of excellence in peer reviewing the manuscript entitled “Effects of targeted-edited oncogenic insulin-like growth factor-1 receptor with specific-sg RNA on biological behaviours of HepG2 cells” bearing the manuscript number - Ms\_BP\_11781F awarded in recognition of an outstanding contribution to the quality of books entitled “Advancement and New Understanding in Medical Science”. Certificate number: BPI/PR/Cert/11781F/DRA.
- Dr. Arup Ratan Biswas received the certificate of excellence in peer reviewing the manuscript entitled “Genome-wide repression of extra chromosomal circular DNA in Plants A-Review” bearing the manuscript number Ms\_AJBGE\_116072 awarded in recognition of an outstanding contribution to the quality of the Journal entitled “Asian Journal of Biotechnology and Genetic Engineering”. Certificate No: PRAJBGE116072ARU
- Dr. Arup Ratan Biswas participated in One-Day National Webinar entitled “GI Cancers: Oesophageal, Stomach & Colon Cancers” organized by Indian Cancer Society, Delhi in collaboration with UGC-Malaviya Mission Teacher Training Centre (UGC-MMTTC/GAD-MMTTC), SGTB Khalsa College, University of Delhi held on 01st May 2024. Unique Certificate Code: GAD-MMTTC-24-25-WEB-GI-052.
- Dr. Arup Ratan Biswas participated in One-Day National Webinar entitled “Is Air Pollution Responsible for Increasing Rate of Lung Cancer?” organized by UGC-Malaviya Mission Teacher Training Centre (UGC-MMTTC/GAD-MMTTC), SGTB Khalsa College, University of Delhi in collaboration with Indian Cancer Society, Delhi held on 02 March 2024. Unique Certificate Code: GAD-MMTTC-23-24-WEB-94-105.
- Dr. Arup Ratan Biswas received the certificate of appreciation on successful completion of a weeklong workshop on “Basic Biostatistical Data Analysis using SPSS”, organized by Science Tech Institute, Lucknow, Registered by : Govt. of UP & Ordinance No. 21 of 1860 Reg. No. LUC/03140/UP, India as well as Registered by: Govt. Of India, NITI Aayog, Reg. No. UP/2019/0248444 bearing the certificate number- 20232109416 from 21st September to 27th September, 2023.
- Dr. Sudip Kumar Ghosh took part in the "Who will win the #Chem Nobel?" ACS webinar. Forecasting the Chemistry Nobel Laureate(s) for 2023".
- Dr. Sudip Kumar Ghosh participated in the seminar on “Angel Investment or VC funding opportunities for Early Stage Entrepreneurs” organized by Institution’s Innovation Council- Techno India University, West Bengal on 31st August,2023.
- Dr. Moumita Ghosh, organized a webinar on the theme “Start-up” entitled “Angel Investment or VC Funding Opportunity for Early Stage Entrepreneurs” organized by Techno India University, West Bengal on 31.08.23.
- Dr. Moumita Ghosh was actively involved in organizing “Smart India Hackathon-2023” in Techno India University on 18.12.23 to 20.12.23.
- Dr. Moumita Ghosh organized a seminar on “Process of Innovation Development, Technology Readiness Level (TRL) Commercialization of Lab Technologies and Tech Transfer” organized by Techno India University, West Bengal on 20.02.2024.
- Dr. Moumita Ghosh participated in a panel discussion with “Innovation and Start-up Enablers” organized by IIC Techno India University on 26.07.23.

- Dr. Moumita Ghosh participated in a workshop on "NEP 2020-Plan for Implementation" organized by IIC Techno India University on 01.08.23.
- Dr. Moumita Ghosh participated in a webinar on "Motivational Session by Successful Innovator" organized by IIC Techno India University on 16.11.23 and 29.11.23.
- Dr. Moumita Ghosh participated in the celebration of "Energy Conservation Day-2023" organized by IIC Techno India University, West Bengal and The Institute of Engineers (India) on 14.12.23.
- Dr. Moumita Ghosh participated in a 2-day workshop on "Design Thinking Workshop" organized by IIC Techno India University on 12.02.24 – 13-02.24.
- Dr. Moumita Ghosh participated in a poster competition on "Innovative Solutions to Emerging Areas towards Sustainability" organized by IIC Techno India University on 27.02.24.
- Dr. Moumita Ghosh participated in the celebration of "International Women's Day, 2024" organized by IIC Techno India University on 08.03.24.
- Dr. Moumita Ghosh participated in the Faculty Development Program on "Recent Advances in Chemical and Molecular Science" conducted by Amity Institute of Click Chemistry Research and Studies, Amity University Noida from 31.07.23 to 04.08.23.
- Dr. Anustup Sadhu participated in the International Virtual Conference on Molecularly Designed Functional Materials 2023 (MDFM 2023), S&T Digital on 28- 30th September, 2023.
- Dr. Anustup Sadhu participated in the collaborative research networking meeting conducted by International Society of Waste Management, Air and Water (ISWMAW), Centre for Research and Innovation, Dept. of Mechanical Engineering, IEM, Kolkata on 20th June, 2024.
- Dr. Anustup Sadhu participated in the National Webinar titled "Angel Investment or VC Funding Opportunity for Early Stage Entrepreneurs" at Techno India University, West Bengal, organized by the Institute Innovation Council (IIC), Techno India University, West Bengal, on 31st August, 2023.
- Dr. Arup Ratan Biswas received certificate of participation for successfully completing the "NEP 2020 orientation and sensitization programme under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) organized by UGC-MMTTC (GAD-MTTC) Sri Tegh Bahadur Khalsa College, University of Delhi from 2nd to 12th April, 2024.
- Dr. Arup Ratan Biswas received certificate of appreciation for successfully completing the one week long FDP (Faculty Development Program) on "Develop Skill Panorama on Research Methodology Based Data Analysis Using R", organized by Science Tech Institute Lucknow, from 21st August to 27th August, 2023.

- Dr. Arup Ratan Biswas received certificate of participation on successful completion of Five (05) days Faculty Development Program on “Recent Advances in Chemical and Molecular Science” organized by the AICCRS under the umbrella of Amity University, Noida Campus, from 31st July - 4th August, 2023.
- Dr. Sudip Kumar Ghosh completed the 8-week NPTEL-AICTE Faculty Development Program successfully, scoring a combined 87% on the "Accreditation and Outcome Based Learning" course during August – October 2023.
- Dr. Sudip Kumar Ghosh attended the Five Days Faculty Development Program on “Recent Advances in Chemical and Molecular Science” organized by the AICCRS under the umbrella of Amity University Noida Campus from 31st July - 4th August 2023.
- Dr. Moumita Ghosh attended the Five Days Faculty Development Program on “Recent Advances in Chemical and Molecular Science” organized by the AICCRS under the umbrella of Amity University Noida Campus from 31st July - 4th August 2023.

### **Publications (Books / Articles / Papers / Journals)**

- Aniket De, Manav Goenka, & Arup Ratan Biswas, “Software Analysis of CRISPR/cas-9 Mediated Genetic Editing of ‘Neu’ Oncogene in Breast Cancer Manifestation”, TIU Transactions on Human Sciences (TTHS), 2, 2023 (ISSN: 3048-4901).
- Nabanita Ghosh, Arup Ratan Biswas and Arnab Ganguli, "Mixed Species Pseudomonas Biofilms: A Novel and Sustainable Strategy for Malachite Green Dye Decolorization and Detoxification", Folia Microbiologica <https://doi.org/10.1007/s12223-024-01238-0>.
- Ghosh, N., Ganguly, A., and Biswas, A.R., “Pseudomonas lalkuanensis strain NAA 23 16S ribosomal RNA gene, partial sequence” 2023, Gen Bank: OQ179941.1.
- Ghosh, N., Ganguly, A., and Biswas, A.R., “Pseudomonas sp. strain NAA 22 16S ribosomal RNA gene, partial sequence” 2023. Gen Bank: OQ195794.1
- Post-Combustion Capture of Carbon Dioxide by Natural and Synthetic Organic Polymers, Sudip Kumar Ghosh\* and Moumita Ghosh\*, Polysaccharides, 2023, 4, 156–175. (ISSN: 2673-4176, SCI and Scopus Indexed Journal).
- Carbon Dioxide Capture by Biopolymer-Derived Porous Materials, Sudip Kumar Ghosh\* and Moumita Ghosh\*, Encyclopedia (Scholarly Community), August 2023.

### **List and details of Achievement (Academic and Non-Academic) of the students, faculty/staff members**

- Ms. Aditi Ray, Academic year (2020-2022), pass out student of Department of Chemistry, Techno India University has successfully cleared her GATE, 2023 with a score of 371 and with all India rank 3128.
- Ms. Aditi Ray has got admission in the M. Tech Program on Material Technology at National Institute of Technology, Warangal, for the academic session, 2023, based on her GATE score.

- Mr. Abhirup Das Gupta, Academic Year (2020-2022), pass out student of Department of Chemistry, Techno India University has successfully cleared his GATE,2023, with a score of 482 and all India rank 1204
- Mr. Abhirup Das Gupta has got admission in the M. Tech Program on Materials Technology at Indian Institute of Technology (IIT), Kanpur, for the academic session, 2023, based on his GATE score.

## *Department of Physics*

### **Departmental Achievements**

#### **Participation in International/National Conferences/Seminars/Workshops and FDPs**

- Dr. Krishanu Chatterjee has participated in a webinar on AI and Google tools in education on July 28, 2024, organized by Dynamic minds group.
- Dr. Krishanu Chatterjee has participated in a five days faculty development programme in “Application of AI-ML in emerging field” organized by Guru Tegh Bahadur 4th Centenary Engineering College from 29th July, 2024.
- Dr. Krishanu Chatterjee has participated in “seven days national level fdp on python” organized by Star International Foundation for Research and Education on 19.03.2024.
- Dr. Amal Kr Chakrabarti has participated in the One Week Faculty Development Programme / Short Term Training Programme on “Professional Values and Ethics” organised by National Institute of training and research from 4th December to 10th December, 2023.
- Dr. Sucheta Adhikari participated in "7 days National Level FDP on Python" organized by Star International Foundation for Research and Education during 19/03/2024 to 25/03/2024.

#### **Publications (Books / Articles / Papers/Journals)**

- Shilpa Maity, Aniket Mondal, Sukhen Das,\* and Krishanu Chatterjee\*, “Improved Thermoelectric Properties of Selenium Functionalized Pedot”, ChemNanoMat 2024, 10, e202400015 (1 of 9)

#### **List and details of Achievement (Academic and Non-Academic) of the students, faculty/staff members**

- Dr. Krishanu Chatterjee has been recognized as a reviewer for a manuscript in “Small Methods”, Wiley , 2023.

# *Department of Computer Science and Engineering*

## **Departmental Achievements**

### **Participation in International/National Conferences/Seminars/Workshops and FDPs**

- Dr. Rituparna Bhattacharya (Dept. of CSE) and Dr. Jayanta Poray (Dept. of CSBS) participated in the Data Anonymiser Hackathon, 2023 organized by the Department of IT and Electronics, Government of West Bengal in Aug 2023 and their team emerged as one of the top 6 finalists in the Hackathon."
- Prof. Sauvik Bal attended One Week Faculty Development Program on Methods for Improving Higher Education Teaching Quality Using Outcome Based Education, Pedagogical Approaches and NEP 2020 (OBENEP24)' held during 22<sup>nd</sup> to 26<sup>th</sup> July, 2024, organized by Department of Computer Science & Engineering, in association with IQAC, Haldia Institute of Technology.
- Prof. Sauvik Bal attended One-week online faculty development programme on "Recent Trends in Computational Approaches" organized by Narula Institute of Technology from 2nd to 6th January 2024.
- Prof. Sauvik Bal attended One-week National-level Short-term Training Programme (STTP) on "Crafting and Conducting Cutting-edge Research and Innovation", organized by RCC Institute of Information Technology held from January 3 to 8, 2024.
- Prof. Sauvik Bal attended a Five Days Faculty Development Program on "Recent Trends and Applications in Data Science", organized by Sister Nivedita University, Kolkata, India conducted from 26th February – 1st March 2024.
- Prof. Sauvik Bal attended One week Faculty Development Program on "Mathematical Foundation of Machine Learning" from 3rd to 7th June, 2024 organized by Techno International New Town, Kolkata.
- Dr. Subhasis Koley attended a Five – Day Faculty Development Programme on Quantum Computing: A New Paradigm of Science & Technology, held during May 13 – 17, 2024 organized by Research and Development Cell, St. Thomas's College of Engineering & Technology, Kolkata with Technical Co-Sponsorship of IEEE Kolkata Section.

- Prof. Shillpi Mishra attended a 5 Days Faculty Development Program on Recent Trends and Applications in Data Science, organized by Department of Computer Science Sister Nivedita University, Kolkata, India conducted from 26th February – 1st March, 2024.
- Prof. Shillpi Mishra attended a 5 Days Faculty Development Program on Ubiquitous Technological Convergence in Computer Science & Engineering from 15th -19th January, 2024 organized by Department of Computer Science.
- Prof. Mainak Sen participated the six-days Faculty Development Programme on “Internet of Things(IoT) with Artificial Intelligence(AI) and Machine Learning(ML)” organized by Department of Computer Science and Engineering, Academy of Technology in association with IEEE Com Soc, Kolkata Chapter held from 26th February to 02nd March, 2024.
- Prof. Mainak Sen participated in 5 Days FDP on "Effect of Generative AI in Modern Research and Industry", organized by Department of Computer Science, Sister Nivedita University, Kolkata, India conducted from 29th April 2024 - 3rd May 2024.

## **Publications (Books / Articles / Papers / Journals)**

- Chaudhuri, D., Pretorius, J.H., Das, D., & Bal, S. (Eds.). (2024). International Conference on Security, Surveillance and Artificial Intelligence (ICSSAI-2023): Proceedings of the International Conference on Security, Surveillance and Artificial Intelligence (ICSSAI-2023), Dec 1–2, 2023, Kolkata, India (1st ed.). CRC Press. <https://doi.org/10.1201/9781003428459>.
- Bal, S., Jash, K., Mandal, L. (2024). An Implementation of Machine Learning-Based Healthcare Chatbot for Disease Prediction (MIBOT). In: Das, B., Patgiri, R., Bandyopadhyay, S., Balas, V.E., Roy, S. (eds) Modeling, Simulation and Optimization. CoMSO 2022. Smart Innovation, Systems and Technologies, vol 373. Springer, Singapore. [https://doi.org/10.1007/978-981-99-6866-4\\_32](https://doi.org/10.1007/978-981-99-6866-4_32).
- Monojit Manna, Ahana Guchait, Sauvik Bal, Faizal Khan, “Human- Swarm Interaction and Collaboration”, Bio-inspired Swarm Robotics and Control: Algorithms, Mechanisms, and Strategies, DOI: 10.4018/979-8-3693-1277-3.ch005.
- N. Pramanik, P. Das, R. Roy and S. Bal, “Job Recommendation System Based on Candidate Skills,” 2024 Third International Conference on Smart Technologies and Systems for Next Generation Computing (ICSTSN), Villupuram, India, 2024, pp. 1-5, doi:10.1109/ICSTSN61422.2024.10671166.
- Saberee Chakraborty, Ranit Pal, Brishti Chaudhuri, Neha Das, Sauvik Bal, & Multilingual Dialogue Processing System: Bridging Language Barriers in Communication,” 2nd International Elsevier Conference On Women In Multifaceted Research (ICWMR - 2024), Gopal Narayan Singh University, Bihar (in press).

- Subhasis Koley and Sasthi C. Ghosh. On the Span of  $\ell$  Distance Coloring of Infinite Hexagonal Grid. Accepted for publication. International Journal of Foundations of Computer Science (IJFCS), DOI: <https://doi.org/10.1142/S012905412350020X>.
- Book Chapter: Shillpi Mishrra, "Performance Measures in Edge computing using the Queuing Model", Scriviner wiley, Volumn 2, ISBN: 978-1-394-27758-2, Pages-97-109, February 2024.
- Conference : Shillpi Mishrra, Anup Kumar Barman, Apurbalal Senapati. Morphological Analyzer: A Critical Survey. 10th International conference computers, Management & Mathematical Sciences (ICCM) 2024. (Accepted)
- Prof. Priyanka Saha - A proposed Gabor Filter Based Nested U-Net Approach for Breast Cancer Image Segmentation, Journal of Imaging Informatics in Medicine, Communicated.
- Biswas, Suvrojyoti and Bhattacharya, Rituparna (2023) A Brief Exploration on the Evolutions of Consensus Protocols in the Blockchain Architecture. International Conference on Security, Surveillance & Artificial Intelligence ICSSAI. 1-2 December, 2023. Kolkata, India
- Pal, Prashnatita, Sahana, Bikash Chandra, Poray, Jayanta, & Bhattacharya, Rituparna (2023) Efficient Attribute-Based Unbounded Inner Product Functional Encryption for Many- Authority. International Conference on Security, Surveillance & Artificial Intelligence ICSSAI. 1 2 December, 2023. Kolkata, India
- Mukherjee, Shivesh Krishna, Dave, Maheak, Bhattacharya, Rituparna, and Poray, Jayanta (2023) An anonymized patient data sharing platform using consortium blockchain. International Conference on Security, Surveillance & Artificial Intelligence ICSSAI. 1-2 December, 2023. Kolkata, India
- Pal, Prashnatita, Sahana, Bikash Chandra, Poray, Jayanta, and Bhattacharya, Rituparna (2023). Blockchain-based Cryptocurrency Payment System Model for Business-to- Consumer E-Commerce Platforms. International Conference on Cryptology & Network Security with Machine Learning. 27-29 October, 2023. Kanpur, India
- Pal, Prashnatita, Poray, Jayanta, and Bhattacharya, Rituparna (2023). Network Coverage Improvement for Citizens Broadband Radio Service via New Priority Access License. International Conference on Systems and Technologies for Smart Agriculture ICSTA 2023. 19-20 December, 2023. Kolkata, India

## Departmental Events

- "International Conference on Security, Surveillance and Artificial Intelligence (ICSSAI- 2023)", Dec 1–2, 2023, Kolkata, India.

# *Department of CSE-AIML*

## **Departmental Achievements**

### **Participation in International/National Conferences/Seminars/Workshops and FDPs**

- Dr. Abhishek Majumdar attended a 6-day Faculty Development Program on "Data Analytics- Challenges and Opportunities", conducted by the department of CSE, TMSL, between 13th and 18th May 2024.
- Dr. Abhishek Majumdar attended a one-day workshop on 'AI-Tools' and received a certificate from 'be10x'.
- Dr. Abhishek Majumdar served as a reviewer for the International Conference on Security, Surveillance and Artificial Intelligence (ICSSAI-2023).
- Dr. Abhishek Majumdar served as a reviewer for the 'International Conference on Computer, Electrical & Communication Engineering 2024 (ICCECE-2024)' organized by Techno India University.
- Dr. Rupak Chakraborty attended two-day e-Yantra Symposium 2024 on 5th & 6th April, 2024 held at Indian Institute of Technology Bombay.
- Dr. Rupak Chakraborty participated in the two-day workshop on "Introduction to Embedded Systems and Robotics" conducted on 23rd and 24th June 2023 held at Techno India University, Kolkata, West Bengal.
- Dr. Md. AAA Aman participated in the six-days Faculty Development Programme on "Internet of Things (IoT) with Artificial Intelligence(AI) and Machine Learning(ML)" organized by Department of Computer Science and Engineering, Academy of Technology in association with IEEE ComSoc, Kolkata Chapter held from 26th February to 02nd March, 2024.
- Dr. Md. AAA Aman participated in a one week Faculty Development Programme on Mathematical Foundation of Machine Learning (MFML-2024) organized by the Department of Computer Science and Engineering, Techno International New Town from 3rd to 7th June, 2024.
- Dr. Md. AAA Aman participated in the five-day Faculty Development Programme on Effect of Generative AI in Modern Research and Industry organized by the Department of Computer Science, Sister Nivedita University, Kolkata from 29th April to 3rd May, 2024.

- Dr. Arpita Dutta participated in the five-days Faculty Development Programme on Effect of Generative AI in Modern Research and Industry organized by Department of Computer Science, Sister Nivedita University, Kolkata from 29th April to 3rd May, 2024
- Dr. Arpita Dutta participated as reviewer in ICSSAI-2023 Taylor Francis International Conference organized by Techno India University, West Bengal.
- Dr. Shaswati Roy participated in the one week Faculty Development Programme on Methods for Improving Higher Education Teaching Quality Using Outcome Based Education, Pedagogical Approaches and NEP 2020 organized by Department of Computer Science & Engineering, Haldia Institute of Technology from 22nd to 26nd July, 2024
- Dr. Arpita Dutta participated in One Day Workshop on NEP-2020 Plan for Implementation organized by NITTTR Kolkata on 1st August, 2023.

### **Publications (Books / Articles / Papers / Journals)**

- Dr. Abhishek Majumdar published the research paper titled "Pneumonia Detection from Chest X-ray Plates using Attention-based CNN Architecture," presented at the International Conference on Security, Surveillance, and Artificial Intelligence (ICSSAI-2023) and published by CRC Press, spanning pages 370-376
- Dr. R. Chakraborty published a research paper on "Violent Activity Detection on Public Transportation using Surveillance Footage," in 2023 16th International Conference on Developments in eSystems Engineering (DeSE), Istanbul, Turkiye, 2023, pp. 737-742, doi: 10.1109/DeSE60595.2023.10468681, IEEE, Scopus Indexed.
- R. Chakraborty, A. Dutta, AAA Aman have published a research paper on "Image Segmentation And Medical Image Analysis Using Deep Learning And Convolution Neural Network: A Review" in ICSSAI-2023 Taylor Francis International Conference organized by Techno India University, West Bengal. DOI: <https://doi.org/10.1201/9781003428459>, eBook ISBN: 9781003428459
- Dr. Arpita Dutta published a research paper on "Analysis and Identification of Leukemia Using YOLOv8", 4th International Conference on Computer, Communication, Control and Information Technology (C3IT 2024), Academy of Technology, Aedconagar, West Bengal, India. (yet to come online)

### **Departmental Events**

- The Department of CSE-AIML organized a one-day seminar on "Generating the Future: A Deep Dive into Generative AI" on 5th Dec, 2023.
- Department of CSE-AIML conducted a one-day program on "GATE Awareness: Impact on Student Career" on July 28, 2023

### **List and details of Achievement (Academic and Non-Academic) of the Students, Faculty/Staff members**

- Team Contra, a group of third-year CSE-AI students from Techno India University, won the Smart India Hackathon (SIH) 2023, held on December 21, 2023, in Chhattisgarh.
- Dr. Abhishek Majumdar's paper received the Best Paper Award at the International Conference on Security, Surveillance, and Artificial Intelligence (ICSSAI-2023).
- Dr. Rupak Chakraborty was awarded to Educator Training Certificate for successfully completing the Alteryx SparkED Educator Training on FOUNDATION MICRO - CREDENTIAL & DESIGNER CORE.

- Dr. Rupak Chakraborty has given Hands-on Training on “Introduction to Embedded Systems and Robotics” from 21.11.2023 to 16.12.2023 at e-Yantra-Centre of Excellence Lab on TIU, WB.
- Dr. Rupak Chakraborty was awarded by a certificate from IIT Bombay for successfully completing the eLSI: Basics of Embedded Systems and Robotics, conducted as a part of MOOC through the e-Yantra Lab Setup Initiative (eLSI).
- Dr. Rupak Chakraborty received reviewer certificates for reviewing research papers submitted in renowned journals of Springer Nature and from some international conferences.
- Dr. Rupak Chakraborty conducted practical examination (Final year Project Evaluation) as an external examiner in SurTech college of JIS group on 31-05-2024.
- Dr. Arpita Dutta and Dr. Shaswati Roy were active members to organize the ICSSAI-2023 Taylor Francis International conference at TIU, Kolkata.

## *Department of Computer Science and Business Systems (CSBS)*

### **Departmental Achievements**

#### **Participation in International/National Conferences/Seminars/Workshops and FDPs**

- Prof. Anindya Kumar Biswas attended a 5 day online FDP on Outcome-based Education and Advanced Research in Electrical Engineering” (OBEAREE 2024) HIT- 12th to 17th August 2024.
- Prof. Anindya Kumar Biswas attended Eduskills Training on Fortinet NSE, Technical Educator Training - 2023.
- Dr. Ratul Dey attended a 5 Day online STTP on Data Science for Business, organized by VIT 4/09/2023.
- Dr. Ratul Dey attended a 5 Day FDP on “Effect of Generative AI in modern Research and Industry” May 2024.
- Prof. Subhajyoti Barman attended a 5 Days Faculty Development Program on "Effect of Generative AI in Modern Research and Industry", organized by Department of Computer Science, Sister Nivedita University, Kolkata, India conducted from 29th April 2024 - 3rd May 2024.
- Prof. Subhajyoti Barman attended a One Week Faculty Development Program on “Methods for Improving Higher Education Teaching Quality Using Outcome Based Education, Pedagogical Approaches and NEP 2020 (OBENEP24)”. 22 - 26, July, 2024 at Haldia Institute of Technology.
- Prof. Subhajyoti Barman attended a 5-Day Faculty Development Program on "Revolutionize Computing using Smart Technologies for Industry 4.0" organized by Department of CST & CSIT, IEM Newtown in association with HRDC, IEM-UEM Group in collaboration with Computer Society of India, Kolkata Chapter held from 5thAugust, 2024 to 9thAugust, 2024.
- Prof. Khokan Mondal attended a 5 days FDP on Application of Blockchain Technology, IEM Kolkata, February 2024.
- Prof. Khokan Mondal attended a 5 days FDP on Ubiquitous Technological Convergence, FIEM, January 2024.

- Prof. Khokan Mondal attended a 15-Day Online Faculty Development Program on “Statistical Analysis and Machine Learning for Agriculture Sciences” (SAMLAS 2024) organized by the School of Agriculture (SoA), SR University, Warangal, Telangana, on April 29, 2024 - May 13, 2024.
- Prof. Khokan Mondal attended one week faculty development program on Gen AI from 18/03/2024 to 23/03/2024 Organised by department of Information Technology Techno Main Salt Lake in Association with IETE Kolkata Centre and Computer Society of India
- Prof. Khokan Mondal attended six days faculty development program on Data Analytics: Challenges and Opportunities from 13/05/2024 to 18/05/2024 Organised by department of CSE Techno Main Salt Lake.

## **Publications (Books / Articles / Papers / Journals)**

- Biswas, A. K., & Dasgupta, M. Two polynomials based  $(t, n)$  threshold secret sharing scheme with cheating detection. *Cryptologia*, 44(4), 357–370. <https://doi.org/10.1080/01611194.2020.1717676>
- Biswas, Anindya Kumar, and Mou Dasgupta. "Threshold based  $(t, n)$  Secrecy using Open Channel and prevent man-in-the-middle Attack and Share Forgery." In *Proceedings of the 2024 6th International Electronics Communication Conference*, pp. 42-45. 2024
- P. Banik, R. Dey, “Image Segmentation and Medical Image Analysis using Deep Learning and Convolution Neural Network: A Review”, ICSSAI 2023
- Chandra, Sourabh, and Khokan Mondal. "Minimization of data centers in survivable dynamic SDM-EONs." 2023 14th International Conference on Computing Communication and Networking Technologies (ICCCNT). IEEE, 2023.
- Kalyan Adhikary; Prashnatita Pal; and Jayanta Poray. “The Minimum Spanning Tree Problem on networks with Neutrosophic numbers.” *Neutrosophic Sets and Systems* 63, 1 (2024).
- Prashnatita Pal, Bikash Chandra Sahana, Jayanta Poray, Secure Electronics Medical Infrastructure for Healthcare 4.0: A Voice Identity Management-Based Approach, *Procedia Computer Science*, Volume 235, 2024, Pages 468-477, ISSN 1877-0509, <https://doi.org/10.1016/j.procs.2024.04.046>.
- Prashnatit Pal, Kalyan Adhikary, Rituparna Bhattacharya, Jayanta Poray (2024). Efficient Attribute-based Unbounded Inner Product Functional Encryption for Many-authority In: Chaudhuri, D., Pretorius, J.H., Das, D., & Bal, S. (Eds.). (2024). *on Security, Surveillance and Artificial Intelligence: Proceedings of the International Conference on Security, Surveillance and Artificial Intelligence (1st ed.)*. CRC Press. <https://doi.org/10.1201/9781003428459>
- Prashnatita Pal, Bikash Chandra Sahana, Jayanta Poray, Rituparna Bhattacharya, (2024). Blockchain-Based Cryptocurrency Payment System Model for Business-To Consumer E-Commerce Platforms. In: *Cryptology and*

- Network Security with Machine Learning. Lecture Notes in Networks and Systems, 331 Volumes | 2024 Springer Nature Singapore.
- P. Pal, R. Bhattacharya, J. Poray “An enhancement to the electronic message security algorithm ensuring data Security” The International Conference on Advances in Novel Materials: Towards Sustainable Future (ICAN24) held on 20-22 January 2024 in St. Xavier’s College, Ranchi, India.
- P. Pal, R. Bhattacharya, and J. Poray, “Network Coverage Improvement for Citizens Broadband Radio Service via New Priority Access License” International Conference on Systems and Technologies for Smart Agriculture (ICSTA) December 2023. Organised by the Ministry of electronics & information technology government of India, Kolkata India.
- P. Pal, B.C. Sahana, and J. Poray, “Secure Electronics Medical Infrastructure for Healthcare 4.0: A Voice Identity Management -Based Approach” International Conference on Machine Learning and Data Engineering (ICMLDE) October 2023. Deradun, India.
- P. Pal, R. Bhattacharya, and J. Poray, “Convolution Neural Network to feed X-Ray Image-Based Pneumonia Identification” 12th International Conference on Mathematical Modelling in Physical Sciences August 28-31, 2023 Belgrade, Serbia.
- P. Pal, R. Bhattacharya , and J. Poray , “Efficient Attribute- Based Unbounded Inner Product Functional Encryption for Many-Authority” ” International Conference on Security, Surveillance & Artificial Intelligence (ICSSAI) Dec.1-2 2023 Organised by Techno India University Kolkata,India.
- P. Pal, R. Bhattacharya , and J. Poray , “Blockchain-based Cryptocurrency Payment System Model for Business-to-Consumer E-Commerce Platforms,” International Conference on Cryptology & Network Security with Machine Learning (ICCNMSML) Oct. 20-22, 2023 Organised by DRDO,Chandigarh,India.
- P. Pal, R. Bhattacharya , and J. Poray, "Segmentation of Pathological Primitive Conditions Based on the Visual Foundation Model " 13th-14th September, 2024 02 Days ICSSR Conference on “India Towards Viksit Bharat @2047”, organised by BVICAM, New Delhi.
- Daw, T., Saha, P., Sen, M., Mondal, K., & Chakrabarti, A. (2023, February). Malicious URL Classification Using Machine Learning. In Doctoral Symposium on Human Centered Computing (pp. 147-156). Singapore: Springer Nature Singapore.

## **List and details of Achievement (Academic and Non-Academic) of the Students, Faculty/Staff members**

- Anindya Kumar Biswas – A paper accepted in an International conference in Japan, July 2024.
- Student: Nazeya Fareen – 231001020075 - CSBS 2ND YEAR – Eduskill Virtual Internship on Data Engineering

- Student: Ayush Kumar Singh – 231001020051 – CSBS 2ND YEAR – ISRO Dehradun, online summer school on Usefulness of Remote Sensing and GIS for Environmental Studies
- Student: Snehal Ghosh – 231001020006 - CSBS 2ND YEAR – Participated in ICSSAI 2023
- Student: Pramit Bhattacharya – 231001020036 - CSBS 2ND YEAR – Completed the AIFF ‘d’ Coaching certificate
- Student: SYED MUSHARAF HOSSAIN – 221001020021 - CSBS 3RD YEAR – Eduskills Virtual Internship on Intelligent Automation
- Student: SYED MUSHARAF HOSSAIN – 221001020021 - CSBS 3RD YEAR – Eduskills Virtual Internship on Process Mining
- Student: Nazeya Fareen – 231001020075 – Eduskills Virtual Internship on RPA Developer.

## *Department of Electronics & Communication Engineering*

### **Departmental Achievements**

#### **Participation in International/National Conferences/Seminars/Workshops and FDPs**

- Dr. Buddhadev Pradhan received the certificate for contribution as an Organizer in International Conference on Security, Surveillance, and Artificial Intelligence (ICSSAI - 2023), Techno India University, West Bengal, held on 1<sup>st</sup> & 2<sup>nd</sup> December, 2023.
- Dr. Buddhadev Pradhan received the certificate for contribution as a session-chairperson for technical session in National Conference on " Machine Learning In Healthcare Applications (MLHA 2024)",Guru Nanak Institute of Technology (GNIT), dated 18-19 April, 2024
- Dr. Buddhadev Pradhan received the certificate for contribution as a trainer in the Hands-on training on “Introduction to Embedded Systems & Robotics”, at e-Yantra – Centre of Excellence Lab, Techno India University, West Bengal, dated 21/11/2023 to 16/12/2023.
- Dr. Buddhadev Pradhan successfully completed the Faculty Development Programme on Artificial Intelligence, Machine Learning and Deep Learning, organized by the Department of Computer Applications, Haldia Institute of Technology from 19<sup>th</sup> to 23<sup>rd</sup> February, 2024.
- Dr. Buddhadev Pradhan, successfully completed the Faculty Development Programme on Emerging Trends in Science and Technology from Academia to Industry (ETSTAI '24) organized by the Department of CSE, CSD & IT of the B.C Roy Engineering College, Durgapur in association with Institute of Engineers from 19<sup>th</sup> to 23<sup>rd</sup> March, 2024.

- Dr. Buddhadev Pradhan, successfully completed the Faculty Development Programme on “Recent Advancement on Microwave and mm - Wave Communication” (RAMMC 2024) organized by the Department of ECE in association with IEEE MTTs Student Branch of the Haldia Institute of Technology, West Bengal from 8<sup>th</sup> to 12<sup>th</sup> April, 2024.
- Dr. BUDDHADEV PRADHAN has been participated in the webinar “How to get published” organized IOP Publishing webinar dated on 23<sup>rd</sup> August, 2023.
- Dr. Buddhadev Pradhan, participated & completed successfully Faculty Diploma Programme in "NEP 2020- Plan for Implementation" organized by Techno India University West Bengal & NITTTR Kolkata on 1<sup>st</sup> August, 2023.
- Dr. Buddhadev Pradhan, participated & completed successfully Faculty Development Programme in "VLSI to System design: Silicon to end application approach" organized by AICTE & ST Microelectronics Pvt. Ltd. from 31<sup>st</sup> July to 4<sup>th</sup> August, 2023.
- Dr. Buddhadev Pradhan, successfully completed the Faculty Development Programme on Emerging Trends in Science and Technology from Academia to Industry (ETSTAI '24) organized by the Department of CSE, CSD & IT of the B.C Roy Engineering College, Durgapur in association with Institute of Engineers from 19<sup>th</sup> to 23<sup>rd</sup> March, 2024.
- Dr. Buddhadev Pradhan, successfully completed the Faculty Development Programme on Recent Advancement on Microwave and mm- Wave Communication” (RAMMC 2024) organized by the Department of ECE in association with IEEE MTTs Student Branch of the Haldia Institute of Technology, West Bengal from 8<sup>th</sup> to 12<sup>th</sup> April, 2024.
- Mr. Sayantan Chakraborty participated in a FDP on “Multidisciplinary Aspects on Low Power Wireless Sensor Network” was held on 24<sup>th</sup> to 29<sup>th</sup> July 2023.
- Mr. Sayantan Chakraborty participated in a FDP on “Signal and System: Simulation Analysis and Application” was held from 11<sup>th</sup> to 15<sup>th</sup> December 2023.
- Mr. Sayantan Chakraborty participated in an online FDP on “Data Science and its Applications” was held on 5<sup>th</sup> to 9<sup>th</sup> February, 2024.
- Dr. Harekrishna Chatterjee Participated in 6 days FDP on “Recent Advances in Electronics and Communication (RAEC 2023)” held on 22<sup>nd</sup> to 26<sup>th</sup> August, 2023, conducted by Dept. of ECE, Abacus Institute of Technology of Engineering and Management.

- Dr. Harekrishna Chatterjee Participated in 2 days Workshop on “Roadmap for developing entrepreneurial skill through IOT solutions” on 27<sup>th</sup> & 28<sup>th</sup> March 2024, organized by Bengal Institute of Technology, Bantala, Kolkata.
- Dr. Harekrishna Chatterjee Participated in 6 days FDP on “5G and Beyond” organized by Techno Main Salt Lake, in association with IEEE Kolkata Section held from 22<sup>nd</sup> to 27<sup>th</sup> April 2024.
- Dr. Harekrishna Chatterjee has attended “Eyantra symposium” at IIT Bombay on 5<sup>th</sup> and 6<sup>th</sup> April 2024.
- Dr. Harekrishna Chatterjee was one of the Instrumental in organizing “International Conference on Security, Surveillance & Artificial Intelligence (ICSSAI-2023) held on 1st & 2nd December 2023.
- Dr. Harekrishna Chatterjee was one of the Coordinator in Smart India Hackathon, 2023.
- Dr. Harekrishna Chatterjee was one of the trainers to provide hands-on training on “Introduction to Embedded Systems & Robotics” held from 22/11/2023 to 16/12/2023 at e-Yantra - Centre of Excellence Lab of Techno India University, West Bengal.
- Dr. Subhashis Roy was one of the trainers to provide hands-on training on “Introduction to Embedded Systems & Robotics” held from 22/11/2023 to 16/12/2023 at e-Yantra - Centre of Excellence Lab of Techno India University, West Bengal.
- Dr. Subhashis Roy has been involved in organising committees in the International Conference on Security, Surveillance and Artificial Intelligence (ICSSAI-2023) held on 1-2 December, 2023.
- Dr. Subhashis Roy, participated in The Five day INTERNATIONAL WORKSHOP CUM FDP ON “INDUSTRY 4.0 & DIGITALIZATION” From 15th to 19th January 2024 In Technical Association with IETE and CSI, Kolkata Chapter organized by GREATER KOLKATA COLLEGE OF ENGINEERING AND MANAGEMENT.
- Dr. Subhashis Roy Participated in 6 days FDP on “5G and Beyond” organized by Techno Main Salt Lake, in association with IEEE Kolkata Section held from 22<sup>nd</sup> to 27<sup>th</sup> April 2024.
- Dr. Nirmalya Samanta has attended 2 days International Conference on Security, Surveillance and Artificial Intelligence (ICSSAI-2023), organized by Techno India University, West Bengal, Saltlake held on 1st and 2nd December, 2023.
- Dr. Nirmalya Samanta has participated in 5 days FDP on “Recent Trends in High Frequency Communication and Next Generation Smart Systems”, organized by IEM Kolkata, Salt Lake from 29th January, 2024 to 2nd February, 2024.

- Dr. Nirmalya Samanta has attended 2 days International Conference on Computer, Electrical & Communication Engineering (ICCECE-2024), organized by Techno India University, West Bengal, Saltlake held on 2nd and 3rd February, 2024.
- Dr. Nirmalya Samanta has participated in 5 days FDP on “ Recent advancement and future trends in AI & ML (RAFTAML)”, organized by Abacus Institute of Engineering and Management, Magra, Hooghly held on 5th March 2024 to 9th March 2024.
- Dr Abhro Mukherjee Lead Coordinator of a 4 weeks ‘Short term Training course ELSI Lab IIT Bombay, Embedded systems and Robotics’ held from 21/11/2023 to 16/12/2023.
- Dr Abhro Mukherjee was a one of the lead coordinator of smart India Hackathon SIH Finale 2023, December 19th to 20th December, 2023.
- Dr Abhro Mukherjee was in the core organizing committee member for the ' International conference on security surveillance and artificial intelligence (ICSSAI 2023’ held on 1st and 2nd December 2023
- Dr Abhro Mukherjee was a participant in ‘Institute Innovation Council, MOE Innovation cell’ held Sister Nivedita University held on 12th January 2024.
- Dr Abhro Mukherjee received Certificate of Organizing team IEEE Conference Computer, Electrical and Communication Engineering ICCECE held on 20th to 21st January 2024.
- Dr Abhro Mukherjee received the best performing faculty award ‘ISTE West Bengal Chapter ‘ 2024
- Dr Abhro Mukherjee was the lead coordinator World Environment Day on 5th June, 2024 in the University campus to create awareness among the students. The theme adopted by the United Nations Environment Program for the year 2024 is “Land Restoration, Desertification and Drought Resilience”
- Dr Abhro Mukherjee was a jury member for the panel IOT EXPOSITION event at Techno India University held on 9th July 2024.
- Dr Abhro Mukherjee presented a proposal as Co- PI "Development of wireless charging system for electric vehicle using a combination of grid power and renewable energy (solar and wind)" has been selected for funding under iHUB Divyasampark, IIT Roorkee on July 2024.
- Dr. Pritam Som organised an industry talk on ‘recent trends in wireless industry’ in the department on December 13, 2023.. The talk was delivered by Mr. Gaurab Basu from Radisys, Bangalore.
- Dr. Pritam Som became session chair in the session on ‘industrial application of AI’ at the ‘International conference on security surveillance and artificial intelligence (ICSSAI 2023) held on 1st and 2nd December 2023

- Dr. Pritam Som worked as speaker/trainer at the e-Yantra - Techno India University, West Bengal Hands on Training program on "Embedded Systems and Robotics" on December 9, 2023 and December 12, 2023.
- Dr. Pritam Som was a speaker at the inaugural program of at IEEE Conference Computer, Electrical and Communication Engineering ICCECE held on 20th to 21st January 2024. He was also part of the technical team to select the best paper.
- Dr. Pritam Som played a prominent role in modifying the syllabus and Lab curriculum of the B.Tech ECE course.
- Dr. Pritam Som arranged for internship of CSE students at BuildPayz Pty Ltd, Sydney, Australia.
- Dr. Pritam Som made a start up proposal at STEP, IIT Kharagpur, as part of joint initiative of TIU, West Bengal and IIT Kgp. The event occurred on September 11, 2024.
- Prof. Sk Habibur Rahaman was a lead coordinator of the 4-weeks Hands-on training on "Introduction to Embedded Systems & Robotics" conducted by e-Yantra – Centre of Excellence Lab of Techno India University, West Bengal in collaboration with e-Yantra, IIT Bombay held from 21/11/2023 to 16/12/2023 for the B.Tech students.
- Prof. Sk Habibur Rahaman was a one of the lead coordinator of Smart India Hackathon – Software Edition (SIH Finale 2023), held from 19<sup>th</sup> to 20<sup>th</sup> December, 2023.
- Prof. Sk Habibur Rahaman was in the organizing committee member for the 'International conference on security surveillance and artificial intelligence (ICSSAI 2023)' held on 1<sup>st</sup> and 2<sup>nd</sup> December, 2023.

## **Publications (Books / Articles / Papers / Journals)**

- A Review Summary on Various Cluster-Head Selection Improvement Techniques for LEACH-Based Protocols in Wireless Sensor Networks in Journal of Engineering Science & Technology Review (Scopus index; vol. 17 (1), Jan. 2024).
- Buddhadev Pradhan & Anisha Paul, "Novel Design of Power-Efficient Quaternary Logic Gates using CNTFET", International Journal of Electronics journal, Taylor & Francis, <https://doi.org/10.1080/00207217.2023.2210300>, pp.- 1-23, 2023.
- B. Pradhan & S. Mandal, P. P. Pal, "A comparative analysis of ZnCdTe and ZnCdTeO semiconductor alloys as competent materials for optoelectronic applications", International Journal of Modern Physics B, Vol. 37, No. 28, pp. 2350242-1 to 2350242-13, 6-February 2023, <https://doi.org/10.1142/S0217979223502429>.
- Buddhadev Pradhan & Anisha Paul, "Impact of Parametric Variation on the Characteristics and Performance of CNTFET Inverter", IETE Journal of Research, Taylor & Francis, <https://doi.org/10.1080/03772063.2023.2277870>, Published online: 06 Nov 2023.
- Buddhadev Pradhan & Anisha Paul, "Design of Ternary and Quaternary Asynchronous Up/Down Counter using CNTFET", AEU-International Journal of Electronics and Communications, Elsevier, Vol. 179, May 2024, pp. 1-19, <https://doi.org/10.1016/j.aeue.2024.155323>, Published online: 06 Nov 2023.

- Nirmalya Samanta, Paulami Nayek, Kakali Sengupta, Arup Ratan Biswas, Shreya Adhikary, Debasis Mondal , " Determination of the quality of irrigation water by Fuzzy Logic based system in irrigation", Proceeding on International Conference on Integrative Science and Engineering (ICISE)-2023, pp.73, no.107, SVU Kolkata, 28-30th September, 2023.

## Departmental Events

- Department of ECE organised Tech Talk on "Recent trends in Wireless Industry" Lecture delivered by Mr. Gaurab Basu, senior architect in Radisys, Bangalore on 13 Dec, 2023.
- Department of ECE organised Tech Talk on "Near Field Communications Principal & Applications" Lecture delivered by Dr. Somnath Mukherjee, Xensara Inc., Silicon Valley, USA on 15 Dec, 2023.

## List and details of Achievement (Academic and Non-Academic) of the students, faculty/staff members

- A Seminar on "Recent trends in the design and fabrication of microwave and millimeter wave semiconductor devices" was organised by ISTE student chapter of Techno India University, West Bengal, Kolkata held on 18th august, 2023 started at 2 PM at Ground Floor Seminar hall of TIU, West Bengal.
- Miss Shuvasri Ghosh (Student ID: 211001021002) is a National Fencing Player, and she is a State Silver and Bronze Medalist.
- Miss Aakriti Mishra (Student ID: 221001002065) has obtained an Excel beginner certificate and 8085 Microprocessor Certificate. She is also a Relay race Bronze Medalist.

# *Department of Electrical Engineering*

## Departmental Achievements

### Participation in International/National Conferences/Seminars/Workshops and FDPs

- Mr. Souvik Pal attended One Week Online FDP on "Present Scenario and Future Scope of Research and Advancement in the Field of Electric Vehicles (EVs) & Renewable Energy Sector" held from 06.07.2023 to 12.07.2023 organised by Department of Electrical Engineering, Gargi Memorial Institute of Technology.
- One Day Workshop on NEP 2020 – Plan for Implementation organised by Techno India University, W.B.& NITTR (Kolkata) on 1st August 2023 attended by Souvik Pal, Koustav Dasgupta, Suranjan Dey, Deepam Das, Sudip Modak, Asoke Kumar Paaul, Tanaya Datta Das, Raju Basak, Tanmoy Dasgupta.
- Mr. Souvik Pal attended One Day SYMPOSIUM on "Measurement Aspects in New-Age Power Electronic Systems", organised by IEEE Joint CSS-IMS Chapter, Kolkata Section, Kolkata, India on November 25,2023(in online mode).
- Five – Days Online FDP on "Advanced Technologies in Electrical Engineering" held from 13.02.2024 to 17.02.2024 organised by the Department of Electrical & Electronics Engineering, Sri. Sivasubramaniya Nadar

- (SSN) College of Engineering, Kalavakkam, Tamil Nadu attended by Souvik Pal, Koustav Dasgupta, Suranjan Dey, Gopal Chandra Dey.
- One Week FDP on “Contemporary Research Areas in Electrical and Electronics Engineering” held from 19.02.2024 to 23.02.2024 organised by the Department of Electrical Engineering, Narula Institute of Technology attended by Souvik Pal, Gopal Chandra Dey.
- Five – Days Short Term Training Programme on “Off-Grid and Grid-tied Renewable Energy Systems: Technology, Control and Application” held from 25.03.2024 to 29.03.2024 organised by Department of Electrical & Electronics Engineering, Sri. Sivasubramaniya Nadar (SSN) College of Engineering, Kalavakkam, Tamil Nadu attended by Souvik Pal, Suranjan Dey, Tanaya Datta Das
- Mr. Souvik Pal attended One Week online Short Term Training Program (STTP) on “Emerging Trends on Control and Automation at Present Scenario” held from 09.05.2024 to 15.05.2024 organised by Department of Electrical Engineering, Dream Institute of Technology, Kolkata
- Dr. Koustav Dasgupta attended a 5 day Faculty Development Program on Recent Advancement on Control & Instrumentation, 2023 Technical Co-Sponsored by IEEE Joint CSS-IMS Kolkata Chapter 10th July - 14th July 2023
- Organized by Department of Electrical Engineering (EE) Institute of Engineering & Management (IEM), Kolkata, India.
- Dr. Raju Basak attended the “Energy Security and Environmental Wellness – An Indian Perspective” organised by WBSC, IEI.
- Dr. Raju Basak attended the World Telecommunication and Information Society Day on Theme: “DIGITAL INNOVATION FOR SUSTAINABLE DEVELOPMENT” 17th may 2024, organised by WBSC, IEI.
- Dr. Raju Basak attended the World Water Day – 2024, Theme: “Water for Peace” 22nd March 2024, organised by WBSC, IEI.
- Dr. Raju Basak attended the National Maritime Day 2024, Theme: “Sustainable Shipping: Opportunities and Challenges” on 6<sup>th</sup> April 2024, Organised by WBSC, IEI.
- Dr. Raju Basak attended the 36th National Convention of Metallurgical and Materials Engineers, Theme: “Green composites, the new-generation sustainable composite materials: Specific features and applications” on 29th February 2024 to 01st March 2024, Organised by WBSC, IEI.
- Dr. Raju Basak attended the One Day Seminar on the Theme: “Multiple Facets of Cable Supported Infrastructure” An Event in Memory of Mahendra Raj – Doyen of Engineering on 15 December 2023, Organised by WBSC, IEI and attended by Energy Conservation Day on 14 December 2023, Organised by WBSC, IEI.

- Prof. Asoke Kumar Paul participated in the seminar on World creativity and Innovation day celebration organised by Institution's Innovation Council, held on 23.04.2024.
- Prof. Asoke Kumar Paul was presented Certificate of Appreciation for organising World Environmental Day on 05.06.2024.
- Prof. Asoke Kumar Paul completed 5-day blended mode short term training program on "Application of AI and ML in Electrical and Electronics Engineering" held on April 01-03 & April 08-09, 2024 organised by Department of Electrical Engineering, BBIT, Kolkata in association with The Institution of Engineers (India), WBSC.
- Prof. Asoke Kumar Paul completed One-Week Online Faculty Development Program on Global Energy Scenario: Transition from Conventional to Renewable Sources, organised by The Department of Electrical Engineering, Abacus Institute of Engineering and Management.
- Prof. Asoke Kumar Paul participated in the regional meet of MoE's innovation cell, held on 12.01.24, organised by Sister Nivedita University. Two Physical models were presented by students in this regional meet.
- Prof. Asoke Kumar Paul participated in Global Entrepreneurship Summit 2024, held at IIT Kharagpur from 29.03.24 to 31.03.24, along with 20 students.
- Prof. Asoke Kumar Paul, Koustav Dasgupta, Raju Basak and Tanaya Datta Das actively participated in IEEE International Conference on Computer, Electrical & Communication held during 20-21 January, 2024.
- Prof. Asoke Kumar Paul, Raju Basak and Koustav Dasgupta received certificate of Appreciation from Techno India University for active participation in organizing International Conference on Security, Surveillance & Artificial Intelligence (ICSSAI-2023) held during 1-2, December, 2023.
- Prof. Asoke Kumar Paul, Tanaya Datta Das, Raju Basak, Koustav Dasgupta, Deepam Das participated in Grand Finale 2023 event under Smart India Hackathon 2023, held during 19-20 December, 2023.
- Prof. Asoke Kumar Paul and Raju Basak worked in the organizing committee in Internal Smart India Hackathon 2023 held during September 2023.
- Prof. Asoke Kumar Paul along with one more faculty member and 5 students participated in a seminar on World Environment Day organised by Eastern railway, Sealdah Division on 05.06.24. A paper titled "AI-Powered Smart Farming with Sustainable Technology Solutions Coupled with Planned Plantation for the Modern Metro City" was presented
- Prof. Asoke Kumar Paul delivered an invited talk on "Empowering Renewable Energy: India as an ice breaking global leader", on 11.05.24, organised by India Society of Engineers jointly with The Institution of Engineers (India).

- Prof. Asoke Kumar Paul delivered an invited talk on “Engineering solutions for a sustainable world”, on 04.03.24, organised by The Institution of Engineers (India).
- Prof. Asoke Kumar Paul attended a seminar on Entrepreneurship along with four students, organised by Foundation for Innovation and Technology Transfer, (FITT), IIT Delhi, held at OFFBEAT centre of Techno India University. The program was held on 02.03.24.
- Prof. Asoke Kumar Paul organised a visit to IIT Kharagpur Research Park located at Newtown on 18.04.24. Around 30 students and 5 faculty members participated in the program and demonstrated their models. This was a part of the Entrepreneurship development program.

### **Publications (Books / Articles / Papers / Journals)**

- Ghorui, S.K., Dasgupta, K., Ghoshal, S.P., “Solving Economic Load Dispatch with Integrated Thermal, Solar, and Battery Power Plants Using the Boosted Sooty Tern Optimization Algorithm”, 3rd IEEE International Conference on Electrical Power and Energy Systems, 2024, pp.1-6. IEEE Xplore, <https://ieeexplore.ieee.org/document/10653593>.
- Ghorui, S.K., Dasgupta, K., Ghoshal, S.P., “Solving Economic Emission Dispatch with integrated Thermal-Solar and Battery Power Using Enhanced Modified Sooty Tern Optimization Algorithm”, International Conference on Computer, Electrical & Communication Engineering (ICCECE), 2024, pp. 1-6. IEEE Xplore, doi: 10.1109/ICCECE58645.2024.10497248.
- Dasgupta, K., Maity, D., “Solution of thermal-solar integrated economic load dispatch problems using chaos assisted backtracking search algorithm”, International Conference on Control, Instrumentation, Energy & Communication (CIEC24), 25-27 January 2024, pp. 254-259, IEEE Xplore, DOI: 10.1109/CIEC59440.2024.10468141 Available on IEEE Xplore.
- Nagabushanam, M., Chakrasali, S., Gangadharaiyah, S.L., Patel, S.H., Ramaiah, G., Basak, R. (2024). An Optimized VLSI Implementation of the Least Mean Square (LMS) Adaptive Filter Architecture on the Basis of Distributed Arithmetic Approach. Journal of The Institution of Engineers (India): Series B, 105(6), <https://doi.org/10.1007/s40031-024-01028-9>.
- Das, K., Basak, R., Roy, D. (2023). A Novel Optimal Power Flow Solution for Hybrid Renewable Energy Generation Based Ac/Dc Grid System. Journal of University of Shanghai for Science and Technology, 25(09), 99-117, <https://jusst.org/wp-content/uploads/2024/01/A-NOVEL-OPTIMAL-POWER-FLOW-SOLUTION-FOR-HYBRID-RENEWABLE-ENERGY-GENERATION-BASED.pdf>.
- Paul, A.K., Bhattacharya, S., Ghosh, S., Murmu, S., “Solar power water purification system with integrated lighting and Charging for resilient rural communities” 1st International conference on enhancing health

- throughenvironment,February2024,[https://www.researchgate.net/publication/378795377\\_SolarPowered\\_Water\\_Purification\\_System\\_with\\_Integrated\\_Lighting\\_and\\_Charging\\_for\\_Resilient\\_Rural\\_Communities](https://www.researchgate.net/publication/378795377_SolarPowered_Water_Purification_System_with_Integrated_Lighting_and_Charging_for_Resilient_Rural_Communities).
- Paul, A.K., Bhattacharya, S., Ghosh, S., Performance analysis of a micro solar pump for sustainable water management in remote areas.” 1st International conference on enhancing health through environment,February2024,[https://researchgate.net/publication/378795304\\_Performance\\_Analysis\\_of\\_a\\_Micro\\_Solar\\_Pump\\_for\\_Sustainable\\_Water\\_Management\\_in\\_Remote\\_Areas](https://researchgate.net/publication/378795304_Performance_Analysis_of_a_Micro_Solar_Pump_for_Sustainable_Water_Management_in_Remote_Areas).
- Paul, A.K., Bhattacharya, S., Ruchi, R.D., “Enhancing Energy Access in Remote Regions: A Comprehensive Solar Energy Storage Solution for Submersible Pumping Systems”, International Conference on Science & Technology Integration for Circular Economy, January 2024, [https://www.researchgate.net/publication/377656584\\_Enhancing\\_Energy\\_Access\\_in\\_Remote\\_Regions\\_A\\_Comprehensive\\_Solar\\_Energy\\_Storage\\_Solution\\_for\\_Submersible\\_Pumping\\_Systems](https://www.researchgate.net/publication/377656584_Enhancing_Energy_Access_in_Remote_Regions_A_Comprehensive_Solar_Energy_Storage_Solution_for_Submersible_Pumping_Systems).
- Chakrabarty, R., Bhattacharya, S., Paul, A.K. ,“Solid-State Power Generation: A Review of Thermoelectric Generators (TEG) and their Role in Energy Conversion” International Conference on Renewable Energy with sustainable solutions,July2024,[https://www.researchgate.net/publication/382562901\\_SolidState\\_Power\\_Generation\\_A\\_Review\\_of\\_Thermoelectric\\_Generators\\_TEGs\\_and\\_their\\_Role\\_in\\_Energy\\_Conversion](https://www.researchgate.net/publication/382562901_SolidState_Power_Generation_A_Review_of_Thermoelectric_Generators_TEGs_and_their_Role_in_Energy_Conversion).
- Dey,T.,Paul, A.K., Bhattacharya,S., Ghosh,S., “Solar-Powered Water Purification: A Sustainable Solution for Remote Communities” International Conference on Renewable Energy with Sustainable Solutions, July 2024,[https://www.researchgate.net/publication/382563128\\_SolarPowered\\_Water\\_Purification\\_A\\_Sustainable\\_Solution\\_for\\_Remote\\_Communities](https://www.researchgate.net/publication/382563128_SolarPowered_Water_Purification_A_Sustainable_Solution_for_Remote_Communities).
- Sarkar,A.,Paul, A.K., Bhattacharya,S., Ghosh,S., “Advancing Sustainable Water Management in Remote Regions: A Case Study on Performance of a Micro Solar Pumping System” International Conference on Renewable Energy with Sustainable Solutions, July 2024, [https://www.researchgate.net/publication/382562802\\_Advancing\\_Sustainable\\_Water\\_Management\\_in\\_Remote\\_Regions\\_A\\_Case\\_Study\\_on\\_Performance\\_of\\_a\\_Micro\\_Solar\\_Pumping\\_System](https://www.researchgate.net/publication/382562802_Advancing_Sustainable_Water_Management_in_Remote_Regions_A_Case_Study_on_Performance_of_a_Micro_Solar_Pumping_System).

## Departmental Events

- Workshop on Electrical Wiring organised by the Department of Electrical Engineering on 20.03.2024 and 22.03.2024 for Diploma and B.Tech students of the department.
- A team of eighteen students and two faculty members of Electrical Engineering Department visited Vivekananda Yuba Bharati Krirangan on 06.04.24. The basic objective of this visit was to observe (i) The operation of a Electrical substation, (ii) The operation of a high capacity Diesel generator set, (iii) Different kinds of lights and their operating principles and their circuits, and (iv) The stadium.
- A visit to Tollygunge WBSEDCL 33/11KV Substation was organised by Department of Electrical Engineering on 29.02.24. Seventeen students from the Electrical Engineering Department and three faculty members visited

- the substation. This substation receives 33 kV power from Sonarpur and Renia Source. It feeds 11 kV power to nearby places.

## List and details of Achievement (Academic and Non-Academic) of the students, faculty/staff members

- Dr. Raju Basak - Awarded Fellow from (Nikhil Bharat Siksha Parisad) NBSP on 04.04.2024
- Dr. Raju Basak - Awarded Fellow from India Society of Engineers (July,2024), Chairman of West Bengal State Centre, The Institution of Engineers(India), Council Member of IEI, Chairman of Rural Development forum, IEI.
- Prof. Asoke Kumar Paul has been awarded Fellow from India Society of Engineers in July 2024.
- Dr. Raju Basak, Associate Editor, International Journal of Communication, Science and Technology, Larnet Publishing.
- Dr. Raju Basak, Lifetime achievement Award from Nikhil Bharat Siksha Parisad.
- Invited to talk as Chief Guest in the award distribution ceremony organised by All India Faculty Council.
- A patent titled "A USER AUTHENTICATION APPARATUS FOR SWITCHING-ON IGNITION SYSTEM OF A VEHICLE", Application No 202231069826, dated 03.12.2022, authored by Asoke Kumar Paul and Md Saif Idris has been examined and published. Now TIU has the privileges and rights as if a patent for the invention has been granted on 7th June 2024. .
- Prof. Asoke Kumar Paul worked in the capacity of PI for a project, initiated by the British Council Titled "Circular Economy (CE) in small and medium-sized enterprises (SMEs) to combat climate change issues" during July 2023 to December 2023. The lead university for this project is ASTON UNIVERSITY, Birmingham, UK. Techno India University received a grant of GBP 1000 for completing this project.



## *Department of Mechanical Engineering*

### Departmental Achievements

#### Participation in International/National Conferences/Seminars/Workshops and FDPs

- Dr. Pradipta Basu Mandal attended the One Week Faculty Development Program (Hybrid Mode) on “Industrial Advancement in Electronics and Communication Engineering” from 3rd June to 7th June, 2024 Organized by Techno College of Engineering, Agartala.
- Dr. Amitava Ghatak attended the One day Faculty Development Program (Online Mode) on "Fundamentals of research ethics with Turnitin" on 7th July, 2023, Organized by Turnitin and Parul University.
- Dr. Amitava Ghatak attended the Five Days Faculty Development Program (Online Mode) on “Recent trends and research opportunities in engineering and technology” from 10th July to 14th July 2023 Organized by Techno College of Engineering, Agartala, Tripura.
- Dr. Amitava Ghatak attended the One Week Faculty Development Program (Hybrid Mode) on “Unlocking innovation: exploring research, innovation and patents (UIERIP-2023)” from 17th-22nd July, 2023, Organized by the Department of Mechanical Engineering, SVERI’s College of Engineering, Pandharpur.
- Dr. Amitava Ghatak attended the One Day Workshop on “NEP 2020-Plan for implementation” on 1st August 2023, Organized by NITTTR, Kolkata.
- Dr. Amitava Ghatak attended the One Week Faculty Development Program (Hybrid Mode) on “Polymer composites and nanocomposites” on 7th-11th August, 2023, Organized by NITTTR, Kolkata.
- Dr. Amitava Ghatak attended the One Day Faculty Development Program (Online Mode) on “Recent trends in the design and fabrication of microwave and millimetre wave semiconductor devices” on 18th August, 2023, Organized by Techno India University, West Bengal.
- Dr. Amitava Ghatak attended one-week Faculty Development Program (Online Mode) on “Professional values and ethics” from 4th-10th December, 2023, Organized by NITTTR, Kolkata.
- Dr. Amitava Ghatak attended the Five Days International Workshop (Online Mode) on “3D printing & additive manufacturing insights” from 12th-16th March, 2024, Organized by NIT Mizoram.
- Dr. Amitava Ghatak attended the 5 Days Faculty Development Program (Online Mode) on “Industry 4.0: Technological evolution” from 1st – 5th April, 2024, Organized by Techno College of Engineering Agartala.
- Dr. Amitava Ghatak attended the 15 days Faculty Training Program (Online Mode) on “Entrepreneurship Development (Energy Conservation through Electric Vehicles)” from 29.12.2023-12.01.2024, Organized by Anna University Department of Science and Technology.
- Dr. Amitava Ghatak attended the One Week Faculty Development Program (Hybrid Mode) on “Industrial Advancement in Electronics and Communication Engineering” from 3rd June to 7th June, 2024 Organized by Techno College of Engineering Agartala”

- Dr. Subrata Saha presented a paper on “Physics Informed Neural Network for load reconstruction for vibrating pipes in process plant” on Dec 1&2 2023, Organized by International Conference ICSSAI at Techno-India University, West Bengal
- Dr. Subrata Saha attended the Five Days Faculty Development Program (Online Mode) on “Recent trends and research opportunities in engineering and technology” from 10th July to 14th July 2023 Organized by Techno College of Engineering, Agartala, Tripura
- Dr. Subrata Saha attended as Jury in Smart India Hackathon Nodal Centre on 19-20th December 2023 at Techno India University.
- Dr. Subrata Saha attended as a Speaker in “World Creativity and Innovation Day celebration” Organized by IIC-Techno India University on 23rd April 2024.
- Dr. Arup Ratan Dey attended the one day Faculty Development Program (Online Mode) on "Fundamentals of research ethics with Turnitin" on 7th July, 2023, Organized by Turnitin and Parul University.
- Dr. Arup Ratan Dey attended the Five Days Faculty Development Program (Online Mode) on “Recent trends and research opportunities in engineering and technology” from 10th July to 14th July 2023 Organized by Techno College of Engineering, Agartala, Tripura.
- Dr. Arup Ratan Dey attended the One Day Workshop on “NEP 2020-Plan for implementation” on 1st August 2023, Organized by NITTTR, Kolkata.
- Dr. Arup Ratan Dey attended a one-week Faculty Development Program (Online Mode) on “Professional values and ethics” from 4th-10th December, 2023, Organized by NITTTR, Kolkata.
- Dr. Arup Ratan Dey attended one-week Faculty Development Program (Online Mode) on “Machine Learning Applications for Mechanical Engineers (MLAME)” from 18th December to 23rd December 2023, Organized by Department of Mechanical Engineering & Computer Science & Engineering, CVR College of Engineering
- Dr. Arup Ratan Dey attended a one-week Faculty Development Program (Online Mode) on “Frontiers in Mechanical Engineering: Embracing Modern Trends and Innovations” From 21st March to 27th March 2024 Organized by Department of Mechanical Engineering, DMI College of Engineering.
- Dr. Arup Ratan Dey attended the One Week Faculty Development Program (Hybrid Mode) on “Unlocking innovation: exploring research, innovation and patents (UIERIP-2023)” from 17th-22nd July, 2023, Organized by the Department of Mechanical Engineering, SVERI’s College of Engineering, Pandharpur.
- Dr. Arup Ratan Dey attended the 5 Days Faculty Development Program (Online Mode) on “Industry 4.0: Technological evolution” from 1st – 5th April, 2024, Organized by Techno College of Engineering Agartala.
- Dr. Arup Ratan Dey attended the One Week Faculty Development Program (Online Mode) on “Employing Industrial Quality Management Systems for Quality Assurance in Outcome -Based Education (OBE)” from 19th

- June to 24th June 2024, organized by Department of Mechanical Engineering, SVERI's College of Engineering, Pandharpur, Gopalpur-Ranjani Road, Pandharpur, MH – 413304.
- Chiranjib Bhowmik, Mukul Banerjee, Pathikrit Das, Arup Ratan Dey. Selection of Natural fiber-polymer composites for sustainable practices A Probability-Based Approach to Euclidean Distance Function. (Contributed) in 2nd International Conference on Recent Advances in Functional Materials (RAFM-2024), 14-16 March, 2024, Organized by Department of Physics & IQAC, Atma Ram Sanatan Dharma College (Delhi University)
- Mukul Banerjee, Chiranjib Bhowmik, Arup Ratan Dey, Pathikrit Das. Percentage Selection of Optimum Chassis Material for Electric Vehicles: An Eclectic Decision. (Contributed) In 2nd International Conference on Recent Advances in Functional Materials (RAFM-2024), 14-16 March, 2024, Organized by Department of Physics & IQAC, Atma Ram Sanatan Dharma College (Delhi University)
- Chiranjib Bhowmik, Arup Ratan Dey. Techno-economic feasibility study of hybrid renewable energy system for the electrification of an educational institute in West Bengal, India. (Contributed) on 6th Regional Science & Technology Congress -Region 5, hosted by University of Kalyani, Kalyani, Nadia, West Bengal (Under the auspices of Department of Science & Technology and Biotechnology, Govt. of West Bengal) January 3-4, 2024).
- Dr. Mukul Bisoi attended the One Week Faculty Development Program (Hybrid Mode) on "Unlocking innovation: exploring research, innovation and patents (UIERIP-2023)" from 17th-22nd July, 2023, Organized by the Department of Mechanical Engineering, SVERI's College of Engineering, Pandharpur.
- Dr. Mukul Bisoi attended the 5 Days Faculty Development Program (Online Mode) on "Industry 4.0: Technological evolution" from 1st – 5th April, 2024, Organized by Techno College of Engineering Agartala.
- Dr. Mukul Bisoi attended the One Week Faculty Development Program (Online Mode) on "Sustainable Energy Spectrum: Exploring Trends and Applications in Renewable Resources" from 14th to 20th May, 2024, Organized by Department of Mechanical Engineering, Army Institute of Management, Pune.
- Dr. Mukul Bisoi attended the One Week Faculty Development Program (Hybrid Mode) on "Industrial Advancement in Electronics and Communication Engineering" from 3rd June to 7th June, 2024 Organized by Techno College of Engineering Agartala"
- Dr. Chiranjib Bhowmik attended the one day Faculty Development Program (Online Mode) on "Fundamentals of research ethics with Turnitin" on 7th July, 2023, Organized by Turnitin and Parul University.
- Dr. Chiranjib Bhowmik attended the Five Days Faculty Development Program (Online Mode) on "Recent trends and research opportunities in engineering and technology" from 10th July to 14th July 2023 Organized by Techno College of Engineering, Agartala, Tripura.
- Dr. Chiranjib Bhowmik attended the One Day Workshop on "NEP 2020-Plan for implementation" on 1st August 2023, Organized by NITTTR, Kolkata.

- Dr. Chiranjib Bhowmik attended one-week Faculty Development Program (Online Mode) on “Professional values and ethics” from 4th-10th December, 2023, Organized by NITTTR, Kolkata
- Dr. Chiranjib Bhowmik attended one-week Faculty Development Program (Online Mode) on “Machine Learning Applications for Mechanical Engineers (MLAME)” from 18th December to 23rd December 2023, Organized by Department of Mechanical Engineering & Computer Science & Engineering, CVR College of Engineering
- Dr. Chiranjib Bhowmik attended the 15 days Faculty Training Program (Online Mode) on “Entrepreneurship Development (Energy Conservation through Electric Vehicles)” from 29.12.2023-12.01.2024, Organized by Anna University Department of Science and Technology.
- Dr. Chiranjib Bhowmik attended 5 days Faculty Development Program (Online Mode) on “Sustainable Advancements and Developments in Mechanical Engineering (SADME-2024)” from 10th June to 14th June 2024, Organized by Department of Mechanical Engineering, National Institute of Technology Manipur, Imphal, India
- Dr. Chiranjib Bhowmik attended the One Week Faculty Development Program (Online Mode) on “Employing Industrial Quality Management Systems for Quality Assurance in Outcome -Based Education (OBE)” from 19th June to 24th June 2024, organized by Department of Mechanical Engineering, SVERI’s College of Engineering, Pandharpur, Gopalpur-Ranjani Road, Pandharpur, MH – 413304.
- Chiranjib Bhowmik, Mukul Banerjee, Pathikrit Das, Arup Ratan Dey. Selection of Natural fiber-polymer composites for sustainable practices A Probability-Based Approach to Euclidean Distance Function. (Presented in 2nd International Conference on Recent Advances in Functional Materials (RAFM-2024), 14-16 March, 2024, Organized by Department of Physics & IQAC, Atma Ram Sanatan Dharma College (Delhi University)
- Mukul Banerjee, Chiranjib Bhowmik, Arup Ratan Dey, Pathikrit Das. Percentage Selection of Optimum Chassis Material for Electric Vehicles: An Eclectic Decision. (Contributed) In 2nd International Conference on Recent Advances in Functional Materials (RAFM-2024), 14-16 March, 2024, Organized by Department of Physics & IQAC, Atma Ram Sanatan Dharma College (Delhi University)
- Chiranjib Bhowmik, Arup Ratan Dey. Techno-economic feasibility study of hybrid renewable energy system for the electrification of an educational institute in West Bengal, India. (Presented on 6th Regional Science & Technology Congress -Region 5, hosted by University of Kalyani, Kalyani, Nadia, West Bengal (Under the auspices of Department of Science & Technology and Biotechnology, Govt. of West Bengal) January 3-4, 2024).
- Dr. Chiranjib Bhowmik, Contributed as a speaker for the session on “Energy for Sustainable Planning” in the One Week FDP (Hybrid Mode) on Unlocking Innovation: Exploring Research, Innovation and Patents (UIERIP-2023) from 17th-22nd July, 2023, Organized by the Department of Mechanical Engineering, SVERI’s College of Engineering, Pandharpur.

- Mr. Rajshekhar Chakrabarti attended the 5 Days Faculty Development Program (Online Mode) on “Industry 4.0: Technological evolution” from 1st – 5th April, 2024, Organized by Techno College of Engineering Agartala.
- Mr. Rajshekhar Chakrabarti attended the One Week Faculty Development Program (Online Mode) on “Sustainable Energy Spectrum: Exploring Trends and Applications in Renewable Resources” from 14th to 20th May, 2024, Organized by Department of Mechanical Engineering, Army Institute of Management, Pune.
- Mr. Rajshekhar Chakrabarti attended the One Week Faculty Development Program (Hybrid Mode) on “Unlocking innovation: exploring research, innovation and patents (UIERIP-2023)” from 17th-22nd July, 2023, Organized by the Department of Mechanical Engineering, SVERI’s College of Engineering, Pandharpur.
- Mr. Rajshekhar Chakrabarti attended the One Week Faculty Development Program (Hybrid Mode) on “Industrial Advancement in Electronics and Communication Engineering” from 3rd June to 7th June, 2024 Organized by Techno College of Engineering Agartala”
- Mr. Rajshekhar Chakrabarti presented Paper in 37th National Convention of Production Engineers " Recent Trend and future direction in Production Engineering and Management: Vision 2030"
- Dr. Bablu Sikdar attended the One Week Faculty Development Program (Hybrid Mode) on “Unlocking innovation: exploring research, innovation and patents (UIERIP-2023)” from 17th-22nd July, 2023, Organized by the Department of Mechanical Engineering, SVERI’s College of Engineering, Pandharpur.
- Mr. Souvik Brahma Hota attended the 5 Days Faculty Development Program (Online Mode) on “Industry 4.0: Technological evolution” from 1st – 5th April, 2024, Organized by Techno College of Engineering Agartala.
- Mr. Souvik Brahma Hota attended the One Week Faculty Development Program (Online Mode) on “Sustainable Energy Spectrum: Exploring Trends and Applications in Renewable Resources” from 14th to 20th May, 2024, Organized by Department of Mechanical Engineering, Army Institute of Management, Pune.
- Mr. Souvik Brahma Hota attended the 5 Days Faculty Development Program (Online Mode) on “Industrial Advancement in Electronics and Communication Engineering” from 3rd to 7th June 2024, Organized by TCEA in association with Internal Quality Assessment Cell & Institution Innovation Council
- Souvik Brahma Hota, Dipankar Biswas, Debasish Roy, Mixed ionic-electronic conductivity and dielectric relaxation of Na<sub>2</sub>O doped ZnO-P<sub>2</sub>O<sub>5</sub>-V<sub>2</sub>O<sub>5</sub> quaternary glass system, INCOM24: Proceedings of the 2nd International Conference on Mechanical Engineering Jadavpur University Kolkata India January 5 & 6, 2024 Paper No. INCOM24
- R. Chakrabarti, S. B. Hota, P. B.Mandal, “The New Age Electroless Duplex Coating- A Review”, Recent Trends and Future Direction in Production Engineering and Management: Vision 2030, ISBN: 978-81-959819-6-0.
- Mr. Arnab Ray attended the 5 Days Faculty Development Program (Online Mode) on “Industry 4.0: Technological evolution” from 1st – 5th April, 2024, Organized by Techno College of Engineering Agartala.

- Mr. Arnab Ray attended the One Week Faculty Development Program (Online Mode) on “Sustainable Energy Spectrum: Exploring Trends and Applications in Renewable Resources” from 14th to 20th May, 2024, Organized by Department of Mechanical Engineering, Army Institute of Management, Pune.
- Mr. Arnab Ray attended the 5 Days Faculty Development Program (Online Mode) on “Industrial Advancement in Electronics and Communication Engineering” from 3rd to 7th June 2024, Organized by TCEA in association with Internal Quality Assessment Cell & Institution Innovation Council
- Mr. Arnab Ray attended as Committee Member of celebration of World Environment Day 2024 at Sealdah Railway Station on 05.06.24
- Mr. Mukul Banerjee attended one-week Faculty Development Program (Online Mode) on “Professional values and ethics” from 4th-10th December, 2023, Organized by NITTTR, Kolkata.
- Mr. Mukul Banerjee attended one-week Faculty Development Program (Online Mode) on “Machine Learning Applications for Mechanical Engineers (MLAME)” from 18th December to 23rd December 2023, Organized by Department of Mechanical Engineering & Computer Science & Engineering, CVR College of Engineering
- Mr. Mukul Banerjee attended the 15 days Faculty Training Program (Online Mode) on “Entrepreneurship Development (Energy Conservation through Electric Vehicles)” from 29.12.2023-12.01.2024, Organized by Anna University Department of Science and Technology.
- Mr. Mukul Banerjee attended the 5 Days Faculty Development Program (Online Mode) on “Industry 4.0: Technological evolution” from 1st – 5th April, 2024, Organized by Techno College of Engineering Agartala.
- Mr. Mukul Banerjee attended 5 days Faculty Development Program (Online Mode) on “Sustainable Advancements and Developments in Mechanical Engineering (SADME-2024)” from 10th June to 14th June 2024, Organized by Department of Mechanical Engineering, National Institute of Technology Manipur, Imphal, India
- Mukul Banerjee, Chiranjib Bhowmik, Arup Ratan Dey, Pathikrit Das. Percentage Selection of Optimum Chassis Material for Electric Vehicles: An Eclectic Decision. (Contributed) In 2nd International Conference on Recent Advances in Functional Materials (RAFM-2024), 14-16 March, 2024, Organized by Department of Physics & IQAC, Atma Ram Sanatan Dharma College (Delhi University)
- Mr. Pathikrit Das attended the One Day Workshop on “NEP 2020-Plan for implementation” on 1st August 2023, Organized by NITTTR, Kolkata
- Mr. Pathikrit Das attended the One Week Faculty Development Program (Hybrid Mode) on “Polymer composites and nanocomposites” on 7th-11th August, 2023, Organized by NITTTR, Kolkata.
- Mr. Pathikrit Das attended one-week Faculty Development Program (Online Mode) on “Professional values and ethics” from 4th-10th December, 2023, Organized by NITTTR, Kolkata.

- Mr. Pathikrit Das attended one-week IKS-TKDL WORKSHOPS on “Traditional Knowledge-Intellectual Property and People's rights” from 16th to 22nd November 2023, Organized by CSIR-Traditional Knowledge Digital Library, Ministry of Science and Technology
- Mr. Pathikrit Das attended one-week Faculty Development Program (Online Mode) on “Machine Learning Applications for Mechanical Engineers (MLAME)” from 18th December to 23rd December 2023, Organized by Department of Mechanical Engineering & Computer Science & Engineering, CVR College of Engineering
- Mr. Pathikrit Das attended one-week Faculty Development Program (Online Mode) on “Frontiers in Mechanical Engineering: Embracing Modern Trends and Innovations” From 21st March to 27th March 2024 Organized by Department of Mechanical Engineering, DMI College of Engineering.
- Mr. Pathikrit Das attended the 15 days Faculty Training Program (Online Mode) on “Entrepreneurship Development (Energy Conservation through Electric Vehicles)” from 29.12.2023-12.01.2024, Organized by Anna University Department of Science and Technology.
- Mr. Pathikrit Das attended the 15 days Short Term Training Programme on Refreshers Course on Engineering Mechanics from 15th April to 26th April 2024, Organized by Organized by NITTTR, Kolkata.
- Mr. Pathikrit Das successfully completed the 5-month internship program on “Get Started with Artificial Intelligence” from May-September 2023, Organized by Math-works with AICTE.
- Chiranjib Bhowmik, Mukul Banerjee, Pathikrit Das, Arup Ratan Dey. Selection of Natural fiber-polymer composites for sustainable practices A Probability-Based Approach to Euclidean Distance Function. (Contributed) in 2nd International Conference on Recent Advances in Functional Materials (RAFM-2024), 14-16 March, 2024, Organized by Department of Physics & IQAC, Atma Ram Sanatan Dharma College (Delhi University)
- Mukul Banerjee, Chiranjib Bhowmik, Arup Ratan Dey, Pathikrit Das. Percentage Selection of Optimum Chassis Material for Electric Vehicles: An Eclectic Decision. (Contributed) In 2nd International Conference on Recent Advances in Functional Materials (RAFM-2024), 14-16 March, 2024, Organized by Department of Physics & IQAC, Atma Ram Sanatan Dharma College (Delhi University).

## **Publications (Books / Articles / Papers / Journals)**

- R. Samanta and A. Ghatak “Tribo-metallurgical behaviour of high Zn content Al-Zn-Mg-Cu alloy in different homogenization conditions”, *Sādhanā* (Springer)(SCI), vol. 49, 2024, pp.178(1-15).
- Chiranjib Bhowmik, Manjeet Khare, Bhavesh Mewada, Prasenjit Chatterjee (2023). Selection of optimum green energy source under smart city environment for sustainable energy management and planning: an eclectic decision. *Reports in Mechanical Engineering*; 4(1): 193-212. (SCOPUS), ISSN: 2683-5894. <https://doi.org/10.31181/rme040105102023b>

- Sudipta Ghosh, Chiranjib Bhowmik, Rakesh D. Rout, Madhav Chandra Mandal, Amitava Ray (2023). A comprehensive decision-making framework for green supplier selection in the automobile industry. *Supply Chain Analytics*; 3: 100033. (SCOPUS) ISSN: 2949-8635. <https://doi.org/10.1016/j.sca.2023.100033>
- Chiranjib Bhowmik, Sudipta Ghosh, Sumit Das Lala, Amitava Ray (2024). Process of Combined Thinking for Long-Term Sourcing. In: Kautish, S., Chatterjee, P., Pamucar, D., Pradeep, N., Singh, D. (eds) *Computational Intelligence for Modern Business Systems. Disruptive Technologies and Digital Transformations for Society 5.0*. Springer, Singapore. [https://doi.org/10.1007/978-981-99-5354-7\\_19](https://doi.org/10.1007/978-981-99-5354-7_19)
- Dipankar Biswas, Souvik Brahma Hota, Rittwick Mondal, Sabyasachi Mukherjee, Puspendu Chandra Chandra, Anindya Sundar Das, Soumyajyoti Kabi, Debasish Roy, Effect of heavy metal and alkaline earth oxides on the optical and electrical mechanism of vanadium-phosphate amorphous glassy systems, *Journal of Non-Crystalline Solids*, Volume 620, 2023, 122593, ISSN 0022-3093, <https://doi.org/10.1016/j.jnoncrysol.2023.122593>. (SCI, Scopus).
- Souvik Brahma Hota, Dipankar Biswas, Rittwick Mondal, Debasish Roy, Effect of Na<sub>2</sub>O on ionic-electronic conduction and dielectric relaxation of P<sub>2</sub>O<sub>5</sub>-ZnO-V<sub>2</sub>O<sub>5</sub> glass system, *Lecture Notes on Mechanical Engineering*, Springer(Scopus)(Accepted)
- Mukul Banerjee, Pathikrit Das” A review on barrier and interoperability challenges of electric vehicle for Sustainable Development”, in *IJRAR - International Journal of Research and Analytical Reviews*, Volume 10, Issue 4, pp. 959-966, October 2023. E-ISSN 2348-1269, P-ISSN 2349-5138, Available [https://ijrar.org/viewfull.php?&p\\_id=IJRAR23D1382](https://ijrar.org/viewfull.php?&p_id=IJRAR23D1382)
- Mukul Banerjee, “A REVIEW STUDY ON GRAPHENE AND HEXAGONAL BORON NITRIDE”, in *IJRAR - International Journal of Research and Analytical Reviews*,” Volume 9, Issue 1, pp. 904-912, February 2022. E-ISSN 2348-1269, P-ISSN 2349-5138, doi:<http://doi.org/10.1729/Journal.29219> Available- [https://ijrar.org/viewfull.php?&p\\_id=IJRAR22A1714](https://ijrar.org/viewfull.php?&p_id=IJRAR22A1714).

## Departmental Events

- Conducted Study Tour to the MSME Tool Room Bon-Hoogly Kolkata with the Students of B. Tech Third Year and Diploma Final Year on 12.03.2024.

## List and details of Achievement (Academic and Non-Academic) of the students, faculty/staff members

- Dr. Amitava Ghatak became an Editorial Board Member of *International Journal of Mechanical Engineering and Applications*, NY 10020 U.S.A.
- Dr. Amitava Ghatak Reviewer of *Journal of Materials Engineering and Performance* (Springer, I.F: 1.819).
- Dr. Amitava Ghatak reviewed a paper for *Journal of Signal, Image and Video Processing* (Springer, I.F. 2.157).

- Dr. Amitava Ghatak reviewed a paper for the Journal of Proceedings of the Institution of Mechanical Engineers
- Dr. Amitava Ghatak reviewed a paper for Journal of Science of the Total Environment (Elsevier, I.F.: 7.963)
- Dr. Amitava Ghatak reviewed a paper for the journal of Proceedings of the Institution of Mechanical Engineers, Part I: Journal of Systems and Control Engineering (Sage Publications, I.F.: 1.166)
- Mr. Souvik Brahma Hota became the Official translator of the SWAYAM course “Fundamentals of Manufacturing Processes”.
- Mr. Souvik Brahma Hota “A method for synthesizing bi-incorporated as<sub>30</sub>-se(70-x) bix chalcogenide glasses by deploying the conventional melt quenching method”, South African Patent, Patent no- 2023/02850,26th July,2023
- Mr. Souvik Brahma Hota “Transition-metal oxides-doped glass nanocomposites composition for a non-enzymatic glucose sensor and its preparation process thereof” Application No.202311065399 A, Publication Date: 16/02/2024(Indian Patent).
- Dr. Chiranjib Bhowmik reviewed 5 papers for the journal of Energy Reports (Elsevier, I.F.: 4.7)
- Dr. Chiranjib Bhowmik reviewed 3 papers for the journal of Energy (Elsevier, I.F.: 9.0)
- Dr. Chiranjib Bhowmik reviewed 3 papers for the Journal of Cleaner Production (Elsevier, I.F.: 9.7)
- Dr. Chiranjib Bhowmik reviewed 2 papers for the journal of Renewable and Sustainable Energy Reviews (Elsevier, I.F.: 16.3)
- Dr. Chiranjib Bhowmik reviewed 1 paper for the journal of Renewable Energy (Elsevier, I.F.: 9.0)
- Dr. Chiranjib Bhowmik reviewed 1 paper for the journal of Heliyon (Elsevier, I.F.: 3.4)
- Harshit Raj of Mechanical Engineering Department (2024 Pass out) scored valid Gate Score and Take admission in M. Tech IIT Kanpur in Thermal Engineering.
- Ira Gupta of B. Tech Final Year of the Mechanical Engineering Department was Finalist from the team Agro-tech Twins at Avinya 2024 Hackathon at IIT Guwahati in 2024.
- Ira Gupta of B. Tech Final Year of the Mechanical Engineering Department stood 2nd in the topic “Life Sensing Compactor Robot” in World Creativity and Innovation Day at Techno India University West Bengal on 23rd April 2024.

# *Department of Civil Engineering*

## **Departmental Achievements**

### **Participation in International/National Conferences/Seminars/Workshops and FDPs**

- Dr. Suman Pandey attended a 2 to 5 days FDP on “Advancements in Sustainable Materials and Technologies for Civil Engineering”- Abacus Institute of Engineering and Management, 01-Apr-24 to 05-Apr-24.
- Dr. Suman Pandey attended a 1 day FDP-Fostering innovation for a sustainable and eco-friendly future-Techno India University, West Bengal held on 26th April 2024.
- Dr. Suman Pandey attended the Indian Concrete Institute-International Symposium on Innovative Concrete of World-IWC-24-(18th to 20th Jan 2024).
- Dr. Suman Pandey attended the 14th Inter-University Engineering, Science & Technology Academic Meet – 2024 & Innovative Model Competition for a Sustainable Society 11th & 12th May, 2024.
- Mr. Minangshu Baidya attended the Indian Concrete Institute-International Symposium on Innovative Concrete of World-IWC-24-(18th to 20th Jan 2024).
- Mr. Minangshu Baidya presented a paper on International Conference on Security, Surveillance and Artificial Intelligence (ICSSAI-2023) -(1st - 2nd December, 2023).
- Dr. Heleena Sengupta attended the Workshop on "NEP 2020 - Plan for implementation", 01-Aug-23, NITTTR, Kolkata.
- Dr. Heleena Sengupta attended the FDP on 'Artificial Intelligence' conducted between 03Jan-08Jan'24 by Techno International Batanagar in association with Appolonius.
- Dr. Heleena Sengupta attended the FDP on 'Recent advances and future trends in AI and NLP' conducted between 15th April – 19th April' 2024 by Global Institute of Science and Technology.
- Dr. Heleena Sengupta attended the FDP on 'Advancements in Sustainable Materials and Technologies for Civil Engineering' conducted between 01st April – 05th April '2024 by Abacus Institute of Engineering and Management.
- Dr. Heleena Sengupta attended the international conference namely as 'International Symposium on Innovative Word of Concrete' conducted between 18th January – 20th January' 2024 by ICI.
- Dr. Heleena Sengupta attended the national conference namely as 'Regional Meet' organised by IIC, MHRD on 12th Jan'2024.

### **Publications (Books / Articles / Papers / Journals)**

- Dr. Suman Pandey, A comparative performance study on fly ash based geopolymer by varying activator and class of base material by Industry 4.0 with modern technology, CRC Press, Taylor and Francis group, ISBN:9781032586472 (pbk), ISBN:9781003450924 (ebk), DOI:10.1201/9781003450924.
- Dr. Suman Pandey, Response Analysis and Evaluation of Vibration Control of High-Rise Structure, by Industry 4.0 with modern technology, CRC Press, Taylor and Francis group, ISBN:9781032586472(pbk), ISBN:9781003450924(ebk), DOI:10.1201/9781003450924.
- Dr. Suman Pandey, Innovative Concrete Solutions: Evaluating Water Hyacinth Fiber Reinforcement for reinforcing concrete, "Green Sustainability Development in Engineering & Technology", April 05, 2024, JIS College of Engineering.
- Dr. Suman Pandey, Transformative Approaches to Sustainable Construction: Harnessing Brick Debris for Green Concrete Solutions, "Green Sustainability Development in Engineering & Technology", April 05, 2024, JIS College of Engineering.
- Dr. Suman Pandey, Prospects and Challenges of Producing Concrete using Coconut Shells: An extensive review, 14th Inter-University Engineering, Science & Technology Academic Meet – 2024 & Innovative Model Competition for a Sustainable Society 11th & 12th May, 2024.
- Dr. Suman Pandey, Innovative Approaches to Concrete: Evaluating Strength and Workability with Coconut Shell Partial Replacement, 14th Inter-University Engineering, Science & Technology Academic Meet – 2024 & Innovative Model Competition for a Sustainable Society 11th & 12th May, 2024
- Development of Green Concrete using Jute as a Natural Fiber- An Extensive Literature Review by S. Kanti and S. Pandey.
- Dr. Suman Pandey, A REVIEW ON THE CONCRETE STRENGTH BY USING JUTE AS NATURAL FIBER," in Recent Trends in Civil Engineering, CEC-2023, Haldia Institute of Technology, Haldia,2023,pp 27-32, ISBN: 978-81-967368-8-0.
- Dr. Anup Kumar Mandal, Utilization of Industrial By-products in Geopolymer Concrete: Waste management Solutions and Circular Economy.- Journal of the Asiatic Society of Mumbai, Published in Vol. 98, No. 3, March 2024, ISIN:0972-0766, UGC-CARE List Group I.
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- Mr. Minangshu Baidya, A Fresh Approach using the Dijkstra and A-star Algorithms to Look up Dominant Failure Sequences in Structures, International Conference on Security, Surveillance and Artificial Intelligence (ICSSAI-2023), Taylor & Francis, CRC Press.
- Mr. Minangshu Baidya, Analysis of the Progression of the Collapse of Regular and irregular RCC Buildings, IJERTV12IS100047, ISSN (Online): 2278-0181, DOI: 10.17577/IJERTV12IS100047.
- Dr. Heleena Sengupta, Innovative Concrete Solutions: Evaluating Water Hyacinth Fiber Reinforcement for reinforcing concrete by T. Dutta, S.Pandey and Heleena Sengupta.
- Dr. Heleena Sengupta, Transformative Approaches to Sustainable Construction: Harnessing Brick Debris for Green Concrete Solutions by A. Chakraborty, Heleena Sengupta and S.Pandey.
- Dr. Heleena Sengupta, Evaluating Water Hyacinth Ash as a Viable Construction Material: An In-depth Analysis of Its Sustainable Potential by A. Chakraborty, Heleena Sengupta and S.Pandey.
- Dr. Heleena Sengupta, Incorporation of recycled waste glass powder (RGP) and bagasse ash in high volume fly ash-based cement concrete: a sustainable construction practice, INTERNATIONAL CONFERENCE (AMPT 2023), 3rd International Conference on "Advancement in Materials Processing Technology", Nov'23.
- Dr. Heleena Sengupta, Waste materials used in the construction industry are beneficial to the environment, INTERNATIONAL CONFERENCE (AMPT 2023), 3rd International Conference on "Advancement in Materials Processing Technology" (NIT Jamshedpur), January 2024.
- Dr. Heleena Sengupta, Preparing a fly ash-based cement mortar with sugarcane bagasse ash and recycled glass powder (RGP) to replace some percentage of cement, INTERNATIONAL CONFERENCE (ICASME'23), 4th International Conference on Advances in the sustainability of materials and Environment, Jan'24.

- Dr. Heleena Sengupta, An In-Depth Study Of Outrigger And Belt-Truss Systems, International Journal of Engineering Research & Technology, ISSN: 2278-0181, Vol. 12 Issue 09, September-2023 by S. Pradhan and Heleena Sengupta.
- Dr. Heleena Sengupta, Book chapter on Response of asymmetric building under different soil-foundation conditions incorporating, soil structure interaction, in Industry 4.0 with modern technology, DOI:10.1201/9781003450924, ISBN:9781003450924(EBK), ISBN:9781032586471(PBK).

## Departmental Events

- Student presentations on “Innovative engineering approaches in Metro rail system: 10th May’2024
- Parents Teachers Meeting was held on 09th and 10th Jul’2024
- Students Chapter under IEI of CE Department was awarded on 25th Jul’2024

## List and details of Achievement (Academic and Non-Academic) of the students, faculty/staff members

- Final year Civil engineering students team won First runner up prize in 14th Inter-University Engineering, Science & Technology Academic Meet – 2024 & Innovative Model Competition for a Sustainable Society 11th & 12th May, 2024
- 34 Students have obtained certificates of students chapter under IEI in July’24
- Samirul Islam Dhali and Gulam Waris were part of the SIH 2023 shortlisted team for Hardware and their team was part of the Grand Finale
- Dr. Heleena Sengputa:
  - Patent: Application No - 202341035336, Publication Date: 01-Sep-23, Application Date: 21-May-23
  - Technical Expert for the 3 year Diploma Syllabus Sub-Committee for "Civil Engineering (Extended)"
  - External trade expert for design of the course curricula of 04 nos. of Short Term Course (STC) on 22nd May, 2024 at CSTARI, Kolkata
  - External expert of Civil Engineering for the annual evaluation of the faculty members of Calcutta Institute of Technology (CIT)
- Dr Sushovan Sarkar was granted Indian patent no. 495928 (Title: Fixed bed aerobic hybrid bioreactor fitted with Nonagon cylindrical mounted attachment frame) on 08.01.24.

# *Department of Biotechnology*

## **Departmental Achievements**

### **Participation in International/National Conferences/Seminars/Workshops and FDPs**

- Dr. Saurav Bhattacharya completed the National level Online Faculty Development Program on Outcome Based Education and Application of Generative AI in Teaching and Research during 27th April to 5th May 2024 organised by the Internal Quality Assurance Cell (IQAC) of Gauhati University, Assam.
- Dr. Saurav Bhattacharya attended a One-Day workshop on “NEP 2020 – Plan for Implementation” organized by NITTR, Kolkata and Techno India University on 1st August, 2023.
- Dr Saurav Bhattacharya presented a paper at the International Conference on Recent Trends in Biotechnology and Chemistry held at Sripat Singh College on December 20, 2023
- Dr. Uttara Mahapatra attended Cancer Immunology National Workshop - Recent Developments & Career Prospects Workshop conducted on December 10, 2023 organized by BioTecNika Info Labs Pvt Ltd
- Dr. Uttara Mahapatra attended Proteomics Research Internship for the duration of 21 days organized by BioTecNika Info Labs Pvt Ltd on August 28, 2024.
- Dr. Uttara Mahapatra attended Bioinformatics Global Research Online Hands-On Internship for the duration of 15 days (28th September-20th October 2023) organized by BioTecNika Info Labs Pvt Ltd.
- Dr. Uttara Mahapatra attended Advanced Microscopy Techniques in Life Science Research National Workshop conducted on September 2nd 2023 organized by BioTecNika Info Labs Pvt Ltd
- Dr. Uttara Mahapatra attended National Workshop on Research Field Selection - How to Select Your Research Field: Strategies & Insights Workshop conducted on December 18, 2023 organized by BioTecNika Info Labs Pvt Ltd.
- Dr. Priyanka Sarkar Ghosh successfully completed Faculty Development Program (FDP) on Applied Environmental Microbiology, organized by SWAYAM-NPTEL, from January-April, 2024.
- Dr. Priyanka Sarkar Ghosh Successfully completed Faculty Development Program (FDP) on Principles of Downstream Techniques in Bioprocess, organized by SWAYAM-NPTEL, from July-October, 2023.
- Dr. Priyanka Sarkar Ghosh Participated in the online Workshop on Interpretation of Instrumental Methods (WIIM-2024), organized by the Department of Chemistry, School of Science and Humanities & Centre for Nano Science and Nanotechnology, International Research Centre, Satyabhama Institute of Technology, Chennai, in association with CSIR- National Metallurgical Laboratory, during 8th - 11th January, 2024.

- Dr. Malavika Bhattacharya attended the 7-day Online Faculty Development Programme (FDP) on “Essential Skills for Professional Development in Higher Education” organized by Star International, Foundation for Research and Education from 2nd -8th July, 2024.
- Dr. Malavika Bhattacharya attended 5-day FDP-SI UHV Online - “AICTE Incorporating Universal Human Values in Education (An AICTE Initiative)” organized by AICTE, from 18th-22nd December, 2023.
- Dr. Malavika Bhattacharya attended “Five-Day International Level Online Faculty Development Programme (FDP)” on “Bioinformatics & Computational Biology Approaches in Present Day Research” organized by Department of Biotechnology, University of Engineering and Management, from 6th-10th November, 2023.
- Dr. Malavika Bhattacharya attended Seven Days International Level Virtual Faculty Development Programme On “The Power of Positivity Approach in Teaching & Learning System of Cultural Transformation” organized by Hindusthan College of Arts and Science (affiliated to Bharathiar University), Coimbatore, Tamil Nadu from 19th-26th September, 2023.
- Dr. Malavika Bhattacharya attended a one-Day workshop on “NEP 2020 – Plan for Implementation” organized by NITTR, Kolkata and Techno India University on 1st August, 2023.
- Dr. Malavika Bhattacharya attended “Online Faculty Development Programme (FDP)” on “Online Education: An Evolving Paradigm” jointly organized by the Association of Indian Universities (AIU) and Guru Gobind Singh Indraprastha University (GGSIPU), Academic and Administrative Development Centre (AADC), New Delhi from 13th-17th February, 2023.
- Dr. Malavika Bhattacharya attended National Seminar on “Current Trends in Biological Sciences Chapter II” organized by Department of Biosciences, JIS University, Kolkata on 6th February, 2024.
- Dr. Malavika Bhattacharya attended 1ST International Conference on Enhancing Health through Environment Biotechnology and Entrepreneurship (Hybrid Mode) at Brainware University, Kolkata from February 22-24, 2024 (through Student Presentations).
- Dr. Malavika Bhattacharya attended 31st West Bengal State Science and Technology Congress at Kalyani University, Nadia from 3rd-4th January, 2024 (through Student Presentations).
- Dr. Malavika Bhattacharya attended a webinar on “Nipah Virus Disease - A OneHealth Perspective” jointly organised by Indian Council of Medical Research (ICMR) and Centres for Disease Control and Prevention (CDC) on November 3, 2023.
- Dr. Malavika Bhattacharya attended Webinar “BIG QUESTIONS, INNOVATIVE APPROACHES - Scientific Talk #4” organized by Indiabioscience, October 4, 2023.
- Dr. Malavika Bhattacharya attended Webinar “Spin Your Saga: Exploring India's Futuristic Narratives” organized by Indiabioscience, September 28, 2023.

- Dr. Malavika Bhattacharya attended Peer Review Week 2023 (25-29 September), 2023 organized by Cactus Communications
- Dr. Malavika Bhattacharya attended webinar "Publish, But Don't Perish: Navigating Academic Publishing" by Indiabioscience, August 25, 2023.
- Dr. Malavika Bhattacharya attended a webinar on Applications of Mass Spectrometry organized by Venture Center, August 9, 2023.
- Dr. Malavika Bhattacharya attended webinar Fundamentals of Research Ethics with Turnitin, July 7, 2023.

## **Publications (Books / Articles / Papers / Journals)**

- Mahapatra, Uttara, Ajay Kumar Manna, and Abhijit Chatterjee. "Modeling of Breakthrough Curves in Removal of Cr(VI) and Methylene Blue Using Immobilized Activated Carbon from Natural Rubber Waste." *Bioresource Technology Reports*, vol. 24, 2023, p. 101600. Elsevier Publishing Group, <https://doi.org/10.1016/j.biteb.2023.101600>.
- Nath, Pinku Chandra, et al. "Sustainable Production of Cellulosic Biopolymers for Enhanced Smart Food Packaging: An Up-to-Date Review." *International Journal of Biological Macromolecules*, vol. 273, pt. 2, 2024, p. 133090. Elsevier Publishing Group, <https://doi.org/10.1016/j.ijbiomac.2024.133090>.
- Mishra, Bishwambhar, et al. "Recent Advances in Sustainable Biopolymer-Based Nanocomposites for Smart Food Packaging: A Review." *International Journal of Biological Macromolecules*, vol. 279, pt. 4, 2024, p. 135583. Elsevier Publishing Group, <https://doi.org/10.1016/j.ijbiomac.2024.135583>.
- Sarkar, P., I. Paul, and A. Dey. "Optimization of Malachite Green Decolourization Efficiency by an Isolated Bacterial Consortium." Oral Presentation at the 1st International Conference - Green Biomerge-2024, Enhancing Health through Environment, Biotechnology and Entrepreneurship, Brainware University, 22-24 Feb. 2024.
- Niyogi, A., et al. "Harnessing the Potential of Agriculture Biomass: Reuse, Transformation, and Applications in Energy and Environment." *Environmental Science and Protection Research*, 2024, <https://doi.org/10.1007/s11356-024-34232-7>.
- Garkoti, P., et al. "Role of Biomass-Based Biorefinery in Mitigating Environmental Pollution." *Clean Technologies Towards Development of Sustainable Environment and Future (IWA)*, 2023, ch. 13, doi:10.2166/9781789063783\_0247.
- Paul, I., and P. Sarkar. "Application of Microbial Techniques for the Synthesis of Food Grade Agents from Different Agro-Biomass." *Agricultural Biomass for the Synthesis of Value-Added Materials*, CRC Press, Taylor & Francis Group, 2023.

- Shukla, P., et al. "Strategic Approaches for Agricultural Biomass Conversion to Bio-Alcohol Using Membrane-Based Microbial Technology." *Agricultural Biomass for the Synthesis of Value-Added Materials*, CRC Press, Taylor & Francis Group, 2023.
- Chakraborty, A., and M. Bhattacharya. "Deciphering Insights into Host-Pathogen Interactions Between Macrophage and Different Microbial Species - A Novel Approach." *Asian Journal of Biological and Life Sciences*, vol. 13, no. 1, Jan.-Apr. 2024, pp. 1-8.
- Majumder, A., and M. Bhattacharya. "Analysis of an Important Gene and a Brief Study Detect SNPs in the Endometrial Cancer by Using UCSC Genome Browser Tools as an In-Silico Approach." *TIU Transactions on Human Sciences (TTHS)*, vol. 2, 2024, pp. 10, 1-20.
- Khatun, M., and M. Bhattacharya. "Immunomodulation in Cancer." *TIU Transactions on Human Sciences (TTHS)*, vol. 1, 2024, pp. 36-41.
- Samanta, S., and M. Bhattacharya. "Macrophage Death Induced Cellular Mechanisms and Some Regulatory Pathways of Death-Related Diseases." *IP Indian Journal of Immunology and Respiratory Medicine*, vol. 8, no. 4, 2023, pp. 120-132.
- Sengupta, S., S. Ghorui, and M. Bhattacharya. "Molecular Docking Analysis of the Phytocompounds Found in Citrus Seeds and Their Effects on the Hallmark Gene of HNSCC." *Asian Journal of Pharmaceutical and Health Sciences*, vol. 13, no. 3, 2023, pp. 2878-2899.
- Sengupta, S., et al. "A Brief Comparative Study of the Natural Sources (Lemons) in the Basis of Protein, Vitamin C, Their Antibacterial, Anthelmintic, and Cell Viability on Immune Cells." *International Journal of Herbal Medicine*, vol. 11, no. 5, 2023, pp. 14-21.
- Adhikary, S., and N. Dasgupta. "Role of Secondary Metabolites in Plant Homeostasis During Biotic Stress." *Biocatalysts and Agricultural Biotechnology*, vol. 50, 2023, p. 102712.

## Departmental Events

- Organized Two-day International Seminar on Micro Biotech Solutions: Bridging Technology and Sustainable Society from 21-22 March 2024 at Techno India University.
- Organized an event on 27th September, 2023 on the occasion of the exclusive launch of the e-bulletin of Biotech Department, Techno India University. During this occasion, Prof Debasish Datta, CEO Kolkata Biotech Park had presented a Keynote Speech.
- Published 7 editions of the Monthly e-bulletin.
- Organized International DNA Day held on April 25th, 2024 at Techno India University, Kolkata.

## List and details of Achievement (Academic and Non-Academic) of the students, faculty/staff members

- Elsevier reviewer recognition certificates provided by Microbial Research (SCI/SCOPUS/WOS Journal) for successfully completing two manuscript reviews in May 2024. – Dr. Priyanka Sarkar Ghosh.
- Dr. Saurav Bhattacharya served as the reviewer of the *Journal of Genetic Engineering and Biotechnology*, Elsevier in 2023.
- Nishan Ranjan Ghosh was selected for Sri Srilekha Raha Memorial Scholarship to pursue PhD research at the Department of Biotechnology jointly under Dr. Saurav Bhattacharya and Dr. Nirjhar Dasgupta.

- Dr. Malavika Bhattacharya served as Reviewer for the Journals:
  - Heliyon (a Cell Press Journal)
  - European Journal of Nutrition & Food Safety
  - Asian Journal of Food Research and Nutrition
  - Asian Journal of Immunology
- Dr. Malavika Bhattacharya serving as a Member of the Editorial Board of ARCC Journals
- Ph.D. Supervision under Dr. Malavika Bhattacharya: Thesis submitted: Sudeshna Sengupta, Pre-Thesis synopsis presented: Atreyee Majumder
- 3 students **Tunir Biswas**, **Sk Natasha** and **Deblina Satra** from 3rd Year B Tech Biotechnology cleared the GATE Biotechnology exam in 2024.

## *School of Architecture*

### Departmental Achievements

#### Participation in International/National Conferences/Seminars/Workshops and FDPs

- Prof. Rosi Sarkar was invited as speaker to a 2-day workshop on 'Design Thinking' organised by IIC (Institutions Innovation Council), Techno India University, West Bengal on 12th February 2024 to 13th February 2024.
- Prof. Rosi Sarkar was invited as a panellist in the event "women in place making", organized by the IUDI (Institution of Urban Designers, India), on 5th April 2024.
- Prof Alivia Mondal attended the "International Workshop on Research Manuscript Drafting & Patent Filing Process" organized by Eudoxia Research University , ERU – USA & Eudoxia Research Centre , ERC – India in association with Rangachahi College , Majuli, Assam, India between 20th November 2023 – 28th November, 2023.
- Prof. Shreya Sen and Prof. Rosi Sarkar participated as Jury Member for Grand Stand Award (on 16th March), a materials exhibition by Ace Reflect held at Science City on 15th, 16th and 17th March, 2024.
- Prof. Shreya Sen participated in Seminar on "Navigating Climate Change" organised by ITPI, on 20th January, 2024
- Prof. Shreya Sen Participated in Seminar on "The brink of climate disaster", organised by ITPI on 4th May,2024.
- Prof Alivia Mondal participated in the webinar on the theme of "Environmental Restoration through Circular Economy" to celebrate "World Environment Day" organized by "Centre for Sustainable Habitat Guru Nanak Dev University, Amritsar on 5th June, 2024.
- Prof. Bubu Mukherjee attended the Trade Committee Meeting for design of the course curriculum of 04 nos. Short Term Training (STT) courses: CAD (240 hrs.), CAD (Civil) (240 hrs.), CAD (Mechanical) (240 hrs.), CAD (Electrical) (240 hrs.) on 22nd May 2024 at CSTARI, Kolkata.
- Prof. Alivia Mondal, Prof. Shreya Sen, Prof. Rosi Sarkar, Prof. Saptarshi S. Chakrabarti, Prof. Goutam Banerjee and Prof. Bubu Mukherjee completed FDP on one day workshop on "NEP 2020 – Plan for

- Implementation" conducted by NITTTR (National Institute of Technical and Research), Kolkata, held on 1st August 2023.
- Prof. Alivia Mondal and Prof. Rosi Sarkar completed an online session on "EXPERIMENTAL METHODS IN ARCHITECTURAL RESEARCH" by Prof Dr. K MOHAN, Dean, Faculty of Architecture, Sri Sri University, Cuttack" conducted by BMS School of Architecture, Bangalore, Karnataka, held on 3rd November 2023.
- Prof. Alivia Mondal and Prof. Rosi Sarkar completed FDP on (Short- Term Teachers Training Program #1) "Sustainable Synergy: Exploring Green Technology and Materials in Architecture "conducted by BMS School of Architecture, Bangalore, Karnataka, held on 6th – 10th November 2023.
- Prof. Alivia Mondal attended an International Workshop on Research Manuscript Drafting and Patent conducted by BMS School of Architecture, Bangalore, and Karnataka, held on 6th – 10th November 2023.
- Prof. Rosi Sarkar attended an Online course on "Basics of counselling and career counselling "conducted by Udemy; Era Foundation for 3 weeks in the month of December 2023.
- Prof. Rosi Sarkar attended an Online course on "Master the Art of Letting Go and Following Inspiration "conducted by Udemy; Era Foundation for 2 weeks in the month of January 2024.
- Prof. Rosi Sarkar attended an Online session on "Sustainability Research in the Built Environment, by Prof. (Dr.) Monto Mani, Professor, Centre for Sustainable Technologies (formerly ASTRA), & Centre for Product Design & Manufacturing, Indian Institute of Science, Bangalore" conducted by BMS School of Architecture, Bangalore, Karnataka held on 20th January 2024.
- Prof. Alivia Mondal attended an online course on "Sustainable Coastal Area Designing, Planning, conducted by Council of Architecture, Training and Research Centre, Bhopal from 13th February 2023 to 17th February 2023.
- Prof. Shreya Sen and Prof. Rosi Sarkar attended an online course on 'Architecture Pedagogy, A way ahead' conducted by National Institute of Technology, Patna from 11th December 2023 to 15th December 2023.
- Prof. Alivia Mondal completed FDP on Application of AI in Research Methods and Manuscript Drafting Process (FDP AI RES 2.0)"organized by Eudoxia Research University , ERU – USA & Eudoxia Research Centre , ERC – India & European International Research Council of Eudoxia from 20th May 2024 – 27th May, 2024.
- Prof. Rosi Sarkar attended an online course on "Professional certification in counselling - fully accredited" organised by Udemy and Instructed by Prof. Krishna N Sharma, Virtual Academy International.
- Prof. Rosy Sarkar completed FDP on Intellectual Property Rights (IPR) organised by Vigyan Chetana Bhavan (offline) on 8th April 2024.

- Prof. Rosi Sarkar attended an online session on "AI powered research writing", by Dr. K S Sowmiya Rani, editor, Editage (Cactus communications) organised by BMS School of Architecture, Bangalore, Karnataka on 8th April 2024.
- Prof. Rosi Sarkar attended an online session on "Python for Beginners - Level 2" organised by the Council of Architecture Training and Research Center, Bhopal, in association with Palnogram on 22nd April 2024 to 26th April 2024.
- Prof. Rosi Sarkar attended an online session on "PROMPT GENERATION USING AI FOR ARCHITECTURAL DESIGN", by Ar. Pranav Chahande, 10 Designs, Hong Kong organised by BMS School of Architecture, Bangalore and Karnataka on 29th May 2024 to 30th May 2024.
- Prof. Rosi Sarkar completed a workshop, "AI assisted Manuscript Writing" organised by Dr. K. S. Sowmiya Rani, Founder Sowmis\_AWW on 03rd June 2024 to 14th June 2024.
- Prof. Rosi Sarkar, Prof. Shreya Sen, Prof. Alivia Mondal, Prof. Nayonika Chakraborty completed FDP on "Innovative Strategies for Urban Environment Management: Tackling Urban Heating, Building Cooling, and Demolition Waste" organised by Amity School of Architecture and Planning, Amity University Kolkata, in collaboration with Centre for Science and Environment on 8th July 2024 to 12th July 2024.

## Departmental Events

- School of Architecture hosted the World Environment Day on 6th June 2024, with a total participation of 150 students across all departments from Techno India University, in collaboration with IIC-TIU. Event coverage can be accessed at [https://youtu.be/Xh\\_XeKamAyg?si=XJnJGvC-WPNas47x](https://youtu.be/Xh_XeKamAyg?si=XJnJGvC-WPNas47x).
- An eco-friendly 8feet tall Durga idol was constructed by students from Techno India Group's schools, colleges, and universities cooperating with one another from 4th October 2023 to 7th October 2023. Event coverage can be accessed at <https://www.telegraphindia.com/my-kolkata/news/students-of-techno-india-group-work-together-to-build-an-eight-foot-tall-durga-of-fabric/cid/1977343>.
- School of Architecture, Techno India University hosted a 2-day urban infill workshop which was conducted to educate participants on the benefits of urban infill development and its role in sustainable urban planning from 7th February 2024 to 8th February 2024.
- School of Architecture, Techno India University organised the 66th NASA (National Association of Students of Architecture) Day on September 13, 2023. The event included a fresher's orientation, a session on NASA (National Association of Students of Architecture) India and SAAT (Students' Architecture Association of Techno), and interactions with the Director and faculty.
- School of Architecture, Techno India University celebrated Teacher's Day on 5th September 2023.

## List and details of Achievement (Academic and Non-Academic) of the students, faculty/staff members

### DEPARTMENTAL ACHIEVEMENTS (Collaborations, Memberships, Event Participation, Approvals received etc.)

- Students from School of Architecture, TIU participated in the 'Mass Art' event at Ecole Intuit Lab in the topic "Research Laboratory for Design Process through Durga Puja Art" from 7th September 2023 to 15th October.
- Students from School of Architecture, Techno India University participated in the Annual NASA (Convention 65th year from 9th June 2023 to 12th June 2023).
- Students from School of Architecture, Techno India University participated in the ANC (Annual NASA Convention) at LPU (Lovely Professional University), Punjab on June 2023.

### FACULTY ACHIEVEMENTS:

- Prof. Alivia Mondal was certified in recognition for the valuable contribution & participation on the occasion of "VIVARTA'24", Technical Fest of TIU (Techno India University), happened during 8th-10th March, 2024.
- Prof. Rosi Sarkar received the Global Faculty Award in Global Education Fest, 2023, at New Delhi, on 4th November 2023 organized by AKS Education Awards
- Prof. Bubu Mukherjee has successfully completed the registration of a Ph.D. program with the tentative title: "Creating Sustainable Building Block Solutions by Repurposing Construction Waste as an Alternative Building Material," on 17th March 2024.

### STUDENTS' ACHIEVEMENTS:

- Students of the school of architecture of Techno India University (Z436) won gold medal in the 65th ANC (Annual NASA Convention) in the tenure of USEC (Unit Secretary) Devjyoti Pramanik, and UD (Unit Designee) Srijita Saha for hosting 65TH ZONASA, Biborton.
- Risika Dutta, Tanirika Biswas, Debosmita Halder, Bijayeny Karmakar and a few of the first year's participated in the NASA (National Association of Students of Architecture) writing trophy.
- The Nexus event was hosted by Z436, as zonal event by NASA (National Association of Students of Architecture) which was coordinated by Srijita Saha, USEC (Unit Secretary). It was a treasure hunt event where other architectural colleges of Kolkata like Jadavpur University, IEST Shibpur, Om Dayal, etc participated as well.
- All the students of the school of architecture of Techno India University have participated in ANDC (Annual NASA Design Competition).
- Devjyoti Pramanik, Debayudh Halder, Kaushik Sil, Risika Dutta, Srijita Saha, Aritra Das, Joy Tapadar, Debosmita Halder, Bijayeny Karmakar, Tanirika Biswas, Debarati Parit, Samanya Bhattacharjee, Abhishek Dasgupta, Soudip Mondal went to study the streets and activities of Tarapith for GSEN trophy documentation.
- All the students of school of architecture, Techno India University have participated ANDC (Annual NASA Design Competition) 2023 where participants were challenged to design innovative spaces using
- Pre-used or waste materials at a 1:1 scale, promoting creativity in sustainable architecture.



## ❖ URBAN INFILL WORKSHOP







❖ WORLD ENVIRONMENT DAY





❖ DURGA IDOL MAKING



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**DURGA PUJA**

## Students of Techno India Group work together to build an eight-foot-tall Durga of fabric

While the base was made of wood and body thermocol, it was all covered with cloth

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## Today



SOCIAL

### Joey and Monica bid adieu to Chandler

Rest of the F.R.I.E.N.D.S. cast mourn for their friend Matty



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## ❖ TEACHERS DAY 2023



## *School of Management*

### **Departmental Achievements**

#### **Participation in International/National Conferences/Seminars/Workshops and FDPs**

- Dr. Anup Ghosh presented in the international conference on “Sustainable Development goal 1: No poverty” as keynote speaker held at East Delta University, Chattogram, Bangladesh on June 3, 2024.
- Dr. Anup Ghosh presented, “Leveraging AI for precision Agriculture: Enhancing seed selection and crop yields” in an international seminar on Sustainable Growth and Innovation: Empowering Agripreneurship in the Seed Sector Organised by Indian Institute of Entrepreneurship (IIE), Guwahati on July 26, 2024.
- Dr. Debasis Ghosh attended a webinar on Marketing Analytics for Business Decision Making, organized by McGraw Hill India on September 17, 2024.

- Dr. Debasis Ghosh attended the workshop at NITTTTR, Kolkata organized by AICTE ON Degree Norms on September 9, 2024.
- Dr. Debasis Ghosh attended a seminar organized by AICTE at National Institute of Technical Teachers' Training and Research, Kolkata on September 9, 2024.
- Dr. Debasis Ghosh presented a paper at the International Conference 2024 on Socio – Economic Transformation & Its Impact on Business, Organized by School of Management Studies, JIS, University.
- Dr. Debasis Ghosh presented a Paper on Harnessing AI in Marketing, submitted for IEEE International Conference on Computer, Electrical & Communication Engineering, February 2&3, 2024, organized by Techno India University, WB.
- Dr. Madhu Bala attended a Road Safety using AI:- safety index formulation of roads by Integrated Road and Road Traffic Violation Control System, WorldS4 2024 London, United Kingdom. - 9th civil engineering conference in the Asian Region (CECAR 9) of Asian Civil Engineering Coordinating Council, September, 2022, Goa. National conference 1. Participated in seminar on patents.
- Dr. Debabrata Bhattacharjee attended a seminar on "Rejuvenating Culture of Innovation and Entrepreneurship in Education Institutions" organized by CII in association with IIM Calcutta Innovation Park on August 3, 2024. Submitted inputs to the organizer on the subject.
- Mr. Abhinandan Bose presented a paper styled as "Addressing Zero Hunger: A Secondary Data Analysis" in the International conference on "Sustainable Development goal 1: No poverty" held at East Delta University, Chattogram, Bangladesh on June 3, 2024.

## **Publications (Books / Articles / Papers / Journals)**

- Ghosh, Debasis. "From Awareness to Action: The Positive Impact of Healthcare Advertising", Volume 12, Issue 12, December 2024, Date of Publication: 2024 UGC Approved Journal No: 49023 (18) : ISSN : 2320 - 2882 ( SCOPUS INDEXED )
- Ghosh, Debasis. "The Impact Of Healthcare Products' Advertisements On Consumers Buying Behavior – A Study With Reference To Kolkata District , Paper submitted at Issues & Research in Advertising" ,( ABDC and Scopus Indexed Journal) , Routledge Taylor & Francis Group , Submission Id: 242789675 , July, 2024
- Ghosh, Debasis. "Harnessing AI for Global Marketing Practices: An Integrated Secondary Review of Scholarly Works", International Journal of Trend in Scientific Research and Development (IJTSRD) , Volume 8 Issue 1, January-February 2024, Available Online: www.ijtsrd.com e-ISSN: 2456 – 6470
- Ghosh, Debasis. "Evolution of the Concept of Social Security in India -Challenges in Impletation and Way Forward", Journal of Research Administration, (SCOPUS INDEXED) , ISSN:1539-1590 | E-ISSN:2573-7104 , Vol. 5 No. 2 (2023) , SRA Publication.
- Roy, Madhubala., A. Roy, "2024 Road Safety Using AI:- Safety Index Formulation of Roads by Integrated Road and Road Traffic Violation Control System, Intelligent Sustainable Systems", Selected Papers of WorldS4 2024, Volume 3 (Accepted). Springer Nature, Singapore, 2024.
- Roy, Abhisekh., M, Roy,. "2024 Blockchain Models for Business: Addressing Challenges of Land Ownership, Transfer, Blockchain Models, NFT and Metaverse Select Proceedings of CECAR 9' in 'Sustainable Design and Eco Technologies for Infrastructure", Springer Singapore, 2024.
- Bhattacharjee, Debabrata., Published a book titled "DEBAN OUT OF BOX" in June'24.
- Pinky, Banerjee, S. 2024. Corporate social responsibility, drivers, challenges, and strategic approaches in industry: a study in the power sector in India. UrbanIndia. ISSN-0970-9045.

## Departmental Events

- 3 days Student exchange programme was organised with one of the lead university of Bangladesh. A team of 5 students of MBA program attended this exchange program at Bangladesh. The students attended direct discussion with the other university students in their classroom environment and also met the faculty members to gain share knowledges and teaching pedagogy too. Prof. (Dr.) Anup Ghosh led the team of students at Bagladesh during the program.
- Dr. Debabrata Bhattacharjee being a Yoga Master certified by Ministry of Ayush, conducted Yoga on 21st June'24 with students and faculty at TIU campus.

## List and details of Achievement (Academic and Non-Academic) of the students, faculty/staff members

- Dr. Anup Ghosh -
  - a. International Conference organised
  - b. Key note speaker
  - c. International student exchange programme organised
  - d. Industrial visit organised
  - e. Patent published
- Dr. Debasis Ghosh
  - a. One scholar got PhD degree and other 4 Scholars are registered under PhD program
  - b. Several papers were published in different International Journals under SCOPUS and ADBC
  - c. Represented Techno India University, WB at different academic platforms outside our University presenting research papers and academic topics related to management
- Dr. Madhu Bala Roy
  - a. Participated in RhtRP- InnoVest 2024: Innovators-Investors Meet at Kolkata, IIT Kharagpur Reserach Park.
  - b. Organised different Institutional Innovation Council events
  - c. Stewarded Industry visits -Workshops -Special sessions.
  - d. Mentoring students on Innovation contests guidance to students, communications.
- Prof. (Dr.) Debabrata Bhattacharjee
  - a. Acted on a commercial show of a Bengali play at Madhusudan Mancha on 27.01.2024
- Dr. Sujata Banerjee
  - a. Acting as a Reviewer for Springer Nature Publishing Houses.
  - b. Acted as a Reviewer for the European Academy of Management Conference (2024) held in Bath, UK

**Industrial Visit No. : 1**

**Name of organization: Coca Cola**

**Date: 16th March, 2024**

**Faculty Representatives: Dr Maumita Sengupta, Prof Abhinandan Bose, Prof Ekta Chandek.**



On 16th March 2024, our BBA final year students had the opportunity of an industrial visit to Diamond Beverages Pvt Ltd, the company authorised Coca Cola bottling plant in Kolkata. It was an extremely interesting and informative venture, which the students not just enjoyed immensely but got to learn a lot from. Factory procedures, manufacturing guidelines, raw materials, supply chain complexities, marketing strategies were explained in detail to the students. The students were inquisitive and had a lot of queries, which were answered adequately. They got to witness the actual bottling process and were so fascinated by it that time seemed to fly away for them in a blink. The plant is also taking care of environmental sustainability and that fact was vital for our students. The visit came to an end with the team offering all of us a cool drink after a walk through of the entire premises, which were very neat and clean under strict hygiene guidelines. Such educational inputs make our students capable of applying theoretical learning in real life case studies.

## **Industrial Visit No: 2**

**Name of organization: Special Economic Zone, Falta**

**Date: 2nd March' 2024**

**Faculty Representatives: Dr Madhu Bala Roy, Dr Anup Ghosh and Prof Abhinandan Bose**





Students of BBA and few faculty members (Dr.MadhuBala Roy, Dr.Anup Kumar Ghosh, Professor Abhinandan Bose) visited Falta SEZ on 2nd March, 2024 for a real time learning experience for students. First there was a session by Shri DeenBandhu Singh, Development Commissioner of FaltaSez as well as other 17 SEZs. He enthusiastically spoke about how Falta SEZ was conceptualized by the government of India, how export and imports happen at Falta SEZ, what are the permission and licence requirements, rents and penalties and many interesting facts about Falta. After the session students asked a few questions and he answered those in detail. After the session students were taken for industrial set up visit. They visited Delta plus a France headquartered Indian company manufacturing industrial shoes exporting to 131 countries. Students were shown all the production process right from raw materials to the finished goods. They were all getting glued to the production process and we had to drag them quickly from the production process to go to another company NIPHA Enterprises LLP, they are into agricultural equipment manufacturing. Here also students saw how industrial equipments are manufactured at very high temperatures. Students were all very enthusiastic and eager for more such visit. Then it was time for our return and we left even more curious about the whole process of export and import and great memories of Falta SEZ.

### **Industrial Visit No: 3**

**Name of organization: Keventer's**

**Date: 9th March' 2024**

**Faculty Representatives: Dr.Shibnath Banerjee, Prof Abhinandan Bose, Prof Shirupa Kumari**





#### **Industry Visit No. 4**

**Industrial visit was organised by:** Dr. Madhu Bala Roy; Dr. Debabrata Bhattacharjee

**Name of organization:** Adani Wilmar Limited located at Haldia, West Bengal

**Date:** September, 2024.



#### **Industry Visit No.: 5**

**Industrial visit was organised by:** Dr. Anup Ghosh, Dr. Maumita Sengupta.

**Name of organization:** HR Solar Solutions

**Date:** 12th September, 2024



#### **Events organised by the Management Department**

- 1. Yoga day conducted on 21<sup>st</sup> June 2024**

Conducted by Prof. (Dr.) Debabrata  
Bhattacharjee

Prof. (Dr.) Debabrata Bhattacharjee is a



## 2. Bridge course was conducted for new admission course of BBA



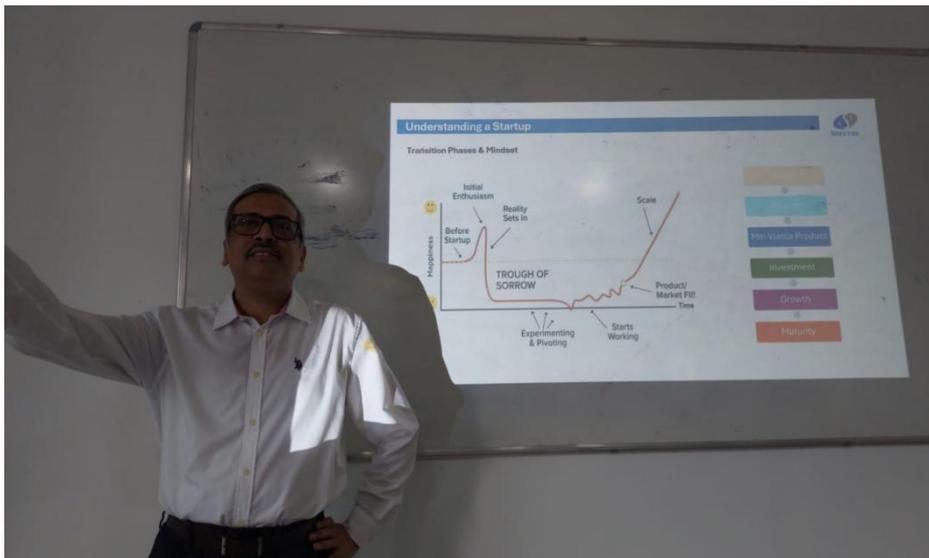
To provide acquaintance of business specific domain knowledge, a bridge course was conducted in the month of August 2024. The basic concept behind this event was to make them aware of business scenario and business terminology so that the students can get some basic ideas about their courses. Different experts delivered their lectures and presented some case studies to make the scenario understandable. A poster competition was also conducted to comprehend the level of students' understanding of the learning and showcase some innovations through this activity. The best four performers were recognised through certificates and prizes.

## 3. Induction program for BBA



Induction program was conducted on 23rd August 2024 to welcome the BBA students and make them aware about the concerned subjects. Welcome speech was addressed by our Respected VC Prof. (Dr.) Samiran Chattopadhyay, Director Madam Prof. (Dr.) Rina Paladhi, our HOD Prof. (Dr.) Gagan Pareekh and all the Faculty member of Management department, exam controller Prof.(Dr.) Bhaswati Mitra and exam cell of Techno India University. They were also made aware of the pattern to be followed for the courses and also assured the safety regarding the anti-ragging committee. The students were motivated to attend the classes and follow all the instruction given by the concerned faculty members.

#### 4. Angel Investment, VC funding opportunity for early-stage entrepreneurs



Angel Investment, VC funding opportunity for early-stage entrepreneurs was organised by the School of management, Techno India University, West Bengal conducted on 21st August 2024. The theme of this event was IPR/ Innovation/ Entrepreneurship /Start-up and the purpose of this session was to acquaint BBA students with the funding opportunities that are possible for their innovative ideas. The speaker of the session was Anirban Basu, Co-founder of Spectre who is also a start-up coach. With his expertise of 25 years in financing he showed how one can get funding for their ideas if it has value. He showcased many cases where the start-up grew into a multimillion dollar company by great ideas and the funding support they got for their ideas. He also delved into various aspects of early stage financing and how investors invest and take an exit strategy. The benefit of this event was to learn about the actual process of getting funds and who are the ones who actually get it and why they get it. This event aimed at how to be realistic about the market size and opportunity, the target market and its potential growth.

## *SCHOOL OF PHARMACY*

### Departmental Achievements

#### Participation in International/National Conferences/Seminars/Workshops and FDPs

- (a) Dr. Debabrata Devbhuti, Dr. Dhruvo Jyoti Sen\*, Soumya Chakraborty, Soumya Roy, Samiksha Jana and Srinjoy Banerjee; Comparative sixer shot study between antegrade and retrograde peristalsis umpiring by action potential (b) Soumya Chakraborty and Prof Dr Dhruvo Jyoti Sen; Acoustics decibel of divine world breaks the

- Slumber of evil spirit: 76th Indian Chemical Engineering Congress IChE - CHEMCON 2023, An International Conference, Energy Transition: Challenges and Opportunities: 27-30 December 2023.
- Kushal Nandi, Dr.Himangshu Sekhar Maji, Dr. Dhruvo Jyoti Sen\*, Dr. Dhananjoy Saha; Bioisosterism: a new way of drug development: National Seminar on Advancing Healthcare Through Pharmaceutical and Biomedical Applications at Jadavpur University, Kolkata on 19 January 2024.
- (a) Dibyendu Dutta: Role of 3D printing in comprehensive drug development in contemporary pharmaceutical industry (b) Dibyendu Dutta: Emerging artificial intelligence for optimized clinical data management in modern healthcare (c) Jaydeep Roy: Embracing artificial intelligence for optimized clinical data management in modern healthcare; Platinum Jubilee Pharma 2023-2024 scientific symposium Scripting a legacy of scientific excellence: navigating the frontiers of pharmacy; held at Institute of Pharmacy (Govt. of West Bengal) Jalpaiguri, WB, 24-25 January 2024.

#### **Webinar:**

- Participated in SPSR Webinar on Solid shall be alternate source to replace harmful organic solvent in future (Mixed solvency concept) organized by Society of Pharmaceutical Science and Research (SPSR) on 6 August 2023.
- Participated in one day e-Seminar organized by Pharmaceutical Education Society on Approach towards teaching method focused on a positive attitude towards learning and growth, designed specifically for college and university students on 12 August 2023.
- Participated in one day Global Edu-Conclave Conference organized by International Institute of Organized Research I2OR and Green ThinkerZ in association with Centre for Smart Modern Costruction, Western Sydney University, Australia on 5 September 2023.
- Participated in one day National Seminar for the theme Current Scenario of Pharmaceutical Technology: Academia to Industry in physical mode at Techno India University, WB on 20th September 2023 organised by School of Pharmacy.
- Participated in one day Webinar on World Pharmacist Day 2023 on 25 September 2023 with theme Pharmacist Strengthening Healthcare System.
- Participated in one day Webinar on IPR in the era of digital transformation organized by Society of Pharmaceutical Sciences and Research (SPSR) on 8 October 2023.
- Participated in one day Webinar on Artificial Intelligence-Applications in Pharmacy Sector; Organised by Drug Control Officers(I) Welfare Association and Pallavi Memorial Trust, Hyderabad on 21 October 2023.

- Participated in one day Webinar on Cancer Drug Discovery: A Molecular Journey to Targeted Treatment; Organised by the Society of Pharmaceutical Sciences and Research [SPSR] in collaboration with the University Institute of Pharma Sciences, Chandigarh University, Mohali, Punjab on 19 November 2023.
- Participated in 35th SPSR Webinar on Revolutionizing Healthcare for a Developed India: Pradhan Mantri Jan Aushadhi Pariyojana and Viksit Bharat Mission organized by the Society of Pharmaceutical Sciences and Research (SPSR) on 7 January 2024.
- Participated as a Delegate in one day Overseas Education Fair on 25 February 2024 organised by SC Overseas Consultancy Services Pvt Ltd (Best Study Abroad Consultancy) Kolkata at Lalit Great Eastern Hotel, Kolkata.
- Participated in 56th SPSR Webinar on Innovative multifunctional dressings for accelerated infected wound healing nuance and achievements from IPK labs organized by the Society of Pharmaceutical Sciences and Research (SPSR) on 14 July 2024.

#### **FDP:**

- Participated in one day Workshop on NEP 2020-Plan for Implementation by National Institute of Technical Teacher's Training and Research, Kolkata on 1 August 2023.
- Participated in six days Online Faculty Development Programme of Dattakala Shikshan Sanstha's Institute of Pharmaceutical Science and Research, Pune from 4-9 September 2023.
- Participated in one week Faculty Development Programme on Research and patenting-a recent update organized by Netaji Subhash Chandra Bose Institute of Pharmacy [NSCBIP], Chakdah, West Bengal at 17-23 August 2024.

#### **Patent:**

Title of invention: [Funded by Research Grant from Royal Society of Chemistry, UK for £2000]

Novel approach of stereospecific substituted 1-[(Z)-1,2-diphenylethenyl]-4-ethylpiperazine moiety by green chemistry synthesis for growth inhibition of falciparum species and pharmaceutical composition of the molecule

Name of Inventors:

1. Viraj Jatakiya, Junagadh, Gujarat, India. [MPharm. in 2013 under Dr D J Sen]
2. Dr. Dhruvo Jyoti Sen [Professor] Department of Pharmaceutical Chemistry, School of Pharmacy, Techno India University, Salt Lake, Sector-V, EM-4/1, Kolkata-700091, West Bengal, India.
3. Dr. Dhananjay Saha, [Deputy Director] Technical Education, Directorate of Technical Education, Bikash Bhavan, Salt Lake City, Kolkata-700091, West Bengal, India.
4. Dr. Sampa Dhabal, [Forensic Scientist] Kolkata, West Bengal, India.
5. Nadim Chhipa, [Assistant Professor] Department of Pharmaceutical Chemistry, Parul University, Post Limda, Waghodia, Gujarat-391760, India.

Patent number: 532479 [Granted on 10th April 2024]

## Publications (Books / Articles / Papers / Journals)

- Dr. Dhrubo Jyoti Sen; Pharmacovigilance as a protective shield to prevent adverse effects of pharmaceutical products: World Journal of Pharmaceutical and Life Sciences: 9(7), 171-176, 2023. (ISSN: 2454–2229, Impact Factor: 7.409, Index Copernicus Value: 76.2) [Scopus Journal, UGC-CARE approved Journal, Web of Science Journal] [https://www.wjpls.org/home/article\\_abstract/3017](https://www.wjpls.org/home/article_abstract/3017)
- Dr. Dhrubo Jyoti Sen; Sarcopenia as muscle atrophy by aging: European Journal of Pharmaceutical and Medical Research: 10(7), 577-584, 2023. (ISSN: 2394–3211, Impact Factor: 7.065, Index Copernicus Value: 79.57) [https://www.ejpmr.com/home/abstract\\_id/10914](https://www.ejpmr.com/home/abstract_id/10914)
- Dr. Dhrubo Jyoti Sen; Bullous pemphigoid is the most common autoimmune subepidermal blistering disease in geriatric persons: European Journal of Biomedical and Pharmaceutical Sciences: 10(7), 291-294, 2023. (ISSN: 2349-8870, Impact Factor: 7.482; Index Copernicus Value: 77.3) [https://www.ejbps.com/ejbps/abstract\\_id/9788](https://www.ejbps.com/ejbps/abstract_id/9788)
- Anuru Sen and Dr. Dhrubo Jyoti Sen; Ribbon has no rib to hold the backbone but has power to hold the tower of strength by command: World Journal of Pharmaceutical and Life Sciences: 9(7), 177-181, 2023. (ISSN: 2454–2229, Impact Factor: 7.409, Index Copernicus Value: 76.2) [Scopus Journal, UGC-CARE approved Journal, Web of Science Journal] [https://www.wjpls.org/home/article\\_abstract/3018](https://www.wjpls.org/home/article_abstract/3018)
- Surjya Toran Maiti, Dibya Dey, Sakasi Halder, Souhrit Saha, Soumya Chakraborty and Prof Dr Dhrubo Jyoti Sen; Surgical procedure to living human by nonliving computer assisted brain: World Journal of Advance Healthcare Research: 7(7), 191-195, 2023. (ISSN: 2457-0400, Impact Factor: 6.711, Index Copernicus Value: 77.3) [https://wjahr.com/home/article\\_abstract/1483](https://wjahr.com/home/article_abstract/1483)
- Dr. Dhrubo Jyoti Sen; Nastic movements due to turgor pressure in plant: World Journal of Pharmaceutical and Medical Research: 9(7), 300-305, 2023. (ISSN: 2455–3301, Impact Factor: 6.842, Index Copernicus Value: 78.6) [https://www.wjpmr.com/home/article\\_abstract/4964](https://www.wjpmr.com/home/article_abstract/4964)
- Prof. Dr. Dhrubo Jyoti Sen; Depilation or epilation both are removal of unwanted hair from cutaneous layer: World Journal of Advance Healthcare Research: 7(8), 141-148, 2023. (ISSN: 2457-0400, Impact Factor: 6.711, Index Copernicus Value: 77.3) [https://wjahr.com/home/article\\_abstract/1505](https://wjahr.com/home/article_abstract/1505)
- Dr. Tirtha Ghosh, Dr. Debabrata Devbhuti, Dr. Dhrubo Jyoti Sen & Pruthviraj K Chaudhary; Focus of artificial intelligence on drone as unmanned aerial vehicle for mankind: World Journal of Pharmaceutical and Life Sciences: 9(8), 155-163, 2023. (ISSN: 2454–2229, Impact Factor: 7.409, Index Copernicus Value: 76.2) [Scopus Journal, UGC-CARE approved Journal, Web of Science Journal] [BEST PAPER AWARD] [https://www.wjpls.org/home/article\\_abstract/3045](https://www.wjpls.org/home/article_abstract/3045)
- Dr. Debabrata Devbhuti, Dr. Dhrubo Jyoti Sen and Anuru Sen; Biochemistry and pathophysiology of blackhead and whitehead on cutaneous system: International Educational Scientific Research Journal: 8(9), 66-73, 2023. [ISSN: 2455-295X, Impact Factor: 5.391] (UGC Journal) [BEST PAPER AWARD] [https://www.iesrj.com/archivesub?detail=BIOCHEMISTRY\\_AND\\_PATHOPHYSIOLOGY\\_OF\\_BLACKHEAD\\_AND\\_WHITEHEAD\\_ON\\_CUTANEOUS\\_SYSTEM](https://www.iesrj.com/archivesub?detail=BIOCHEMISTRY_AND_PATHOPHYSIOLOGY_OF_BLACKHEAD_AND_WHITEHEAD_ON_CUTANEOUS_SYSTEM)
- Dr Dhananjoy Saha, Dr Dhrubo Jyoti Sen, Soumya Roy and Soumya Chakraborty; Atezolizumab is a humanized IGG1 monoclonal antibody that targets PD-L1: International Educational Scientific Research Journal: 9(9), 24-27, 2023. [E-ISSN : 2455-295X, Impact Factor: 5.391, Journal DOI : 10.21276/2455-295X] [UGC Approved Journal] [BEST PAPER AWARD] [https://www.iesrj.com/past\\_issue?month=SEP&year=2023#](https://www.iesrj.com/past_issue?month=SEP&year=2023#)

- Bulu Mohanta, Dhrubo Jyoti Sen, Beduin Mahanti, Amit Kumar Nayak; In vivo acute toxicity, antidiabetic and antiulcer activities of polysaccharide from *Linum usitatissimum* L. seeds: *Food Bioscience*: 56, 103195, 2023. [ISSN 2212-4292; Impact Factor: 5.2] (Elsevier Journal) <https://www.sciencedirect.com/science/article/abs/pii/S2212429223008465>
- Arpan Adak, Sakasi Halder, Soumya Chakraborty, Dibya Dey, Surjya Toran Maiti and Dr. Dhrubo Jyoti Sen; Aptamers: a promising new class of biosensing oligonucleotide therapeutic agent: *World Journal of Pharmaceutical and Medical Research*: 9(10), 242-251, 2023. (ISSN: 2455-3301, Impact Factor: 6.842, Index Copernicus Value: 78.6) [BEST PAPER AWARD] [https://www.wjpmr.com/home/article\\_abstract/5102](https://www.wjpmr.com/home/article_abstract/5102)
- Dr. Dhrubo Jyoti Sen & Soumya Chakraborty; Hallucination with euphoria through rice beer: a holistic fermented unit: *World Journal of Pharmaceutical and Life Sciences*: 9(10), 91-95, 2023. (ISSN: 2454-2229, Impact Factor: 7.409, Index Copernicus Value: 76.2) [Scopus Journal, UGC-CARE approved Journal, Web of Science Journal] [BEST PAPER AWARD] [https://www.wjpls.org/home/article\\_abstract/3081](https://www.wjpls.org/home/article_abstract/3081)
- Soumyajit Mondal, Soumya Chakraborty, Vedansh Upadhayay, Keshav Patwari and Dr Dhrubo Jyoti Sen; Welcome to pharma-world: pharsight of pharmacy: a millennium oath: *World Journal of Advance Healthcare Research*: 7(10), 118-128, 2023. (ISSN: 2457-0400, Impact Factor: 6.711, Index Copernicus Value: 77.3) [BEST PAPER AWARD] [https://wjahr.com/home/article\\_abstract/1541](https://wjahr.com/home/article_abstract/1541)
- Soumya Chakraborty and Dr Dhrubo Jyoti Sen; Geomorphology of erosion is an ethnic sculpture that has crowd pulling capacity in Santiniketan Khoai haat encapsulates the soul of the region: *World Journal of Pharmaceutical Research*: 12(19), 1548-1554, 2023. (ISSN: 2277-7105, Impact Factor: 8.453, Index Copernicus Value: 90.8) [BEST PAPER AWARD] [https://wjpr.net/abstract\\_show/23583](https://wjpr.net/abstract_show/23583)
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- Dr Dhrubo Jyoti Sen; Biometrics is the measurement and analysis of unique physical or behavioral characteristics by verifying personal identity: *European Journal of Biomedical and Pharmaceutical Sciences*: 10(11), 324-336, 2023. (ISSN: 2349-8870, Impact Factor: 7.482; Index Copernicus Value: 77.3) [https://www.ejbps.com/ejbps/abstract\\_id/10040](https://www.ejbps.com/ejbps/abstract_id/10040)
- Arpita Raj, Sattama Sarkar, Krishtik Dutta, Arpita Biswas and Dr. Dhrubo Jyoti Sen; Forced degradation of metronidazole in bulk and different market formulation by UV spectroscopy: *Bulletin for Technology and History Journal*: 23(11), 252-264, 2023. (ISSN: 0391-6715, Impact Factor: 0.82) [Scopus & UGC Approved Journal] <https://drive.google.com/file/d/1W1lqZJoJQpuJqwQBWgYUjrpGV0dzUkW0/view>
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- R. Badmanaban, Maria S. Padathil, Hanna Parveen, Dona Merin Joy, Shahana Majeed, Joycymol. S and Dhrubo Jyoti Sen; Isolation of embelin from *Emblelia ribes* berries for the development of topical anti-inflammatory preparation: *Journal of Innovations in Applied Pharmaceutical Science*: 8[3-S], 8-18, 2023. (ISSN: 2455-5177, Impact Factor: 5.832) [Scopus & Elsevier Approved Journal] <https://saap.org.in/journals/index.php/jiaps/article/view/507/502>

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- Dr. Dhrubo Jyoti Sen; Electrolyte replenisher is the target of oral rehydration therapy: World Journal of Advance Healthcare Research: 7(12), 172-175, 2023. (ISSN: 2457-0400, Impact Factor: 6.711, Index Copernicus Value: 77.3) [https://wjahr.com/home/article\\_abstract/1607](https://wjahr.com/home/article_abstract/1607)
- Keshav Patwari and Dr. Dhrubo Jyoti Sen; Bedaquiline as potent pulmonary multidrug resistant tuberculosis bacteria: European Journal of Pharmaceutical and Medical Research: 10(12), 712-717, 2023. (ISSN: 2394–3211, Impact Factor: 7.065, Index Copernicus Value: 79.57) [https://www.ejpmr.com/home/abstract\\_id/11532](https://www.ejpmr.com/home/abstract_id/11532)
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- Arghya Pramanik, Ashrubindu Bhunia and Dr Beduin Mahanti; Pharmaceutical industry set up by using thermoregulatory parameters; *World Journal of Pharmaceutical and Life Sciences*; 10(5), 201-206, 2024 [Impact factor: 6.129, ISSN: 2454–2229]
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- Nabanita Mal\*, Ashrubindu Bhunia and Dr. Beduin Mahanti; A comprehensive overview of controlled drug delivery system; *World Journal of Pharmaceutical and Medical Research*; 10(6), 316-327, 2024. [Impact factor: 5.922, ISSN: 2455-3301]
- Abhishek Chowdhury, Asutosh Banerjee and Dr Beduin Mahanti; Phytochemical and pharmacological review on *Andrographis paniculata*; *World Journal of Pharmaceutical and Life Sciences*; (10)6, 344-358, 2024. [Impact factor: 7.409, ISSN: 2454–2229]

### Book:

- Arpita Biswas, Dr. Dhananjay Saha and Dr. Dhrubo Jyoti Sen; *Paradigm of chemical science proves over stalwartness*: Lambert Academic Publishing GmbH & Co. KG, Germany: 1-145, 2023. (ISBN: 978-620-6-18281-8)
- 29. Dr. Dhrubo Jyoti Sen, Dr. Dhananjay Saha and Arpita Biswas; *History of chemistry is full of mystery*: Lambert Academic Publishing GmbH & Co. KG, Germany: 1-173, 2023. (ISBN: 978-620-7-44956-9)

# *Department of Computer Applications*

## **Departmental Achievements**

### **Participation in International/National Conferences/Seminars/Workshops and FDPs**

- Prof. Gopal Purkait has attended AWS Academy Cloud Foundations FDP organized by Eduskill in collaboration with AICTE from 30th July to 7th August, 2023.
- Prof. Rituparna Mondal was the member of the organizing committee of World's Environment Day Celebration event on 5<sup>th</sup> June, 2024 organized by IIC, Techno India University, West Bengal.
- Dr. Subha Koley has participated in FDP from 5th March to 9th March 2024 on "Recent Advancement & Future Trends in AI & ML (RAFTAML) organized by CSE Department, Abacus Institute of Technology.
- Dr. Subha Koley has participated in the International Conference on Security, Surveillance and Artificial Intelligence (ICSSAI) held on 1st and 2nd December 2023 at Techno India University, West Bengal.
- Dr. Subha Koley has Participated in the IEEE International Conference on Computer, Electrical and Communication Engineering ICCECE 2024 at Techno India University (Feb 1-3, 2023).
- Prof. Dipankar Chatterjee has successfully completed one-week Training and Faculty Development Program (TFDP) on "Network Advancements, Issues and Practices for Sustainable Green Energy Distribution System" organized by Department of Electrical Engineering, GKCIET, Malda held between 22nd to 26th July, 2024.
- A Certificate of appreciation is presented to Prof. Dipankar Chatterjee for successfully completing the 5-Day Faculty Development Program on "Exploring the Future of Artificial Intelligence and Machine Learning" organized by Department of Computer Science and Engineering (Artificial Intelligence and Machine Learning), IEM Newtown in association with HRDC, IEM-UEM Group held from 24th June to 28th June, 2024 with 86% marks.
- Prof. Dipankar Chatterjee has served as an Eduskill Committee member for CA department for Eduskill 2024.
- Prof. Bidyapati Sahoo has successfully completed one-week Training and Faculty Development Program (TFDP) on "Network Advancements, Issues and Practices for Sustainable Green Energy Distribution System" organized by Department of Electrical Engineering, GKCIET, Malda held between 22nd to 26th July, 2024.
- Prof. Bidyapati Sahoo has organized in International Conference on Security, Surveillance & Artificial Intelligence (ICSSAI-2023) on December 1st and 2nd 2023 and IEEE International Conference on Computer, Electronics and Communications "ICCECE" on February 1st-3rd 2024 at University Campus.
- Prof. Ayan Bandyopadhyay (FDP) Recent Advancement & Future Trends In AI & ML (RAFTAML) Organized by the Computer Science & Engineering Department, Abacus Institute Engineering & Management from 5th March 2024 to 9th March 2024.

- Prof. Ayan Bandyopadhyay (FDP) Webinar on “Application of Convolutional Neural Networks” organized by the Department of CSE (Artificial Intelligence and Machine Learning) of Asansol Engineering College in association with NIT Rourkela.
- Prof. Sriyanjana Adhikary has organised one day seminar on Cyber Security on 24th November 2023 for Department of Computer applications.
- Prof. Sriyanjana Adhikary has participated in International Conference on Security, Surveillance & Artificial Intelligence (ICSSAI-2023) on December 1st and 2nd 2023 and IEEE International Conference on Computer, Electronics and Communications “ICCECE” on February 1st-3rd 2024 at University Campus.
- Prof. Sriyanjana Adhikary has successfully completed FDP, organized by Abacus Institute of /technology from 5th March to 9th March 2024, FDP organised by Dept. of CSE (AI & ML), UEM Kolkata in association with HRDC, IEM-UEM group Kolkata, West Bengal, India from 24th June 2024 to 28th June 2024.
- Prof. Sriyanjana Adhikary has participated in an Webinar on Application of CNN by Dept. of CSE(AI-ML) of Asansol Engineering College in association with NIT-Rourkella on 23rd May 2024
- Prof. Srabasti Mukherjee has organised one day seminar on Cyber Security on 24th November 2023 for Department of Computer applications.
- Prof. Srabasti Mukherjee has participated in International Conference on Security, Surveillance & Artificial Intelligence (ICSSAI-2023) on December 1st and 2nd 2023 and IEEE International Conference on Computer, Electronics and Communications “ICCECE” on February 1st-3rd 2024 at University Campus.
- Prof. Srabasti Mukherjee has successfully completed FDP, organized by Abacus Institute of /technology from 5th March to 9th March 2024, FDP organized by Dept. of CSE (AI & ML), UEM Kolkata in association with HRDC, IEM-UEM group Kolkata, West Bengal, India from 24th June 2024 to 28th June 2024.
- Prof. Srabasti Mukherjee has participated in an Webinar on Application of CNN by Dept. of CSE(AI-ML) of Asansol Engineering College in association with NIT-Rourkella on 23rd May 2024
- Prof. Sudakshina Mandal attended NEP- 2020 workshop on 1st Aug, 23
- Prof. Sudakshina Mandal attended Recent advancements and future Trends in AI and Machine Learning (RAFTAML-2024) on 5-9 March 24.
- Prof. Sudakshina Mandal Participated in the International Conference on “ICSSAI 2023” on 1st – 2nd January 2023 at University Campus.
- Prof. Sohini Bhattacharya Chakraborty completed a webinar on Convergence of AI and IoT in Accelerating Smart Grid Automation organized by computer society of India on 26. 8.23.
- Prof. Sohini Bhattacharya Chakraborty completed 5 days FDP on RECENT ADVANCEMENT AND FUTURE TRENDS IN AI AND ML ORGANIZED BY Abacus Institute of Engineering and management from 5/3/24 to 9/3/24.

- Prof. Sohini Bhattacharya Chakraborty completed one week FDP organized by Ghani Khan Choudhury Institute of Engineering and Technology on Network Advancement issues and practices from 22-26th July 2024.
- Prof. Sohini Bhattacharya Chakraborty completed one week FDP on "Harnessing the potential of Green AI, Machine Learning and Hardware Security" from 22nd April, 2024 to 26th April, 2024 organized by IEM and UEM.
- Prof. Sohini Bhattacharya Chakraborty completed one week FDP on "Exploring The Future of Artificial Intelligence and Machine Learning" organized by IEM Newtown in association with HRDC, IEM-UEM Group held from 24th June to 28th June, 2024
- Prof. Sudakshina Mandal was Mentor of BLUE PRISM eduskill internship.
- Prof. Soumyadeep Das attended FDP on Recent advancements and future Trends in AI and Machine Learning (RAFTAML-2024) on 5-9 March 24.
- Prof. Soumyadeep Das was part of FDP on "Implementation of AI & ML for Real – World Applications: Challenges and Best Practices" jointly organized by Department of CSE (AI & ML), Department of CSE and Department of CSE (IoT, CS, BT) of UEM Kolkata in association with HRDC, IEM-UEM Group held from 15th April to 19th April, 2024
- Prof. Soumyadeep Das participated in the webinar on "Application of Convolution Neural Networks" organized by the Department of CSE (Artificial Intelligence and Machine Learning) of Asansol Engineering College in association with NIT Rourkela. on 23rd May, 2024
- Prof. Gopal Purkait participated in the International Conference "ICCECE 2024" from 1st to 3rd February.
- Prof. Gopal Purkait completed 5 days FDP on "RECENT ADVANCEMENT AND FUTURE TRENDS IN AI AND ML" organized by Abacus Institute of Engineering and management from 5th March 2024 to 9th March 2024.
- Prof. Gopal Purkait was part of FDP on "Harnessing the potential of Green AI, Machine Learning and Hardware Security" from 22nd April, 2024 to 26th April, 2024 organized by UEM.

### **Publications (Books / Articles / Papers / Journals)**

- De Satyajit, Roy Pratik and Chowdhury Anil Bikash, Multi-objective Fuzzy Reliability Redundancy Allocation for xj- out- of- mj system Using Fuzzy Rank-Based Multi-objective PSO, Springer book Chapter with book title: Applied Computing for Software and Smart Systems.
- Dr. Sudakshina Mandal and Danish Ali Khan, "Enhanced-Longest Common Subsequence based novel steganography approach for cloud storage" *Multimed Tools Appl* 82, 7779–7801 (2023). <https://doi.org/10.1007/s11042-022-13615-3>. [SCIE JOURNAL, Published on 10th Aug, 23]
- Dr. Sudakshina Mandal, Danish Ali Khan, and Rakesh D. Raut, "GBDT-based Approach for DDoS Attack Prevention in SDN-based Cloud Virtual Machine" -"2024 in *Cloud of Things Foundations, Applications and Challenges* (1st Edition, Volume-1, PP.1-382), Taylor and Francis

- Paromita Nag, Rituparna Mondal, Surjyasikha Das, Talina Chakraborty, Champa Das, Alakananda Bandyopadhyay, Pritam Roy Choudhury, Shubham Maji and Siddhartha Chatterjee “Current Scenario and Future Direction of 6G Communication Technology”, International Journal of Research and Analysis in Science and Engineering (IJRASE), Peer Reviewed UGC Sponsored, ISSN: 2582-8118, Vol. 4, Issue. 1, pp. 48-58 on 8th March, 2024.
- Sanchita Ghosh, Rituparna Mondal, Aparijita Das, Anwesa Naskar, Shirsha Mullick and Siddhartha Chatterjee, “A Study and Reconsideration on Text Steganography”, In International Journal of Research and Analysis in Science and Engineering (IJRASE), Peer Reviewed UGC Sponsored, ISSN: 2582-8118, Vol. 3, Issue. 6, pp. 51-63 on 27th December, 2023.
- Sudipta Hazra, Surjyasikha Das, Rituparna Mondal, Prerona Sanyal, Anwesa Naskar, Pratiksha Hazra, Kuntal Bose, Shirsha Mullick, Swarnakshi Ghosh and Siddhartha Chatterjee “Pervasive Nature of AI in the HealthCare Industry: High-Performance Medicine”, In International Journal of Research and Analysis in Science and Engineering (IJRASE), Peer Reviewed UGC Sponsored, ISSN: 2582-8118, Vol. 4, Issue. 1, pp. 1-16 on 10th January, 2024.
- Paromita Nag, Sneha Mondal, Aditi Sinha, Shirsha Mullick, Rituparna Mondal and Siddhartha Chatterjee, “A Few Words about ChatGPT”, In International Journal of Research and Analysis in Science and Engineering (IJRASE), Peer Reviewed UGC Sponsored, ISSN: 2582-8118, Vol. 3, Issue. 6, pp. 12-24 on 14th December, 2023.
- Dr. Kishalay Bairagi, Uma Bhattacharya and Sulata Mitra, “Study of Multi-camera Sensor Performance in Post Disaster Scenario,” in Proc. Indicon 2024, IEEE, 2024, To appear.

### **List and details of Achievement (Academic and Non-Academic) of the students, Faculty/staff members**

- Prof. Sohini Bhattacharya Chakraborty participated as a coordinator and member of ICSSAI held on 1st and 2nd December 23 organized by TIU,WB.
- Prof. Sohini Bhattacharya Chakraborty participated as a coordinator and member on smart India Hakathon 19th and 20th December 2023.
- Prof. Gopal Purkait participated as a member of ICSSAI held on 1st and 2nd December 23 organized by TIU,WB.
- Prof. Gopal Purkait is working as a coordinator of AWS eduskill internship.
- Dr. Sriyanjana Adhikary was awarded a Doctor of Philosophy (PhD) from Jadavpur University on 24.12.2023.
- Dr. Kishalay Bairagi was awarded a Doctor of Philosophy(PhD) from IEST ,Shibpur on 19.04.2024
- Dr. Sudakshina Mandal Organised as a reviewer and participated in ICCECE 2024 ,TIU from February 1 to February 3, 2024.

# *Department of Oceanography*

## **Departmental Achievements**

### **Participation in International/National Conferences/Seminars/Workshops and FDPs**

- Faculties participated along with the M.Sc Oceanography students & research scholars in the 37th National Convention of Production Engineers, Recent trends and future direction in production Engineering and Management: Vision 2030 Organized by West Bengal State Centre The Institution of Engineers (India) Under the aegis of Production Engineering Division Board at Sir R. N. Mookherjee Hall, Kolkata, India held on 18th & 19th August, 2023.
- Dr. Sufia Zaman presented a talk at the SDGs Leadership Development Program among Youth and Developing Indo –Japan Academic & Business Collaboration, International Society of Waste Management, Air and Water (ISWMAW) Centre for Sustainable Development & Circular Economy Research Centre, held on 21st – 23rd August, 2023 at Jadavpur University, Committee Room no. 1. 1st Floor, Aurobindo Building.
- Dr. Sufia Zaman participated in a webinar on ‘Democratization of Geographical Information Systems Education Perspectives from India’ held on 25th August, 2023, Organized jointly by Centre for Geospatial Technology (CGT), SRM University, Andhra Pradesh & Andhra Pradesh Space Applications Centre (APSAC), AP.
- Dr. Sufia Zaman participated in a webinar on "Empowering Tomorrow: Geospatial Data-Driven Solutions for Sustainable Energy Access’ organized by Centre for Geospatial Technology (CGT) and Andhra Pradesh Space Applications Centre (APSAC), held on 27th November, 2023.
- Dr. Sufia Zaman participated in a webinar on "Eliminating indoor air pollution" organized by Centre for Geospatial Technology (CGT), SRM Univ., Andhra Pradesh and Andhra Pradesh Space Applications Centre (APSAC), Govt. of Andhra Pradesh held on 10th January, 2024.
- Dr. Sufia Zaman and Dr. Sana Ahmed invited as speaker to Workshop “The Blue Economy, coastal livelihoods, & climate migration across the Indian Ocean: The case of the Sundarbans”, from Singapore University of Social Sciences, held on 4th January, 2024 at Kenilworth Hotel, Kolkata, India.
- Dr. Sufia Zaman invited as a speaker & Panelist to the Colloquium on "Navigating Climate Change: The Role of Policy Planning and Attainment of Sustainable Development Goals"; Climate Change and Disaster Risk Reduction under the aegis of Y20 of G20, Organized by the women’s forum of Institute of Town Planners, India West Bengal Regional Chapter, being the knowledge partner, at Auditorium, ITPI WBRC, IB 190, Salt Lake City, Kolkata, held on 20th January, 2024.
- Faculties participated and Dr. Sufia Zaman as Keynote Speaker in Five Day Faculty Development Programme on “Understanding the Environmental Responsibilities of UNSDGs” organized by Department of Law in association with the HRDC, IEM-UEM Group held from 19th – 24th February, 2024.

- Faculties participated in the oral presentation in 23rd International Biennial Conference & AGM-2023, Zoological Society of Bangladesh on the Conference theme “Transformation of poverty through Improvement of Health and Innovative Utilization of Bio-resources” organized by Zoological Society of Bangladesh (ZSB) held on 26th April, 2024 at University of Dhaka, Bangladesh.
- Dr. Sufia Zaman participated in the VIII International Symposium 2024 on ‘Environmental Health and Biosecurity: Sciences, Engineering and Application’ online conference on the 9 & 10th of May, 2024, organized by Obuda University, Budapest, Hungary.
- Dr. Sufia Zaman participated in a webinar on Restoring Our Land: A Generation’s Call to Action, organized by Environmental Management Centre Pvt. Ltd., held on 5th June, 2024.
- Faculties participated in Webinar on “Restoring Our Land: A Generation’s Call to Action” organized by Legasis Pvt. Ltd. held on 5th June, 2024.

## **Publications (Books / Articles / Journals / Papers)**

- Ahmed, Sana; Trivedi, Subrata; Pal, Nabonita; Pramanick, Prosenjit; Zaman, Sufia and Abhijit Mitra. Study on Floral Carbon Storage potential in the megacity of Kolkata: A Roadmap towards Net-Zero Carbon Emission. *Journal of Environment and Sociobiology*, 2023, 19 (2), 113-123.
- Gobato, Ricardo; Mitra, Abhijit and Poulomi Mullick. Double Spiral Cote's Galaxies NGC 1566 and the Southern Pinwheel, and Cyclone in the South Sandwich Islands. *American Journal of Astronomy and Astrophysics*, 2023, 10 (1), 1-8. DOI: 10.11648/j.ajaa.20231001.11.
- Mitra, Abhijit; Ahmed, Sana; Gobato, Ricardo; Mitra, Shampa and Sufia Zaman. Carbon Trading: Is the concept very volatile? *Parana Journal of Science and Education*, 2023, 9 (6), (1-13). DOI: <https://sites.google.com/site/pjsciencea>.
- Gobato, Ricardo and Abhijit Mitra. Cote's Spiral in Neptune Great Dark Spot. *Physical Science & Biophysics Journal*, 2023, 7 (2), 000261.
- Bansal, Sheel et al; Abhijit Mitra. Practical Guide to Measuring Wetland Carbon Pools and Fluxes, *Wetlands*, Springer, 43:105, 2023: 1 -169. <https://doi.org/10.1007/s13157-023-01722-2>.
- Gobato, Ricardo; Lauro Figueroa Valverde; Ibtihal Kadhim Kareem Dosh; Sana Ahmed; Sufia Zaman; Marcela Rosas Nexticapa; María Magdalena Álvarez Ramírez; and Abhijit Mitra. Infrared spectrum analysis for 17-iodo-androst-16-ene-derived steroid with good potential to treat breast cancer. *Journal of Kufa for Chemical Sciences*, 2023, 3 (1), 380 - 394.
- Saha, Arpita; Yadav, Vinod Kumar; Gobato, Ricardo; Zaman, Sufia and Abhijit Mitra. Probable carbon credit – based market value of selected mangrove patches in Indian Sundarbans. *Parana Journal of Science and Education*, 2023, 9 (7), 73 - 81. <https://sites.google.com/site/pjsciencea>.

- Ghosh, Vineeta; Ghosh, Srija; Saha, Dipayan; Pramanick, Prosenjit; Zaman, Sufia and Abhijit Mitra. Decadal variation of acidification of the estuarine water in the Indian Sundarban. *Journal of Environment and Sociobiology*, 2023, 20 (2), 101-111.
- Roy, Sitangshu; Pal, Nabonita; Sinha, Mourani; Zaman, Sufia and Abhijit Mitra. Application of computer language to evaluate carbon credit from mangroves of Indian Sundarbans. *Journal of Environment and Sociobiology*, 2023, 20 (2), 173-180.
- Ahmed, Sana; Chakrabarty, Shambhu Prasad; Pramanick, Prosenjit; Zaman, Sufia; and Abhijit Mitra. Impact of Climate Change on the Endemic Medicinal Plant Species Inhabiting the World Heritage Site of Indian Sundarbans. Chapter 6, In: *Traditional Knowledge and Climate Change: An Environmental Impact on Landscape and Communities*. Published by Springer, eBook ISBN 978-981-99-8830-3, 2024, 95-110.
- Mullick, Poulomi; Ahmed, Sana; Pramanick, Prosenjit; Zaman, Sufia; Chakrabarty, Shambhu Prasad and Abhijit Mitra. Indigenous Method of Curing Pulmonary Disorders Using Mangrove Fruit by the Lodha Peoples. Chapter 8, In: *Traditional Knowledge and Climate Change: An Environmental Impact on Landscape and Communities*. Published by Springer, eBook ISBN 978-981-99-8830-3, 2024, 133-142.
- Gobato, Ricardo; Mitra, Abhijit and Sana Ahmed. The Mathematics of Extratropical Cyclones Originating in the South of the South American Continent. *Space Science Journal*, 2024, 1(1), 1-8.
- Gobato, Ricardo; Mitra, Abhijit and Sana Ahmed. Dragonhead Cyclone in the Falkland Islands has Double Cote's Spiral. *Applied Sciences Research Periodicals*, 2024, 2 (4), 11-20.
- Ghosh, Debal Kumar; Datta, Anusree; Gobato, Ricardo and Abhijit Mitra. Impact of environmental variables on selective vector-borne diseases in the state of West Bengal, India. *Parana Journal of Science and Education*, 2024, 10 (2), 22-29. <https://sites.google.com/site/pjsciencea>.
- Ghosh, Debal Kumar; Sengupta, Goutam; Ahmed, Sana and Abhijit Mitra. Meteorological determinants and their impacts on the spread of malaria and dengue. *International Journal of Management, Technology And Engineering*, 2024, XIV (VII), 1-11.
- Ahmed, Sana; Pramanick, Prosenjit; Zaman, Sufia and Abhijit Mitra. Human-Induced Soil Acidification in the Indian Sundarbans: Implications for Carbon Dynamics in Mangrove Soil. Chapter 32, In: *Forests and Climate Change: Biological Perspectives on Impact, Adaptation, and Mitigation Strategies*. Edited by H. Singh, published by Springer, eBook ISBN 978-981-97-3904-2, 2024 (In press). DOI: [https://doi.org/10.1007/978-981-97-3905-9\\_32](https://doi.org/10.1007/978-981-97-3905-9_32).
- Ahmed, Sana; Pramanick, Prosenjit; Zaman, Sufia and Abhijit Mitra. Spatial Variability in Carbon Storage Among Dominant Mangrove Species in the Indian Sundarbans. Chapter 33, In: *Forests and Climate Change: Biological*

- Perspectives on Impact, Adaptation, and Mitigation Strategies. Edited by H. Singh, published by Springer, eBook ISBN 978-981-97-3904-2, 2024 (In press). DOI: [https://doi.org/10.1007/978-981-97-3905-9\\_33](https://doi.org/10.1007/978-981-97-3905-9_33).
- Ghosh, Vineeta; Pramanick, Prosenjit; Zaman, Sufia and Abhijit Mitra. Mangroves of Indian Sunderban: Nature Based Buffer Against Estuarine Acidification. International Journal of Advancement in Life Sciences Research, 2024, 7 (3), 130-139.
- Sengupta, Tapti and Abhijit Mitra. Abundance of Microplastics in the Mangrove Dominated Indian Sundarbans: A Mini Review. In: Plastic Pollution, edited by M. Goel and N.G. Tripathi, Springer, 2024. DOI: [https://doi.org/10.1007/978-981-97-5528-8\\_7](https://doi.org/10.1007/978-981-97-5528-8_7).
- Roychowdhury, Goutam; Mitra, Abhirup; Ahmed, Sana; Pramanick, Prosenjit; Sengupta, Goutam and Abhijit Mitra. Leveraging Machine learning Algorithms for optimizing Gibelion catla growth assessment in controlled Aquaculture Environments. Aegaeum Journal, ISSN: 0776-3808; 2024, 12 (7), 189-197.
- Sannabhadti, Nagaraj Narayan; Ahmed, Sana; Zaman, Sufia; Bhattacharyya, Subhra Bikash and Abhijit Mitra. Exploring the Role of Hydrological Parameters in Labeo rohita Growth Using Python Program. Aegaeum Journal, ISSN: 0776-3808; 2024, 12 (8), 33-50.
- Mitra, Abhirup; Pramanick, Prosenjit; Sengupta, Goutam and Abhijit Mitra. Assessing Hydrological Factors Affecting the Growth of Cirrhinus cirrhosus Using Python. Parana Journal of Science and Education, ISSN: 2447-6153, 2024, 10 (5), 1-10, <https://sites.google.com/site/pjsciencea>.
- Mitra, Abhirup; Pal, Nabonita, and Abhijit Mitra. Assessing phytoplankton species diversity across four freshwater ponds and its ecological implications. Aegaeum Journal, ISSN: 0776-3808; 2024, 12 (8), 146-154.
- Ghosh, Debal Kumar; Sengupta, Goutam; Saha, Arpita and Abhijit Mitra. Leveraging artificial intelligence and machine learning to understand and mitigate the impact of climate change on vector-borne diseases. International Journal of Management, Technology And Engineering, 2024, ISSN No: 2249-7455, XIV (VII), 24-32.
- Dutta, Pallavi; Ahmed, Sana; Pramanick, Prosenjit; Zaman, Sufia and Abhijit Mitra. Role of Urban Trees in Minimizing the Atmospheric Carbon Dioxide Level of the Megacity of Kolkata, India. Chapter 33, In: Urban Forests, Climate Change and Environmental Pollution: Physio-Biochemical and Molecular Perspectives to Enhance Urban Resilience. Edited by Hukum Singh. Published by Springer, eBook ISBN 978-3-031-67837-0, 705-732. DOI: [https://doi.org/10.1007/978-3-031-67837-0\\_33](https://doi.org/10.1007/978-3-031-67837-0_33).
- Ahmed, Sana; Pramanick, Prosenjit; Zaman, Sufia and Abhijit Mitra. Regulation of Ambient Air Temperature Through Trees: A Comparison Between Industrial and Rural Belt in the State of West Bengal, India. Chapter 36, In: Urban Forests, Climate Change and Environmental Pollution: Physio-Biochemical and Molecular Perspectives

- To Enhance Urban Resilience. Edited by Hukum Singh. Published by Springer, eBook ISBN 978-3-031-67837-0, 779-792. DOI: [https://doi.org/10.1007/978-3-031-67837-0\\_36](https://doi.org/10.1007/978-3-031-67837-0_36).
- Banerjee, Debatri; Ahmed, Sana; Bhattacharyya, Sumana; Zaman, Sufia and Abhijit Mitra. Bioaccumulation and translocation of selective pesticides in *Basella alba*: An approach to address food security. *Journal of Environment and Sociobiology*, 2024, Online ISSN No: 2454-2601, Print ISSN No: 0973-0834, 21 (1), 1-11.
- Biswas, Pavel; Sengupta, Goutam; Zaman, Sufia and Abhijit Mitra. Role of Probiotics in Enhancing Aquaculture: A March Towards Food Security. *Aegaeum Journal*, 2024, ISSN No. 0776-3808, 12 (6), 197 – 207.
- Mondal, Jagadish; Zaman, Sufia; Bhattacharyya, Subhra Bikash and Abhijit Mitra. Stored Carbon in the Phytoplankton Community of a Freshwater Pond: A Case Study from Sirakol, South 24 Parganas, West Bengal. *Aegaeum Journal*, 2024, 12 (8), 228 – 235.
- Barua, Prabal; Chowdhury, Sadika Sultana and Abhijit Mitra. Review on Conservation Approach Study of Largest Mangrove Ecosystem as the Mitigation of Climate Change. *Journal of Climate Change*, 2024, 10(3), 31-42. DOI: 10.3233/JCC240021
- Mitra, Abhijit; Zaman, Sufia and Pramanick, Prosenjit. Climate Resilient Innovative Livelihoods in Indian Sundarban Delta. Published by Springer, Hardcover ISBN 978-3-031-42632-2, eBook ISBN 978-3-031-42633-9, 2023, XII, pp. 297. DOI: <https://doi.org/10.1007/978-3-031-42633-9>

## Departmental Events

- **Consultancy:**
  - 1) Carbon Sequestration by Plant Community and Associated Abiotic Environment in and around the Haldia Energy Limited
  - 2) Monitoring of Carbon sequestration by Major Producer Communities within Budge Budge Generating Station

## List and details of Achievement (Academic and Non-Academic) of the students, faculty/staff members

- Certificate of Excellence as a Reviewer for reviewing manuscript for the *Journal of Marine Science Research and Oceanography*
- Certificate of Excellence as a Reviewer for reviewing manuscript for the *Asian Research Journal of Mathematics*.

- Certificate of Excellence as a Reviewer for reviewing manuscript for the International Journal of Environment and Climate Change
- Certificate of Excellence as a Reviewer for reviewing manuscript for the International Journal of Environment and Climate Change
- Certificate of Excellence as a Reviewer for reviewing manuscript for the Asian Journal of Advances in Research
- Certificate of Excellence as a Reviewer for reviewing manuscript for the Asian Journal of Advances in Agricultural Research, dated 6th October, 2023
- Certificate of Excellence as a Reviewer for reviewing manuscript for the Journal of Advances in Medicine and Medical Research, dated 7th November, 2023
- Certificate of Excellence as a Reviewer for reviewing a Book Chapter; Book Name: Current Perspectives in Agriculture and Food Science, Manuscript Number: Ms\_BP\_7193C, dated 30th November, 2023.
- Certificate of Excellence as a Reviewer for reviewing manuscript for the Journal of Experimental Agriculture International, Manuscript Number: Ms\_JEAI\_110466, dated 5th December, 2023.
- Dr. Sufia Zaman Invited as a Chief Guest from Tamralipta Public School, Affiliated to the Council for the Indian School Certificate Examinations, New Delhi Approved by National Commission for Minority Educational Institutions, Govt. of India A Project of N.H.K. Welfare Foundation at the Annual Science Exhibition, held on 22.12.23
- Certificate of Excellence as a Reviewer for reviewing manuscript for the Journal of Materials Science Research and Reviews, Manuscript Number: Ms\_JMSRR\_111066, dated 20th December, 2023.
  
- Certificate of Participation for script writing contest for the National Pollution Control Day 2023 organized by National Institute of Tropical Meteorology, Environmental Information Awareness, Capacity Building & Livelihood Programme, (Ministry of Environment, Forest & Climate Change, Govt. of India, held on 12.12.2023.
- Certificate of Excellence as a Reviewer for reviewing manuscript for the Journal of Applied Life Sciences International, Manuscript Number: Ms\_JALSI\_111705, dated 4th January, 2024.
- Certificate of Excellence as a Reviewer for reviewing manuscript for the Journal of Advances in Microbiology, Manuscript Number: Ms\_JAMB\_112386, dated 19th January, 2024.

- Certificate of Excellence as a Reviewer for reviewing manuscript for the Emerging Issues in Environment, Geography and Earth Science, Manuscript Number: Ms\_BP\_16871D, Development Prospects of the Mangrove Relic of Foulpointe—East Madagascar dated 1st February, 2024.
- Certificate of Excellence as a Reviewer for reviewing book chapter for the Emerging Issues in Environment, Geography and Earth Science, Ms\_BP\_12040F (manuscript number), Chapter title: Assessment of above-ground bole biomass and carbon stock of recreational trees, agodi gardens, oyo state, dated 27th February 2024.
- Certificate of Excellence as a Reviewer for reviewing manuscript for the Asian Journal of Economics, Business and Accounting, Manuscript Number: Ms\_AJEB\_A\_114396, dated 11th March, 2024.
- Certificate of Excellence as a Reviewer for reviewing manuscript for the Uttar Pradesh Journal of Zoology, Manuscript Number: Ms\_UPJOZ\_3383, dated 28th March, 2024.
- Certificate of Excellence as a Reviewer for reviewing manuscript for the Asian Research Journal of Arts & Social Sciences, Manuscript Number: Ms\_ARJASS\_116230, dated 19th April, 2024.
- Certificate of Excellence as a Reviewer for reviewing manuscript for the Asian Journal of Environment & Ecology, Manuscript Number: Ms\_AJEE\_116628, dated 2nd May, 2024.
- Certificate of Excellence as a Reviewer for reviewing manuscript for the Asian Journal of Research in Infectious Diseases, Manuscript Number: Manuscript\_AJRID\_117633, dated 16th May, 2024.
- Certificate of Excellence as a Reviewer for reviewing book chapter for the Innovations in Biological Science, Ms\_BPR\_992 (manuscript number), Chapter title: Regulating Mitochondrial Volume in the Heart: Physiological versus Pathological Conditions, dated 25th May 2024.
- Certificate of Excellence as a Reviewer for reviewing book chapter for the Medical Research and Its Applications, Ms\_BPR\_916 (manuscript number), Chapter title: Evaluation of the Quality of Micturition in Patients Who Underwent Anastomotic Urethroplasty at the Yaounde Central Hospital, Cameroon, dated 25th May 2024.
- Certificate of Excellence as a Reviewer for reviewing book chapter for the Open Reading Frame 4 -A Multifunctional Protein of Hepatitis E Virus, Ms\_BPR\_1087.2 (manuscript number), Chapter title:
  - Physicochemical aspects of open reading frame 4 of Hepatitis e virus: a general perspective, dated 25th May 2024.
- Certificate of Excellence as a Reviewer for reviewing book chapter entitled Accelerating Science-Driven Blue Growth via a Competitive Intelligence Cloud/HPC Platform for AI-Based STI Policy Making, Manuscript No. Ms\_BPR\_1069; dated 12th June 2024.
- Certificate of Excellence as a Reviewer for reviewing manuscript for the International Journal of Environment and Climate Change, Manuscript Number: Ms\_IJECC\_119473, dated 28th June 2024.

# *Department of Microbiology*

## **Departmental Achievements**

### **Participation in International/National Conferences/Seminars/Workshops and FDPs**

- Dr. Arnab Ganguli participated in a Faculty Development Program (FDP) organized by the Department of Science, Technology, and Biotechnology, Government of West Bengal, on "Intellectual Property Rights" in March 2024.
- Ms. Jayita Ghosh, Ms. Somdutta Majumder participated in an FDP on "Professional Communication and Universal Human Values" at Narula Institute of Technology in July 2023.
- Dr. Atreyee Kundu participated in a one-week FDP on "Research Support Services: Tools and Techniques" from August 22 to August 28, 2023.
- Dr. Atreyee Kundu participated in the "Management in Circular Economy and Climate Resilience (ICSWHK2023)" organized by Hong Kong Baptist University and Zhejiang University from May 31 to June 3, 2023.
- Dr. Atreyee Kundu attended a one-day National Seminar sponsored by the DBT Star College Scheme on "Improvement in the State of Art Knowledge on Plant Sciences" on February 16, 2023,
- Dr. Atreyee Kundu participated in a One-Day National Webinar on "Cyber Security," organized by the Department of Computer Science and BCA, Kharagpur College.
- Dr. Atreyee Kundu also attended a one-day workshop on "NEP 2020 - Plan for Implementation" held on August 1, 2023

### **Publications (Books / Articles / Journals / Papers)**

- Das A, Chakrabarty S, Nag D, et al. (2023). Heavy water (D<sub>2</sub>O) induces autophagy-dependent apoptotic cell death in non-small cell lung cancer A549 cells by generating reactive oxygen species (ROS) upon microtubule disruption. *Toxicology In Vitro*, 93:105703. <https://doi.org/10.1016/j.tiv.2023.105703>
- Das SK, Vishakha K, Das S, Ganguli A. (2023). Antibacterial and antibiofilm activities of nanoemulsion coating prepared by using caraway oil and chitosan prolong the shelf life and quality of bananas. *Applied Food Research*, 3:100300. <https://doi.org/10.1016/j.afres.2023.100300>
- Vishakha K, Das S, Ganguli A. (2023). The facile synthesis of eco-friendly zinc magnesium bimetal nanoparticles and its application in the eradication of *Xanthomonas oryzae* pv. *oryzae* that causes leaf blight disease of rice. *Current Microbiology*, 80:340. <https://doi.org/10.1007/s00284-023-03455-1>
- Das SK, Vishakha K, Das S, Ganguli A. (2023). Study of gelatin and peppermint oil nanoemulsion coating against food-borne pathogens, as well as its effect on shrimp quality and preservation. *Journal of Aquatic Food Product Technology*, 32:142–157. <https://doi.org/10.1080/10498850.2023.2174392>

- Madhogoria B, Banerjee S, Chakraborty S, Dhak P, Kundu A\*. (2024). Alleviation of heavy metals chromium, cadmium, and lead and plant growth promotion in *Vigna radiata* L. plant using isolated *Pseudomonas geniculata*. *International Microbiology*. <https://doi.org/10.1007/s10123-024-00546-2>
- Madhogoria B, Banerjee S, Kundu A\*, Dhak P. (2024). Efficacy of new generation biosorbents for the sustainable treatment of antibiotic residues and antibiotic resistance genes from polluted waste effluent. *Infectious Medicine*. <https://doi.org/10.1007/s10123-024-00546-2>
- Banerjee S, Madhogoria B, Saha O, Kundu A\*, Dhak P\*. (2024). Vermifiltration: an opportunity to improve wastewater treatment - a sustainable and natural approach. *Discover Water*. <https://doi.org/10.1007/s43832-024-00101-0>
- Saha P, Bhattacharya P, Madhogoria B, Banerjee S, Chakraborty S, Kundu A\*. (2024). Efficient approaches for combating the antibiotic resistance of gram-negative bacterial pathogens against conventional drugs. *TIU Transactions on Human Science*, 1(1).
- Kundu A, Ganesan M. (2024). Low pH stress activates several genes for lateral root formation and detoxification of aluminum ions in cotton plants. *Plant Stress*, 9:100188.
- Banerjee S, Mukherjee A, Kundu A. (2023). The current scenario and future perspectives of transgenic oilseed mustard by CRISPR-Cas9. *Molecular Biology Reports*, 50(9):7705-7728.
- Banerjee S, Mistry S, Kundu A, Dhak D, Dhak P. (2023). Remediation of toxic effects of *Parthenium hysterophorus* through circular economy by using it for the removal of As, Sb, Cd, Cr, U, F, and other heavy metals from wastewater. *Solid Waste*, 552.
- Kundu A, Banerjee S, Chakraborty S, Mistry S. (2023). Biodegradability of non-biodegradable and biodegradable plastic through circular economy. *Solid Waste*, 440.
- Dr. Arnab Ganguli - SLST Biology, Techno World Publisher, ISBN-13 978-9392145131 ISBN-10: 9392145136

## List and details of Achievement (Academic and Non-Academic) of the students, faculty/staff members

- **Thesis Submitted:**  
Ms. Barkha Modi, *Supervisor:* Dr. Atreyee Kundu
- **Pre-Thesis Completed:**  
Nabanita Ghosh, *Supervisor:* Dr. Arnab Ganguli

## Departmental Events:

- Science Day Celebration on the theme “Microbes at Work: Sustainable Solutions for the Planet” scheduled for February 2024.
- Release of Departmental E-Magazine “Consortium 3.0” in May 2024.
- Release of Departmental E-Magazine “Consortium 2.0” in December 2023.
- Invited Talk by Prof. Samir Kumar Mukherjee on the topic “Microbes: The True Rulers of the Earth” during the Dr. Srilekha Raha Memorial Oration in May 2024.
- International Seminar on “MicroBiotech Solutions: Bridging Technology and Sustainable Society” scheduled for March 2024.
- International Seminar on “Photosynthesis to the Rescue: Meeting the Climate Challenges in Bio-Manufacturing” held in August 2023.

# *B.Sc (H) - Data science (ICA Techno Alliance)*

## **Departmental Achievements**

### **Participation in International/National Conferences/Seminars/Workshops and FDPs**

- Prof Sunita Swain Participated in FDP on "Research Methodology Using Open Source Tools" organized by Amity Business School, Amity University, Kolkata from 11th March 24 to 16th March 24.
- Prof Sunita Swain Participated in FDP on "Unveiling the Internet Of Things & WSN" organized by Department of IT & CSE(IOT), IEM College, Salt-Lake Campus, Kolkata from 18th March 24 to 22nd March 24.
- Prof Sunita Swain Participated in FDP on "Innovation in Recent Trends and Research Applications on Computing and Informatics" organized by the Department of Information Technology in association with IQAC, Haldia Institute of Technology during 29th July- 02nd August, 2024.
- Prof Sanchita Bhattacharjee Participated in Live Webinar (28th June 2024): Gen AI: Skills that will dominate the industry in 2024. Hosted by Muthu Chandra- Chief Scientist, Artificial Intelligence, Ascendion.
- Prof Sanchita Bhattacharjee Participated in 5 days FDP on Recent advanced and future trends in AI and NLP (15th April-19th April, 2024) by Global Institute of Science and Technology, Haldia (WB).
- Prof Sanchita Bhattacharjee Participated in 5 days FDP on Research Methodology using open source tools (11th March -16th March 2024) by Amity University, Kolkata.
- Prof Avinash Participated in 5 days FDP on Research Methodology using open source tools (11th march -16th March 2024) by Amity University, Kolkata.
- Prof Avinash Participated in 5 days FDP on Effective communication and addressing new age: Challenges in Education (19-24th Feb, 2024).
- Prof Shantanu Chakraborty Participated in FDP on "Research Methodology Using Open Source Tools" organized by Amity Business School, Amity University, Kolkata from 11th March 24 to 16th March 24.
- Prof Shantanu Chakraborty Participated in FDP on "Unveiling the Internet Of Things & WSN" organized by Department of IT & CSE(IOT), IEM College, Salt-Lake Campus, Kolkata from 18th March 24 to 22nd March 24.
- Prof Shantanu Chakraborty Participated in FDP on "Innovation in Recent Trends and Research Applications on Computing and Informatics" organized by the Department of Information Technology in association with IQAC, Haldia Institute of Technology during 29 th July- 02 August, 2024.
- Prof Shantanu Chakraborty Participated in FDP on "Data Analytics Challenges and opportunities" by the department of Computer Science at, Techno Main Saltlake Campus, Kolkata from 13th May to 18th May 2024.
- Prof Shantanu Chakraborty Participated in FDP on "Implementation of AI ML for real world application and best practices "conducted by the department of Computer Science, AI/ML), Kolkata 15th April 2024 to 19th April 2024 with 84% marks.

- Prof Shantanu Chakraborty Participated in 5 Day FDP on “Implementation of AI ML for real world application and best practices “conducted by the department of Computer Science, AI/ML), Kolkata 15th April 2024 to 19th April 2024 with 84% marks.
- Prof Shantanu Chakraborty Participated in 5 Day FDP on “on IEEE sponsored workshop on Recent Advances in Control and Instrumentation with Integration of Artificial Intelligence: Opportunities, Challenges, and Implications organized by the Department of Basic Science and Humanities (BSH), UEM Kolkata, in association with HRDC, IEM-UEM Group and technically co-sponsored by IEEE JOINT CSS-IMS Kolkata Chapter, India from 1st April to 5Th April 2024.
- Prof Shantanu Chakraborty Participated in paper presentation for International Conference Coherence 2024 - International Management Conference presenting a research paper titled "Retail Analytics and Business Analytics Force behind the Success of Retail Industry in Presence of Expert panel at Sister Nivedita University, Kolkata, and West Bengal.
- Prof Shantanu Chakraborty Participated in 5 Day FDP on “Connectivity Conclave: Unwveling the Internet of Things and WNS in association with the IEM,Centre of Excellence in Data Science, Department of INFORMATION TECHNOLOGY, and IEM Salt lake HRDC IEM-UEM GROUP Department of Computer Science IQAC Cell, IEM Kolkata from 18th March to 22nd March 2024.
- Prof Shantanu Chakraborty Participated in 5 Day FDP on “Recent trends and application in Data Science from 26th Feb to 1st March 2024 at Sister Nivedita University, Kolkata.
- Prof Shantanu Chakraborty Participated in 5 Day FDP on Application of Descriptive and Generative AI in Healthcare,IOT and Data Engineering in association with the IEM, Centre of Excellence in Data Science,Department of CSBS, and IEM Saltlake HRDC IEM-UEM GROUP Department of Computer Science IQAC Cell, IEM KOLKATA from 6th Jan 2024 to 10th Jan 2024.
- Prof Shantanu Chakraborty Participated in 5 Day FDP on on Exploring Data Horizon and the Application of Block Chain Technology in association with HRDC IEM-UEM GROUP Department of Computer Science IQAC Cell, IEM KOLKATA from 18th Dec 2024 to 22nd Dec 2023.
- Prof Shantanu Chakraborty Participated in 5 Day FDP on Cyber Intelligence and Awareness on Social Media Security by department of Computer Application and Science. IEM from 22nd Nov 2023 to 27th Nov 2023 conducted by HRDC IEM-UEM GROUP Department of Computer Science IQAC Cell, IEM KOLKATA.
- Prof Shantanu Chakraborty Participated in 5 Day FDP on Exploring Data Horizon and the Application of Block Chain Technology HRDC IEM-UEM GROUP Department of Computer Science IQAC Cell, IEM KOLKATA from 29th Jan to 2nd Feb 2024.

- Prof Shantanu Chakraborty Participated in 5 Day FDP on Cyber Intelligence and Awareness on Social Media Security by department of Computer Application and Science. IEM in association with HRDC IEM-UEM GROUP Department of Computer Science IQAC Cell, IEM KOLKATA from 27th Nov 2024 to 1st Dec 2023.
- Prof Shantanu Chakraborty Participated in 5 Day FDP on Future of Generative AI in academic publishing and research publishing” at IEM in association with HRDC IEM-UEM GROUP Department of Computer Science IQAC Cell, IEM KOLKATA from 2nd Jan 2024 to 6th Jan 2024
- Prof Shantanu Chakraborty Participated in 5 Day FDP “Innovation and synergies of artificial Intelligence and Machine learning.” Conducted by Inurture conducted from 18th Dec 2024 to 22nd Dec 2023.
- Participated at an International Conference at JIS University, Socio-economic transformation and its impact on the business, title of the paper “Challenges for women workers in the post pandemic work from home” from 9th Jan 2024 to 10th Jan 2024.

### **Publications (Books / Articles / Journals / Papers)**

- Shantanu Pradyut, (2024). “Systematic review on influence of supplier sustainability performance in modern business through customer satisfaction under Indian scenario”. Journal of Psychology. ISSN: 0019-5553.
- Shantanu Pradyut, (2024). "Socio-Economic Transformation and Its Impact on Business – SETIB 2024". ISBN 978-8-19-701969-2.

### **Departmental Events**

- The Department of Data Science hosted a 3 - part series of off online lectures on Maths for Non-maths students delivered by Prof. Prof Avinash Modi of the department of Data Science the lectures were held on 11th March, 12th March, and 15th March, 2024, in offline mode.
- The Department of Data Science conducted parent-teacher meetings held on December 17th March 2024-2025 for the Batch 2023-2026:B.Sc Data Science in offline mode.
- The Department of Data Science conducted an Industry visit at Apps Connect Pvt Ltd Solutions held on November 6th Feb 2024 for the Batch 2023-2026:B.Sc Data Science in offline mode.
- The Department of Data Science conducted Alumni Meet for Batches 2021 -24, and Batch 2022-25 organized by the passed-out students held on 24th Sep 2023
- The Department of Data Science conducted GD and PI: communication skills by Prof Shreya Bagchi Batches 2021 -24, and Batch 2022-25 held on 18th Feb 2023
- The Department of Data Science conducted one one-day workshop on Business Analytics, Artificial Intelligence, and Machine Learning in shaping the global job market. By the Director of the company Traversa. On 11th April 2024.

## List and details of Achievement (Academic and Non-Academic) of the students, faculty / staff members

- Under the supervision of Prof. Shantanu Chakraborty, batch 2021-2024, Passed out student Joy Chatterjee completed a full-time internship from Larson and Turbo.
- Under the supervision of Prof. Shantanu Chakraborty and Prof Sunita Swain, batch 2021-24 passed out batch completed full-time internship at reputed company in and around Kolkata
- Under the supervision of Prof Shantanu Chakraborty Prof Sunita Swain, and Sanchita Bhattacharjee batch 2022-25 ongoing batch have undertaken online virtual internships in reputed companies.

## *Department of Commerce*

### Departmental Achievements

#### Participation in International/National Conferences/Seminars/Workshops and FDPs

- Prof. Raunak Bhattacharyya - "A New Perspective for the Advancement of Entrepreneurship in India" in the 4th International Seminar on Entrepreneurship, Growth, and Competitiveness organized by Kolkata Bidhannagar Society for Academic Advancement, West Bengal, India in collaboration with the Dept. of Commerce and IQAC, Naba Ballygunge Mahavidyalaya, Kolkata & Research and Development cell and IQAC, Kabi Sukanta Mahavidyalaya, Bhadreswar on August 12-13, 2023.
- Prof. Raunak Bhattacharyya - "Prospects and Problems of Entrepreneurship in India- A Study" Presented in the International Conference on Issues and Trends in the Financial Sector, Society and Economy of India- organised by Department of Commerce, New Alipore College, Kolkata on February 10, 2024, Saturday.
- Prof. Raunak Bhattacharyya - "Financial Efficiency of SBI vs Canara Bank (Syndicate Bank)- A Comparative Study" Presented in the National Seminar on Shaping the Future: Trends and Insights for Tomorrow organised by KBSAA in Collaboration with The Department of Commerce, New Alipore College, Kolkata in association with Vandana Publications and Azure Academic Services held on March 30-31, 2024.
- Prof. Raunak Bhattacharyya - Act as the Resource Person (Keynote Speaker) in the one-day State Level seminar on "Different Aspects of Intellectual Property Rights organized by The Department of English, the Library, and IQAC, Vidyanagar College jointly with The Library and the IQAC, Fakir Chand College on 5th August 2023 at Vidyanagar College, South 24 Parganas.
- Prof. Raunak Bhattacharyya - Delivering the Lecture as Resource Person on the topic titled "Overhead Costing & Cost Statement" in the Virtual Lecture Series on Finance and Other Allied Subjects for B.Com Under-graduate Semester 2 Students organized by Kolkata Bidhannagar Society for Academic Advancement, Kolkata, India held on August 23, 2023 (Wednesday) at 7.45 P.M. – 10.45 P.M. (IST).
- Prof. Anwesha Sahoo received the 'Best Presentation Award' at the Doctoral Research Colloquium 2024 organized by the Institute of Engineering and Management (IEM) Kolkata.

- Prof. Anwesha Sahoo participated in the Faculty Development Programme on ‘Advanced Scales Development and Structural Equation Modelling with Smart – PLS 4.0 at St. Xavier’s University, Kolkata.
- Prof. Anwesha Sahoo participated in a Faculty Development Programme on ‘Curating Impactful Research: Exploring Effective Tools and Techniques organized by the School of Management, Bennett University.
- Prof. Ayan Chakraborty - Application of DCF Technique: A Study on Indian Automobile Companies; International Journal of Business and Administration Research Review, (ISSN-2348-0653).
- Prof. Ayan Chakraborty - Working Capital Management: A study on Indian Pharma Companies, Asia Pacific Journal of Research (ISSN 2320-5504).
- Prof. Ayan Chakraborty - Maximization of Shareholders Wealth: A Study on Indian Automobile Companies, International Journal of Business and Administration Research Review, (ISSN-2348-0653).
- Prof. Raunak Bhattacharyya attended a 10 Days Faculty Development Programme on Research Methodology, Publication, and Ethics from December 10-19, 2023- obtained a grade “A”- organised by Department of Commerce and IQAC, Chittaranjan College, Kolkata.
- Prof. Raunak Bhattacharyya attended Integrating, Sustainability, Effective Communication, and Addressing New Age Challenges in Education, Feb 19-24, 2024, by Suresh Gyan Vihar University, Jaipur.
- Prof. Raunak Bhattacharyya attended Connectivity Conclave: Unveiling the Internet of Things and WSN organised by Dept. of Information Technology, CSE (IOT), CSE (IOTCSBT), IEM Kolkata in association with IEM-UEM IQAC held from 18th March to 22nd March 2024 with 84% Marks.
- Prof. Raunak Bhattacharyya attended a Faculty Development Programme on “Recent Advances in Control and Instrumentation with Integration of Artificial Intelligence: Opportunities, Challenges, and Implications” organized by Department of Basic Science and Humanities (BSH), UEM Kolkata in association with HRDC, IEM-UEM Group and technically co-sponsored by IEEE JOINT CSS-IMS Kolkata Chapter, India held from 1st April to 5th April 2024.
- Prof. Raunak Bhattacharyya attended a 5 Days Faculty Development Programme on Recent Advances and Future trends in AI and NPL held April 15 to April 19, 2024, organised by the Global Institute of Science and Technology, Haldia.
- Prof. Raunak Bhattacharyya attended a 5 Days Faculty Development Programme on Connectivity Conclave: Unveiling the Internet of Things and WSN organised by the Dept of CSE, IEM Kolkata on May 22, 2024.
- Prof. Raunak Bhattacharyya attended an FDP on qualitative Techniques for Management Studies and Social Science on June 24, 2024, Organised by Amity University, Kolkata.
- Prof. Raunak Bhattacharyya attended a 3-day National Workshop on Intellectual Property Rights, Feb 22- 24, 2024, Organized by IQAC Chittaranjan College, Kolkata.

- Prof. Raunak Bhattacharyya attended a 2 Days International Workshop [Virtual Mode] on ‘LaTeX with Overleaf: Creating Professional Documents Collaboratively’ held on September 23 – 24, 2023 (Friday – Saturday) Organised by Kolkata Bidhannagar Society for Academic Advancement, West Bengal, INDIA jointly with the Dept. of Commerce and IQAC, Vidyanagar College, 24 Parganas (South), West Bengal, INDIA.
- Prof. Raunak Bhattacharyya attended a one Day National Workshop [Virtual Mode] on ACADEMIC AUDIT: Reinforcing Compliance jointly organised by Kolkata Bidhannagar Society for Academic Advancement, West Bengal, INDIA and Azure Academic Services, West Bengal, India held on October 01, 2023 (Sunday) | 7.00 P.M. – 9.30 P.M.
- Prof. Raunak Bhattacharyya attended the International Seminar [Virtual Mode] on ‘CONTEMPORARY RESEARCH TRENDS AND INNOVATION FOR INDUSTRIAL RESURGENCE held on October 07 – 08, 2023 (Saturday and Sunday) Organised by Kolkata Bidhannagar Society for Academic Advancement, West Bengal, INDIA jointly with the Dept. of Commerce and Internal Quality Assurance Cell, Jhargram Raj College, Jhargram, INDIA, and Dept. of Commerce and Internal Quality Assurance Cell, Chittaranjan College, Kolkata, INDIA.
- Prof. Raunak Bhattacharyya attended the Special Lecture Programme (Talk of the Month Series – 3) on ‘Gender Sensitisation Awareness in the Workplace’ to be held on October 12, 2023 (Thursday) Organised by Kolkata Bidhannagar Society for Academic Advancement, West Bengal, INDIA.
- Prof. Ayan Chakraborty attended a 5-day FDP on Global Institute of Science & Technology (ICARE), April 15 - 19, 2024, Recent Advances & Future Trends in AI & NLP.
- Prof. Ayan Chakraborty attended a 6-day FDP on Research Methodology Using Open-Source Tools, 11 - 16 March 2024 organised by Amity University.
- Prof. Ayan Chakraborty attended a 6-day FDP on Integrating Sustainability, Effective Communication & Addressing New Age: Challenges in Education, 19 - 24 February 2024, Suresh Gyan Vihar University.
- Prof. Ayan Chakraborty attended a 3-day National Workshop on Intellectual Property Rights Intellectual Property Rights & Patent Awareness, 27 – 29 February 2024 Organised by Suresh Gyan Vihar University.

## **Publications (Books / Articles / Papers / Journals)**

- Bhattacharya, Raunak. “A New Perspective for the Advancement of Entrepreneurship in India”. ISBN: 978-81-964979-0-3, Published on August 12, 2023. E-Proceeding link: <https://drive.google.com/file/d/1pQvUr7Zq29cKTfTL6XGxG7zXxpc7Sn37/view>
- Bhattacharya, Raunak. “Prospects and Problems of Entrepreneurship in India- A Study”. ISBN: 978-81-964979-3-4, Published on February 10, 2024.

# *Department of Hotel & Hospitality Management*

## **Departmental Achievements**

### **Participation in International/National Conferences/Seminars/Workshops and FDPs**

- Bhaskar Bandyopadhyay has participated in FDP on Artificial Intelligence and legal Pedagogy) organized by the Department of Legal Science. TIU, W.B from 27/08/24 to 31/08/24.
- Bidisha Bhattacharjee has participated and presented a research paper on the topic “The effect of Human Resource strategies on employees satisfaction in star hotels in Kolkata” in ITHC - 2023
- Bidisha Bhattacharjee has participated in FDP on Artificial Intelligence and legal Pedagogy) organized by the Department of Legal Science. TIU, W.B. from 27/08/24 to 31/08/24.

### **Departmental Events**

- Pithe Puli Workshop (10th & 11th January 2024)
- Educational Tour to Jhore Jole Jongole (6th to 8th March 2024)
- Chat Stall in Happiness Fair at TIU main Campus (22nd March 2024)
- Per Poila Baishak with a Bengali Based Food Stall (12th April 2024)

### **List and details of Achievement (Academic and Non-Academic) of the students, faculty/staff members**

- Dibyendu Paul has achieved the best trainee award (Star Intern) during his industrial Training at Chennai Novotel.
- Shweta Gayen has achieved the 1st position in Logo making competition in Uniex 2024.
- Arka Mallah has achieved the 3rd position in Logo making competition in Uniex 2024.



# Department of Nursing

## Departmental Achievements

### Participation in International/National Conferences/Seminars/Workshops and FDPs

- Mrs. Piyali Biswas and Mrs. Debojita Chatterjee attended "Impact of Artificial Intelligence in Nursing Education".organised by Ideal Institute of Nursing on 9th and 10th July, 2024.

### Departmental Events

- Pre puja celebration 2023
- Lamp lighting ceremony 2024
- Nutrition awareness program 2024
- World Breastfeeding week 2024





## *Department of Psychology*

### **Departmental Achievements**

#### **Participation in International/National Conferences/Seminars/Workshops and FDPs**

- Dr. Mallika Banerjee acted as a Resource person of Seminar organised by The Asiatic Society: Kolkata on “Insights into Social Inclusion”, 25th August, 2023.
- Dr. Mallika Banerjee acted as a Resource person of State Steering Committee for accessible election (for the persons with disability), 14th August, 2023.
- Dr. Sritama Mitra Ghosh acted as the convenor on National Seminar in Mental Wellness- A New Dialogue at TIU campus on 22nd Feb 2024.
- Dr. Priyanka Podder acted as the co-convenor in National Seminar on Mental Wellness- A New Dialogue at TIU campus on 22nd Feb 2024.
- Dr. Shrabani Mukherjee acted as the Co-convenor in National Seminar on Mental Wellness- A New Dialogue at TIU campus on 22nd feb 2024.
- Dr. Shrabani Mukherjee attended the International Conference on positive psychology by NPPA, 2024.

#### **Publications (Books / Articles / Papers / Journals)**

- Prof. (Dr.) Mallika Banerjee published a Paper with Arpita Mazumdar, Biswajoy Chatterjee, Mallika Banerjee, Sugat Shanker<sup>3</sup> (2024) Machine learning based autism screening tool—a modified approach, Multimedia Tools and Applications, <https://doi.org/10.1007/s11042-024-18519-y>.
- Prof. (Dr.) Mallika Banerjee published a Paper with Miss. Punam Shaw<sup>1\*</sup>, Prof. Ashoke Kumar Biswas<sup>2</sup>, Prof. Mallika Banerjee -Effect of Behavioural Therapy Techniques on Anxiety and Academic Performance of Children

- with Conduct Problem, The International Journal of Indian Psychology, ISSN 2348-5396 (Online) | ISSN: 2349-3429 (Print), Volume 12, Issue 2, April- June, 2024, DIP: 8.01.069.20241202, DOI: 10.25215/1202.069, <https://www.ijip.in>.
- Dr. Sritama Mitra Ghosh published a Paper in International Journal of Management Technology and Engineering on "A STUDY ON THE LEVEL OF DIFFERENCE IN JOB SATISFACTION AND SELF ESTEEM AMONG High And LOW PAID EMPLOYEES & quot; IJMTE JOURNAL, VOLUME XIII, ISSUE VII, JULY 27, 2023. ISSN NO- 2249-7455.
- Dr. Sritama Mitra Ghosh published a Paper in INTERNATIONAL JOURNAL OF ADVANCE RESEARCH AND INNOVATIVE IDEAS IN EDUCATION on & quot;A STUDY ON EFFECT OF PARENTING STYLES ON GENDER IDENTITY OF ADOLESCENCE STUDENT IN KOLKATA" Volume-9 Issue-6 November,2023 , ISSN(O): 2395-4396.
- Dr. Sritama Mitra Ghosh published a Paper in INTERNATIONAL JOURNAL OF NOVEL RESEARCH AND DEVELOPMENT (JNRD) | on " A STUDY ON THE VARIATIONS IN JOB SATISFACTION AND SOCIAL SUPPORT AMONG THE EMPLOYEES WITH HIGH AND LOW SALARIES".Published in Volume 9 Issue 4, April-2024 | Date of Publication: 2024-04-06, ISSN: 2456-4184,
- Dr. Priyanka Podder published one paper in another journal Podder, P. & Das, S. (2023). Predictors of Presence of Meaning in Life among Convicts. Indian Journal of Positive Psychology, 14(3), 309-314.
- Dr. Shrabani Mukherjee To Study The Effect Of Loneliness Among Adolescent Students In Terms Of Their Levels Of Depression (At Risk, Vulnerable And Non-depressed) Published In International Journal of Research and Analytical Reviews, UGC care peer- reviewed - Journal No : 43602 & 7.17 Impact Factor Volume 11 Issue 1 February 2024, Date of Publication: 15- February-2024 , PAPER ID : IJRAR24A2099.

### **List and details of Achievement (Academic and Non-Academic) of the students, faculty/staff members**

- Gurpreet Singh (3rd year student) participated in a fashion show on xavrang at Techno India University.
- Shreyashi Chakraborty (3rd year student) participated as a singer in world music day organised at Netaji Indoor Stadium.
- Pritha Sarkar (3rd year student) participated in Takshila Gaming Zone and held the 2nd position.
- Students of the psychology department participated in the happiness fair organised at Techno India University.
- Students of the psychology department participated in World Autism Awareness Day programme organised by Dept. of Women and Child Development and Social Welfare, Govt. of W.B in collaboration with Pradip Centre of Autism Management, 22nd April, 2024.

### **Departmental Events**

- Organised National Seminar on Mental Wellness- A New Dialogue at TIU campus on 22nd Feb 2024.
- Academic visit to Pradip Autism Centre on 28.3.2024.

- Organised Interdepartmental lecture series from 17.05.2024 - 22.05.2024.
- Organised a workshop on Autism: Intervention and Social Awareness on 19.4.2024.



**TECHNO INDIA UNIVERSITY**  
WEST BENGAL

Department of Psychology

Organizes  
**A One-day Interactive National Seminar**  
On

*Mental Wellness : A New Dialogue*

Date -  
**22nd February 2024**

Prof. Manas Mandal  
Prof. of IIT Kharagpur

Prof. Swaha Bhattacharya

Dr. Ishita Chatterjee

Dr. Ushri Banerjee



**INTRA DEPARTMENTAL LECTURE SERIES**

VENUE : 605

DATE: 17/05/2024 - 22/05/2024

<b>PROF. MALLIKA BANERJEE</b>	<b>DR. SRITAMA MITRA GHOSH</b>	<b>DR. SHRABANI MUKHERJEE</b>	<b>MISS PRIYANKA PODDER</b>	<b>MRS. SUCHETA CHOWDHURY</b>
Applying Social Psychology in the field of Environment	Developmental Disorders: SLD	Technique to manage emotions	Community psychology : core values - Social justice	Memory and forgetting
DATE: 21/05/2024 TIME: 11:00 AM TO 11:45 AM	DATE: 21/05/2024 TIME: 11:45 AM TO 12:30 PM	DATE: 22/05/2024 TIME: 10:15 AM TO 11:00 AM	DATE: 22/05/2024 TIME: 11:00 AM TO 11:45 AM	DATE: 17/05/2024 TIME: 10:15 AM TO 11:00 AM



# *Department of Legal Science*

## **Departmental Achievements**

### **Participation in International/National Conferences/Seminars/Workshops and FDPs**

- Prof. Sukanya Majiliya participated in the 6 Days Faculty Development Programme on "Dynamic Shifting of legal Education & Teaching techniques in the light of NEP" organized by Techno India University, Kolkata, from 14th August to 19th August 2023.
- Prof. Sukanya Majiliya participated in a One-week Online Capacity Building Programme on Soft Skills for Law Teachers organized by Law Teachers India from October 30th to November 5, 2023.
- Prof. Ekata Mukherjee participated in a One-Week Faculty Development Program on "Contemporary Approaches to Legal Research" organized by School of Law, Hindustan Institute of Technology and Science from 13 to 20 February, 2024.
- Prof. Ekata Mukherjee participated in a one-week online Faculty Development Programme on "Cyber Security: Issues & Challenges" organized by Late Govindrao Wajari College of Law, Nagpur from 20th February to 24th February 2024.
- Prof. Ekata Mukherjee participated in a 5 day Faculty Development Program on Understanding the Environmental Responsibilities of UNSDGs organised by the Department of Law in association with the HRDC, IEM-UEM Group held from 19th February, 2024 to 24th February, 2024 with 97% Marks.
- Prof. Ekata Mukherjee participated in a webinar on "Same Sex Marriage: A Legal Conundrum" hosted by Techno India University in collaboration with the All India Human Rights Association.
- Prof. Ekata Mukherjee participated in a webinar titled "Gender Inclusivity in Workplace" organised by Centre for Women and Gender Studies, Techno India University, West Bengal on 15th June, 2023.
- Prof. Ekata Mukherjee presented a paper titled "The Nexus of Armed Conflicts and Food Security: Examining Impacts, Legal Safeguards and Humanitarian Imperatives" in an International Seminar on "Exploring the Role of International Institutions in Resolving Contemporary Issues" organized by Faculty of Law, Banaras Hindu University from 1st March to 3rd March, 2024.
- Prof. Ekata Mukherjee presented a paper titled "Navigating Technology Transfer for Sustainable Development within the Legal Maze of Intellectual Property Rights" in a national Seminar on "IPR & Technology: Innovation & Creation for Sustainable Development with Inclusive Approach" organized by Centre for Study and Research in Intellectual Property Rights (CSRIPR), National University of Study and Research in Law, Ranchi, in collaboration with Department for Promotion of Industry and Internal Trade (DPIIT), Ministry of Commerce and Industry, Government of India, on 24th February, 2024.
- Prof. Ekata Mukherjee presented a paper titled "Entwined Realities: Exploring the Intersection of Climate Change, Food Security, and Women's Health" in a national seminar on "Contemporary Issues and Challenges in Environmental Legislations in the Current Decade (2020-2029)" organized by the Department of Legal Science, Techno India University, West Bengal on 23rd and 24th March, 2024.

- Prof. Ekata Mukherjee presented a paper titled “Mental Well-being of Teenagers vis-a-vis Digital Health” in a national seminar on “Exploring the Impact of Mental Health in the Modern Era: A Symbiosis of Society, Law, and Management” organized by Law College Durgapur, West Bengal and Management Institute of Durgapur, West Bengal on 23rd and 24th September 2023.
- Prof. Ekata Mukherjee presented a paper titled “Balancing Progress and Principles: Exploring the Impact of Technological Advancements on Human Rights” in a national seminar on “Contemporary Legal Aspects of Human Rights: Its Issues and Futuristic Trends, organized by Amity Law School, Amity University, Kolkata in collaboration with Jorhat Law College, Assam on 10th November, 2023.
- Prof. Anjali Karmakar Presented Paper on “Gender Based Discrimination in the aspect of International Migration” at International Seminar in Banaras Hindu University, on 1st to 3rd March, 2024.
- Prof. Anjali Karmakar successfully completed the Short Term Course in Research Methodology in Social Sciences and Humanities, organised Online by the UGC-Human Resource Development Centre, University of Calcutta during January 13-19, 2024.
- Prof. Anjali Karmakar has received the Best Paper Award at the National Seminar on Contemporary Legal Aspects of Human Rights: Its Issues and Futuristic Trends; organised by Amity University, Kolkata on 10th November, 2023.
- Prof. Anjali Karmakar presented Paper in the National Seminar on Contemporary Legal Aspects of Human Rights: Its Issues and Futuristic Trends; organised by Amity University, Kolkata on 10th November, 2023.
- Prof. Sreya Chakraborty participated in 5 Days Faculty Development Programme on "Dynamic Shifting of legal Education & Teaching techniques in the light of NEP" organized by Techno India University, from 14th August to 19th August 2023.
- Prof. Sreya Chakraborty attended a National Faculty Development Program on Indian Criminal Justice Administration read with New Major Criminal Law Bills Proposed organized by School of Law, Sathyabama Institute of Science and Technology from 9th October, 2023 to 14th October, 2023.
- Prof. Sreya Chakraborty participated in International Webinar on “Generative AI with ChatGPT” organized by Department of Research and Publications, A2Z Edu-LearningHub LLP on 23rd October, 2023.
- Prof. Sreya Chakraborty presented a paper titled “Digital technological advancement and human rights in the contemporary world” in the “One Day National Seminar on Contemporary Legal Aspects of Human Rights: Issues and Futuristic Trends” organized by Amity Law School, Kolkata in collaboration with Jorhat Law College Assam on 10th November, 2023.
- Prof. Sreya Chakraborty participated in the 5-Day Faculty Development Program on Changing Dimensions of Criminal Law in India organized by Department of Law, UEM Kolkata in association with HRDC, IEM-UEM Group held from 8th July, 2024 to 12th July, 2024.
- Prof. Sreya Chakraborty participated in 5-Day Online Faculty Development Programme on "Experiential Learning in Legal Education: Bridging Theory and Practice," organized by Amity Law School, Amity University, Kolkata, from 8th to 12th July 2024.
- Prof. Rituparna Mullick attended 6 Days Faculty Development Programme on "Dynamic Shifting of legal Education & Teaching techniques in the light of NEP" organized by Techno India University, from 14th August to 19th August 2023.

- Prof. Rituparna Mullick participated in a Seminar on “Legal Aid to Prisoners- involvement of Law students” organised by Department of Legal Science, Techno India University West Bengal in collaboration with on Correctional Services, West Bengal on September 20, 2023.
- Prof. Rituparna Mullick participated in a Webinar on "Unlocking the practical approach of law" organised by Association of Indian Students (AIS) in collaboration with Department of Legal Science, Techno India University West Bengal on October 7, 2023.
- Prof. Rituparna Mullick participated in the 5-Day Faculty Development Program on Changing Dimensions of Criminal Law in India organized by Department of Law, UEM Kolkata in association with HRDC, IEM-UEM Group held from 8th July, 2024 to 12th July, 2024.
- Prof. Rituparna Mullick participated Webinar on "Same Sex Marriage- a legal conundrum" organised by All India Human Rights Association (AIHRA) in collaboration with Department of Legal Science, Techno India University West Bengal on 10th February, 2024.
- Prof. Srijani Ghosh participated in the 6 Days Faculty Development Programme on "Dynamic Shifting of legal Education & Teaching techniques in the light of NEP" organized by Techno India University, from 14th August to 19th August 2023.
- Prof. Vaishnavi Sharma participated in a 5 days Faculty Development Program on “Contemporary Approaches to Legal Research” organized by School of Law, Hindustan Institute of Technology and Science, held from 13th February 2024 to 20th February 2024.
- Prof. Mrityika Sengupta participated “One week Online Executive Development Program (EDP) on Quality Education, Gender Equality, and Strong Institutions (SDGs 4, 5, 10 &16) “Empowering Change towards Sustainability and Equality in Higher Education” held from July 29th to August 02nd, 2024., jointly organized by Department of Law (A&S), Manipal University Jaipur and Law Teachers India.
- Prof. Mrityika Sengupta participated “One Day Workshop (Hybrid) on Welcoming India’s New Criminal Code” held on 1st July, 2024, organized by National Law University, Meghalaya.
- Prof. Mrityika Sengupta participated. “Reporting Child Sexual Abuse (CSA): A Cross-National Study of Impacts of Socio-Legal Culture and Intersectionality in India and the UK.”; International Conference by Royal Holloway University of London, UK, Department of Law and Criminology, 18th June – 19th June 2024.
- Prof. Mrityika Sengupta participated “Global Crime Prevention, Justice and Criminal Victimization”; International Conference by International Institute of Justice and Police Sciences (IIJPS) in collaboration with South Asian Society of Criminology and Victimology (SASCV), 16th March -17th March 2024.
- Prof. Mrityika Sengupta participated “From Silence to Solidarity: Amplifying Women’s Rights in the Human Rights Discourse”; International Webinar by Department of International Law, HWPL (Heavenly Culture, World Peace, and Restoration of Light) Global 03 Branch collaboration with Bangalore University, 10th February 2024.
- Prof. Mrityika Sengupta participated “Same Sex Marriage: A Legal Conundrum Webinar by Techno India University in collaboration with the ‘All India Human Rights Association, 10th February 2024.
- Prof. Mrityika Sengupta participated “Prison Counselling and Correctional Psychology”; International Seminar by International Institute of Justice & Police Sciences (IIJPS), 4th – 5th November 2023.
- Prof. Mrityika Sengupta participated, 5 days Online Faculty Development Program on “Experimental Learning in Legal Education: Bridging Theory and Practice” organized by Amity Law School, Kolkata, West Bengal, held from 08th July to 12th July 2024.

- Prof. Mrityika Sengupta participated, 5 days National Faculty Development Program on “A.I. and Education” organized by DJ Academy of Research and Innovations, held from 11th March 2024 to 15th March 2024.
- Prof. Mrityika Sengupta participated, 5 days Faculty Development Program on “Contemporary Approaches to Legal Research” organized by the School of Law, Hindustan Institute of Technology and Science, held from 13th February 2024 to 20th February 2024.
- Prof. Sreeparna Chakraborty participated, 5 days Faculty Development Program on “Contemporary Approaches to Legal Research” organized by the School of Law, Hindustan Institute of Technology and Science, held from 13th February 2024 to 20th February 2024.
- Prof. Sreeparna Chakraborty participated, One-week Online Faculty Development Programme on “Navigating the Research Landscape; Exploring Advance Method in All Subjects in India”, organized by Faculty of Law, Ramakrishna Dharmarth Foundation University, Bhopal (MP), held from 4th to 9th March 2024.
- Prof. Sreeparna Chakraborty participated, 5-day Faculty Development Programme on Changing Dimensions of Criminal Law in India, organized by Department of Law, UEM, Kolkata, in association with HRDC, IEM - UEM Group, held from 8th July to 12th July, 2024.
- Prof. Ekata Mukherjee assisted in organizing a 5 days Faculty Development Program on Dynamic Shifting of Legal Education and Teaching Techniques in the Light of NEP”, organized by the Department of Legal Science, Techno India University, West Bengal.", from 14th to 19th August 2023.
- Prof. Anjali Karmakar assisted in organizing a 5 days Faculty Development Program on Dynamic Shifting of Legal Education and Teaching Techniques in the Light of NEP”, organized by the Department of Legal Science, Techno India University, West Bengal.", from 14th to 19th August 2023.
- Prof. Sreya Chakraborty organized a Seminar on “Legal Aid to Prisoners- involvement of Law students” organised by Department of Legal Science, Techno India University West Bengal in collaboration with on Correctional Services, West Bengal on September 20, 2023.
- Prof. Sreya Chakraborty organized a Webinar on "Unlocking the practical approach of law" organised by Association of Indian Students (AIS) in collaboration with Department of Legal Science, Techno India University West Bengal on October 7, 2023
- Prof. Sreya Chakraborty organized a Webinar on "Same Sex Marriage- a legal conundrum" organised by All India Human Rights Association (AIHRA) in collaboration with Department of Legal Science, Techno India University West Bengal on 10th February, 2024
- Prof. Sreya Chakraborty organized a Two Day National Seminar on “Contemporary issues and challenges in the Environmental legislation in the current decade (2020-2029” on 23rd and 24th February, 2024.
- Prof. Sreya Chakraborty organized an Online Workshop on "Legal Research and Academic Writing" in collaboration with Beyond Briefs Law Review, organized a highly successful online workshop on "Legal Research and Academic Writing" on 25th May, 2024.
- Prof. Rituparna Mullick coordinated the Two Day National Seminar on “Contemporary issues and challenges in the Environmental legislation in the current decade (2020-2029” on 23rd and 24th February, 2024.

### **Publications (Books / Articles / Papers / Journals)**

- Dr. Debashree Chakraborty edited the proceedings of the Two-Day National Seminar on Contemporary Issues and Challenges in Environmental Legislations in the Current Decade (2020-2029) titled, “Two Days National Seminar on Contemporary Issues and Challenges in Environmental Legislations in the Current Decade (2020-2029)” ISBN: 978-81-970856-5-9 Year: 2024 Date: 31/05/2024 Published by: Lex Assisto Media & Publications.

- Prof. Upasana Ghosh edited the proceedings of the Two-Day National Seminar on Contemporary Issues and Challenges in Environmental Legislations in the Current Decade (2020-2029) titled, "Two Days National Seminar on Contemporary Issues and Challenges in Environmental Legislations in the Current Decade (2020-2029)" ISBN: 978-81-970856-5-9 Year: 2024 Date: 31/05/2024 Published by: Lex Assisto Media & Publications.
- Prof. Ekata Mukherjee published a book chapter titled "Challenges of Biometric Data Collection of Offenders" in a book titled "Law in the Age of Disruptions: Understanding the Impact of Technology" with ISBN 978-81-964988-2-5.
- Prof. Sreya Chakraborty edited the proceedings of the Two-Day National Seminar on Contemporary Issues and Challenges in Environmental Legislations in the Current Decade (2020-2029) titled, "Two Days National Seminar on Contemporary Issues and Challenges in Environmental Legislations in the Current Decade (2020-2029)" ISBN: 978-81-970856-5-9 Year: 2024 Date: 31/05/2024 Published by: Lex Assisto Media & Publications.
- Sengupta. M, 2024, Article Titled 'Challenges of Age Restrictions in Indian Surrogacy Law: Evaluating Constitutional Rights for Intended Couples',-(Published on May 2024, ISBN: 978-93-340-3152-2, by 'The Law-way with Lawyers Journals' in the book 'Emerging Trends in Legal Jurisprudence: Exploring Evolving Concepts and Practices').
- Sengupta. M, 2024, Article Titled 'Protecting the Cradle of Life: Exploring Eco-feminism's Embrace of Pregnant Women in the face of Indian Environmental Degradation', (Published May 2024- ISBN: 978-81-970856-5-9), by 'Lex Assis-to Media and Publications.' In the book 'Contemporary Issues and Challenges in Environmental Legislations in the Current Decade 2020-2029').
- Sengupta. M, 2024, Article Titled 'Evolution of Indian Criminal Laws: From Pre-British Era to the 21st Century- A Transition' (Published July 2024-ISBN: 9-788197-383427), by 'Juris Cognita Publications' in the book 'Emerging Crimes and Legal Responses 2023 Legislative Highlights').
- Sengupta. M, 2024, Article Titled 'Combatting Illicit Trade in India: Addressing the Threat of Transnational Organized Crime Networks' - (Published by Walnut Publication in the book 'Exploring the Depth of Criminology in the Contemporary Era', July 2024- ISBN: 978-935911251-0).
- Sengupta. M, 2024, Article Titled 'Bridging the Gap: Solutions for Employment and Accessibility Challenges Faced by Individuals with Autism Spectrum Disorder' (Published May 2024- ISSN: 2584-1106), by 'The Law way with Lawyers Journals').
- Sengupta. M, 2024, Article Titled 'Law and Literature inter-wined: The Enduring Relevance of Legal Themes in Arthur Conan Doyle's Sherlock Holmes for Modern Criminal Justice' (Published in Volume 2, Issue 7, July 2024, ISSN: 2583-973X), by 'The Academic – International Journal of Multidisciplinary Research'.
- Sreeparna Chakraborty, 2024, Article Titled 'Aquatic Life in Peril: The Dare Threat of Water Pollution', (Published May 2024- ISBN: 978-81-970856-5-9), by 'Lex Assis-to Media and Publications.' In the book 'Contemporary Issues and Challenges in Environmental Legislations in the Current Decade 2020-2029').

## Departmental Events

- 5 Days Faculty Development Programme on "Dynamic Shifting of legal Education & Teaching techniques in the light of NEP" organized by Techno India University, from 14th August to 19th August 2023.
- Seminar on "Legal Aid to Prisoners- involvement of Law students" organised by Department of Legal Science, Techno India University West Bengal in collaboration with on Correctional Services, West Bengal on September 20, 2023.
- Webinar on "Unlocking the practical approach of law" organised by Association of Indian Students (AIS) in collaboration with Department of Legal Science, Techno India University West Bengal on October 7, 2023.
- Dumdum Central Correctional Home visits on 10th October, 2023.
- Guest lecture by Prof. (Dr). Prem Kumar Agarwal from Burdwan University, West Bengal on 22nd Nov 2023 on account of Constitutional Day 2023.
- Annual meet of Department of Legal Science "Ad idem 2.0" on 27th November, 2023.

- Educational trip (Supreme Court Visit) by Department of Legal Science Techno India University West Bengal from 28th November, 2023 to 1st December, 2023.
- Webinar on "Same Sex Marriage- a legal conundrum" organised by All India Human Rights Association (AIHRA) in collaboration with Department of Legal Science, Techno India University West Bengal on 10th February, 2024
- Two Day National Seminar on "Contemporary issues and challenges in the Environmental legislation in the current decade (2020-2029" on 23rd and 24th February, 2024.
- Outdoor legal aid camp on "Exploring the Interplay of Gender and Mental Health" on the occasion of "International Women's Day 2024" organized by Centre For Women & Gender Studies and Department of Legal Science, Department of Legal Science Techno India University West Bengal at Ishwar Sankalpa on 9.3.2024 on the occasion of "International Women's Day 2024"
- Educational trip to Fort William Kolkata on 16th March, 2024
- An Online Workshop on "Legal Research and Academic Writing" in collaboration with Beyond Briefs Law Review, organized a highly successful online workshop on "Legal Research and Academic Writing" on 25th May, 2024

### **List and details of Achievement (Academic and Non-Academic) of the students, faculty/staff members**

- Prof. Rituparna Mullick coordinated Dumdum Central Correctional Home visit on 10th October, 2023
- Prof. Rituparna Mullick organised Educational trip to Fort William Kolkata on 16th March, 2024
- Prof. Anjali Karmakar coordinated in Smart India Hackathon, 2024 organised in Techno India University, WB.
- Prof. Anjali Karmakar, Assistant Professor, Department of Legal Science received Best Paper Award on National Seminar on Contemporary Legal Aspects of Human Rights: Its Issues and Futuristic Trends; organised by Amity University, Kolkata on 10th November, 2023.
- Prof. Upasana Ghosh, Assistant Professor of Law, Techno India University, West Bengal received Best Paper Presentation Award in the Two-Day National Conference on Environmental Degradation, Social Change Development and the Youth- NATCON YOUTH dated 25th -26th April 2024, organized by The Sociology, Rajiv Gandhi National University of Law, Punjab in collaboration with Punjab Pollution Control Board, Punjab.
- Sumit Singh (BBA-LLB 1st Year) Acquired Winner position in the debate competition on "The Criminal Laws are lopsided in favour of women, thus propagating gender disparity" on 2nd May 2024.
- Ishika Sharma (LLB 1st Year) acquired 2nd Runner Up Position in the debate competition on "The Criminal Laws are lopsided in favour of women, thus propagating gender disparity" on 2nd May 2024.
- Abhiroop Sengupta (LLB 1st Year) acquired 1st Runner Up Position in the debate competition on "The Criminal Laws are lopsided in favour of women, thus propagating gender disparity" on 2nd May 2024.
- Akansha Mukhopadhyay, (BALLB 2nd Year) achieved 1st Runner up Position in the debate competition on "The Criminal Laws are lopsided in favour of women, thus propagating gender disparity" on 2nd May 2024.
- Samiksha Thakur, (BALLB 2nd Year) achieved 2nd Position in Reel Making Competition on "Role of Youth in Protection of Environment", organized by The Department of Legal Science, Techno India University, West Bengal, dated 10th June 2024.
- Sharanya Sinha (BBALLB 3RD YEAR) achieved 3rd position in the Alternative Dispute Resolution quiz organized by Jus Scriptum on 12th May 2024.
- Sharanya Sinha (BBALLB 3rd Year) Achieved 2nd position in The Poster Making Competition on the Occasion of World Environment Day, organized by The Institution Innovation Council and School of Architecture, Techno India University, West Bengal, dated 5th June 2024.

- Sharanya Sinha (BALLB 3rd Year) Achieved 1st position in The Poster Making Competition on “Role of Youth in Protection of Environment”, organized by The Department of Legal Science, Techno India University, West Bengal, dated 10th June 2024.
- Sharanya Sinha (BALLB 3RD YEAR) achieved 1st position in the Intellectual Property Rights quiz organized by Jus Scriptum dated 13th July 2024.
- Sharanya Sinha (BALLB 3RD Year) published an artwork submitted in the blog – The Musing of The Department of Law, University of Calcutta, dated 17th August 2024.
- Sujoy Paul (BBA LLB 4th Year) Book Chapter, published titled ‘Death Penalty in Rape Cases: Analysis of Nirbhaya Case 2020’ on Book Title " Emerging Crime and Legal Response; 2023 Legislative Highlights" ISBN Number: 978-81-973834-2-7, Juris Cognita.
- Barna Samanta (BALLB 4th Year) Book Chapter, published titled ‘Hindu Personal Laws: Need to Reform’ on Book Title Laws Relating to Marriage, Separation, Divorce and Maintenance’ ISBN Number: 13:979-8-89-133092-4. Notion Press.

## *Department of Economics*

### **Departmental Achievements**

#### **Participation in International/National Seminars, FDPs, Workshops and Conferences**

- Dr. Pritha Kundu has presented paper on An approach of Sustainable Urban Development in Urban Maharashtra during 1991-2011 in the International Conference held at Swami Vivekananda University, Barrackpore during 22nd-24th February, 2024)
- Dr. Pritha Kundu has participated in the International Conference on Innovation and Sustainability: Research and Practice in St. Xavier’s University, Kolkata from 22nd to 23rd March.
- Dr. Pritha Kundu has attended faculty development programme on Advance Tools and Techniques for Research Methodology organized by Research Foundation of India during 4-13 September, 2023
- Dr. Pritha Kundu has attended faculty development programme on Research Paper writing organized by B K Birla Institute of Higher Education 25 November – 02 December, 2023
- Dr. Pritha Kundu has attended faculty development programme on research Methodology, Publication and Ethics during 10-19th December, 2023
- Prof. Aryaman Roy has participated in Research Scholars Workshop (RSW) at the Department of Economics, Calcutta University from 2nd to 3rd February, 2024.

#### **Publications (Books / Articles / Papers / Journals)**

- Dr. Pritha Kundu published "Effect of Unemployment on Economic Growth, Urbanization and Migration in India During 1991-2011: A Time-Series Analysis and Panel Data Analysis." Issues in Indian Economic Development: Trends, Effects, Challenges and Measures, April, 2024, pp.26-40.
- Dr. Pritha Kundu has presented paper on “Trends and Pattern of Urbanisation and Urban In-migrants in West Bengal During 1991-2011: A District-Wise Analysis” at 43rd Annual Conference 2024 of Centre for Urban Economic Studies, University of Calcutta on 9th February, 2024.

#### **List and details of Achievement (Academic and Non-Academic) of the students, faculty/staff members**

- Ritwika Das, of Economics department has participated in different fashion shows and dancing activities in different programs of Techno India University and other different venues on behalf of Techno India University.
- Aishini Banerjee, of Economics department has participated in the Creative Writing Event “Alchemy in Ink”, that is organized by The English Academy on Literaria 2023.

# *The Library*

To meet the academic and research needs of students, scholars, and faculties, the Central Library of Techno India University was established in 2012. The University Library System comprises of the Central Library along with the departmental libraries. Techno India University Library is fully automated with Web OPAC, Current Awareness Service (CAS), SDI (Reference Services) facilities.

The Library shelving space, reading space and working space is about 4,560 sq. ft. (approx). The reading room has seating arrangement for about 100 readers at a time. The University Library has a large collection of books covering all fields of science, engineering, management, nursing, pharmacy, law, architecture, humanities, commerce, art and design. The library's collection of resources includes 76399 print books, 47 print journals, 05 popular magazines (Three English & Two Regional), 06 news papers (Five English & One Bengali), 02 employment related papers (One National & One Regional), 01 Yearbook, 03 electronic databases. The books are classified according to the 23rd Edition of Dewey Decimal Classification scheme and it is arranged subject wise. All the books are bar coded.

The Central Library has a subscription of IEEE, ProQuest full Management database, EBC Reader and Manupatra. Students, faculties and staff can access the digital library of Techno India University (TIU) through Knimbus. Through this digital library platform user of TIU Library can go through the rich collection of proceedings, standards, online journals and eBooks by accessing Bloomsbury, IEEE, JSTOR, Knimbus Open ebooks, Knimbus Multimedia, Knimbus Open Journals, ProQuest, PubMed, ScienceDirect etc. There is an internet zone with 10 computers to enable students to freely browse on the internet and do self-study. A separate thesis and dissertation collection provides an appropriate environment for literature survey and research review.

The library has about 76400+ collections of books. The total number of books added during the period of August 2023 to July 2023 was 5501. The total number of books issued is 20907 and returned is 24861. At present the total number of active members are 8150 on record.

The Library is automated using Integrated Library Management System (ILMS), LIBSYS since 2016. This automation offers many opportunities to improve service to the library users (staff, students and faculty members). All day-to-day library functions like circulation, cataloguing and barcode generation are done through LIBSYS. The various housekeeping activities of the library such as data entry, issue, return and renewal of books etc are done through the LMS. The system utilizes a bar code scanner which records and automates all library transactions. OPAC (Online public access catalogue) service is also provided by the library to search the library collection by title, author, publisher, subject, keywords etc.

- Riya Datta, Librarian, HOD, has published a research Paper "Revolutionary impact of German Printing Work on Civilization: A Critical Analysis" in the International Journal of Research and Analytical Reviews (IJRAR), E-ISSN:2348-1269, P-ISSN:2349-5138 in April, 2024, Volume 11, Issue 2, Page No. 733-740, [https://ijrar.org/viewfull.php?&p\\_id=IJRAR24B1746](https://ijrar.org/viewfull.php?&p_id=IJRAR24B1746).

# The Placement Cell

We are really thankful to all our esteemed recruiters who have recruited our students for their organization. We look forward to their continuous support in the coming years ahead. A partial glimpse of the recruiters who have recruited our students.



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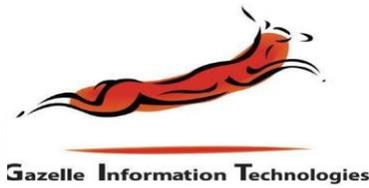


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HOSPITALS

❖ TCS Training Program (August, 2023)



❖ Seminar on “Mentoring & Roles in student transformation” (October, 2023)



❖ An interactive session with Vodafone. (October, 2023)



❖ EduSkills Connect 2023. (November, 2023)



❖ TCS workshop with 1st year students. (December, 2023)



❖ VASP Infotech Campus-Drive (April, 2024)



❖ TCS Campus Readiness Interaction (April, 2024)



## *Counselling Cell*

"Everyone Is Going Through Something"

- Kevin Love

The journey of Deepika Padukone battling depression is familiar to all. Her decision to speak openly about her mental health struggles was groundbreaking in a society where mental health issues are often stigmatised and ignored. It strongly pinpointed that anyone, regardless of their fame or status, can experience mental health challenges and benefit from mental health support. Young people in today's world are increasingly experiencing mental health problems, making early intervention and support essential now more than ever. Of course there are roadblocks in accessing support and treatment.

The ongoing stigma attached to mental health problems is one of the main reasons why young people are reluctant to seek professional help. "Log kya kahenge" or "Ami ki pagol" are common narratives that portray that those who express that they have mental health issues are weak or defective. This unfavourable opinion deters people from asking for assistance, which may result in increasing one's suffering.

In order to solve this problem, we need to act at an individual level by simply being careful about how we respond to people with emotional distress. The very basic thing that we could do is to listen rather than invalidate the person's suffering. Saying things like "Oh it's nothing, it's just a passing phase" or "Your suffering is nothing. There are so many people living through adversity" can do more harm than good. The need to be sensitive to people's distress could be the first step towards de-stigmatizing mental health issues and create an atmosphere in which asking for assistance is viewed as a sign of strength.

The next important step to address mental health concerns among the youth is to integrate mental health education into the curriculum. Many institutions like our university have resources available to help the students in distress. Monoshij the mental health wing founded by Prof. Manoshi Roy Chowdhury (co-chairperson of Techno India Group) caters to the psychological needs of students by providing psychotherapy and counselling services. The in-house

psychologists assist the students who reach out to become aware and understand their own mental health. The students also benefit from resolutions to their concerns.

Often taking the step to see a mental health professional is brave of a person as one might feel uncertain about what would happen in the consultation session. After all, it's not like visiting a doctor for a physical ailment. When one visits a psychologist one would be discussing their concerns in a safe and non judgemental space and get insights as to what further actions one might need to take to feel emotionally better. Sometimes along with speaking to a counsellor or therapist one might need medications just like for any physical health issue which are provided by psychiatrists.

Encouraging young people to seek mental health assistance is crucial for both their general wellbeing and the advancement of society. In order to do this, it is critical to address the stigma associated with mental health, increase awareness, make services easily accessible, and promote candid discussions. By working together, we can make a world in which young people have the confidence to ask for assistance when they need it, take charge of their mental health, and live happier, healthier lives.

- Aparupa Ojha  
Clinical Psychologist and Senior coordinator Counselor  
Monoshij

**Budding Minds!**  
**Student Rank Holders**

# Student Rank Holders

Top 3 Rank holder of all the First Year Students in Spring Semester 2024 Examination

Rank	Student ID	NAME	STREAM	Upto Semester	CGPA
1	231001009076	SRIJA GHOSH	B.Tech-BioTech	2	9.39
2	231001009008	PAULAMI CHATTERJEE		2	8.92
3	231001009086	MOOLA AKANKSHA		2	8.48
3	231001009036	SOUMILI SANYAL		2	8.48
1	231001002029	SHWETA BAGHIRA	B.Tech-ECE	2	8.98
2	231001002086	SHREYA SEN		2	8.69
3	231001002009	SHUBHODEEP BANERJEE		2	8.33
1	231001003010	ABHISHEK GUPTA	B.Tech-EE	2	7.58
2	231001003004	PINAK GHOSH		2	6.99
3	231001003009	SHRYASHI SAHA		2	6.59
1	231001004018	ANWESHA SITT	B.Tech-ME	2	6.38
2	231001004003	DEBJIT GOSWAMI		2	6.30
3	231001004006	ARITRA JANA		2	5.98
1	231001005002	SAMIRUL ISLAM DHALI	B.Tech-CIVIL	2	5.97
2	231001005009	SARFARAZ ANSARI		2	5.80
3	231001005008	GULAM WARISH		2	5.69
1	231001020038	TATHAGATA KAR	B.Tech-CSBS	2	8.90
2	231001020008	ARADHYA DAM		2	8.80
3	231001020033	SAHIL AMAN		2	8.70
1	231001001183	RITAM CHATTERJEE	B.Tech-CSE	2	9.42
2	231001001421	SOUMASISH DASGUPTA		2	9.40
2	231001001201	KRISH JAISWAL		2	9.34
1	231003003121	AAYUSHMAN DUTTA	B.Tech CSE_AI	2	9.26
2	231003003131	ISHAN RAY CHAUDHURI		2	9.24
3	231003003120	SAYAN PAL		2	9.07

1	231001104047	SALONI SINGH	<b>B.Com(H)</b>	2		8.43
2	231001104003	MS. OJOSWITA DHARA		2		8.30
3	231001104065	PURBASHA PAUL		2		7.98
1	231001112045	ARIHA BOSE	<b>B.Sc IT-Cloud Technology &amp; Information Security</b>	2		9.28
2	231001112076	RITAM DAS		2		9.27
3	231001112090	SOUVONICK DAS		2		9.09
1	231002021027	SUPROVA MAJI	<b>B.Sc(H)-BioTechnology</b>	2		9.53
2	231002021010	RITTIKA SAHA		2		9.13
3	231002021065	ISHITA MANDAL		2		9.05

1	231002018029	KAJAL MISHRA	<b>B.Sc(H) - Microbiology</b>	2		8.99
2	231002018025	SHANYA SAHA		2		8.93
3	231002018041	CHANDRIMA BOSE		2		8.91
1	231002020004	SAUMILI SAMANTA	<b>B.Sc in Medical Laboratory Technology</b>	2		9.43
2	231002020008	AISHIK CHATTOPADHYAY		2		9.00
2	231002020011	SAMPA SAMANTA		2		9.00
3	231002020006	ARPITA KUNDU		2		8.15
1	231001150003	RITOJA DASGUPTA	<b>B.ARCH</b>	2		8.87
2	231001150014	RIFA KHATUN		2		8.77
2	231001150017	SANDEEP SARKAR		2		8.77
3	231001150015	SUMEDHA MOULIK		2		8.74
1	231001105112	MEGHA PATRA		<b>B.Sc(H)-Data Science</b>	2	
2	231001105028	SHREEYA PANDA	2			8.90
3	231001105115	ANUSREE ROY	2			8.65
1	231002008011	PRITHENDU SAM	BFA IN DIGITAL FILMMAKING & VFX	2		8.70
2	231002008034	BARNAK BRAHMA	BFA IN DIGITAL FILMMAKING & VFX	2		8.15
2	231002008022	SHUCHISMITA DATTA	BFA IN DIGITAL FILMMAKING & VFX	2		8.15
3	231002008014	BIKRAMJIT GOSWAMI	BFA IN DIGITAL FILMMAKING & VFX	2		8.05

1	231001018027	SIMRAN SARKAR	B.Pharm	2		9.36
2	231001018021	SHAKHI TALUKDER	B.Pharm	2		9.35
3	231001018024	MUSKAAN ROY	B.Pharm	2		9.33

1	231001501057	WOZAYER KABIR	BBA-LLB (H)	2		8.36
2	231001501025	URMI DAS	BBA-LLB (H)	2		8.15
3	231001501047	ARITRA MONDAL	BBA-LLB (H)	2		8.13

1	231001503016	AFRIN AKTAR	BA-LLB(H)	2		9.09
2	231001503019	DONA MUKHERJEE	BA-LLB(H)	2		8.69
2	231001503042	MONALISA SIL	BA-LLB(H)	2		8.69
3	231001503035	RITIKA CHAKRABORTY	BA-LLB(H)	2		8.57

1	231002010027	ANUTTOMA SEN	3 Years LLB	2		9.50
2	231002010018	DEVANSHI JOSHI	3 Years LLB	2		9.40
2	231002010008	ISHIKA SHARMA	3 Years LLB	2		9.40
3	231002010016	SHARMISTHA CHATTERJEE	3 Years LLB	2		9.20
1	231001021003	ANIMESH NAG	6 Y B.Tech-CSE	2		8.40
2	231001202002	SOURJYA GUPTA	Diploma-CSE	2		8.29
3	231001201025	SURJANI BHATTACHARJEE	Diploma-CSE	2		8.07

1	231001206001	AASTHA SINGH	Diploma-ECE	2		7.50
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1	231001202001	DIPENDU DAS	Diploma-CIVIL	2		5.93
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1	231002027011	MYRAH HAIDER	B.Sc(H)-Psychology	2		8.45
2	231002027013	AQSA ALI MULLICK	B.Sc(H)-Psychology	2		8.08
3	231002027016	KAUSHIKI GANGULY	B.Sc(H)-Psychology	2		7.90

1	231002028004	RASHMIKA PANDEY	BA(H) Psychology	2		7.60
2	231002028003	SRIJAYEE BHATTACHARYA	BA(H) Psychology	2		7.53
3	231002028005	SAMPURNA SRIMANI	BA(H) Psychology	2		6.53

1	231001102004	ANKIT NANDI	BCA (H)	2		9.45
2	231001102131	SAYANI SENGUPTA	BCA (H)	2		9.28
3	231001102476	NAYAN SARAOGI	BCA (H)	2		9.22

1	231001101076	SOUMYABRATA DHAR	BBA(H)	2		8.88
2	231001101297	ANUSKA DAS	BBA(H)	2		8.80
2	231001101440	TANAY KEDIA	BBA(H)	2		8.80
3	231001101273	SUSAPTA GHOSH	BBA(H)	2		8.78

1	231002019011	WRITABAN DATTA	BA(H) - English	2		6.83
2	231002019012	SHALINI BISWAS	BA(H) - English	2		6.65
3	231002019005	SREYA MITRA	BA(H) - English	2		6.15

1	231002016001	AISHINI BANERJEE	B.Sc(H)-Economics	2		7.25
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1	231007004002	RIDDHIMAN PAUL	Bachelors in Digital Product Design	2		8.89
2	231007004005	SANJANA SINGHA ROY	Bachelors in Digital Product Design	2		8.39
3	231007007001	TANUJ DHAR	Bachelors in Digital Product Design	2		8.33

1	231007007005	RADHIKA AGARWAL	Bachelor in Visual Communication & Digital Design	2		8.96
2	231007007002	SAI SHRUTI PANDA	Bachelor in Visual Communication & Digital Design	2		8.60
3	231007007015	DEBANJALI MANDAL	Bachelor in Visual Communication & Digital Design	2		8.02

1	231007007010	TANISH GAMI	Bachelor in Game Arts & Design	2		7.48
2	231007004006	VIRAJ	Bachelor in Game Arts & Design	2		7.41
3	231007004003	AKSHAAN SENGUPTA	Bachelor in Game Arts & Design	2		6.96

1	231001701015	BHAWNA GARG	M.Sc -Bio Tech	2		9.38
2	231001701010	SRIPARNA ROY	M.Sc -Bio Tech	2		9.25
3	231001701018	ARSHI AKHTAR	M.Sc -Bio Tech	2		9.19

1	231001313004	MANJIMA SENGUPTA	M.Tech-BioTech	2		8.71
2	231001313003	IPSITA MAJUMDER	M.Tech-BioTech	2		8.66
3	231001313001	PALLABI DAS	M.Tech-BioTech	2		8.05

1	231001307002	RAGHUNATH MULLICK	M.Tech-ME	2		7.40
2	231001307003	SOMYADEEP GUIN	M.Tech-ME	2		7.15

1	231001891002	ABHIJIT SALUI	M.Sc-Oceanography	2		8.84
2	231001891001	SAANIYA IBRAHIM	M.Sc-Oceanography	2		8.04

1	231001771005	BRISTI DEBNATH	B.Sc.(H) Hotel and Hospitality Management	2		8.05
1	231001771014	ABHIMITA DUTTA	B.Sc.(H) Hotel and Hospitality Management	2		8.05
2	231001771006	RAISREE DAS	B.Sc.(H) Hotel and Hospitality Management	2		7.90
3	231001771002	ESHA SAHA	B.Sc.(H) Hotel and Hospitality Management	2		7.63

1	231001708009	DEVDEEP MAJUMDAR	LLM	2		9.30
2	231001708008	PRITY MODI	LLM	2		9.20
3	231001708005	BISHAL DEY	LLM	2		5.30

1	231001704005	PURBA NANDY	M.A - English	2		8.50
2	231001704004	PRATIK SHARMA	M.A - English	2		7.75
3	231001704002	PRIYANKA SARKAR	M.A - English	2		7.25

1	231005005001	SUBHRAJIT SAHOO	M.Pharm	2		7.62
2	231005005008	SOUMEN CHOWDHURY	M.Pharm	2		6.92
3	231005005005	ARPAN DEY	M.Pharm	2		5.85

1	231001706001	PEKHAM GANGULY	M.Sc-Applied Geology	2		8.30
2	231001706002	PRERONA GOSWAMI	M.Sc-Applied Geology	2		7.98

1	231001302001	DISHANI BASU	M.Tech-ECE	2		8.00
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1	231001305003	TANUSRI DUTTA	M.Tech - CE	2		8.97
2	231001305005	ARYA CHAKRABORTY	M.Tech-CIVIL	2		6.65

1	231001401001	ADITYA CHAKRABORTY	MBA	2		8.69
2	231001401036	SNIGDHA NATH	MBA	2		8.63
3	231001401020	NEHA KUMARI	MBA	2		8.59

1	231001710015	JAHID HOSSAIN	M.Sc - Microbiology	2		9.37
2	231001710001	RITISA PARAMANIK	M.Sc - Microbiology	2		9.10
3	231001710019	MAHAFUJA RAHAMAN	M.Sc - Microbiology	2		8.97

1	231001271028	ISHANI KARMAKAR	MCA (2 Years)	2		9.63
2	231001271021	ARATRIKA DEY	MCA (2 Years)	2		9.58
3	231001271119	MONISHA DAS	MCA (2 Years)	2		9.56

1	231001709007	PRITAM PRADHAN	M.Sc-IT- Cloud Technology & Information Security	2		9.23
2	231001709004	SARINYA PANDIT	M.Sc-IT- Cloud Technology & Information Security	2		9.16
3	231001709003	SOUMYAJIT GUHA	M.Sc-IT- Cloud Technology & Information Security	2		9.05

1	231001703001	PRIYA SARKAR	M.Sc -Chemistry	2		9.40
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1	231001702001	SUGATA BISWAS	M.Sc -Physics	2		8.30
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1	201001051001	SUBHRANIL PAUL	5 Y B.Tech-M.Tech-CSE	8		7.96
2	231001303003	BIKRAM BASAK	M.Tech-CSE	2		7.31
3	231001303004	DINESH KUMAR BAGLA	M.Tech-CSE	2		7.31

1	231002051002	TIASA MAL	Masters in Advertising, Design and Digital Communication	2		9.79
2	231002051004	ANISHA SHARMA	Masters in Advertising, Design and Digital Communication	2		8.86

1	231006002051	NIDHI JAISWAL	D.Pharm	PART I		792
2	231006002008	AYANTIKA MAITY	D.Pharm	PART I		791
3	231006002070	APSARA KHAN	D.Pharm	PART I		783

# Office of the International Programmes

## Overview:

The Office of International Programs at Techno India University, West Bengal, is a vibrant and essential hub that connects our institution to the global stage. With a commitment to fostering cross-cultural exchanges and enhancing the educational experience for students, this office plays a pivotal role in promoting international collaboration and understanding. Whether it's facilitating student exchanges, coordinating international workshops, or hosting visiting scholars, the Office of International Programs ensures that our university remains a beacon of global engagement. Through their efforts, students at Techno India University gain valuable insights into diverse cultures, world perspectives and a truly global education.

## Offerings:

The Office of International Programs at Techno India University in West Bengal offers a wide array of opportunities for students to explore and engage with the global community. With partnerships and collaborations across 29 countries, our offerings include:

- Study Abroad Programs:** Students have the chance to immerse themselves in international academic experiences, attending partner universities across the globe earning credits towards their degrees.
- Exchange Programs:** Techno India University facilitates student exchanges with universities in 29 countries, allowing for cultural immersion and academic exchange.
- Internships and Work Abroad:** The office provides resources for students to find internships and work opportunities overseas, gaining valuable international work experience.
- Language and Cultural Immersion:** Students can participate in language courses and cultural programs to enhance their understanding of different societies and languages.
- Research Collaborations:** The office fosters research collaborations and partnerships with universities and institutions worldwide, promoting academic growth.
- Global Networking:** Students can join a global network of alumni and peers, connecting with like-minded individuals from diverse cultural backgrounds.
- International Conferences and Events:** The office organizes and supports participation in international conferences, fostering intellectual exchange and networking opportunities.
- Scholarships and Funding:** To make international opportunities accessible, the office assists students in finding scholarships and financial aid options.
- Support and Resources:** They offer guidance on visa applications, housing adjusting to life in a foreign country; ensuring students have a smooth transition.

## Events & Activities:

- ❖ Techno India Group felicitated Baroness Jenny Jones as she graciously presented the GSOE Global Award, recognizing her support for the cultural heritage of Bengal in the UK. A heartfelt thanks to Heritage Bengal Global for this wonderful initiative, celebrating Durga Puja organizations for their dedication to keeping our traditions alive overseas.



Techno India Group felicitated Baroness Jenny Jones

- ❖ Our MBA students at ASMi Business School recently returned from an unforgettable study tour to Malaysia! They explored the dynamic business environment at INTI International University, where they engaged with industry experts, participated in insightful sessions, and applied their classroom learning to real-world business challenges.





Beyond the academic exposure, the students were immersed in Malaysia's vibrant culture. They visited iconic heritage sites, discovering the historical and architectural significance of the country. Their journey also included a visit to the renowned Royal Selangor Pewter factory, where they learned about the intricate craft of pewter-making, and Barleys Chocolate Factory, where they gained insights into the chocolate production process.

From networking with professionals to exploring bustling local markets and experiencing the country's unique traditions, this study tour was an all-encompassing blend of education, culture, and hands-on business learning. It provided our students with a holistic experience, broadening their global perspectives and deepening their understanding of the international business world.

- ❖ Techno India Group Alumni Meet in London! Connect with fellow alumni and meet Meghdut Roychowdhury, our Executive Director & Chief Innovation Officer. Let's share experiences and create new memories.

**Techno India Group**  
**ALUMNI MEET IN**  
**LONDON**

At the  **LONDON mahotsav 2024**

 **Meet & Greet-**  
**Meghdut Roychowdhury**  
Executive Director & Chief Innovation Officer,  
Techno India Group

Scan & Register  


## Alumni Meet - At London

- ❖ Techno India University and Daffodil International University-DIU have cultivated a remarkable partnership over the years. Recently, our Executive Director & Chief Innovation Officer, Meghdut Roy Chowdhury embarked on an inspiring visit to DIU in Dhaka, Bangladesh. Together, we're pioneering transformative initiatives in emerging technologies, entrepreneurship, and skill enhancement for the greater good. Proud to announce the signing of multiple MoUs, fueling our commitment to collaborative excellence.



Techno India University \* Daffodil International University

- ❖ Workshop by Dickie Currer: An engaging and interactive session was conducted for first-year tech students at Techno India University, covering diverse topics that combined inspiration, learning, and a touch of humor. The session featured:
  - **Entrepreneurial Insights:** A deep dive into the speaker's journey to becoming an entrepreneur, sharing practical tips for success in the ever-evolving tech landscape.
  - **Global Perspectives:** Stories from recent travels, highlighting emerging global innovation trends that are shaping industries worldwide.

**Australia: Myth vs. Reality:** A lively pop quiz and fireside chat exploring fun facts and the vibrant startup ecosystem of Australia. A humorous myth about Australians riding kangaroos to work sparked laughter and broke the ice.
- ❖ Workshop at Daffodile International University- Faculty of Business & Entrepreneurship, Daffodil International University-DIU organized a Plenary Session, where they discussed the challenges and opportunities of the Blue Economy, featuring esteemed speakers from academia and government sectors from Bangladesh 🇬🇧 & India 🇮🇳. Experts underscored the importance of marine-based economic development and resource utilization without harming the ecosystem. Professor Dr. Abhijit Mitra, Director (Research), Techno India University, West Bengal

- ❖ highlighted urbanization's impact on forests. Guests emphasized entrepreneurship's role in the blue economy for societal benefits, stressing economic sustainability and resource preservation. Policymakers emphasized collaborative efforts and scientific research to develop sustainable blue economy practices in Bangladesh and India.



- ❖ Mural By Charles Foussard: The Techno Main Campus unveiled a breathtaking mural by acclaimed French artist Charles Foussard, transforming a mundane wall into a cosmic masterpiece. The artwork, a vibrant interplay of faces, cosmic swirls, and particles, invites viewers to explore the mysteries of the universe and engage in thought-provoking conversations. The mural's inauguration was accompanied by an engaging masterclass for the design and art students of École Intuit Lab Kolkata Campus. Guided by Foussard, students learned about the nuances of conceptual art and the creative process behind large-scale murals.

This initiative was made possible through the invaluable partnership with Alliance Française du Bengale and the support of Nicolas Facino, fostering cross-cultural collaborations and celebrating the fusion of art and education.





- ❖ **Achievers Dialogue:** The Achievers Dialogues, organized by NISAU in collaboration with the British Council and supported by the UK Government, was a resounding success. The event provided a platform for participants to enhance their career prospects through a range of impactful activities like Employability Masterclass , Panel Discussions , University Exhibition & Networking. The event demonstrated a strong commitment to empowering individuals with tools and knowledge for achieving their professional aspirations. With diverse sessions and expert guidance, the Achievers Dialogues successfully left participants inspired and better equipped for their career journeys.



- ❖ **AUT Workshop - Techno India University** hosted a seminar on "Emerging Fields in Higher Education: Where to Focus in the Next Decade" conducted by Prof. Guy Littlefair, Pro Vice-Chancellor of Auckland University of Technology. This collaborative initiative, organized by Techno India University, West Bengal, and Auckland University of Technology, was designed specifically for our faculty members, providing them with profound insights to enhance their understanding of future-ready education and the evolving global academic landscape.



❖ Alumni Meet - At Singapore

Techno India Group Alumni Meet. Special meet & greet session with the Hon'ble Vice Chancellor, Prof. (Dr.) Samiran Chattopadhyay.



# A Picture for Every Season!

## - Extra - Curricular Activities

### Fresher's Welcome

#### Enthusia 2023: Fun, Festive and Freshers

**Enthusia**, the Fresher's Day event of Techno India University, West Bengal, organized by the Cultural Club "Sanskaran", is the perfect launch platform that every new student needs to make all the right noises. Hosted on the **3<sup>rd</sup> of November 2023**, **Enthusia 10.0** was a great success.

The event began with an exciting welcome for the batch of 2023, ushering in their new chapter at the university. The hosts, brimming with enthusiasm, set the tone for the day as they introduced a series of incredible performances. The festivities kicked off with the 90 Seconds to Fame segment, where freshers from various performing domains showcased their unique skills in just 90 seconds. Each performance was a burst of creativity: the dancers set the stage on fire, the singers captivated with their voices, the actors delivered powerful dramatic expressions, and the musicians brought melodies to life in short but memorable acts. The audience cheered, excited to see so much talent in such a brief but impressive window of time.

Following this, the official classical dance team, Nrityaksha, graced the stage with a mesmerizing performance that blended multiple Indian classical dance forms, leaving everyone in awe with their grace, expression, and rhythm. The energy shifted to Desi Grooverz, a group of talented dancers who brought high-octane moves and infectious energy, igniting the crowd with their fusion of passion and precision.

Step Alpha followed with an unforgettable hip-hop performance, showcasing bold, fearless moves that embodied the essence of street dance. Their synchronized beats and rhythmic expression kept everyone on the edge of their seats. The audience was then serenaded by Swarakriti, the official singing team of TIU, whose harmonious tunes filled the air and touched the hearts of all present.

The Chitrakatha film society captivated everyone with a short cinematic performance, offering a glimpse into the world of storytelling through film. The drama team, Dhrobotara, followed with a powerful theatrical performance, using expressions and emotions to convey a gripping narrative that left a lasting impact.

The Phoenix fashion team took the stage next, showcasing stunning designs and creative styling in a high-energy fashion presentation that turned the spotlight on the art of fashion. The evening continued with Checkmate, the college's rock band, whose electrifying performance brought the energy to a new height with their hard-hitting music.

In between the performances, a video of the Techno India University, West Bengal sports team highlighted the university's vibrant sports culture, motivating freshers to participate in the many sports activities offered at TIU. Whether it was football, cricket, kabaddi, or badminton, the sports team invited everyone to be a part of the fun and action.

Enthusia 2023 was a dazzling display of the diverse talents at Techno India University, West Bengal. From classical dance to street hip-hop, music, fashion, drama, and rock, the event showcased the creative brilliance that thrives within the TIU community. It was a night of unforgettable performances that marked the beginning of an exciting journey for the freshers and brought the entire college together in celebration.

## Cultural Fest

### Sahotsava 2024

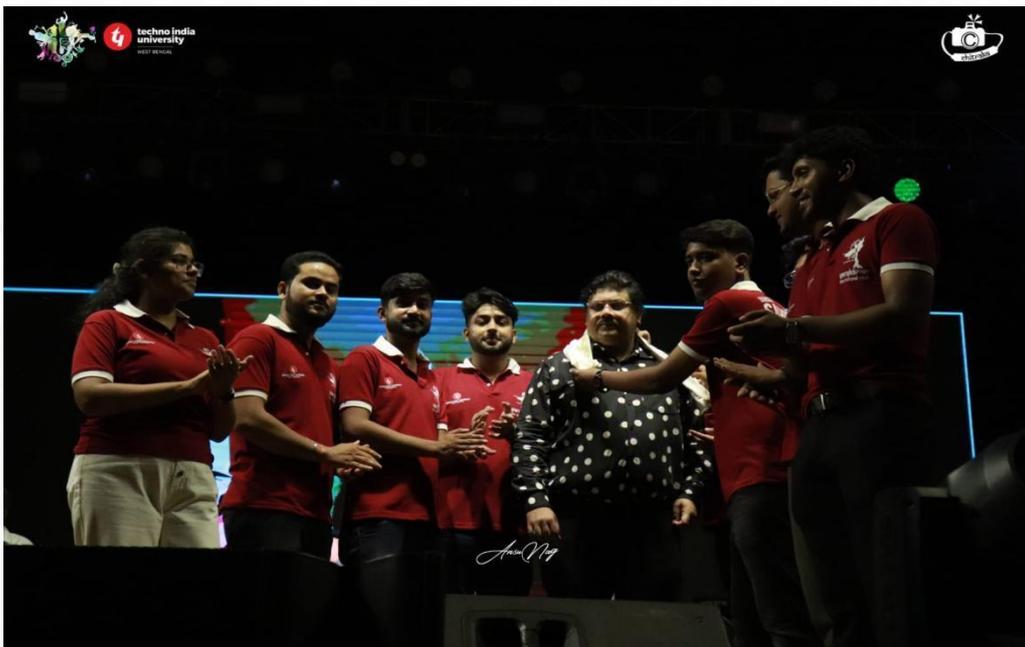
The cultural festival of Techno India University, West Bengal is an event for which every student waits eagerly. Techno Sahotsava 2024 took place from May 10 to May 13, 2024, culminating in an unforgettable final day featuring two spectacular performances. The event was filled with a blend of culture, creativity, and competition, igniting the spirit of fun and togetherness across the campus.

Techno Sahotsava is divided into two modules. First is the Fun week. In this Fun week all the cultural teams perform, where many Fun activities take place. The main Fun activity is the Flashmob, where 100 students danced in a crowded place in the city. There are also dance battles and music jamming between other colleges. We invited many colleges to perform in our Fun week. Around 4500 plus footfall over the duration of the festival was registered. Every year more than 50 colleges in and around Kolkata are invited to take part in the off stage and on stage competitions. Talking about brand collaborations, we have managed to pull in big names such as **YAA** and **33 Home Bakers**, who made this day even more special. **YAA** supported us in creating a seamless experience, while **33 Home Bakers** filled the air with baked happiness, providing delightful treats for our judges and other eminent figures, adding a sweet touch to the festivities.

The second module is the main day of the event. For this day celebrity singers are invited. There have been several artists who have performed for Sahotsava since 2014. A few names are Anantara Mitra, Anupam Roy, Fossils, Anjan Dutt, Nakash Aziz, Siddharth Mahadevan, Nikhil D'Souza, Aditi Singh Sharma, Underground Authority, Morphine, T.R.A.P The Band and others. The final day of Techno Sahotsava 2024 was organised on **13th May 2024** at **Sangit Kala Mandir**. The final day culminated with two extraordinary live concerts: **Albert Kabo**, the renowned singer from *Sa Re Ga Ma Pa*, and **TRAP (The Radical Array Project)**, a famous Indie band, lit up the stage, leaving everyone in awe.

Techno Sahotsava 2024 wrapped up with a sense of joy, creativity, and accomplishment, making it a truly unforgettable experience. The combination of performances, competitions, and artist showcases created a unique atmosphere of camaraderie, talent, and celebration.

Moreover SANSKARAN always try to motivate every student to take part in activities to showcase their talents besides setting up a good academic career.”



# Technical Fest

## *Vivarta*

**Empowering Tomorrow's Tech Innovators: The Takshila Tech Club at Techno India University, West Bengal.**

### Introduction

2024 was a milestone year for the **Takshila Tech Club**, as it upheld its tradition of fostering innovation and empowering students through technical brilliance. The club achieved remarkable success with **Vivarta 2024**, its flagship tech fest, which served as a platform for creativity, competition, and collaboration.

Diverse Domains: A Universe of Technological Exploration

Each domain of Takshila contributed uniquely to Vivarta 2024, reflecting the wide range of skills and talents among its members.

- **Gaming:**  
Gaming enthusiasts participated in diverse tournaments, including Chess, FC24, BGMI, E-Football, and Valorant, providing a thrilling platform for competitive and casual gamers alike.
- **Innovation & Management:**  
The domain hosted the prestigious "Pitch to Deck", a platform for students to present innovative ideas and pitch their concepts effectively to a jury.
- **Mechmania:**  
Exciting competitions such as "Blast Off," "Power Truss," and "Poseidon" tested participants' engineering skills and creativity, offering a thrilling experience for both participants and spectators.
- **Robotics:**  
Robotics enthusiasts showcased their ingenuity and technical expertise in events like "Death Race," "Robosoccer," "Maze Solver," "Line Follower Pacmazer," and "RoboWar." These events pushed the boundaries of robotics and automation.
- **Computing:**  
The Computing domain conducted events like "Codex," "Webyard," and "Androjam," where students demonstrated their programming prowess and developed innovative solutions to real-world problems.  
(Space for photos)
- **Fun Events:**  
The Fun Events domain brought excitement and enjoyment to Vivarta 2024 with activities like "Live Ludo" and other quirky games, ensuring every participant left with unforgettable memories.

### Vivarta 2024 Highlights

Vivarta 2024 stood out as a celebration of technology and collaboration:

- **Multidisciplinary Approach:** Each domain contributed uniquely, ensuring a wide range of technical, creative, and fun experiences.
- **Broad Participation:** With over **10,000 attendees daily**, Vivarta 2024 proved to be one of the most engaging and impactful college fests in the region.
- **Event Website:** The official website, [technovivarta.com](http://technovivarta.com), served as the hub for updates, registrations, and live event tracking.
-

## Pre-Event Spotlight: Rover 2023

The gaming pre-event **Rover 2023** set the tone for Vivarta 2024, uniting the gaming community with friendly matches and practice sessions. This initiative boosted excitement for the main event and strengthened camaraderie among participants





## Achievements and Legacy

Vivarta 2024 made a lasting impact through:

- **Technical Excellence:** Hosting diverse, challenging events across multiple domains that emphasized innovation and problem-solving.
- **Student Empowerment:** Providing participants with a platform to showcase their skills, collaborate with peers, and engage with cutting-edge challenges.
- **Community Building:** Strengthening connections within the university and with industry professionals, fostering an environment of growth and mutual learning.

The **Takshila Tech Club** continues to inspire and empower students through its flagship events, innovative programs, and unwavering commitment to excellence. **Vivarta 2024** was a testament to the club's vision of fostering creativity, collaboration, and leadership among students.

As we look ahead to **Vivarta 2025**, we aim to set new benchmarks in event execution, engagement, and technological innovation. The Takshila Tech Club remains dedicated to nurturing the next generation of innovators and leaders, creating opportunities that resonate far beyond the university campus.

# *Techno India University Annual Sports 2024: A Celebration of Team Spirit and Excellence*

The Techno India University Annual Sports 2024 was a vibrant and action-packed event held on April 5th, 13th, and 14th, 2024. The three-day extravaganza brought together students across departments to showcase their athletic skills, sportsmanship, and team spirit. The events were divided into categories for boys and girls, providing equal opportunities for all to shine on the field and beyond.

## **Boys' Events**

The boys competed fiercely in a range of outdoor and indoor sports:

- **Cricket:** The cricket matches drew large crowds as teams battled it out with strategy and skill to claim victory.
- **Football:** The football games were thrilling, featuring intense competition and dramatic goals that kept spectators on the edge of their seats.
- **Kabaddi:** A display of agility and strength, kabaddi matches showcased the traditional sport's charm and electrified the atmosphere.
- **Tug of War:** This event became a highlight, symbolizing teamwork and strength as groups pulled their way to glory.
- **Badminton:** With precision and speed, players impressed the audience during their matches.
- **Volleyball:** Enthralling rallies and powerful spikes defined the volleyball games.
- **Running (100m and 200m):** Sprint events saw explosive bursts of energy and photo-finishes.
- **Chess:** The chess competition tested mental acumen and strategic thinking.
- **Carrom:** Demonstrating fine motor skills and focus, participants excelled in this indoor game.

## **Girls' Events**

The girls' events were equally captivating, with participants demonstrating outstanding determination and talent:

- **Kabaddi:** The kabaddi matches showcased the girls' remarkable endurance and tactical prowess.
- **Badminton:** Skillful shuttle play made the badminton matches a treat to watch.
- **Carrom:** Precision and patience were the hallmarks of the carrom games.
- **Chess:** The chessboards were arenas of intense mental battles, with players calculating every move.
- **Tug of War:** Teams displayed exceptional teamwork and physical strength in this engaging event.
- **Relay Race (400m):** The relay races were a perfect mix of speed and teamwork, drawing cheers from the audience.
- **Running (100m and 200m):** The track events highlighted the athletes' dedication and speed.

## Event Highlights

The sports days were not just competitions but also a celebration of camaraderie and unity. The atmosphere was



the passionate efforts of every participant.

Organizers ensured the seamless execution of the events, with adequate arrangements for referees, equipment, and medical assistance. Trophies and medals were awarded to the winners and runners-up at the closing ceremony, where the university's top leadership commended the participants for their outstanding performances and encouraged them to continue striving for excellence.

The Annual Sports 2024 of Techno India University proved to be a grand success, fostering a sense of community and healthy competition among students. It was a true celebration of athleticism, discipline and sportsmanship, leaving everyone eagerly anticipating next year's edition.

