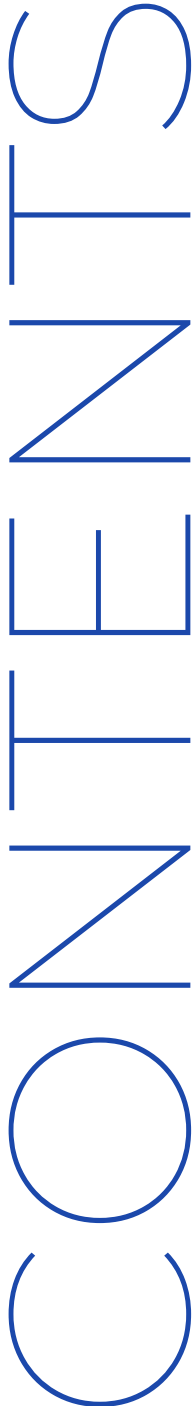




IEEE COMSOC, KOLKATA CHAPTER



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HULT PRIZE CAMPUS PROGRAM

Organized by Netaji Subhas Engineering College in collaboration with IEEE COMSOC, Kolkata Section

25th Jan, 2020

The **Hult Prize** is the leader in creating and launching disruptive companies in the impact sector amongst youth worldwide. They have created sectors, built momentum, and most importantly - unlocked infinite possibilities for the world's next generation of entrepreneurs.

THE HULT PRIZE IS CONSIDERED AS THE "NOBEL PRIZE FOR STUDENTS."

Mr. Pallab Ganguly, The Chairman, IEEE COMSOC, Kolkata Section was invited by the NSEC Entrepreneurship Development Cell (EDC) to act as a jury in the Netaji Subhash Engineering College On-Campus Program Selection Committee of the Hult Prize 2020 on 25th January 2020.

The event has experienced cutting-edge research and entrepreneurial ideas of students and vibrant interaction with the jury and the delegates. The most compelling solution provider is selected for a spot at one of the 25+ Regional Finals taking place all over the world, and the chance to pitch for the grand prize of **\$1 million USD** at the United Nations HQ.



NATIONAL CONFERENCE ON EMERGING TRENDS IN SUSTAINABLE ENGINEERING AND APPLICATION

Organized by B.C.Roy Engineering College, Durgapur in technical sponsorship of IEEE COMSOC, Kolkata Section

7-8 February, 2020

On Feb 7-8, 2020 the National Conference on Emerging Trends in Sustainable Engineering and Application was held with the technical sponsorship of **IEEE ComSoc** organized by B.C.Roy Engineering College, Durgapur.

Prof. Iti Saha Misra, the immediate past Chair of IEEE ComSoc, Kolkata Chapter has delivered an invited keynote on the very relevant engineering topic of sustainable engineering application. She spoke on the topic of **IoT-based Heart Sound Detection and Analysis** for awareness generation on the post-inaugural session, 7 Feb 2020.

More than **150 participants** were present in the session.





IEEE COMSOC INTERNATIONAL SUMMIT ON 5G & BEYOND FOR RURAL UPLIFTMENT 8th – 9th Feb, 2020

The “International Summit on 5G & Beyond for Rural Upliftment” was organized jointly by IIT-ISM Dhanbad and GISFI Standardisation Series on 8-9 Feb 2020.

Prof. Iti Saha Misra was invited to deliver a keynote speech on “Is 5G Ready for India? Seeking some Prospective Applications”.

There were a very nice gathering of technologist from India and Abroad. Academicians from IITS and other places joined the program. More than 250 participants were there.

IEEE NATIONAL CONFERENCE CALCON 2020

28th – 29th Feb, 2020



CALCON 2020

IEEE Kolkata Section's flagship conference CALCON -2020 was held during 28-29 Feb 2020 at Hotel Senses, Salt Lake, Sector -V, Kolkata -91. The conference was chaired by Prof. Iti Saha Misra, the immediate past Chair of IEEE ComSoc, Kolkata Chapter. The Industry Chair was Mr. Pallab Ganguly, Chairman, IEEE ComSoc Kolkata Chapter. The inaugural session was held on 28 th Feb at 9.30 am.

A very vibrant student panel discussion in IEEE CALCON-2020 was arranged by IEEE ComSoc Kolkata Chapter.

Also, an Industry Panel discussion involving speakers from Ericsson, Govt of West Bengal, Checkpoint, NTT Group, Palo Alto, etc. was organized. Many IEEE Members, researchers, industry delegates, and students were present and enjoyed the vibrant interactions with fellow researchers and experts.



CALCON 2020

Students Panel Discussion

- New Ideas
- New Thinkers
- New Entrepreneurs
- New Leaders



Students Panel Discussion:

Empowering
young minds
to lead the
future.



Industry Panel

Industry Panel
discussion involving
speakers
from Ericsson, Govt
of West Bengal,
Checkpoint, NTT
Group, Palo Alto etc.



Creating an **ecosystem** for academia and industry **linkages.**

IEEE TECH X CONGRESS

28th Feb – 1st Mar, 2020

The **IEEE TechX Congress** (www.ieee-techx.com), hosted by NIT, DGP along with IEEE COMSoc, Kolkata Section, and joint student branch initiative namely Jadavpur University SB, NIT Durgapur SB, and IIT Kharagpur SB envisioned to **create awareness** about the technological advancement in the world along with creating a **technological and cultural exchange** of ideologies.



The event was attended by 130+ students along with industry professionals. The 3-day congress included multiple tracks and was held near the sea beach of Mandarmani, West Bengal. The initiative was technically supported by IEEE ComSoc, Kolkata Chapter.

Mr. Subhamoy Chakraborti, Secretary, IEEE ComSoc, Kolkata Chapter was present on Day 2 and delivered a lecture to the students on how students, academicians, and industry are closely working together towards **building an ecosystem of innovation** as per IEEE ComSoc mandate. Mr. Chakraborti was also present in the **5G & IOT workshop** being held by Mr. Subodh Gajare, Sr Solution Architect, Cisco, and helped the team in deciding the winner amongst the student groups.

IEEE COMSOC DLP

21st Feb, 2020

Prof. Neelesh B. Mehata, I.I.Sc. Bangalore has delivered a Distinguished Lecture (DL) in the Department of ETCE, Jadavpur University Kolkata on 21 Feb from 12.00 -1.30 pm.

He delivered on the topic of "The Different Role of Energy-Efficiency in Energy Harvesting Wireless Sensor Networks". The targeted audience was the UG ETCE and PG ETCE along with Ph.D. Scholars.

Prof. Mehta interacted with the students and also visited the Broadband Wireless Communication Lab of the ETCE Department under Prof. Iti Saha Misra.

DL talk on:
"The Different
Role of Energy-
Efficiency in Energy
Harvesting Wireless
Sensor Networks"





IEEE COMSOC, INDUSTRY/ACADEMIA PANEL DISCUSSION

Entrepreneurship & Skill development opportunities

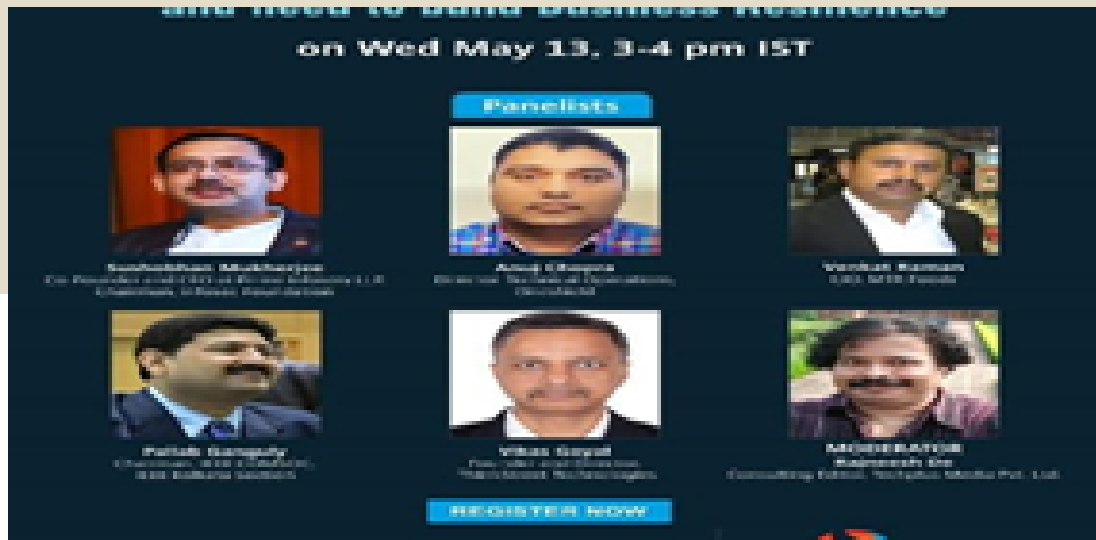
The session on “**Entrepreneurship & Skill Development Opportunities**” was co-sponsored by Sister Nivedita University and **IEEE COMOSC, Kolkata Section**, and was held on 8th Feb 2020 between 4 – 6 pm.

Mr. Pallab Ganguly, The Chairman, IEEE COMSOC, Kolkata Section participated in this session as an esteemed panelist. Other participants included Dr. Atanu Raha (Director, SNU) and Mr Sanjay Ghosh (MD, SIMOCO).

The session was moderated by Moupia Nandi from the news channel Zee 24 Ghanta.

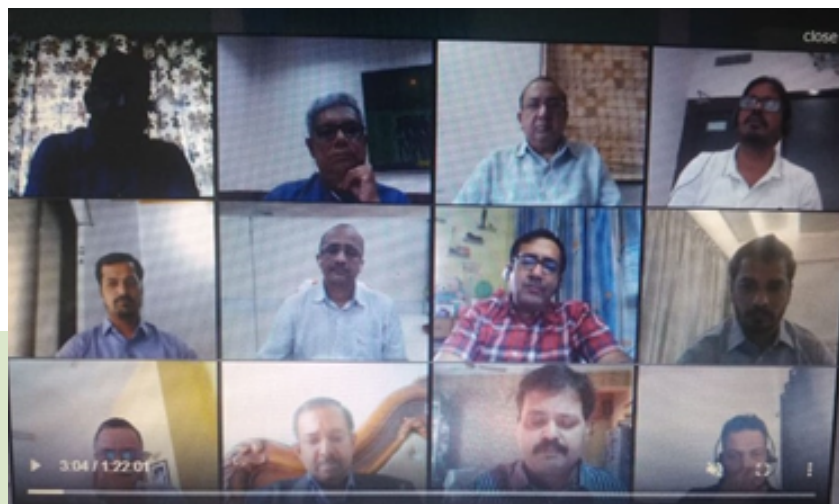
The program was attended by many Industry delegates, IEEE members and students. The program focussed on the **Entrepreneurship** and **skill development** opportunities for fresh Engineers in today’s digital world. Around 50 students attended the program.

IEEE COMSOC INDUSTRY PANEL DISCUSSION ON BCP 13th May, 2020



A panel discussion was organized on “**Importance of a secure business continuity plan (BCP)** in the organization during Covid-19 and need to build Business resilience” on 13th May 2020. This session was organized by Techplus Media and the CXOTV.news channel supported by IEEE COMSOC, Kolkata Section.

Mr. Pallab Ganguly, Chairman, IEEE COMSOC, Kolkata Section participated in this panel discussion along with other IT leaders from the industry. They deliberated on the **need for a Business Continuity Plan** in view of the pandemic and the security considerations.



IEEE COMSOC INTERNATIONAL WEBINAR RELATED TO 'DATA SCIENCE AND ARTIFICIAL INTELLIGENCE':

The Neotia University along with IEEE COMSOC, Kolkata Section organized an International webinar on **“Data Science and Artificial Intelligence: Revolutions for Present and Future”**.

IEEE COMSOC Kolkata Chapter was the technical sponsor of this. This was held on 22nd Aug, 2020.

Mr. Pallab Ganguly, Chairman, IEEE COMSOC Kolkata Chapter, India was one of the speakers in the session.

Mr. Ganguly delivered a lecture titled **“A Brief about IEEE ComSoc Kolkata Chapter and Cyber Security”** between 4:30 pm – 5:00 pm making the student communities aware of the latest developments in cybersecurity.

Many IEEE Members, Student members, students, Industry delegates attended the Webinar.



Industry Panel Discussion

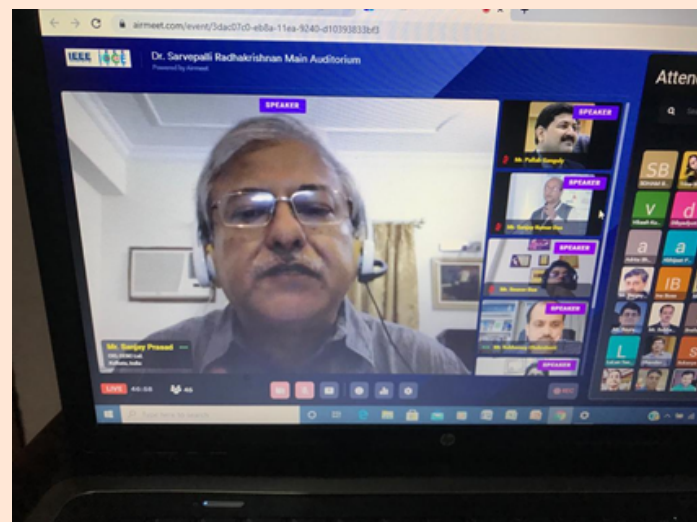
5th - 6th Sep, 2020

IEEE COMSOC Kolkata Chapter was the Technical sponsor for the **industry panel session** in the **1st International Conference for Convergence in Engineering (ICCE 2020)**. This was organized by Netaji Subhash Engineering College. ICCE 2020 aims to bring together leading academicians, scientists, and researchers, and Industry experts from around the world to exchange and share their research experiences, to provide a premier interdisciplinary forum for scientists, engineers, and practitioners. The conference consisted of invited lectures by experts from academia & industry, tutorials, interactive sessions for high-quality contributory papers through oral and poster presentations.

The Secretary, IEEE COMSOC Kolkata Chapter Mr. **Subhamoy Chakraborti** moderated the industry panel session. The topic of the session was **"In this global pandemic situation of Covid-19, AI & ML: Miracle or Menace"**.

The panelists included Mr. Sanjay Kumar Das (Joint Secretary, Ministry of IT & Electronics, Govt of West Bengal), Mr. Sanjay Prasad (CIO, CESC Ltd), Mr. Partha Sengupta (Sr. Vice President- ITC Infotech), Mr. Sourav Das (CIO, Essel Mining & Industries, Aditya Birla group), and Mrs. Soma Ghosh (Senior Security Analyst, CERNER Corporations).

The discussion centered around the **Application of AI /ML** in the respective industries, implementation case studies from the panelists, change in AI/ML space since March as experienced by the panelists, and the pitfalls/security concerns around this technology which may turn the benefits into a menace. **Mr.Pallab Ganguly, the Chairman, IEEE COMSOC Kolkata Chapter**, was the session chair.





IEEE COMSOC STUDENT ORIENTATION PROGRAM ON SMART GRID

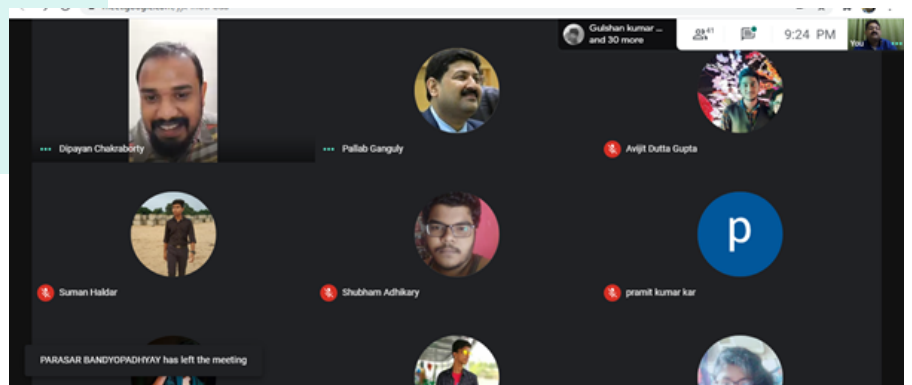
14th October, 2020

Mr. Pallab Ganguly, Chairman, IEEE ComSoc Kolkata Chapter gave a captivating lecture to the students on **Smart Grid** on 14th October 2020. The topic was "**Challenges of the existing Security Measures Deployed in the Smart Grid Framework**".

Mr. Ganguly mentioned the challenges as well as the possible solutions and how Smart Grid sits at the intersection of Energy, IT & Telecommunication Technologies.

Mr. Ganguly talked about the security challenges in the smart grid, possible attack variants, operational challenges, architecture of advanced metering techniques, global security standards, and the path forward.

The IEEE Student Members along with the students participated and it was a very interesting interactive session. Around 60 students including student members attended the program.



IEEE COMSOC, SHORT TERM COURSE & VDL

7th - 11th Nov 2020



Professor Ashutosh Dutta
Johns Hopkins University, USA
IEEE Fellow

**Security in SDN/NFV and 5G
Networks-Opportunities and
Challenges**



Professor Sudip Misra
I.I.T. Kharagpur

**UAV Networks:
Architectures,
Opportunities, Challenges,
and Future**

A one-week short term CEP course on "**Futuristic Wireless Communication and IoT-5G and Beyond**" was organized by NIT Rourkela, technically co-sponsored by IEEE ComSoc Kolkata Chapter between 7th to 11th November 2020.

The forecast for the future 10 years' traffic demand illustrates an increase in 1000 scales and more than **100 billion connections of the Internet of Things**.

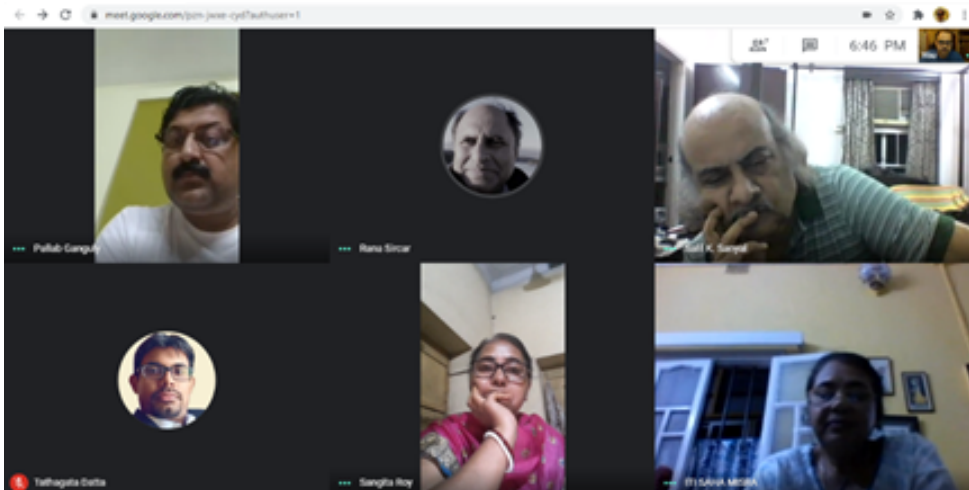
5G & beyond have the potential to enable fundamentally new applications, industries, and business models and dramatically improve quality of life around the world via unprecedented use of high data-rate instantaneous communications, low latency, and massive connectivity for new applications such as **eHealth, intelligent transportation, autonomous vehicles, smart cities, smart homes, industrial IoT, smart grid, terahertz communication etc.** With growing IoT needs, networking should be ubiquitous, energy and spectrum efficient, ensure the quality of service (QoS) and adequately secured. Further, the congregation of 5G and artificial intelligence (AI) is expected to accelerate the adoption of **Industry 4.0**.

Prof Iti Saha Mishra, the immediate past chair of IEEE ComSoc Kolkata Chapter delivered her lecture on day 4 on "**Cognitive Radio and 5G communication**".

Prof. Ashutosh Datta, IEEE Fellow, and Prof. Sudip Misra delivered the Distinguished Lecture (virtual) on behalf of the IEEE ComSoc Kolkata Chapter.



IEEE COMSOC EXECUTIVE COMMITTEE MEETINGS



Overcoming the pandemic situation, IEEE COMSOC, Kolkata Chapter continued to have Executive committee meetings during the year. The meeting shifted to a digital platform where the members exchanged ideas and took the agenda forward. There were 2 meetings conducted on the digital platform, on **11th July, 2020 at 6:30 PM, and 8th Nov, 2020 at 6PM**

