

NEWSLETTER



2nd Quarter

April '24 to June '24

IEEE

KOLKATA SECTION



IEEE

KOLKATA SECTION



Dear IEEE Kolkata Section Members, Greetings!!

It is my pleasure to present you the Quarter-2 Kolkata Section Newsletter. Quarter-2 period i.e. April to June witnessed a lot many events like the Finals of the Robotic Competition, CESC Milestone Commemorative Lecture., Kolkata Section members' felicitation programme and like. I would inform the members of Kolkata Section that two teams- one from IIT Guwahati and other from IEM Kolkata made it to the final round of R10 Robotic Competition to be held at Tokyo, Japan on the sidelines of SYWL-2024.

In this quarter 25 new members from DVC, a Government of India organisation, joined IEEE under Kolkata Section under IEEE-PES Corporate Engagement Programme. I, on behalf of the members of the executive committee extend a warm welcome to the new members. 2nd CESC Milestone Commemorative Lecture was delivered by Mr. S. Suresh Kumar, IAS, Chairman DVC and Mr. Snehasis Samaddar, Executive Director (Generation), CESC Limited. Dignitaries like Members Secretary, Director (Generation) from DVC & WBSEDCL attended the event. Another important event i.e. Kolkata Section Members' Felicitation Programme was held on 14th June, 2024 where four illustrious members were felicitated for their professional excellence.

In the next quarter we have plans for Sir JC Bose milestone commemorative lecture, final round of R10 Robotic competition, Industry-Academia Engagement Workshop funded by R10 and few technical sessions.

I once again thank all the members for their wholehearted support and cooperation and looking forward to another interesting edition of newsletter in the third quarter. I wish to extend a special thanks to the Section newsletter team for the efforts which went behind this edition. Your feedback will be of great help to us, do send your comments to chandipani2309@gmail.com.

**Sd/-
Prof. Suparna Kar Chowdhury,
Chair, Kolkata Section**

IEEE ComSoc Chapter & IEEE Guwahati Subsection

celebrated the World Telecommunication and Information Society Day on May 17

On the occasion of World Telecommunication day, IEEE Communications Society (ComSoc) Chapter-Guwahati(Kolkata Section) and IEEE Guwahati Subsection invited poster presentations from the final year MTech students and the PhD research scholars in the broad areas of communication and networks.

For the best poster presentations, there were three prizes:

First prize: INR 10,000/-

Second prize: INR 7,000/-

Third prize: INR 4,000/-

The participants presented their posters on 17th May 2024 the evaluation committee recommended the following names:

1. First Prize:

Name - Dibaskar Biswas

Title - Development of Terahertz Topological Photonic Passive Devices for 6G Applications

2. First Runner-Up:

Name - Saurav Kumar

Title - DI4IoT: A Framework for IoT Device-Type Identification Through Network Traffic Analysis

3. Second Runner-Up (Shared between two students)

a. **Name - Saurav Gupta**

Title - Blockchain Node Optimization in Industrial IoT Networks

b. **Name - Swetha Vavilapalli**

Title - Input Agnostic Trojan Attack for Deep Learning-Based Wireless Signal Classification

REPORT ON FELICITATION OF MEMBERS BY KOLKATA SECTION

It is customary for Kolkata Section to felicitate and honour its members who in the recent past have excelled in their professional field.

A felicitation cum dinner meet was organized on 14th June at the banquet hall of Mainland China Restaurant at South City Mall Complex to recognize members, whose contributions have helped in enhancing the visibility of IEEE in general.

Total 21 members including members from the executive committee attended the event. The following illustrious members of Kolkata Section were felicitated by the Chairperson of the Section, Prof. Suparna Kar Chowdhury:

- a) Prof. Ashish Ghosh, Director IIIT Bhubaneswar,
 - b) Prof. Debatosh Guha, Professor Department of Radio Physics, CU,
 - c) Prof. Bhaskar Gupta, Vice Chancellor, Jadavpur University and,
 - d) Prof. Sushmita Mitra, Professor, ISI, Kolkata.
- Chairperson Prof. Suparna Kar Chowdhury, handed over a plaque to each of them, while each of them took turn to appreciate the gesture shown by Kolkata Section. Few Photographs of the event are given below:





STUDENT BRANCH
TEZPUR UNIVERSITY



IEEE SB TU Report

2024

IEEE SB TU 2024

TEZPUR UNIVERSITY

MICROWAVE AND ANTENNA WEEK

DATE: April 20th, May 9th & May 11th, 2024

Venue: Tezpur University, ECE Dept, School of Engineering

Organized by: IEEE Student Branch, Tezpur University

INTRODUCTION

The **IEEE Student Branch Tezpur University** successfully organized an engaging and educational event titled "**IEEE-Microwave and Antenna Week**," which spanned the months of April and May 2024. This event, featuring a series of webinars and a hands-on technical session, was aimed at promoting the goals and objectives of the IEEE Microwave Theory & Technology Society and IEEE Antennas and Propagation Society. It provided a platform for students and professionals to gain insights into the latest advancements in microwave and antenna technologies.

EVENT OVERVIEW

Webinar Series (Online Mode) :

Session 1 : April 20th, 9:30 P.M. IST

Dr. Goutam Chattopadhyay

Senior Research Scientist, NASA Jet Propulsion Laboratory

Dr. Chattopadhyay delivered an inspiring session that delved into the theoretical and practical aspects of NASA's Jet Propulsion Laboratory missions. He explored the role of microwave technology in planetary exploration, offering attendees a unique glimpse into the cutting-edge research and developments at NASA. His presentation also highlighted the objectives and opportunities within the IEEE Antennas and Propagation Society and the IEEE Microwave Theory & Technology Society.

Technical Hands-On Session :

Session: May 9th

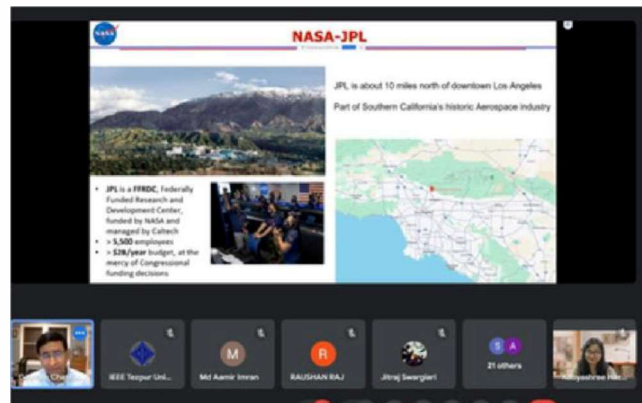
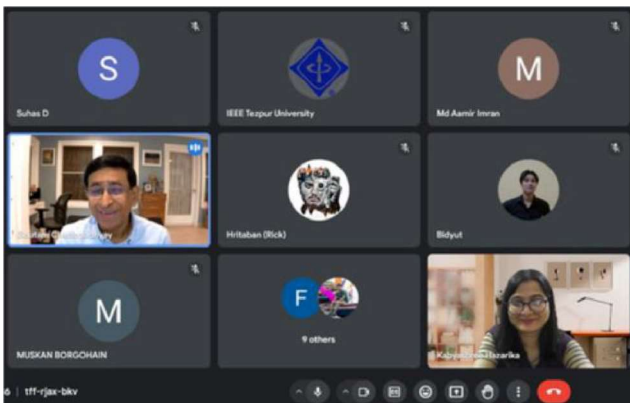
Dr. Pranjal Borah

Assistant Professor, Department of Instrumentation and USIC, Gauhati University Dr. Borah, an esteemed alumnus of Tezpur University, led a technical hands-on session that provided participants with practical experience in microwave engineering and antenna design. This session was particularly valuable for students and early-career engineers, as it bridged the gap between theoretical knowledge and real-world application.

CONCLUSION

The "IEEE-Microwave and Antenna Week" was not only a significant learning opportunity but also an inspiring event that encouraged the next generation of engineers to explore the vast potential of microwave and antenna technologies. The success of this event marks a key milestone in the ongoing efforts of the IEEE Student Branch Tezpur University to promote knowledge sharing and professional development within the field of engineering.

Few Photographs of the events :





Nanotechnology in Healthcare

DATE: 2nd, 3rd, and 4th May, 2024

Venue: Online Mode

Organized by: IEEE Student Branch Tezpur University & IEEE Engineering Medicine and Biology Society, Northeast India

INTRODUCTION

The **IEEE Student Branch Tezpur University**, in partnership with the **IEEE Engineering Medicine and Biology Society**, Northeast India, successfully hosted a captivating three-day webinar series on "**Nanotechnology in Healthcare**" from the 2nd, 3rd & 4th of May, 2024, featured the esteemed keynote speakers with **Dr. Ajeet Kaushik**, Ph.D. FICS | MRSC | ECS | ACS sir; **Prof. Navneet Gupta** sir; and **Prof. Vinay Kumar Singh** sir. The event, held under the esteemed chairmanship of Professor Bhabesh Deka, brought together leading experts in the field of biomedical engineering, offering an enriching experience to participants eager to explore the intersection of engineering and healthcare.

EVENT OVERVIEW

Session: 2nd May, 8:30 P.M. IST

Dr. Ajeet Kaushik, Ph.D., FICS | MRSC | ECS | ACS

Topic: "Biosensors for Disease Detection"

Dr. Kaushik delved into the intricacies of biosensors tailored for disease detection, highlighting state-of-the-art interfacing techniques and groundbreaking research in material sciences. His session provided a deep understanding of the latest advancements in biosensor technology and their potential impact on healthcare.

Session 2: 3rd May, 3:30 P.M. IST

Professor Navneet Gupta

Topic: "Flexible Sensors in Disease Detection"

Prof. Gupta's session focused on the development and application of flexible sensors in disease detection. He elaborated on various materials and integration strategies, showcasing the promising future of flexible sensor solutions in medical diagnostics.

Session 3: 4th May, 5:30 P.M. IST

Professor Vinay Kumar Singh, Ph.D. (JNU), FBRS, FISEES

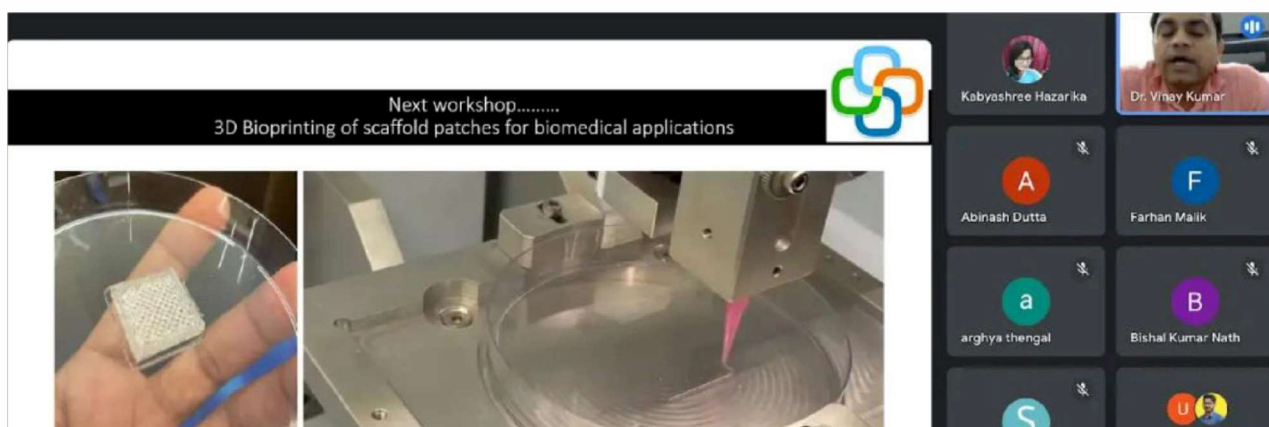
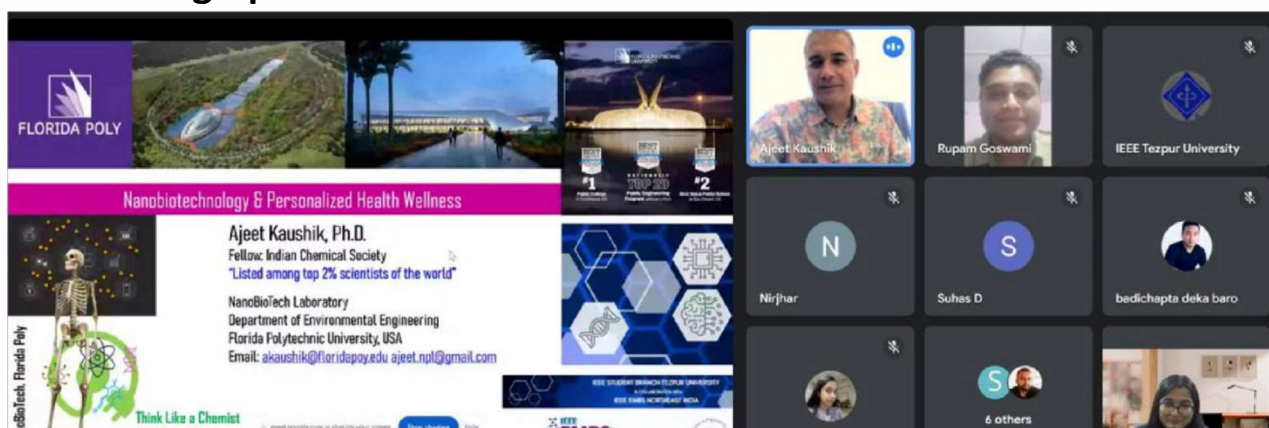
Topic: "Hydrogel Scaffolds in Drug Delivery and Tissue Engineering"

Prof. Singh discussed the emerging role of hydrogel scaffolds in drug delivery and tissue engineering, offering profound insights into their transformative potential in healthcare. His presentation was a highlight of the series, shedding light on the future directions of biomedical engineering.

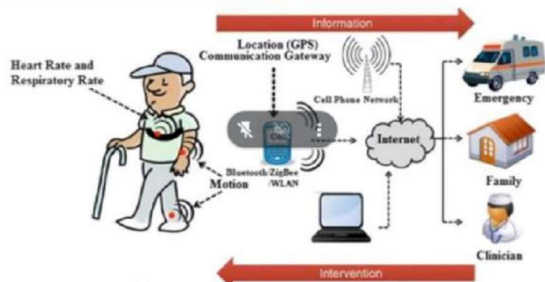
CONCLUSION

The three-day webinar series on "Nanotechnology in Healthcare" not only provided an excellent learning opportunity but also served as a source of motivation for young biomedical enthusiasts to delve deeper into this fascinating field. The success of this event marks another milestone for the IEEE Student Branch Tezpur University in its ongoing efforts to promote knowledge sharing and professional development.

Few Photographs of the events :



Flexible Sensors Demand in healthcare



Schematic representation of the use of wireless sensors for physiological parameter monitoring

Patel et al Flexible Sensors 2012

3

BITS Pilani, Pilani, Campus

Navneet Gupta	Rupam Goswami	IEEE Tezpur Univer...
RAUSHAN RAJ	MANASH PRATIM ...	Smriti Ghosh
KM NEERAJ NEERAJ	6 others	Kabyashree Hazari...

Sudip Kausik	Rupam Goswami	IEEE Tezpur University	Nirjhar	Suhas D
Debarun Chakraborty	MANASH PRATIM HAZARIKA	3 others	Kabyashree Hazarika	

Fusion of Biology and Technology: EMBS Perspective

DATE: 11th May, 2024

Venue: Tezpur University, Dean's Gallery, School of Engineering

Organized by: IEEE Student Branch, Tezpur University

INTRODUCTION

Organized by the **EMBS Joint Chapter Kolkata Section and Guwahati Subsection**, in collaboration with the **IEEE Student Branch at Tezpur University**, the One-Day IEEE EMBS Distinguished Lecture Series on Fusion of Biology and Technology successfully convened on May 11, 2024. The event brought together leading experts and enthusiastic participants to explore cutting-edge topics at the intersection of biology and technology.

The event started with a warm welcome from Prof. Bhabesh Deka, Chair of the EMBS Joint Chapter Kolkata Section and Guwahati Subsection. Prof. Deka introduced the guests and participants, setting the stage with an overview of the event's significance and anticipated outcomes.

The event was attended by approximately 35 students from undergraduate, postgraduate, and PhD programs across various departments, including Electronics and Communication Engineering (ECE), Electrical Engineering (EE), Molecular Biology and Biotechnology (MBBT), Computer Science and Engineering (CSE), and the Department of Energy. Additionally, several faculty members from the ECE and MBBT departments were present, including Prof. Pratha Pratim Sahu, Dean of the School of Engineering (SOE), and Prof. Suvendra Kumar Ray. Their participation underscored the event's interdisciplinary nature and the commitment to fostering a collaborative academic environment.



Tezpur, Assam, India
Dean's Office, Napaam, Tezpur, Puniani Gaon, Assam 784028, India
Lat 26.704245°
Long 92.826941°

EVENT OVERVIEW

Lecture Series (Online Mode)

Session 1

Prof. Ram Bilas Pachori, Department of ECE, IIT Indore

Title: "Multi-channel signal processing: An important direction for biomedical data analysis and classification"

Prof. Pachori's talk focused on the advancements in multi-channel signal processing techniques which are pivotal for enhancing the accuracy and efficiency of biomedical data analysis. His discussion highlighted how these methodologies are revolutionizing the classification of complex biological signals, thereby contributing to more precise diagnostic processes. The Q&A session following his talk included insightful questions such as how delta waves can be distinguished during meditation and non-meditation states, and what their significance is in biomedical signal analysis if they are found in both cases. These questions underscored the audience's deep engagement and interest in understanding the nuances of biomedical signal processing. After the first session, we had a short tea break of 15 minutes where the participants and faculty engaged in an open discussion regarding the session and the topics to be covered in the upcoming session.

Session 2

Dr. Saugat Bhattacharyya, Assistant Professor, School of Computing, Engineering and Intelligent Systems, Ulster University

Title: "Next-Level Human Augmentation through Collaborative Brain-Computer Interfaces"

Dr. Bhattacharyya presented on the transformative potential of collaborative brain-computer interfaces in human augmentation. His talk explored the integration of these systems with artificial intelligence to enhance cognitive and physical capabilities, thereby paving the way for groundbreaking applications in medical and industrial fields. During the discussion, attendees asked about the various techniques and methods being used for brain-computer interfaces. Another significant question addressed the appropriate strategy to tackle issues if the user's mental state or decisions change suddenly while interfacing with the machine, and the implications of these changes.

After the second session, we had a lunch break of 1 hour and 30 minutes, during which the participants and faculty joined for lunch and prepared for the final session.

Session 3 Dr. Malaya Kumar Nath, Assistant Professor, Dept. of ECE, NIT Puducherry Title: "Explainable AI for identifying the diagnostic information from ECG Signals"

Dr. Nath's session addressed the critical role of Explainable AI in interpreting ECG signals, focusing on its capacity to make the diagnostic process more transparent and understandable for clinicians. This approach not only aids in accurate diagnoses but also fosters trust in AI-driven medical solutions. This session was ended with few Q&A which included questions about the different standard tools used for Explainable AI and whether the same model can be used for different data modalities. These queries highlighted the audience's keen interest in the practical aspects of implementing Explainable AI in diverse medical scenarios.

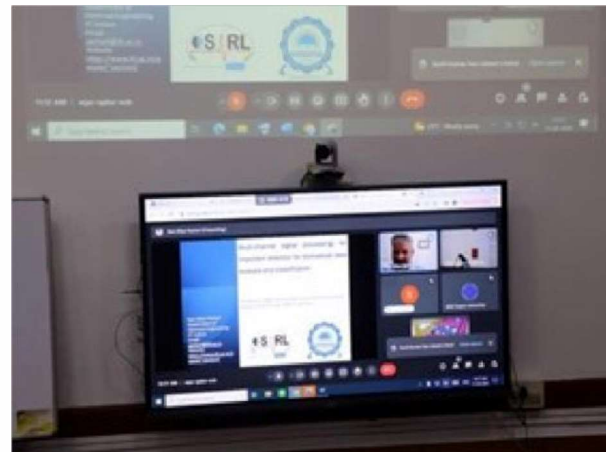
Quiz Competition

The lecture series was followed by a spirited Bio-Tech Quiz, involving students from various departments of the School of Engineering and the School of Sciences. The quiz was judged by Dr. Madhusudhan Mishra, Vice-Chair of the EMBS Joint Chapter Kolkata Section and Guwahati Subsection, who also shared insights into the integration of technology in modern education and research. Around 16 students participated in the quiz competition, forming 8 teams of 2. Three teams were declared winners, securing the 1st, 2nd, and 3rd positions. The winners received gift hampers worth Rs 600, Rs 400, and Rs 300 respectively, along with certificates of participation for each participant.

Conclusion

The event concluded with a vote of thanks and a photo session, capturing the moments of this enriching assembly. The One-Day IEEE EMBS Distinguished Lecture Series not only fostered learning and collaboration but also highlighted the promising convergence of biology and technology, setting a benchmark for future academic gatherings.

Few Photographs of the events :



Report on Kolkata Section Robotic Competition

In response to IEEE R10 call for participation in Robotic Competition 2024, Kolkata Section initiated the process for organizing annual Robotic Competition-2024.

The Call for participation for was floated in February'24 and was circulated through an e-notice. Publicity was also made through social media channels during the last week of February 2024.

In response to the e-notice, interest was shown by 20 teams from 08 different institutes via e-mail, out of which 11 teams filled out the registration form following stipulated guidelines.

To maintain a relatively high standard of selection, focus was primarily on demonstration of a working model and not on presentation of the mere idea.

The screening was carried out in 3 stages, as detailed below:

Stage - I: Initial Screening during 3rd week of March 2024.

The teams who filled out the registration form were asked to submit a 05- minute video demo of their project.

The concept notes and demo videos were diligently evaluated by independent judges, drawn from academia and industry by the Kolkata Section, to prune down the number of teams to 08.

Stage - II: Date: 06 April 2024, Mode: Online:

08 teams from 05 Institutes who were shortlisted from Stage-I, were assessed as per set criteria on virtual platform. 07 teams participated in the online mode and they were judged on the basis of novelty, demonstration of the partial working model, cost of development, impact & significance, challenges faced in implementation, final target and progress and finally scalability. 05 teams were shortlisted for the final round in physical mode.

The Judges for the Stage-II assessment were Prof. Atanu Kundu, Prof. Chintan Mandal, Dr. Shaon Mazumder (industry expert from IBM).

Stage - III: Date: 20 April 2024, Venue: Dr. H. L. Roy Auditorium, Jadavpur University Campus.

The final round of competition was inaugurated by the Chairperson of Kolkata Section Prof. Suparna Kar Chowdhury. The Chair in her welcome address stressed on the need for awareness building of the advancement of Science & Technology in areas of AI & Robotics and its contribution in the daily life of human beings particularly in agriculture, bio medical fields to name a few.

The finals of the Robotic competition started in post lunch session. Each of the 5 teams were allotted 30 minutes for making live demonstrations of the projects followed by Questions and Answer session.

The teams were judged on the following criteria and the top 3 teams were selected through the rigorous review process.

Assessment Criteria:

- Novelty
- Live demonstration of model
- Cost of Development
- Impact & Significance
- Challenges & Remedial Action
- Final Target of Model
- Scalability

The Judges for the Stage-III assessment were Prof. Amitava Chatterjee, Prof. Nibaran Das and Dr. Shaon Mazumder (industry expert from IBM).

Results:

The final Standing is as below:

- a) Team 'Forest Reviver' from the Indian Institute of Technology Guwahati,
- b) Team 'Agrian' from the Institute of Engineering and Management Salt Lake, Kolkata,
- c) Team 'Krishak' from Neotia University, Diamond Harbour, 24-Parganas.

The top 3 teams were awarded Trophies and Citations. The prizes were handed over by Chairperson of Kolkata Section.

Concluding Session:

The Kolkata Section Robotic Competition ended with vote of thanks by Dr. Tridibesh Nag Secretary, Kolkata Section.

Few glimpses of Kolkata Section Robotic Section Competition are given below:



Inaugural Session



Felicitation of Judges



Assessment in progress



Assessment in progress

Report on Kolkata Section Robotic Competition



Assessment in progress



Winning Team



1st Runner Up



2nd Runner Up



STB60020653 - St Thomas College of Engineering & Tech-Kolkata

IEEE ST. THOMAS' COLLEGE OF ENGINEERING & TECH STUDENT BRANCH

CODIGO

Organizer: IEEE St. Thomas' College of Engineering & Tech Student Branch in association with Co-Curricular Activity cell of St. Thomas' College of Engineering and Technology.
IEEE Kolkata Section is Technical Co-Sponsorship.

CODIGO is designed to provide a platform for students to showcase their problem-solving skills, programming acumen, and technical expertise. It aligns with the IEEE's mission of advancing technology for the benefit of humanity and encourages students to apply their theoretical knowledge in a practical setting. Our web addresses https://edu.ieee.org/in-stcet/codigo_home/.

IMPORTANT DATES

Last date of Registration: February 25, 2024

Date of event: March 15 and 16, 2024

Total **109** (IEEE member 14 and guest 95) **participants** have registered for the event. Out of 109 the top 12 members are selected as the winners.

Certifications:

Award	Amount
First position	Rs. 1000/-
Second position	Rs. 500/-

Code Crafters (Winners)

Rank	Group Number	Member1	Member2	Prize money (in Rs.)
1	34	Rajdeep Kunkri	Debjit Ghosh	1000/-
2	31	Iman Bandyopadhyay	Soumyadeep Adak	500/-
3	54	Anwasha Chakraborty	Shreyashi Ghosh	

Code Debugging (Winners)

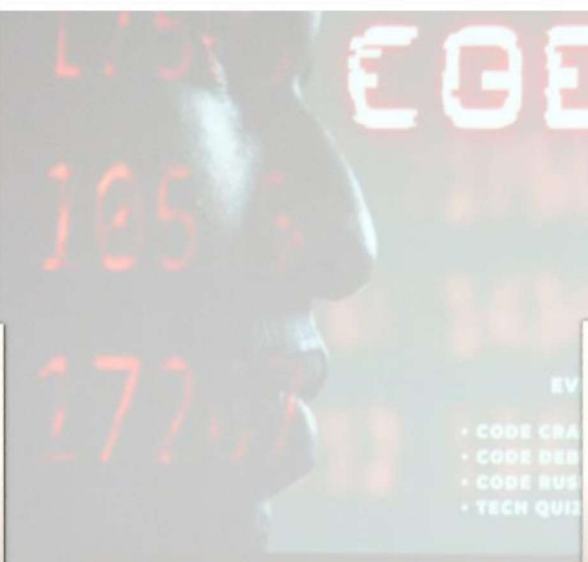
Rank	Group Number	Member1	Member2	Prize money (in Rs.)
1	49	Spandan Sen	Ankur Sadhya	1000/-
2	40	Mayank Rathi	Ankit Kundu	500/-
3	6	Sreedipta Karmakar		

Code Rush (Winners)

Rank	Group Number	Member1	Member2	Prize money (in Rs.)
1	12	Sourik Poddar	Aninda Ghosh	1000/-
2	50	Soham Ghosh	Mohar Das	500/-
3	101	Arghadeep Pani	Sagnik Ghosal	

TechQuiz (Winners)

Rank	Group Number	Member1	Member2	Prize money (in Rs.)
1	64	Sayantan Chatterjee	Ankur Bose	1000/-
2	87	Bappaditya Banerjee	AnuragKumar Shaw	500/-
3	49	Spandan Sen	Ankur Sadhya	



- CODE CRA
- CODE DEB
- CODE HUB
- TECH QUIZ



amerjea

Prof. (Dr.) Shila Ghosh
Principal

Prof. (Dr.) Suparna Kati Chandhary
Chairperson, IEST Kolkata Section

Prof. (Dr.) Raju Kumar Bhowmik
Dean (Academics)

Dr. Soumen Maiti
Asst. Registrar

Chairperson	Dr. Sudip Kumar Adhikari	Email: sudip.cgec@gmail.com
Vice-Chairperson	Dr. Himadri Sekhar Dutta	Email: himadri.dutta@gmail.com
Secretary	Mr. Hemanta Dey	Email: hemantadey13@gmail.com
Treasurer	Dr. Aniruddha Dey	Email: anidey007@gmail.com

EVENTS ORGANIZED BY IEEE YOUNG PROFESSIONALS, KOLKATA SECTION in the month of April-Jun-2024

1. Name of the Event: Industry Visit cum Excursion

Date and venue of Event: 6th April, 2024 at the Times of India Office, Saltlake, Kolkata

Short description of the event (100 to 150 words): Department of Computer Application of Techno International Newtown and IEEE Young professionals, Kolkata Section jointly organized an Industry Visit cum Excursion at the Times of India Office, Saltlake, Kolkata on 6th April, 2024. Around 59 participants including 4 IEEE members joined the event. Participants are mostly students and faculties of Techno International Newtown, Kolkata. The participants had the incredible opportunity to witness the first-hand inner workings of one of the leading media organizations in the country. The representatives of the Times of India, Saltlake provided invaluable insights into the world of media and technology.

Name of Speaker/Delegates present with affiliation:

- i) Officers and Journalists of the Times of India, Salt Lake
- ii) Event was Co-ordinated by Prof. Hemanta Dey, Secretary, YP

No. of total participants: 59

No. of IEEE member participated: 4

No. of Non-IEEE member participated: 55



Industry Visit cum Excursion at Times of India Office, Salt Lake

2. Name of the Event: Workshop on Full Stack Web Development

Date and venue of Event : 16th April, 2024 at Techno International New Town, Kolkata

Short description of the event (100 to 150 words): Department of Computer Application of Techno International Newtown organized a Workshop on Full Stack Web Development at Techno International New Town, Kolkata on 16th April, 2024. Around 45 participants including 4 IEEE members joined the event. Participants are mostly students of Techno International Newtown, Kolkata. This workshop was an enriching experience, covering the ins and outs of Full Stack Development to enhance skills and knowledge in the field.

The workshop is technically sponsored by IEEE Young Professionals, Kolkata Section, adding even more value to this fantastic learning opportunity.

Name of Speakers/Delegates present with affiliation:

i) Coordinated by Euphoria GenX and Prof. Hemanta Dey, Secretary, YP

No. of total participants: 45

No. of IEEE member participated: 4

No. of Non-IEEE member participated: 41



Workshop on Full Stack Web Development at Techno International Newtown

3. Name of the Event: Workshop on REACT & Node JS

Date and venue of Event: 23rd April, 2024 at Techno International New Town, Kolkata

Short description of the event (100 to 150 words): Department of Computer Application of Techno International Newtown organized a Workshop on REACT & Node JS at Techno International New Town, Kolkata on 23rd April, 2024. Around 38 participants

including 4 IEEE members joined the event. Participants are mostly students of Techno International Newtown, Kolkata. This workshop was an enriching experience, covering the ins and outs of REACT & Node JS to enhance skills and knowledge in the field. The workshop is technically sponsored by IEEE Young Professionals, Kolkata Section.

Name of Speaker/Delegates present with affiliation:

I) Coordinated by Infowebment Solution and Prof. Hemanta Dey, Secretary, YP

No. of total participants: 38

No. of IEEE member participated: 4

No. of Non-IEEE member participated: 34



Workshop on REACT & Node JS at Techno International Newtown

4. Name of the Event: Technical Lecture Programme

Date and venue of Event: 30th April, 2024 at Seminar Hall-1 Cooch Behar Government Engineering College

Short description of the event (100 to 150 words): Department of Electrical Engineering, Cooch Behar government Engineering College and IEEE Young

professionals, Kolkata Section jointly organized a Technical Lecture Programme at Seminar Hall-1 of Cooch Behar Government Engineering College on 30th April, 2024. The title of the talk was “Evolutional changes in Electrical Engineering.”. The talk was delivered by Prof. Sujit Kumar Biswas, Former Professor, Electrical Engineering Department, Jadavpur University. Around 65 participants including 5 IEEE members joined the event. Participants are mostly students and faculties of Cooch Behar Government Engineering College. The talk addresses the development of electrical engineering from the very

beginning to the latest innovations. The event was very much interactive. This session was chaired by Dr. Prabal Deb, Principal, Cooch Behar Govt. Engg. College.

Name of Speaker/Delegates present with affiliation: Prof. Sujit Kumar Biswas, Former Professor, Electrical Engineering Department, Jadavpur University

No. of total participants: 65

No. of IEEE member participated: 5

No. of Non-IEEE member participated: 60



Technical Lecture Program of Prof. Sujit Kumar Biswas at CGEC

5. Name of the Event: IEEE Awareness Program & Technical Lecture Programme

Date and venue of Event: 7th May, 2024 at CSE Seminar Hall, Ramkrishna Mahato Government Engineering College, Purulia

Short description of the event: Department of Computer Science & Engineering, Ramkrishna Mahato Government Engineering College, Purulia and IEEE Young professionals, Kolkata Section jointly organized a Technical Lecture Programme and IEEE awareness program at CSE Seminar Hall of RKMGECCollege on 7th May, 2024. The title of the technical talk was “Introduction to Soft Computing and its Research Perspectives”. The talk was delivered by Dr. Sudip Kumar Adhikari, Assistant Professor, Department of CSE, Cooch Behar Govt. Engg. College. Around 48 participants including 5 IEEE members joined the event. Participants are mostly students and faculties of RKMGECCollege. The talk addresses the introduction to soft computing and its applications in various fields of research. Dr. Adhikari who is also the chairperson of IEEE YP, Kolkata Section, took another session for IEEE awareness program.

The talk inspired the students to form a local student chapter of IEEE at RKMGECCollege, Purulia.

Name of Speaker/Delegates present with affiliation: Dr. Sudip Kumar Adhikari, Chairperson, IEEE Young Professional Kolkata Section & Assistant Professor, Department of CSE, Cooch Behar Govt. Engg. College

No. of total participants: 48

No. of IEEE member participated: 5

No. of Non-IEEE member participated: 43



IEEE Awareness & Technical Lecture at RKMGECCollege, Purulia

Virtual Talk on "Job Opportunities in the Semiconductor Industry"

IEEE SSCS Kolkata Chapter has successfully organized a **Virtual Talk on "Job Opportunities in the Semiconductor Industry"** on 18th May, 2024, Saturday. Mr. Priyanko Mitra, Senior Manager, Memory Technology, Western Digital delivered the lecture on "Job Opportunities in the Semiconductor Industry". The Event was held virtually on WebEx platform from 6:00 PM (IST) in virtual mode.

Semiconductors are an integral part of every aspect of life today, and new products and ideas are emerging at lightning speed! Naturally, there is a plethora of opportunities available for interested candidates to address the requirements of the semiconductor industry, which is extremely diverse, multi-disciplinary, and dynamic.

This talk covered the different stages of semiconductor product development, the roles and responsibilities involved, the skill sets needed, with real-life examples of some day-to-day tasks. It should help the students make an educated choice when entering the industry, assist the faculty and policy makers in making the curriculum more industry-friendly, and even aid professionals in planning their subsequent careers. Mr. Mitra answered all the queries from the participants after the talk. IEEE SSCS Kolkata chapter will organize more such events in the future. Total of 14 participants preset in this session.

The screenshot displays a Cisco Webex Webinar interface. At the top, the title bar shows "Cisco Webex Webinars" and "Webinar Info". The main content area is divided into three video thumbnails: Swarnil Roy (Host, me), Priyanko Mitra (the active speaker), and Sagar M. Below the thumbnails, the text "Viewing Priyanko Mitra's screen" is visible, along with a zoom level of 57%. The central focus is a presentation slide titled "Semiconductor Industry Scenario". The slide features several data visualizations and news snippets:

- A bar chart showing the "SEMICONDUCTOR MARKET WILL BE \$1 TRILLION IN 2026".
- A bar chart titled "Percentage of companies that have difficulty finding talent in the industry".
- News snippets including: "Cabinet approves ₹26000 crore push for semiconductor industry", "Wipro to set up \$2.75 billion semiconductor unit in Taiwan", "Vedanta to put ₹60k cr into semiconductors", and "High Bandwidth Memory (HBM): Unleashing the power of next-gen memory technology".

On the right side of the interface, there are panels for "Participants (14)", "Panelists (3)" (listing Swarnil Roy and Priyanko Mitra), and "Chat". The chat panel shows a message from Sagar M: "from Sagar M to everyone: 6:09 PM please post your question here". At the bottom, there are controls for "Unmute", "Start video", and other standard Webex functions.

CESC Milestone Lecture

IEEE Kolkata Section organized the 2nd CESC Milestone Lecture on 27th April, 2024 at Dr. H.L. Roy Auditorium of The Institute of Chemical Engineers', Jadavpur University Campus.

The Theme of the lecture was 'Sustainable Solutions in Power Generation – Role of Generating Companies' and the speakers for the sessions were Mr. S. Suresh Kumar, IAS, Chairman DVC Ltd. and Mr. Snehasis Samaddar, Executive Director (Generation), CESC Limited.

The event started with Prof. Suparna Kar Chowdhury, Chairperson of IEEE Kolkata Section delivering the welcome address and felicitated the Chief Guest, Guest of Honour and other dignitaries like the Vice Chancellor and Pro Vice Chancellor of Jadavpur University. In her address she dwelt on the role of CESC in ushering in the era of commercial power Generation & Distribution in Indian Subcontinent.

Mr. S. Suresh Kumar IAS, Chairman DVC and Chief Guest of the programme spoke at length on various sustainable measures being adopted worldwide by Independent Power Producers(IPP) and the results that are expected from these measures. The session was chaired by Prof. Nirmalendu Chatterjee, Past Chair of IEEE Kolkata Section.

Mr. Snehasis Samaddar, Executive Director (Generation), CESC Limited, spoke on the various measures adopted by CESC to improve on the environment parameters and zero effluent discharges from the generating stations. Prof. Samiran Choudhuri Past President of The Institution of India chaired the session.

High profile dignitaries like Member-Secretary and Additional Secretary from DVC, Director Generation and Chief Engineer Generation from WBSEDCL and Sr. Vice President from CESC Ltd were present in the audience.

Prof. Suparna Kar Chowdhury, Chairperson Kolkata Section presented mementos to the guest speakers and the session chairs.

Dr. Ankita Pramanick and Dr. Mousiki Kar have jointly anchored the event

In concluding session Dr. Tridibesh Nag proposed the vote of thanks to all the dignitaries and those present in the audience.

Few photographs of the event given below:



Inaugural Session



Felicitation of Chief Guest



Welcome Address by Section Chair



**Mr. S. Suresh Kumar, IAS
delivering keynote address**



**Presentation of Memento
to Chief Guest**



**Mr. S. Samaddar delivering
milestone lecture**



Presentation of Memento to Guest of Honour



A section of the Audience