

IEEE *Newsletter*

BHUBANESWAR SUB-SECTION

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Editor-In-Chief: Dr. Sujata Chakravarty

ABOUT IEEE

IEEE Mission & Vision

IEEE is the world's largest technical professional organization dedicated to advancing technology for the benefit of humanity. Below you can find IEEE's mission and vision statements.

Vision statement

IEEE will be essential to the global technical community and to technical professionals everywhere, and be universally recognized for the contributions of technology and of technical professionals in improving global conditions.

Mission statement

IEEE's core purpose is to foster technological innovation and excellence for the benefit of humanity.

About IEEE

IEEE and its members inspire a global community to innovate for a better tomorrow through highly cited publications, conferences, technology standards, and professional and educational activities. IEEE is the trusted voice for engineering, computing, and technology information around the globe.

Membership Benefits

IEEE membership offers access to technical innovation, cutting edge-information, networking opportunities, and exclusive member benefits. Members support IEEE's mission to advance technology for humanity and the profession, while memberships build a platform to introduce careers in technology to students around the world.

MESSAGE FROM SUBSECTION CHAIR PROF. A. K. TRIPATHY

Message from Prof. A. K. Tripathy, Chair Bhubaneswar Subsection



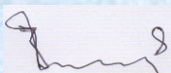
In spite of the threat of the global pandemic, COVID-19, IEEE is active globally as well as locally. We are connected more through e-connectivity. Considering the number of Executive Council meetings, e-lectures and webinars, I would say that we are doing fair justice to our commitment to Engineering and IEEE.

We have five society chapters approved and the subsection is planning to send petition for a full section status. The Power Energy society (PES) Bhubaneswar subsection has received the recognition of best performing chapter award in its category, which is a matter of pride for us.

Among various other achievements are Dr. Subhransu Samantray getting fellowship of IET (Institution of Engineering and Technology), UK, Dr. Ajit Panda getting nominated as VP in the Device section of region 10. Dr. Braja kishore Mishra coordinating the student chapter activity Region 10, two webinars from Dr. Saifur Rehman past Chair PES IEEE (and president elect candidate IEEE for 2021). We had a very well attended conference by SIT and the spark group, with other events given coverage in this News Letter. It is good for us that our student chapters are participating more and more and we expect a large growth in the number of student members in the last quarter as well as year 2021.

I welcome the newly created societies of Power Electronics, Consumer Electronics, Industrial Electronics, combined society on Computer society and communication society and expect much more activity incoming six months. There is scope for substantial Industry Academic interaction in the State of Odisha.

Wishing all members good health.



A.K. Tripathy

Message from Dr. S. R. Samantaray, Secretary, IEEE Bhubaneswar Subsection



I am extremely happy to know about the release of the 3rd edition of the newsletter which is the message board of IEEE Bhubaneswar subsection containing various activities, events and other sections.

Over the last 4 months we are really under the trap of COVID 19 which has halted the world to still and plunged growth of almost all sectors across. However, this may be a temporary phase and definitely we will overcome this scenario over the time. Thus, every one of us must be careful during this critical time to ensure a safe and corona free time.

I am extremely happy to share that our subsection is gearing up in almost all sections starting from membership drive, society activities and student activities. This is really a matter to celebrate that with hard effort from our society members, we could establish 4 society chapters including Power Engineering Society, Power Electronics Society, Industrial Electronics and Consumer Electronics society chapters. This is further to convey that the joint communication and computer society chapter is in progress. Now, under the society chapters, the activities will exponentially grow which is expected from any IEEE local bodies.

In early 2020, we have conducted workshops and events under the technical co-sponsorship of the subsection in various institutions. In between we have organized numbers of webinars by reputed international and national experts which have really imparted serious impetus for the attendees. This series will continue as part of the subsection activities.

Further, I congratulate the members got elevated to senior members and got hierarchy in IEEE and other international bodies.

Let's work together for the growth of the subsection and Stay safe !!

Wishing you all the best.

S R Samantaray

ACTIVITIES

EVENT-01:

NWSGT-2020 at IIT Bhubaneswar:

2ndNational Workshop on RECENT DEVELOPMENTS IN SMART GRID TECHNOLOGIES (NWSGT-2020) "Monitoring, Protection and Control of micro grids" held at IIT Bhubaneswar during 23rd -24th January 2020. The theme included various issues starting from wide-area monitoring, control, protection, communication, security for effective and reliable operation of the electrical power networks. The workshop aimed to include sessions with high grade lecture Talks and discussions by experts from Academia and Industries, followed by Laboratory practices on Real Time Digital Simulator (RTDS) and Renewable Emulator systems. The major topics to be covered in this workshop are: –Phasor Measurement Unit (PMU) and Wide-Area Monitoring in micro grid, advanced protection and Controls for hybrid ACDC and DC micro grids. Coordinated protection and control in smart micro grids, wireless Sensor Network and IoT in Micro grid Monitoring, Artificial Intelligence and Data-mining in smart micro grid. The workshop was inaugurated by Dr. Saurabh Gard, Chairman, OPTCL, Prof R. V. Raja Kumar, Director, IIT BBSR. Prof S. C. Srivastava from IIT Kanpur delivered the inaugural note. The workshop was technically sponsored by IEEE PES Chapter, Bhubaneswar and UI-ASSIST (Indo-US forum), New Delhi. Other financial sponsors includes DST, New Delhi, OPTCL, FEDCO, QUARTZ India Pvt. Ltd, RTDS Technologies Ltd.





EVENT-02:

National Workshop on Emerging Technologies in Electrical Power Engineering (NWET-2020)

IEEE PES Chapter, Bhubaneswar, in association with Silicon Institute of Technology, Bhubaneswar organized the three day national workshop NWET-2020 from 27th to 29th February 2020. This is the 11th edition of its series with workshop theme as “Power with Quality, Reliability, Safety and Security”. NWET 2020 has seen large participation from industry as well as from the academia. 36 industry professional, 23 members from academia and 51 student delegates graced their presence to share and enhance their knowledge. Eminent people from industries and academic institutes of national reputation spoke and shared their experience on the subject. Some of them are Dr. R. Nagaraj, IEEE-PES Chapter Rep. Region 10 -West (India), Prof. A. K. Tripathy, Chair, IEEE Bhubaneswar sub-section, Prof. Sarasij Das, IISc Bengaluru, Mr. K. K. Murty, M-CIGRE, Former Chief Engineer & HOD (Testing & Comm.), MPPTCL, Dr. Rajanmani Krishnamurti, Chief Engineering Consultant, Power Linkers, Mumbai, Er. Sanjay G. Patki, former chairman-national study committee of CIGRE India on protection and automation & former VP, Tata Power, who shared their rich experience in the power sector.

Many corporate houses from power sector such as OPTCL, Odisha, Siemens, GE, Testo India, Fluke Instruments, Midel, Sonellndial Pvt. Ltd., Secure meters etc., financially supported the event as sponsors. The event was technically supported by all India power engineer’s group “SPARK: Ignited to share”. During the workshop a product exhibition was arranged where recent products related to power sector was displayed by the parent industries.



Guests on dais during the release of the souvenir in the inaugural function



Eminent persons from power industry Dr. Rajamanai & Mr. Sanjay Patki with IEEE PES chapter chair, Prof Ramaprasad Panda during NWET-2020



Delegates during NWET-2020

EVENT-03:

All India Power Engineer's Meet (AIPEM-2020), 1st March 2020

On 1st March 2020, AIPEM-2020 was organized by IEEE PES Chapter in association with Silicon Institute of technology, Bhubaneswar and all India power engineer's group "SPARK: Ignited to share" in the institute auditorium. There were 200 delegates participated from various industries. There were three technical sessions in which a pool of subject experts interacted with the delegates on the theme "Emerging Technologies, Now and Next...". There was no delegation fee for the delegates. A proceeding was published on this occasion. Each delegate was presented a knowledge stick (A 16 GB pen drive with study material for power engineers). The event was financially supported by various industries from the power sector.



A group of eminent professionals during AIPEM-2020

EVENT-04:

ITER, SOA Deemed To University & IEEE Bhubaneswar Sub Section jointly organized a Lecture series from 12th February to 18th February 2020. The program was organized in Seminar Hall CSE Dept. Room No. 218, ITER, SOA Deemed To be University. Every day two sessions are conducted one from 12:00pm to 1:30pm and the second is from 3:30pm to 5:30pm.

Speaker: Prof. Gautam Chakraborty, Professor & Head of Intelligent Informatics Lab. Department of Software & Information Science, Iwate Prefectural University, Iwate Ken, Takizawa, Japan.

The event was successfully conducted in presence of many participants across the country.

STUDENTACTIVITIES

Student Branch Activities of IEEE Bhubaneswar Subsection

There are various events organized by IEEE Student Branch – GIET University in association with various organizations which are as follows:

1. **Three Day Online COVID-19 General Awareness Quiz** organized by IEEE Student Branch, GIET University from **11th April & 13th April 2020**.
2. **"World Intellectual Property Day Celebration"** on **April 26, 2020** jointly organized by IEEE Student Branch & Institution's Innovation Council, GIET University in association with National Research Development Corporation, GoI & WIPO-TISC presents webinar on Intellectual Property and Technological Innovation in COVID-19 and Role of University R&D Spill Over for Societal Benefits.

3. **GIETU Online Hackathon** (Theme: Hack for good COVID-19 : Protect the Society!) organized by IEEE Student Branch – GIET University in association with Incubate IND & HERE Technologies during **16 – 17 May, 2020**.
4. **Alumni Webinar Series (Lecture - 01)** by Dr. Kaushik Pal, Indian Institute of Technology, Roorkee, India. (GIET Alumni 1998-2002 Batch) on Advancements in Low Dimensional Nanomaterials for Various Applications organized by IEEE Student Branch, GIET University on **17th May 2020**.
5. **Alumni Webinar Series (Lecture - 02)** by Bhabani Shankar Prasad Mishra, KIIT University, India on A Pragmatic View of Computational Intelligence in Large Database organized by IEEE Student Branch, GIET University on **24th May 2020**.
6. **Two Day Online Debate Competition** organized by IEEE Student Branch, GIET University from **25th May & 26th May 2020**.
7. **International Online Seminar on future perspectives for COVID-19: Challenges and solutions** organized by IEEE Student Branch, GIET University from **30th May 2020**.
8. **Alumni Webinar Series (Lecture - 03)** by Mr. D. K. Diwakar (GIET Alumni 1999-2003), Germany on SAP role in IT Industry organized by IEEE Student Branch, GIET University on **31st May 2020**.

IEEE- IIIT Bhubaneswar Student Branch (STB08131)

Event-01: Title: Workshop on: **Web Development Boot Camp**

Date & Time: 1st February, 9am - 7pm, **Venue:** AG01 IIIT Bhubaneswar

Speaker: Mr. Guru Prasad Mohapatra, Founder of Smarter's Studio & Speaker at Google Developer Group

The first session was held on web development taken by Guru Prasad Mohapatra - Founder of Smarter's Studio taught us about full stack development. The session was held in two parts. First part covered Front-end using html, CSS and Java script. Second part covered the Backend using Nodejs.

Really the crowd was surprised as the organizers at last called co-founder of Lecture notes Mr. Ayush Agrawal. And all the crowd was deeply inspired by his words.



Event-02: Title: Workshop on: **Hands On with Blockchain**

Date & Time : 2nd February 2020, 9am - 7pm , **Venue:** AG01 IIIT Bhubaneswar

Speakers: Mr Priyabrata Pati, Senior Software Engineering Kare4u Healthcare Solutions

Mr Pranav Maheshwari, FounderTech Boot Camps & Keynote Speaker at Tech Bhubaneswar

The first session was taken by Pranav Maheshwari and Mr. Priyabrata Pati. In the first part of the session, he covered all the theoretical parts and demonstrated us by taking real life examples. He explained how blockchain is the future of the world and in the second part he taught the attendee how to code in blockchain using Solidity.

Event-03: Title: Workshop on: IOT and Its Industrial Applications

Date & Time: 2nd February 2020, 9am - 7pm, **Venue:** AG01 IIIT Bhubaneswar

Speakers: Dr. Suraj Sharma, Assistant Professor, IIIT Bhubaneswar

Mr. Siddharth Bhattar, CoFounder and CEO Kharkhana Makerspace

The first session has taken by Mr. Siddharth Bhattar, who talked about Arduino microcontroller and basics of IoT and sensor operation. In the session, Dr. Suraj Sharma, took all hands-on on IoT devices and sensor, Android APP development and Google cloud setup. In IoT device and sensor Node, MCU ESP8266 microcontroller has been used with DHT sensor to get the current Humidity and Temperature. In the next phase Google Cloud (Firebase) setup has been done so that the data generated by the DHT sensor will send to Google Cloud. After that and Android app has been developed by the students in MIT app Inventor to monitor the sensor data remotely by the user using the Android APP.



Event-04: Title: IIIT-Bhubaneswar ADVAITA: Paper Presentation

Date: 8th February 2020, 9am - 7pm, **Venue:** AG01 IIIT Bhubaneswar

Detail: Participants present their research or project findings with its method/ prototype/ working principle.



Even-05: IEEE Student branch- IIIT Bhubaneswar, has brought to you an interesting webinar as a part of the "**Academia Webinar Series**".

Topic of Webinar: "Microgrids: Key Issues and Challenges"

Speaker: Dr. PESN Raju, Postdoctoral Research Associate at the University of Manchester, UK

Date and Time: 13th June 2020, 2.00 PM to 3.00 PM

IEEE - SIT Bhubaneswar, Student Branch

Event-01: Charity Drive

Charity is one of the noblest tasks that a man can do in his life. There goes a famous saying "Charity begins at home." This is an old saying with a deep hidden meaning inside. This means that it is not enough to contribute good and money to the charitable organizations alone. IEEE Silicon Student Chapter along with Silicon Student Council extended this idea of uplifting each other by organising a charity drive for giving an Automatic Wheel Chair to especially abled student.

Date: 18th October 2019 to 27th January 2019

Venue: Silicon Institute of Technology, Bhubaneswar



Prof. Dr. Saroj Kanta Mishra and Prof. Dr. Jaideep Talukdar Inaugurating the Wheel Chair

Event Execution: The first thing we did was that we set up a fundraising committee within our group. We asked interested members to volunteer their time, efforts, and resources and show their commitment to our group in it's' efforts to raise money for the noble cause. The core team members encouraged the students for donating money for this drive from every department and year. The minimum amount to be donated was Rs.20 for the students, Rs. 50 for teaching staff and Rs. 30 for non-teaching staff. Our volunteers were able to collect an approximate amount of 22,000 from around 910 students and faculties from different



Faculty members presenting the wheelchair to Mr. Sambit Kumar Sahoo

Departments that are CSE, ECE, EEE, EIE and MCA. The college also sponsored around Rs. 20,000.



Mr. Sambit Kumar Sahoo conversing with the audience



Vice-President Mr. Prashant Kumar giving the vote of thanks

Outcome: We were able to collect such a good amount from students as well as staff members. This drive helped spread awareness of how a small act of donating just Rs. 20 can change a life and bring a huge smile on his face. It also helped develop team work skills among the volunteers and coordination among the students and staff members.

Event-02: IEEE Membership Drive

IEEE Silicon Students' Chapter organized a membership drive to make the fresher's aware of IEEE and IEEE membership advantages. Our volunteers managed to encourage approx. 40-50 students to be a part of IEEE Silicon Students' Chapter. This Drive is conducted every year during the Orientation program of freshers' to make the students aware of this organisation.

Date of Event: 2nd August 2019 **Venue:** North Lawn, Silicon Institute of Technology, Bhubaneswar

The volunteers explained the 1st year students what IEEE is, the advantages of being an IEEE member and the extra benefits they get. The parents also took interest in knowing about this organisation and encouraged their children to register for the same. Refreshments were also provided to the volunteers for their hard work.

Outcome: The volunteers managed to encourage 40-50 students to be a part of the IEEE Silicon Students' Chapter. The drive was a success as we were able to encourage number of students more than what we targeted for.

Conclusion: The day ended with complete satisfaction among the IEEE Branch Representative as it was a great success with more no. of students involved as expected. We look forward to engage more no. of students in IEEE Student's Chapter of IEEE across India.

Event-03: IEEE Orientation Programme

The IEEE Silicon Students' Chapter had organized an Orientation Programme for the first-year students to get them know all about the working and mission of IEEE and the benefit they can get from this.

The Orientation Programme is conducted every year at the beginning of the session so that the first years can enjoy meanwhile focusing on their studies.

Date of Event: 6th September, 2019.

Venue: Room No. 112, Old Building, Silicon Institute of Technology, Bhubaneswar.

The event was inaugurated with a crowd of 60 students where three of our student representatives gave the presentation on what is IEEE, its mission and vision, what are the roles of members, its benefits and advantages. Furthermore, the students were given idea about the IEEE magazines and the various applications available to make use of it. At the end of the presentation the Events to be conducted in this academic year 2019-20 were discussed.

The orientation programme was a great success. The students were completely indulged in the programme and more no. of registrations also came up at the end of the day. We completely owe this credit to him. The students are now completely thorough with the IEEE Silicon Students Chapter and are interested in getting involved in various kind of volunteering activities.

The day ended with complete satisfaction among the IEEE Branch representatives as it was a great success with more no. students involved as expected. We look forward to engage more no. of students in IEEE Silicon Students Chapter and emerge as one of the most widely known Students Chapter of IEEE across India.

Outcome: The orientation programme was a great success. The students were completely indulged in the programme and more no. of registrations also came up at the end of the day. The students were completely thorough with the IEEE Silicon Students Chapter and are interested in getting involved various kind of volunteering activities.

Conclusion: The day ended with complete satisfaction among the IEEE Branch Representative as it was a great success with more no. of students involved as expected. We look forward to engage more no. of students in IEEE Student's Chapter of IEEE across India.



President Mr. Sarvodaya Kumar giving an overview of IEEE to the freshers



IEEE core member explaining the advantages of IEEE membership

Event-04: GO-Freak



Student chapter had organized an event 'GO FREAK' comprising series of Socio-technical tasks having certain level of difficulties according to which points are attached to it.

Event Launch: 10th December, 2019 **Event Ended:** 23rd February, 2020

Time: 10:00 AM to 05:00 PM

Venue: Lecture Theater-1, New Building, Silicon Institute of Technology, Bhubaneswar



Event Execution: The event was launched 2 months before the last date, giving time to the students for proper completion of tasks. Every team is asked to accomplish 12 tasks out of 16. A series of task was given to them like Energy conservation, NukkadNatak, Cloth Donation, Blood Donation etc., with complete details about the points, rules, proofs and documentation. For Promotion point of view, several posters of various tasks were launched. Promotion was done in the hostels and the classes by our student members, they went and explained everyone about the event. The social networking sites like youtube, instagram, facebook were made active and all the posters and important information were updated.

As most of the events of GO-FREAK are social events, we invited three socially active ladies as the jury members of the event- Sangita Majhi, Chumki Datta and Sharda Bharty. They are all well-known personalities of our society due to their Socially active well fare activities.

The PRESENTATION day- The event started approximately at 11:00 am at Remote Centre or Video Conferencing hall of our new building. At first the Welcome speech to the respected juries and the participants was delivered by the student member of IEEE Students' Chapter followed by the speech of the President of IEEE Students' Chapter, SIT, Sarvodaya Kumar to encourage the participants, wishing them luck and appreciated them for the participation.



Jury members of the event

presentation, the judges finalised their



As the presentation carried the highest marks, the teams gave away their best performance. The Presentation started around 11:45. A Group from 2nd Year, Silicon Institute of Technology presented first followed by the question hour session conducted by the juries for about 1 hour. The team explained the juries about their ideas, intention and learning with respect to every task.

Refreshment and lunch were provided to everyone and after a break the event resumed at 2:30 pm. The second group gave their presentation, explained their prospective and ideology and also faced a question answer session asked by the judges for around one hour. After the decision and declared the results.

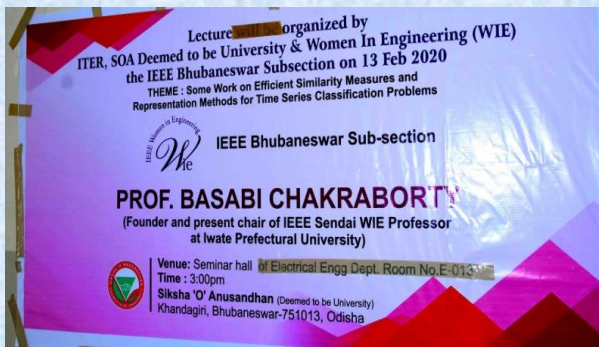


Outcomes: It was a great platform to showcase their talents, improvise personality and last but not the least many people got the help they needed.

Conclusions: The event surely did match up to the expectations of the participants. All the participants tried their best for winning the title, the juries were satisfied with the conduction of the event. With sheer dedication and constant support of all the faculty members, IEEE student's chapter did make 'GO FREAK' a success.

WIE GROUP ACTIVITIES

On 13th February, 2020, WIE group of IEEE Bhubaneswar subsection organized an invited lecture in association with ITER SOA deemed university. Prof. Basabi Chakraborty, SMIEEE, Founder and Present Chair of IEEE Sendai WIE was the speaker of the session. The theme of the lecture was "some work on efficient similarity measures and representation methods for time series classification problem". Participants from various institutions joined the program.



RECOGNITIONS



Dr S R Samantaray has been elevated to the grade of Fellow, IET (Institution of Engineering and Technology), UK

Fellow of the UK Institution of Engineering and Technology (FIET) is the highest grade of Institution of Engineering and Technology membership, awarded to those who have sustained high levels of achievement, for several years. Fellows must demonstrate to fulfill at least some of the nine following criteria: Leadership, Responsibility, Insight and Experience, Creativity, Innovation, Enterprise, Service, Reputation and Influence and Contribution.

The Institution of Engineering and Technology (IET) is the largest multidisciplinary professional engineering institution in the world. The IET was formed in 2006 from two separate institutions: the Institution of Electrical Engineers (IEE), dating back to

1871, and the Institution of Incorporated Engineers (IIE) dating back to 1884. Its worldwide membership is currently in excess of 153,000. The IET's main offices are in Savoy Place in London, England and at Michael Faraday House in Stevenage, England.

Senior Member IEEE: (Elevated in the Year- 2020)

Dr. Pradyut Biswal
Prof. Mihir Mohanty
Prof. Renu Sharma

IEEE MGA Serving:

Prof. Ajit Kumar Panda (Vice President, EDS, R10)
Prof. Brojo Kishore Mishra (Student Volunteer R10)

INDIAN GOT IEEE RECOGNITIONS

IEEE Fellows 2020 from India

Kartikeyan Machavaram, Roorkee, India
for contributions to high-power millimeter wave and terahertz sources

Ujjwal Maulik, Kolkata, India
for development of algorithms in evolutionary clustering and bioinformatics

IEEE Medals 2020 from India

IEEE SIMON RAMO MEDAL, for exceptional achievement in systems engineering and systems science, sponsored by Northrop Grumman Corporation, to Co-Recipients **BYRANA N. SURESH** (nonmember)—**Honorary Distinguished Professor, Indian Space Research Organization**, Karnataka, Bangalore, India

AND

K. SIVAN (nonmember)—**Chairman, Indian Space Research Organization**, Karnataka, Bangalore, India Citation "For outstanding leadership in developing a national space program and pioneering space technology."

IEEE PES Award from India 2020

Rajendra Prasad Sasmal, Shri **R P Sasmal**, Director (Operations), Powergrid

IEEE PES Nari Hingorani FACTS Award 2020

IEEE Consumer Electronics Society Chapter, Bhubaneswar

IEEE Bhubaneswar Sub-Section, Odisha, Interim Executive Committee



Kamala Kanta Mahapatra [*Chair*] is a professor (HAG) in ECE Department of NIT, Rourkela, since February 2004. He is a fellow of the Institution of Engineers (India) in ECE Division. His research interests include embedded computing systems, VLSI design, electronic circuits, and industrial electronics.
Contact: kkm@nitrkl.ac.in; 9437246541

Chinmoy Kumar Panigrahi [*Secretary*] is the Professor and Director, School of Electrical Engineering, KIIT University. Current Research areas are Smart Grid, renewable energy system. He has guided 17 (PhD), 64 (M.Tech.) Scholars, published 64 research articles in referred Journals. He has 29 years experience in both teaching and research. Contact:director.electrical@kiit.ac.in;9439050522





Pratap Kumar Panigrahi [*Vice Chair, Membership*] is working as a Professor in the department of Electrical Engineering of GIET University. His research interests include Control Application to Renewable Energy Sources, Micro Grid & Smart Grid Systems, IoT Application to Micro Grid & Smart Grid Systems, Control Application to Robotics. Contact: pratapkumarpanigrahi@ieee.org; 7008189716

Bibhudatta Sahoo [*Vice Chair, Industrial Liaison*] is an Associate Professor in the Department of CSE, NIT Rourkela, and a member of the Communication and Computing Research Group. His research interests lie in the area of Parallel and Distributed Systems, Cloud Computing, Internet of Things, Software-defined networks, Multicore Architecture, and Algorithmic Engineering. Contact: bibhudatta.sahoo@gmail.com; 06612462358



Arunanshu Mahapatro [*Vice Chair, Technical*] is an Associate Professor in Electronics and Communication Engg. Dept, VSSUT, Burla. His research areas are wireless sensor networks, fault tolerant computing and pattern recognition. Contact: arun227@gmail.com; 9437438294

M. Sabarimalai Manikandan [*Vice Chair, Sponsorship*] is currently working as Assistant Professor at the School of Electrical Sciences, IIT Bhubaneswar, Odisha. His research interests include: Electronic System Design, Signal and Image Processing, IoT, Machine Learning. He has more than 12 years in Academic and Industry. Contact: mms@iitbbs.ac.in; +91-7894447889



Ayas Kanta Swain [*Vice Chair, Media*] is an assistant professor at ECE Department NIT Rourkela since 2011. His research interests include Secure architecture for Network on Chip based Multi-Processor System, VLSI design, and Embedded System. Contact: swain.ayas@gmail.com; 09437341298

Ranjeeta Patel, [*Treasurer*] Assistant Professor (II), School of Electrical Engineering, KIIT-DU, Bhubaneswar. Her research interests include Power Quality, Harmonic Mitigation, Active Power filter, Shoot-through Phenomenon, Fuzzy Logic Controller, Renewable Energy Integration, EV Charging Infrastructure. Contact: ranu.susa@gmail.com; 9348369190.



Niranjana K Ray [*Newsletter Editor*] is an Associate Professor in the School of Computer Engineering at KIIT-DU, Bhubaneswar. He received his PhD from NIT Rourkela. His area of interest includes WSN, MANETs, IoT, etc. He is a senior member of the IEEE and in the editorial board of IEEE Consumer Electronics Magazine. Contact: rayniranjana@gmail.com.

Umasankar Das [*Webmaster*] is a Sr. Asst. Professor at Silicon Institute of Technology Bhubaneswar since 2005. His research interests are online Social Networks, User Behavior study and personalization in Social Network, Target Advertisement, Privacy Settings: User Expectation and UI Optimization. Contact: umasankar@silicon.ac.in; 9338871664.



Dr. Saraju P. Mohanty [Advisor (Academia)] is a Professor in the Department of Computer Science and Engineering (CSE), University of North Texas (UNT), Denton, TX; a Tier-One (R1) Research University as per Carnegie Classification, where he directs the Smart Electronic Systems Laboratory (SESL). He received IEEE Consumer Electronics Society Outstanding Service Award in 2020 for leadership contributions to the IEEE Consumer Electronics society. He received IEEE-CS-TCVLSI Distinguished Leadership Award in 2018 for services to the IEEE, and to the VLSI research community. He has been recognized as a IEEE Distinguished Lecturer by the Consumer Electronics Society (CESoc) during 2017-2018. Contact: sarajupmohanty@gmail.com.

Warren Julian, [Advisor (Academia)] is a Director at International Solid State Lighting Alliance, Sydney, Australia, warren.julian@sydney.edu.au.



Mr. Dilip Kumbhat, [Advisor (Industry)] CEO, K-Lite is elected as President Governing Body, ISLE. He is an industrialist and a mechanical engineer from Chennai with more than 40 years in the manufacture of luminaires. Has held prestigious positions in industrial associations as President and Chairman in an Indian Government's joint sector company, CAIUC in Ambattur. Conducted international exhibitions for Ambattur Industrial Estate Manufacturers Association under the banner 'ACMEE' and lighting exhibition Lii 2011 and Lii 2013. Was Chairman of Chennai State Centre of ISLE since inception till 2011 and Vice President of ISLE, Governing Body. Contact: info@klite.in

IEEE- IES Society Joint Chapter Bhubaneswar Subsection and Kolkata Section

Industrial Electronics Society (IES) of joint chapter Bhubaneswar subsection and Kolkata section came in to existence in the end of June 2020 with eminent academican, **Prof. Akshay Kumar Rathore** and technocrat, industrialist **Mr. Kamal Sethia** as its advisor. This society is newly born baby under Bhubaneswar Subsection with the objective to emphasize the importance of research, design of processes and control for the level of industrial acceptance.



Prof. Akshay Kumar Rathore, Professor, Concordia University, Montreal, QC, Canada Advisor (Academia)



Mr. Kamal Sethia, Managing Director, Cosmos Engineering Industries Pvt. Ltd. Advisor (Industry)



Dr. Chandrasekhar Perumalla[Chair]received his B.Tech degree from JNTU, Hyderabad, M.Tech. degree from NIT Rourkela and Ph.D. degree from IIT Delhi, all in Electrical Engineering stream. He was an Assistant Professor at NIT Warangal, from 2014 to 2017, and is currently an Assistant Professor with the School of Electrical Sciences, IIT Bhubaneswar.He was a Transnational Access Researcher with The National Smart Grid Laboratory, Trondheim, Norway, in 2017 under H2020 Programme. Dr. Sekhar was a recipient of the Young Engineer Award from Institution of Engineers (India), in 2017; Early Career Research Award (Young Scientist) from DST in 2016; Best Ph.D. Thesis Award from INAE, in 2015; Madhusudan Memorial Medal from the Institution of Engineers (India) in 2009; and the POSOCO Power Systems Award in 2013.



Dr. Tanmoy Roy Choudhury [Secretary] received his B. Tech in EEE and M.Tech. in Power Electronics & Drives from the NIT Agartala, India in 2009 & 2012 respectively. He obtained his PhD degree from KIIT (DU) Bhubaneswar. Presently, he is working as an Assistant Professor in School of Electrical Engineering, KIIT (DU), Bhubaneswar, India.



Dr. Sriparna Roy Ghatak [Treasurer]received her B.E degree from ITER, Bhubaneswar in 2005, the M.Tech. degree from the UCE Burla in 2007, and Ph.D. degree from NIT Durgapur, in 2018.She is currently working with KIIT (DU) Bhubaneswar as an Associate Professor. She has 12 years of teaching experience.



Dr. Subhra Debdas[Vice Chair-Technical Activities]completed his B.E.(Electrical Engineering) and M.E.(Power system engineering) degrees from IEST, Shibpur and PhD from Sainath University Ranchi. Dr. Debdas having more than eighteen years of teaching experience in India and abroad. Presently he is working as an Associate Professor at KIIT (DU) Bhubaneswar.



Dr. Rabi Narayan Mishra[Vice Chair - Membership]completed his M.Tech in Power electronics and drives from KIIT (DU), and Ph.D. from NIT Rourkela. Dr. Mishra has vast teaching and research experience of more than a decade. Presently he is working as an Associate Professor at Silicon Institute of Technology Bhubaneswar.



Dr. Srikant Mohapatra [Webmaster / Industrial Liaison] received his B. Tech degree from CET, Bhubaneswar, M.Tech. degree from SOA University, Bhubaneswar and Ph.D. degree from KIIT (DU) Bhubaneswar. He has more than two decades of experience in teaching and research. He is working as an Associate Professor at KIIT-DU, Bhubaneswar, India.



Dr. Amit Kumar [Newsletter Editor] received his M.Tech. degree in Power System Engineering from VSSUT, Burla in 2012 and Ph.D. degree in Electrical Engineering from NIT Rourkela in 2019. He was working as an Assistant Professor at SIT Sambalpur and at present he is a Post-doctoral Research Associate in the Department of Electrical Engineering, IIT Delhi India.

India's Kolkata and Bhubaneswar Inaugurate IEEE PELS Joint Section Chapter

On 30 December, 2019, the School of Electrical Sciences, IIT Bhubaneswar, Odisha, India inaugurated the IEEE Power Electronics Society (PELS) joint section Chapter of Kolkata section and Bhubaneswar sub-section. The new Chapter was jointly inaugurated by the Prof. Sanjib Kumar Panda of National University of Singapore and Prof. A. K. Tripathi, Ex-Director General of Central Power Research Institute (CPRI), Bangalore, in the presence of faculty members from various reputed institutions such as Kalinga Institute of Industrial Technology (KIIT), Institute of Technical Education and Research (ITER) and Gandhi Institute of Technological Advancement (GITA). More than 40 students and several faculty members from the School of Electrical Sciences, IIT Bhubaneswar participated in this inaugural ceremony (Figure 1). Dr. Srinivas Bhaskar Karanki, Chair of the Joint Section Chapter gave a brief introduction of the activities planned in the year 2020.

A technical talk "High Performance and Energy Efficient Matrix Converter for Interfacing Battery Energy Storage System with Utility-grid" was delivered by Prof. Panda, Associate Professor and Area Director of the Power & Energy Research at the Department of Electrical and Computer Engineering, National University of Singapore. During the talk, Prof. Panda presented comparative analysis of matrix based converter with traditional converter by highlighting the benefits of the matrix converter in terms of efficiency and power quality. In addition, he also discussed novel control and modulation algorithm to facilitate bidirectional power flow, as well as to overcome unbalanced conditions in the electric grid.

The inaugural ceremony was followed by a mini-workshop on digital signal processing (DSP) using Texas Instruments' DSP board F28379D. It was conducted by Kedarnath Singam from Bhumitra Technologies. The workshop offered the participants an opportunity to acquire hand on experience on developing pulse-width modulated (PWM) pulses. The aim of the IEEE PELS joint section Chapter is to facilitate the development and innovation in power electronics technology field for the students and researchers working in the power electronics area in the Bhubaneswar region.



More than 40 students and several faculty members from the School of Electrical Sciences, IIT Bhubaneswar participated in the inaugural ceremony of the IEEE PELS joint section Chapter of Kolkata section and Bhubaneswar sub-section. Source: Dr. Srinivas Bhaskar Karanki

IEEE Conference: International Conference on Computer Science, Engineering and Applications, March 13-14, 2020 Organized by GIET University, Gunpur India



Dr. Gautam Ghosh, Vice Chancellor, GIET University, Prof.(Dr.) Jagdish Panda, GIET University, Prof. (Dr.) Goutam Saha, Dean, Department, North Eastern Hill University, Shillong, Prof. (Dr.) Atal Chaudhuri, Vice Chancellor, VSSUT, Prof (Dr.) Satya Prakash Panda, President, GIET University, Dr. C. V. Reddy, GIET University, Dr. Sanjay K Kuanar, GIET University (From Left to Right)



Prof. (Dr.) Siba Kumar Udgata, University of Hyderabad Charring a Session by Dr. Sujata Chakravarty, CUTM Odisha & Dr. Srinivas Sethy, IGIT, Sarang

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