Vol: 20 # 3
July – September 2024

IEEE Advancing Technology for Humanity

ICVAANI

IEEE India Council Newsletter

IEEE INDIA COUNCIL

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Message from Chair IEEE India Council

Dr. Debabrata Das

Dear Esteemed IEEE Members,

Greetings from IEEE India Council!

It is a pleasure to release the third quarter of 2024 this digital form of Newsletter (IC-Vaani).

In the history of IEEE India Council, the date of 21st July 2024 will remain unique, as all the three Presidents of IEEE, i.e., immediate past President Dr. Saifur Rehman, Present President Dr. Tom Coughlin, and President Elect Dr. Kathleen A. Kramer, and VP MGA Mr. Deepak Mathur attended the IEEE India Council (IC) Execom meeting in Bangalore, India. After the introduction of activities of India council from Dr. Debabrata Das, Chair, IEEE India Council, Dr. Sabarinath Pillai, Secretary IC, Dr. Prerna Gaur, Chair Elect IC, Dr. Vijayalata, Treasurer, all the above presidents and dignitaries appreciated activities of IC. The meeting was attended by Dr. Sameer, Dr. Puneet Misra, Dr. John Jose, Ms. Sadhna, Dr. Chengappa, Mr. Asthana, Mr. Sri Chandra, Dr. Surekha, Mr. Shone Jose, Dr. Chandrakanta, and others. Mr. Deepak Mathur highlighted the unique features of IC as a Council. It was also discussed that; other councils of world can learn good practices as a model from IC. With respect to membership, IC is not only the largest council in R10, but also in the world. At the end MOVE Kit of IC was inaugurated by President Dr. Tom Coughlin. Mr. Sankaran of Computer Society felicitated by Dr. Saifur Rehman for his contributions to start "IEEE J C Bose Medal" in wireless communication. I want to profusely thank IC execom and all the sections for their contributions to bring in laurels from IEEE Presidents and VP MGA.

It was proud moment of IC, to see the rise of one of the flagship conference INDISCON within 5 years, ie., 2000+ papers submission in 2024. The conference was held in August 22-24 in Chandigarh, lead by Prof. Arun K Singh Punjab Engineering College and team from IEEE Chandigarh SubSection. My heart felt thanks to Prof Arun and the team for managing such a big conference well and warm hospitality.

September 2024 had multiple activities and a few are: thanks to Prof. Preeti Bajaj for hosting the curtain raiser for IEEE SSH (Sustainable Solution for Humanity) hackathon from R10, IC, IEEE Hong Kong, KITE and Chitkara Universities on 19-9-2024. Appreciate Prof. Lakshminarayana Sadasivuni for hosting IEEE IC talks from eminent speakers of various chapters/societies across India to bring in possible collaborations on 23-9-2024. Deepest thanks to Prof. Kasim, Chair IEEE Kerala Section for hosting IEEE Leadership meet in Kochi from 25th – 26th September 2024 for coordinating and warm hospitality. It was a unique event with wonderful experiences and exchanges of leadership ideas. Lots of learning from other leaders of IEEE to build a strong IEEE community. A deep appreciation to a part of our IC team Prof. Prerna Gaur, Prof. Ansari, and Delhi Section and others for hosting TENSYMPS 2024, a flag ship conference of R10 in Delhi in grand manner.

I want to appreciate the contributions of all Vice Chairs, cordial association of all the Sections and Sub-Sections' Volunteers and respective Chairs as well as Society, Chapters and Affinity groups. Big thanks to contributions of Prof. Gopalan Nair, Editor of IC-Vaani, Mr Biju Associate Editor for the release of third quarter edition of 2024 IC-Vaani.

Looking forward to meeting you during AISYWLC 2024 in Chennai and INDICON 2024 in IIT Kharagpur the above flagship events of IC and working with you for various forth coming activities in year 2024.

Warm Regards,

Dr. Debabrata Das

Chair, IEEE India Council

Editorial

Prof. (Dr.) K.Gopalan Nair
Editor, IC NL.

"Everyone wants to be in a relationship, but not everyone can handle a partnership."

We may discuss two very familiar words, partnership and relationship, both cognizant with our professional arena. In business as well as in formation of enterprises, these words are highly significant. Also, in both partnership and relationship, we harness the power of union.

Let us examine in more details the practical uses of these words. We know 'partnership' is a type of relationship and is basically considered as a business affiliation. It describes the situation when people connect together to achieve certain goals. At the same time 'relationship' is a blanket term used to describe connection between two or more people. In another way, relationships are about seeking pleasure but partnerships are more about seeking purpose.

Obviously, relationships are complex. In our surroundings, everyone is in a relationship with others. Our best friend is probably in a relationship with another, who may be in another four or more groups. Likewise, the relationship expands. A relationship usually comes into play only after two people give into their lust, and want to be vulnerable with each other. At the same time, anyone can have a relationship and gain a few experiences. But one must know enough to figure out the other, in order to like each other is very important. It seems to be a good idea to enter in a relationship. Care should be taken to surround ourselves only with people who are going to take us to higher levels. Even though establishing relationship is always looks simple on the outside, it is usually very complex, twisted and unstable on the inside. At all times, the instability of relationships comes from the opaqueness or sheer absence of feelings.

Consequently, the purpose of partnership is entirely different. It will help us to create something greater than what we can create alone. Any deficiency or incompleteness in us can be eased and efficiency can be increased by the efforts and talents available for creating something meaningful together with a partner. But choosing a partner must be consciously done. Forging quickly during times of need, we may find ourselves rushing into unions, perhaps may not satisfy our clearest intentions. The repercussions of the union may not fulfill, support, and enhance the best of our needs. A partnership that offers both acceptance and opportunity for personal transformation grows to a healthy and lasting union will be our goal. This kind of partnership has to be nurtured.

To conclude, a partnership is not just about honest relationships between two people but a new honesty with ourselves. Emotional integrity can only come when we have complete faith in ourselves. We are two or more stable, confident, and caring people looking out for one another but never dependent. We can summarize relationships as an emotional state; partnerships are about rhythm.

"Relationships begin with feelings; while partnerships are about prioritizing and nurturing each other's feelings and needs."

Prof. (Dr.) K.Gopalan Nair
Editor, IC NL.

Section-1

IC Activities

Dr. Prerna Gaur
Vice Chair & Chair-Elect

Educational Activities

Regardless of monitoring the routine Educational activities, the third quarter of the year witnessed an exciting and exploring educational event 'TENSYMP-2024' organized with a motto of technological advancements to help Society overcome various socio-economic and health challenges. A special WIE & Education Track was organized for a Panel Discussion on "Tech-Driven Solutions for a Better Future," which brought together distinguished experts to explore how technology can drive impactful solutions for a brighter, more sustainable future. This session focused on the integration of technology into various fields and its potential to address the challenges we face today, with a special emphasis on the role of women and education in fostering innovation. The esteemed panel includes Mr. Deepak Mathur, Prof. Preeti Bajaj, Prof. Mridula Gupta, and Prof. Prerna Gaur. These leaders shared their insights on how technology can be a force for positive change in society. (For an impressive and stylized report refer page …..)

(For more photographs see TENSYMP Photo Album)

Branding and Member Benefits

Dr.Lakshminarayana Sadasivuni
Vice Chair

Major Activities in the Quarter can be summarized as below:

15-06-2024: India Council Foundation Day Celebrations:

India Council Foundation Day Celebrations were organized to rejuvenate the members at large and get connected. Sri. Sabarinath Pillai Secretary invited all the IC members and Prof. Debabrata Das Chair IEEE India Council made the opening remarks. Dr. S. Lakshminarayana Vice Chair, Branding & Member Benefits briefed about the previous foundation day celebrations and requested all the sections to celebrate such event with good spirits. Dr. Prema Gaur Chair (Elect) India Council, Dr. Shivaji Chakravorty Advisor IEEE IC, Sri. Deepak Mathur Vice-President IEEE spoke about the IC formation and its development.

Foundation Day Lecture on " Anyone can be an entrepreneur" was delivered by Prof K.R. Suresh Nair Past Chair IEEE IC. Section Chairs mentioned about their activities in view of IC Foundation day.

Dr. S.M. Sameer Interim Chair Bombay, Dr. Kiran Amin Chair Gujarat Section, Prof. Muhammed Kasim S Chair Kerala Section, Dr. Dipankar Debnath Chair Khargapur Section, Dr. Suparna Kar Choudhury Chair Kolkatta Section, Dr. Porkumaran Karantharaj Chair Madras Section, Dr. Surekha Deshmukh Chair Pune Section, Dr. Abraham Varughese Chair Vizag Bay Section, Dr. Abdul Q Ansari Chair - Delhi Section, Dr. Yogesh Singh Chauhan Chair UP Section, Dr. G S Tomar Chair MP Section, Prof. Y. Vijayalatha Chair Hyderabad Section and Dr. T. Srinivas Chair Bangalore Section spoke in this occasion. Prof Debabrata Das, Chair IEEE India Council made his Concluding Remarks and Vote of Thanks offered by Prof Y. Vijayalatha Treasurer IEEE India Council

03-08-2024: Panel Discussion on Best practices in a chapter for section revitalization

- Prof Debabrata Das Chair IEEE India Council
- Sri Deepak Mathur Vice-President IEEE
- Dr Prema Gaur Chair (Elect) India Council
- Dr Shivaji Chakravorty Advisor IEEE IC
- Dr K.R. Suresh Nair Past Chair IEEE IC
- Er. R K Astana Ombudsman IEEE IC
- Members of EXECOM (Vice-Chairs & Section Chairs)

The panel members discussed and mentioned about the advantages of a chapter and section team working together for a mission.

04-09-2024:

IEEE Senior Member – Benefits and Recognitions

Prof. Debabrata Das briefed about the event and mentioned the need of this event as many of the

members are in process of renewal and they are informed about the "Benefits of Senior Membership". Dr. Lakshminarayana Sadasivuni mentioned the advantageous of Senior membership. Dr. Rajasree Jain briefed about the membership strength in all sections and eligibility of members to become Senior Members. Dr. Suresh Nair is the Key speaker for this event and made an elaborative career growth with Senior membership. Dr S.M. Sameer Interim Chair Bombay Section mentioned about various categories of the membership and their use in ones' career.

23-09-2024:

"Cross Culture Volunteers – IEEE Protagonist model"

This event is planned to attract senior members of various sections and a call for speakers was sent. Several members opted to deliver a talk on this topic and two eminent people were identified and invited to address all the IC members. Prof. Debabrata Das Chair IEEE India Council stated about the India Council and its role in improving the culture within the members. Dr. S. Lakshminarayana Vice Chair, Branding & Member Benefits has narrated the process of this talk. Dr. Prema Gaur Chair (Elect) India Council, Dr. Suresh Nair Immediate Past Chair IEEE IC, Dr Shivaji Chakravorty Advisor IEEE IC, R.K. Asthana Ombudsman, IEEE India Council, Dr S.M. Sameer Interim Chair Bombay Section and Sri Deepak Mathur Vice-President IEEE spoke on this topic citing several national and international events.

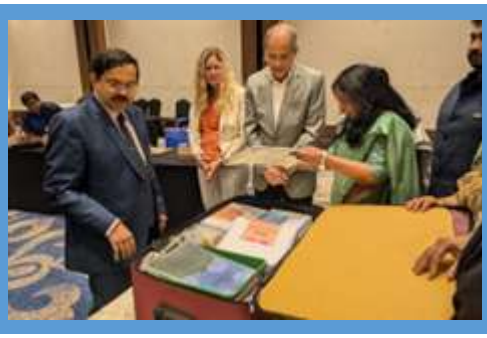
Prof. Yashwant Gupta, Distinguished Professor and Centre Director, National Centre for Radio Astrophysics, Tata Institute of Fundamental Research, Pune University Campus, Pune and K.C. Raveendranathan, Principal (Retd.) College of Engg. Trivandrum are the key speakers for this event. Prof Gupta gave few examples, how a team of 300 with more than 60 countries served in a project. Prof Raveendranathan gave insights of IEEE volunteers and creativity with which IEEE model works.

Ms Sadhana Attavar
Vice Chair

Humanitarian Technologies Activities

Launch of STEM kit of IEEE MOVE India

The STEM kit promoting Climate Change and Sustainability awareness developed by IEEE MOVE India was launched at Bangalore on 21 July 2024 by IEEE President Mr. Thomas M Coughlin in the presence of IEEE President Elect Ms. Kathleen Kramer, IEEE Past President Prof. Saifur Rehman, IEEE Vice President MGA Mr. Deepak Mathur, IEEE India Council Chair Prof. Debabrata Das, IEEE India Council Chair Elect Dr. Prerana Gaur and IC Execom.



Prof. Das presented MOVE India Vehicle model to the dignitaries in the presence of MOVE India Chair Ms. Sadhana Attavar.

Dignitaries with IC EXECOM and IEEE Staff

STEM kit Training Program of IEEE MOVE India (27 July 2024)

STEM kit Training program of IEEE MOVE India promoting Climate Change was organised for participants from various sections of India Council on 27th July 2024 at Bangalore. The participants from the following sections of India Council attended the training program.

1.Bangalore Section

2.Kerala Section

3.Hyderabad Section

4.Madras Section

5.Clacutta Section

6.Kharagpur Section

7.Dellhi Section

8.Madhya Pradesh Section

Prof.Debabrata Das, Chair IEEE India Council formally inaugurating the Training Program

STEM Training Program

Hands on Training on STEM Kits

Participants of STEM Training Program

Support for Wayanad landslide Victims by IEEE MOVE India

On 30 July 2024, heavy rainfall triggered landslides in the Wayanad district of Kerala, India in which more than 400 people lost their lives. IEEE MOVE India donated 25 nos of Schneider solar lanterns and 25 nos of solar based mobile chargers for use during the disaster.

MOVE India volunteers with Solar lanterns on their way to Wayanad landslide area

Demonstration of Solar lanterns and handing over them to the officials of Wayanad District by MOVE India volunteer Eldose Basil from IEEE Kerala Section

TALK AT IEEE WIE ILS Delhi 2024

IEEE WIE ILS Delhi was held at India International Centre Delhi during August 10-11 2024.Ms.Sadhana Attavar Vice Chair HTA,IEEE India Council delivered a talk on Disasters, Climate Change and IEEE MOVE India.

Dr. John Jose
Vice Chair

Industry Academia Relations

IEEE India Council Industry Academia Young Professionals Committee [IAYPC] is formed for the year 2024 consisting of members from industry and academia. It is formed to streamline the Industry, Academica and Young Professionals collaboration of various sections coming under IEEE India Council. IAYPC is a dedicated body formed under the IEEE-India Council, focused on bridging the gap between industry and academia for young professionals, students, and faculty members. It aims to provide numerous opportunities for collaboration, skill development, and career enhancement, catering to the diverse needs of its members across the country. The committee organized various activities in consultation with IEEE India council and various IEEE sections in India. It also acts as a central hub to support sections in fostering Industry-Academia collaboration activities, promoting innovation, and driving economic development.

In association with the India Internet Foundation (IIFON) IAYPC conducted five regional workshop series on Internet Standards. These workshops were conducted at South Zone in St. Joseph College of Engineering, Chennai, on 17.09.2024, West Zone in Sardar Patel Institute of Technology, Mumbai, on 19.09.2024, North Zone in Sharda University, Greater Noida, UP on 21.09.2024, East Zone in Heritage Institute of Technology, Kolkata on 24.09.2024 and

North-East Zone in Royal Global University, Guwahati on 26.09.2024. This program was designed to equip aspiring engineers and faculties with the knowledge and skills to build the future of the internet. The workshops covered a comprehensive range of topics, providing a strong foundation in internet engineering and standards principles. Following the workshops, participants will have the opportunity to apply their newfound knowledge in a thrilling hackathon. The regional hackathon winners will be invited and supported to attend the hackathon finals to be held along with the Asia Pacific Conference of Internet Measurement, Security, and Standards at Guwahati on December 3rd week. A total of 300 students participants on this workshops at different venues. Dr. John Jose from IEEE IC and Mr. Anupam Agarwal and Mr. Anand Raje from IIFON coordinated the programs.

IAYPC has initiated two massive pan India wide Mentoring Programs. The Professional Mentoring Program (PMP) aimed to create a supportive environment where young faculty members can grow professionally and personally, share knowledge, build networks, and actively engage

IAYPC-2024 - IEEE India Council in Collaboration with India Internet Foundation
Sharda School of Engineering & Technology Department of Computer Science & Engineering
PRESENTS
IEEE-IC: Standard Workshop and Hackathon 2024
21st September 2024
Speakers
Dr. John Jose
Associate Professor, IIT Guwahati
Vice Chair, IEEE India Council
Mr. Anand Raje
Co-Founder, CTO @ India Internet Foundation (IIFON) | Internet Resiliency Researcher
Amitabh Singhal
Director Designate, Internet Corporation for Assigned Names and Numbers (ICANN), Internet & Telecoms Policy & Regulations
Dr Pimmy Gandotra
Telecommunications Standards Development Society, India (TSDSI)
Prof. (Dr.) Parma Nand
Pro-VC Sharda University and Dean, SSET
Dr. Anil Kumar Sagar
Professor & HoD, Computer Science & Engineering, Sharda University
Dr. Rani Astya
Associate Professor- CSE, Faculty Coordinator Technova Sharda University
Mr. Dharm Raj
Assistant Professor- CSE, IEEE Student Branch Counsellor Sharda University
For more details:
https://portal.aiori.in/hackathon/
ABOUT PROGRAM
Chance to participate in a thrilling hackathon
Equips aspiring engineers and faculty with essential internet skills.
Provides a strong foundation for future technological innovations.
Covers key topics in internet engineering and standards.
Mr. Dharm Raj
IEEE Student Branch Counselor, Sharda University
Contact Number: 8920025826
Mail: dharm.raj@sharda.ac.in
Venue
APJ Abdul Kalam Auditorium,RM. 005, Block 3
Computer Lab RM. 010 Block-1
Organizing Committee
Prof. (Dr.) Mandeep Kaur, Advisor, IEEE Student Branch SU
Dr. Rani Astya, Technova
Dr. Vishal Jain, Asso. Prof., SSET
Dr. Sudeep Varshney, Asso. Prof., SSET
Ms. Saptdeepa Kalita, Chairperson, IEEE Student Branch SU

Heritage Institute of Technology
Presents
STANDARDS
WORKSHOP & HACKATHON
Anand Raje
Co-Founder, CTO@ IIFON, Co-Founder @ BASIS Technologies Pvt. Ltd.
Abhijan Bhattacharyya
Consultant, Sr. Scientist @ Network Solutions & Services TCS
Organized by
IAYPC-2024, IEEE IC and IIFON
Anupam Agrawal
Digital Governance | ICT Standards | Chevening Fellow | IEC GRAC - Member | PTI - Board Member | TCS
Mousiki Kar
Associate Professor Heritage Institute of Technology Joint Secretary, IEEE IAYPC
September 24, 2024 || 9:30 a.m. onwards

with the IEEE community. The program is designed to enhance the skills, confidence, and career prospects of faculty mentees. It also provides mentors with the opportunity to give back to the community and develop their mentoring skills. Based on a nation-wide call and subsequent screening 84 senior academicians at professor level are chosen as mentors who are mentoring 160 young faculty members at assistant professor level.

The Students Mentorship Program consist of 72 industry mentors along with 120 academic mentors mentoring 450 student mentees. The mentoring Dr. Ruchika Gupta is leading the PMP activity with the support of Dr. Gunjan Varshney, Dr. Tribeni Prasad Banerjee, Dr. Mansi Subhedhar and Dr. Mousiki Kar. The Student Mentorship Program (SMP) tailored exclusively for students who are looking forward to career growth and higher studies input through mentoring from senior academicians'/ industry experts. The SMP offers professional support and networking opportunities to students. This program is designed to guide them in their preparations for their professional career/ higher studies and expose them to diverse higher education opportunities. Based on a nation-wide call and subsequent screening 121 senior academicians and 70 senior professionals from industry are chosen as mentors who are mentoring 448 mentees. Dr. Ruchika Gupta is leading the SMP activity with the support of Dr. Harivardhagini Subhadra, Dr. Elizabeth Rita Samuel, Dr. R. Lenin Raja, Ms. Debanjana Dasgupta, Dr. Palash Das.

The PMP was kicked off on 07.08.2024 with the inaugural address from Prof. Debabrata Das the IEEE IC chair. As part of PMP and SMP we organized fortnightly popular talks to mentees that can help them in professional growth. The talks include sessions on How can you become and inspiring teacher by Dr. John Jose from IIT Guwahati on 21.08.2024, Higher education in IISc, IITs, NITs and IIITs through GATE by Prof. T. Venkatesh from IIT Guwahati on 10.09.2024, Organizing a good quality IEEE conference – Application process and quality guidelines by Prof. S.M. Sameer from NIT Calicut on 18.09.2024, From introvert to IEEE influencer by Mr. Ramneek Kalra on 24.09.2024, IEEE and Growth Path to success by Mr. Deepak Mathur, VP-IEEE MGA on 02.10.2024, Plan your engineering education for a professionally rewarding career by Dr. John Jose of IIT Guwahati on 08.10.2024, Art of Research Paper Writing – Tips and Tricks by Prof. Sivaji Chakravorti from Jadavpur University on 16.10.2024. Few talks by industry experts from TCS, IBM and CDAC and Qualcomm are in the pipeline for subsequent months.

IAYPC also organized and industry forum track in IEEE Region 10 Tensymp conference held at NSUT Delhi. The track consists of Mock interviews by industry academia team and industry presentations. Dr. Ruchika Gupta and Mr. Rakshit Bajaj lead the activity. The expert members were Mr. Sreeju G. R. and Mr. Muhammed Alfin from CDAC, Ms. Sumedha Walia, Ms. Dinesh Nandini and Mr. Brij Kishore Jalan from Tata Consultancy Services, Ms. Kapila Arora and Dr. Gaurav Arora from IBM, Ms. Rashee Jalal and Ms. Vishakha Dixit from Microsoft, Dr. Mandeep Kaur from Sharda University, Noida, Dr. Gaganjot Kaur from Raj Kumar Goel Institute of Technology, Ghaziabad, Prof. Sugandha Singh from SGT University, Gurugram, Prof. Rachana Garg from Delhi Technological University and Prof. Abdul Quaiyum Ansari from Jamia Millia Islamia, New Delhi.

IAYPC is also involved in coordinating CONFLUENCE 2024 - the Largest Industry Academia Meet to be held at Kochi on 06.11.2024 with a theme on Future of Talent. It's being jointly organised by Rajagiri School of Engineering & Technology Kochi and the Group of Technology companies. Along with IEEE India Council other partners are Info Parks, Kerala, Smart City, Kochi, Kerala Startup Mission and KMRL. Key speakers include Dr S. Somanath, Chairman, ISRO; Mr V K Mathews, Executive Chairman, IBS Software; Dr Dileep George, Director, Google DeepMind; Dr Tessy Thomas, Missile Woman of India; Mr S. D Shibulal, Co-founder, Infosys; Adv Mathew Kuzhalnadan MLA; Mr Basil Joseph, Cine Actor & Director and Mr Jakes Bejoy, Music Director. The event will also feature renowned people from the government - Shri Suresh Gopi, MoS, Petroleum & Tourism, Ministers Shri P Rajeeve & Dr R Bindu and Shri Hibi Eden MP.

The event comprises keynote sessions, panel discussions, start up and funded research projects expo, ISRO, KMRL and Water Metro stalls, PhD conclave, parallel workshops on IBM watsonx.ai, AI in Matlab, Cybersecurity, Design Thinking, Quantum Computing and RoboDogs from Unique World Robotics.

Reported by: Dr. John Jose, Vice Chair - Industry Academia Collaboration, IEEE India Council; Associate

Professor, Department of CSE, IIT Guwahati. johnjose@iitg.ac.in

Er. Koruthu P
Varughese
LMAG Coordinator

Life Member Affinity Group

Dear IEEE Life Senior Members,

As we entered in the third quarter of the year, I'm happy and more excited to bring the updates of activities performed during the 3rd quarter of the current year before you. You are aware that, we regularly organised monthly webinar series in the last Thursday of every month. But in this quarter, we could organise only one webinar in July, as in August we had SYWLC at Tokyo Japan and in September TENSYMP24 at Delhi. These two major events interrupted our routine works.

The webinar of July was organised by Life members of Pune Section. The topic was "Technology Vision 2035 for India and its impact?" by Prof. Prabhat Rajan Vice Chancellor, D Y Patel International University Pune. The response was very high and there were unassured number of participants as compared to our other usual programs. Special thanks to Dr. G S Mani, Vice Chair, LMAG India Council for organising such an excellent program.

Since all our LMAGs are located in different parts of India, we have limitations in bringing all our members together physically in one platform to attend programs. Request all LMAGs to organise physical programs for LMAG India Council in your area, inviting all life members in and around your location to have a good networking to our members and plan fruitful activities for humanity.

Now a day's natural calamities and disasters are happening frequently in various parts of India. We lost lots of lives due to lack of immediate attention and life support. Another striking point is that lifesaving devises like "automatic defibrillators" are kept by the Government and other agencies in various common places like airport, etc. But on emergencies most of the common man who witnessed the spots are neither unaware to operate the device nor they are afraid of using it. In this context, IEEE LMAG India Council thought of arranging a series of live demonstration and practical training on "life support and first aid" to common people, students, faculties etc., with the help of experienced and dedicated personnel from well-known and reputed hospitals/institutions.

As a trial on 2nd August 2024 LMAG IC arranged a workshop for the students at "Baron Hill, Govt. College of Engineering, at Trivandrum on "First Aid and Basic Life Sciences". Students and faculties were given hands-on training under the supervision of Doctors and Technicians of Sree Chitra Tirunal Institute of Technology, Trivandrum. The response was very worthy and consequently arose a heavy demand from many other corners including engineering colleges for organizing similar program.

On 24th August 2024 another workshop on Life Sciences and First Aid, was organized at Muthoot Institute of Technology and Science, Cochin in the mega event Yearly Engineering Students Summit 24 ('YESS24'). The workshop was handled by a group of Doctors under the leadership of Dr. P K Dash Prof. Anaesthesiologist, SCTIMST, Trivandrum. This was

organised along with the Students Summit'24 with an aim to link engineering students and healthcare professionals, providing a platform for networking, learning, and professional development.

As a part of this workshop, a platform on Exhibition of Biomedical devises developed by SCTIMST, was arranged jointly with EMBS Kerala Chapter and SCTIMST. The program was well accepted by all and there were more than 3000 people visited the stall. The workshop was organised as a program for Industry interaction for IEEE Students.

The SYWLC at Tokyo Japan was a major international event and being Chair of LMAG IC, I represented and presented the activity report of LMAG India Council. We received great appreciations from R10 Chair and LMA chair for the best performance and quality activities conducted.

We received a certificate from R10 Chair for organising more than 6 programs in 2024, with a great applause and recognition.

Mr Asthana also presented a talk on LMC in the SYWLC LMAG meeting.

On 26th September myself as a representative of LMAG IC, joined the IEEE Leaders meet organized by Kerala Section at Cochin in the cruise "Nefertiti Cruise" in Arabian Sea. Prof. Chun Che (Lance) Fung, Deepak Mathur, and many other National leaders attended the program.

On 27th September we had a water metro trip from Marine drive for one hour from 9.00 am to 10.00 am. IEEE leaders and Excom members of IC as well as IEEE Kerala section joined trip.

On September 27th to 29th we attended the official annual conferences organised by the IEEE Region10 (Asia Pacific) at Netaji Subhas University of Technology, New Delhi. The objective of the Symposium was to provide an active platform for research scientists, engineers, and practitioners throughout the world to present their latest research findings, ideas, and applications – towards the benefit of humanity in particular.

On 28th September an LMAG talk was arranged at NorthCamp University Gurgaon, Haryana. Dr. Kumar, Mr. Asthana, Mr. Koruthu P Varughese, and Dr. S S Jamuar attended the function.

Forthcoming events

A meeting organised at Kerala Section IEEE Office on 28th August for arranging an International conference at Trivandrum jointly with LMAG India Council and EMBS Kerala Chapter. The International Conference on Brain Computing is being planned for December jointly with EMBS Kerala Chapter and CDAC Trivandrum.

"Innovation, Development, and Challenges in Brain Computer Interface and Healthcare Technologies"

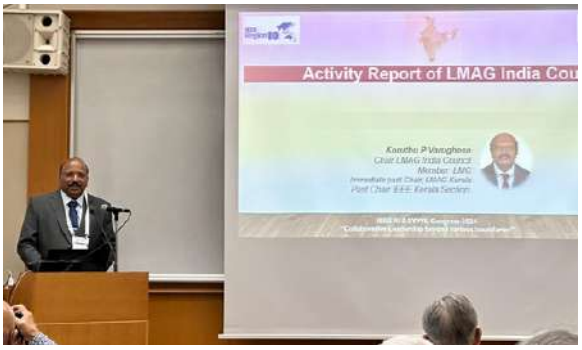
This 2024 International Conference on Brain Computer Interface & Healthcare Technologies (iCon-BCIHT) (Conference Record Number-63907) establishes a focus on practical applications of theory and methodologies, to analyse state-of-the-art developments, open problems and future trends leading to Health Care Technologies, Assistive Technologies, Space applications, and decoding of brain signals using Brain Computer Interface Technologies. The conference also aims to bring together worldwide leading researchers from industry and academia, to present & exchange their ideas, applications, and innovative techniques in the field. It allows delegates to address issues on Brain-Computer Interface (BCI) research and application. The recent convergence of healthcare technologies, assistive technologies, space technologies and BCI innovations has unlocked exciting possibilities for transforming the way we approach healthcare and improving the lives of individuals with neurological conditions. Exploring the "Innovation, Development and Challenges in Health Care and Brain Computer Interface" conference will bring together experts, researchers, and enthusiasts to explore the latest developments in these fields and discuss their potential impact on healthcare and the lives of individuals

The 22nd online LMAC IC webinar series held on 25th July 2024 by Prof. Prabhat Rajan, Vice Chancellor, D Y Patel International University Pune, on topic "Technology Vision 2035 for India and its impact?", as in the brochure above.

Workshop series on Life Sciences and First aid, (NO. 3) at Muthoot Institute of Technology and Science, Kochi on 24th August 2024 by Dr. P K Dash, Prof. Anaesthesiologist, SCTIMST, Trivandrum. The event was organised along with Yearly Engineering Students Summit 24, aimed to connect engineering students with healthcare professionals, providing a platform for networking, learning, and professional development.

Exhibition of medical devices developed by Sree Chitra Tirunal Institute for Medical Sciences and Technology Trivandrum, organised for the engineering students in Kerala. More than 3000 students visited the stall. This was arranged at Kochi in YESS'24 on August 24th.

The meeting organised at Kerala Section IEEE Office on 28th August for arranging an International conference at Trivandrum jointly with LMAG India Council and EMBS Kerala Chapter.



Koruthu P Varughese, Chair LMAG IC, presenting the report of activities of LMAG India Council at R 10 LMAG meeting at Japan along with SYWLC.

Koruthu P Varughese Chair LMAG IC receiving Mementos and Certificates on behalf of LMAG India Council at Japan during SYWLC24.

Mr. R K Asthana Chair LMC, in his talk at R10 LMAG Meeting at Japan.

Prof. Muhammed Kasim, Kerala Section Chair, Dr. S Sunderesh immediate past Chair LMAG Madras, Koruthu P Varughese, LMA Member and Chair LMAG India Council, Mr. Toshitak Chair LMAG R10, Mr. Asthana Chair LMC, V K Damodaran, Chair LMAG Kerala at SYWLC24 Tokyo, Japan

Life members and spouses attended LMAG Meet at Tokyo Japan.

IC Execom members in the cruise “Nefertiti Cruise” in Arabian sea on 26-09-2024 with Prof. Chun Che (Lance) Fung and Mr. Deepak Mathur.

Water Metro at Kochi.

IEEE Delhi Section LMAG

Technical Talk in The Northcap University Gurugram (Haryana)

IEEE Delhi Section LMAG in collaboration with IEEE Delhi Section Joint Chapter Circuits and Systems and Control System Society organised a Technical talk by Dr. Rakesh Kumar, IEEE Life Fellow at The Northcap University, Gurugram on 27th September 2024. Dr. Kumar is a semiconductor industry veteran, an entrepreneur, and

an educator. He is the founder, President and CEO of TCX Technology Connexions. He also educates and mentors potential engineering entrepreneurs at UCSD. Dr. Kumar has authored the book "Fabless Semiconductor Implementation", published by McGraw Hill. He is an IEEE Life Fellow and was inducted into the IEEE Technical Activities Hall of Honour in 2018. He is currently Chair of the IEEE/TA Data-based Business Strategy AdHoc committee, IEEE DataPort and has been President of the Solid-State Circuits Society (2012-13).

Dr Rakesh Kumar

Slide from Dr Kumar's Presentation

The title of his talk was Expanding Career Opportunities using Data Based Projects. He started by telling us about his earliest involvement with IEEE activities during his student days. He advised students to get involved with IEEE by joining it as a Student Member. He talk about the importance of IEEE DataPort and AskIEEE in revolutionising access to research data. This is due to exponential growth of global data generation. His presentation showcased the capabilities and successes of these innovative projects, exploring their potential to expand IEEE's global reach and impact on the research community.

Thus IEEE/TA Data Strategy Ad Hoc committee initiated two ground-breaking projects. These initiatives harness IEEE's vast dataset resources to accelerate research and development, facilitate global data sharing, and create value for members and customers worldwide. IEEE DataPort, is a searchable repository of research datasets whose key features include linking datasets to authors' IEEE Publication, open upload system for researchers, metadata and quality screening process and assignment of Digital Object Identifiers (DOIs) to datasets. Dataport has a rapidly growing user base of over 8.5 million, with 20,000 new users daily.

He introduced "AskIEEE", which allows users to pose questions in natural language and receive answers derived from IEEE's comprehensive information database. This project is an AI/ML-powered search and knowledge engine that utilizes Natural Language Processing (NLP) and Retrieval Augmented Generation (RAG) technologies.

Classroom Photo with Speakers and IEEE LMs

Photo with Faculty Members of The Northcap University

Dr. Surendar Pal Chair LMAG Bangalore Visited New Jersey. Giving a talk at IEEE North Jersey Section.

In Memory of Shri Prakash V Ekande, Life Senior Member, IEEE Delhi Section

Shri P V Ekande was born in November 1946 and passed away on July 21, 2024 in New Delhi. Mr.P.V. Ekande was Graduate of Science and Engineering with Instrumentation. He worked in Tata Consulting Engineers and then in NTPC Ltd. and superannuated in November 2005 as Additional GENERAL MANAGER possessing experience more than 35 years. Sri EKANDE JI was a beloved IEEE Senior Life Member, Founder Chairman of Delhi LMAG (2017 – 2020) and Chairman, IEEE Delhi Section (2005 – 2006). He received number of certificates & Long Service Awards Twice. He has made significant contributions in his professional career as an engineer of high competence and brilliance in Tata Consulting services and NTPC building power plants capacity for millions of Indians. He was fountain head of advice and knowledge guiding his colleagues, he was a fine human being gentle and kind ever ready to help everyone.

Shri Ekande's dedication, kindness, and spirit touched the lives of many and left an enduring legacy. He was a true Karamyogi. He initiated R.K VIR Memorial seminars and the first ever Indo-Pakistan IEEE Conference. He had immense interest in literary, history, art, cinema and music and profusely shared his learning with all friends.

IEEE Kerala Section LMAG

Kerala Life Senior Members Out into Outreach Initiatives in Kerala

Life Members in Kerala—all Life Seniors—continued to be vibrant during the third quarter, giving hope that the fourth and final quarter of the year will be even more fantastic. Of the planned 99 events, LMAG-K completed 74 by September 2024. LMAG is expecting 6 more LMs to join our team by 01.01.24. They will be invited to all our events during the fourth quarter.

The 2024 IEEE R 10 SYWL Congress, held in Tokyo, Japan, from 29 August to 01 September, was attended by two LSMs from Kerala: VKD and Koruthu Varughese and their spouses, Smt. Ranjini and Smt. Annie. R10 Regional Life Members Affinity Group Achievement Award 2024 presented to Kerala LMAG was received jointly by the Section Chair, Prof. Muhammed S Kasim,

and LMAG Chair, VKD. Also, VKD received the R10 Regional Life Members Affinity Group Individual Service Award 2024 and the Award for organizing the maximum number of activities in 2023. VKD made an invited presentation at the LM Track on 'Advancing Technology for Humanity through Innovative Outreach Initiatives'.

LMAG-K Chair Chair, VKD, gave an invited technical Talk on 'Roadmap to Carbon Neutrality' at the Dept. of Electronics of 'Hanoi University of S&T' in Hanoi, Vietnam, on 9.9.2024, organized under the aegis of IEEE Vietnam Section. He also held discussions for jointly preparing a book on 'Solar Technician' in English and translating it into Vietnamese and Malayalam with TSL (Vietnam), to organize a series of training sessions in Vietnamese and Malayalam with LMAG K and Vietnam Section endorsing the Course and Certification for Engineering Students and Young Engineers working in SPV areas.

In the landmark event of YESS (Yearly Engineering Students' Summit) 2024 of Kerala, LMAG, with the assistance of IEEE MGA-LMC, organized the first phase of the 'Project Writing' workshop for engineering students as one of the 42 tracks of YESS '24.

LMAG also initiated Mentoring Roles for Inspiring Innovation towards Carbon-Neutral Living in College and School students by nucleating Green Energy Student Movements (GESMs) in around 80 institutions in the districts of Kollam and Alappuzha.

LMAG Members - Family Meet – Hosted by Dr. Gomathi Muraleedharan on 11th September 2024

Dr. Rajashree Jain
Vice Chair

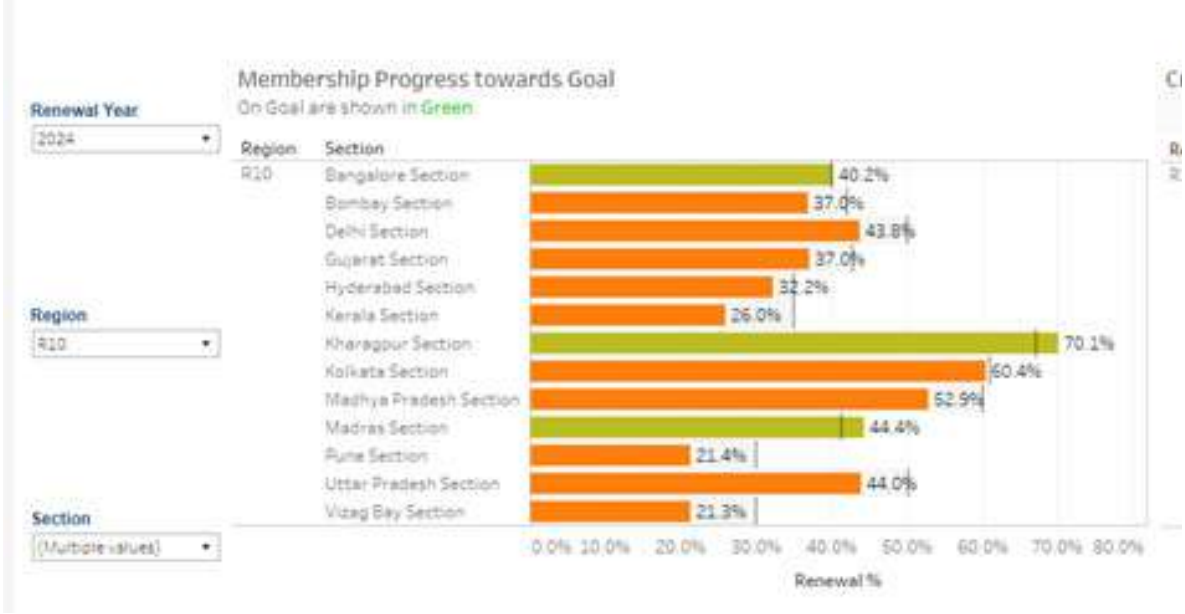
Membership Development Committee (MDC)

Focus

To support Member Recruitment and Retention

Member Statistics as on 19 October 2024

Member Grades	Count of IEEE members	Section Name	Count of IEEE members
Affiliate	152	Bangalore Section	16631
Associate Member	469	Bombay Section	4223
Fellow	48	Delhi Section	6711
Graduate Student Member	5338	Gujarat Section	1940
Honorary Member	1	Hyderabad Section	8370
Life Fellow	36	Kerala Section	13288
Life Member	45	Kharagpur Section	467
Life Senior	217	Kolkata Section	4583
Member	15370	Madhya Pradesh Section	1437
SA Member	12	Madras Section	19130
Senior Member	5822	Pune Section	1745
Student Member	57714	Uttar Pradesh Section	4596
	0	Vizag Bay Section	2103
Grand Total	85224	Grand Total	85224

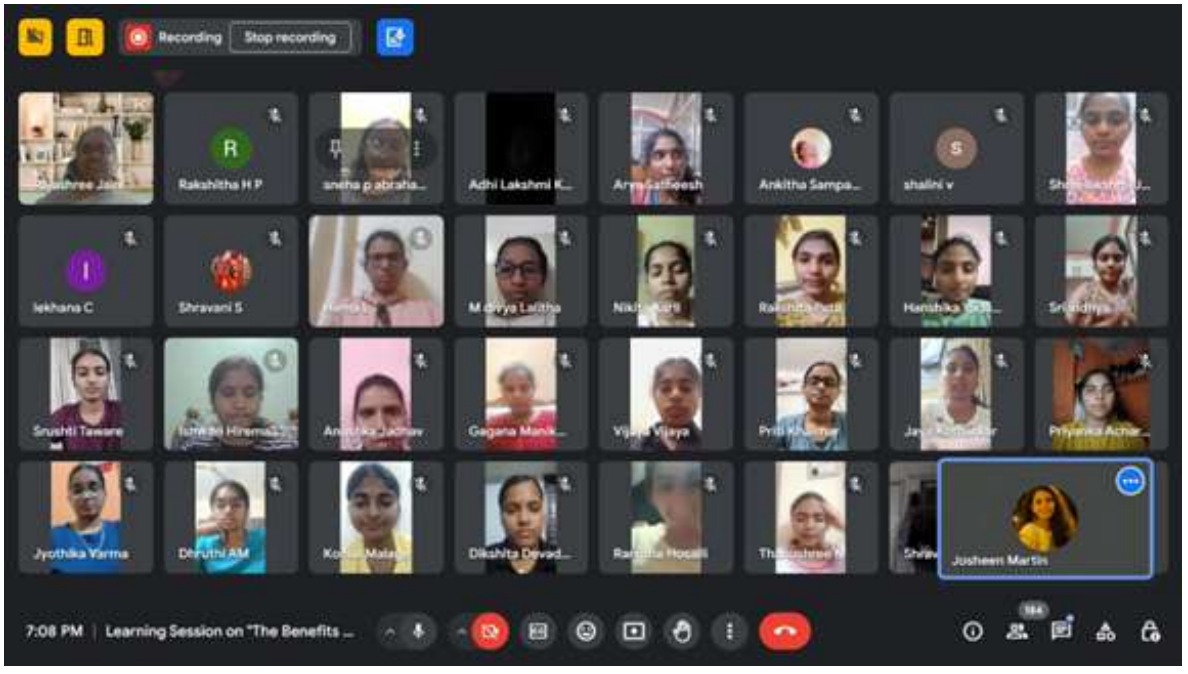


Section level Progress on Membership Retention 2024

Section level Progress on Membership Recruitment 2024

The MD team, under the guidance of Prof.Debabrata Das, Hon. Chair, IEEE India Council, and Dr.Rajashree Jain, Vice Chair, Membership Development, IEEE India Council have planned sessions for the benefits of members of India. With a focus of member recruitment and retention, IEEE Membership Development (MD) Committee 2024 of India Council plans to host MD track and MD booth during the major IC events along with specific member engagement programs like member elevation drives, panel seminars for Fellow elevation to name a few.

S N	Details of MD Initiative	Date(s) & Place	Number of Participants
1	INDISCON 2024	August 22-24, 2024, Chandigarh	NA
2	MD session with IEEE Outreach and Quest Global Scholars	10 September 2024, Online	207
3	MD Session with IEEE Vizag Members	13 September 2024 Online	45
4	TENSYMP 2024	September 27-29, 2024, NSUT, Delhi	NA



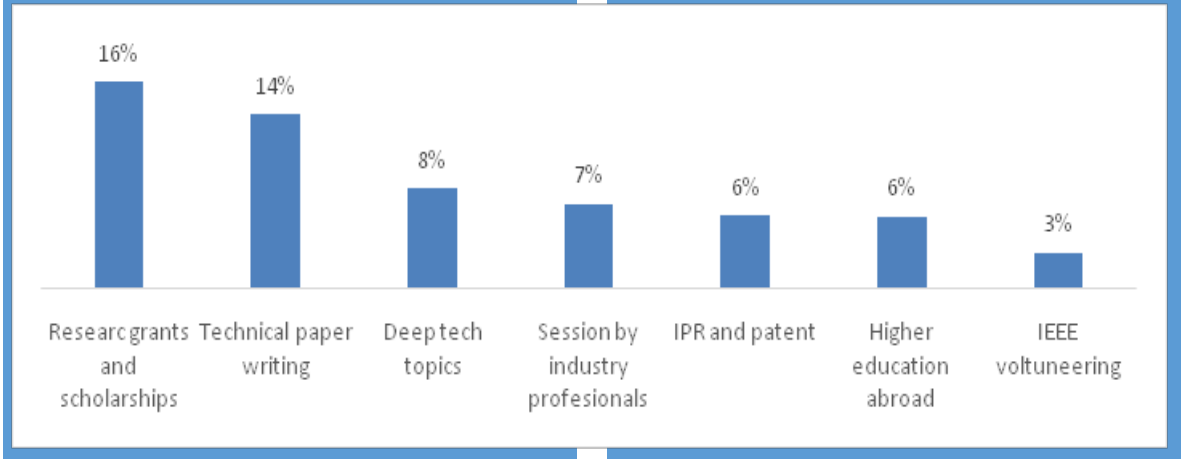
Er.Shone Jose
Vice Chair SAC & YP

Student Activities Committee & Young Professionals Activities

Summary of Students and YP Activities

Building the Base for maximum reach

To enhance IEEE India Council's engagement with the student community, the Student Coordination Team has launched multiple WhatsApp groups and a dedicated channel for outreach and publicity.



The All-India IEEE GSMs group now has 824 members, where news, updates, and announcements specifically relevant to GSMs are shared. There is a plan form a GSM Coordination Team with in the IC SCT based on the feedback from the members.

A recent survey was conducted to gather insights into the activities that interest GSMs. Based on the feedback, Council Chair Prof. Debabrata Das will soon be delivering a webinar on technical paper writing. We are also in search of a speaker for an upcoming webinar on grants and scholarships. Interestingly, the survey indicated that GSMs are less interested in learning about IEEE volunteering opportunities.

Additionally, the IC SCT has launched a WhatsApp channel as a broader communication platform, which already has over 4,000 followers.

AISYWLC

Madras Section has been selected to host the AISYWLC 2024.

IEEE Xtreme

Five sections in India lead the top 10 section registration leadership board of IEEE Xtreme 18.0. Congratulations to all top sections.

Eight student branches in India lead the top 10 student branch registration leadership board of IEEE Xtreme 18.0. Congratulations to all top student branches.

Dr. Sudeshna Choudury
Vice Chair

Women in Engineering

Event: IEEE WIE International Leadership Summit- "Resilience and Innovation Navigating a Sustainable Future "- IEEE WIE AG Delhi Section

Date: 11th August 2024

Venue: India International Center, New Delhi

Role: Speaker

LinkedIn Post: https://www.linkedin.com/posts/sudeshna-choudhury-31335692_womeninstem-ieee-wie-activity-7230141455887917056-yIgQ?utm_source=share&utm_medium=member_desktop

Sudeshna Choudhury was a speaker on this event and the topic of her talk was Innovation around Waste Management and Circularity, specially focusing on Wastewater.

Event: PEEIACON 2024 -Panel discussion on "Role & Engagement of Women in AI for Academia, Industry, and Entrepreneurship." -IEEE WIE Bangladesh Section

Date: 13th September 2024

Venue: Online

Role: Panelist

LinkedIn Post: https://www.linkedin.com/posts/sumaiya-kabir-64595162_i-am-delighted-to-announce-that-the-ieee-activity-7239851985682718720-aQWI?utm_source=share&utm_medium=member_desktop

Bangladesh Section (IEEE BDS), the IEEE Industry Applications Society (IAS) Bangladesh Chapter, and the IEEE Women in Engineering (WIE) Bangladesh Section Affinity Group jointly hosted a talk and panel discussion on "Role & Engagement of Women in AI for Academia, Industry, and Entrepreneurship." Sudeshna Choudhury was one of the panelists along with Prof. Celia Shahnaz and two more eminent panelists. This event took place alongside the prestigious IEEE International Conference on Power, Electrical, Electronics, and Industrial Applications (PEEIACON 2024). The conference was hosted online by Rajshahi University of Engineering & Technology (RUET), Bangladesh.

Event: IEEE WIE R10 DEI Funded Event: "A Step Beyond BINARY - Let's break the GLASS CEILINGS" - IEEE WIE Hyderabad Section

Date: 20th July 2024

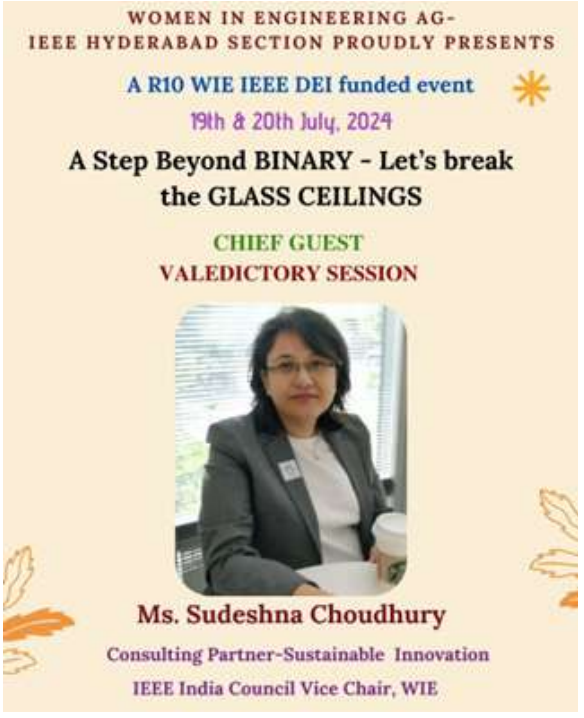
Venue: Online

Role: Chief Guest

LinkedIn Post: https://www.linkedin.com/posts/sudeshna-choudhury-31335692_r10wiedei-ieeewieag-ieeewiehyderabadsection-activity-7218669374813954048-46ok?utm_source=share&utm_medium=member_desktop

The IEEE WIE AG Hyderabad Section had organized an event to spark creativity and promote inclusivity, promising an exciting opportunity for all participants.

This event aimed to promote gender equity and enhance diversity in engineering.



Section-2

Section Activities

Prof. A.Q. Ansari
Section Chair

Delhi Section

Delhi section hosted IEEE R10 conference TENSYMP2024 from 27th to 29th September, 2024.

Following dignitaries graced the inauguration ceremony in presence of more than 300 delegates from all parts of the country and Region 10.

* IEEE TENSYMP 2024 General Co-Chair Prof. Prerna Gaur
* Patron Prof. Anand Shrivastav, NSUT Vice Chancellor
* Patron Dr. Madhu Chitkara, Chitkara University Pro-Chancellor
* Guest of Honor Er. Deepak Mathur, IEEE Vice President (MGA)
* Guest of Honor Prof. Lance Fung, IEEE R10 Director
* Guest of Honor Er. S R Narasimhan, CMD, Grid Controller of India
* Guest of Honor Er. R K Tyagi, CMD, Power Grid Corporation of India
* Guest of Honor Dr. V Narayanan, Director, LPSC, ISRO
* IEEE TENSYMP 2024 General Co-Chair Dr. Subrata Mukhopadhyay
* Vote of Thanks by IEEE TENSYMP 2024 Organizing Chair Prof. Rajnish Sharma

Dr V K Narayanan from ISRO filled whole audience with tremendous enthusiasm while sharing India's many achievements in the Space research domain. The IEEE Region 10 Symposium TENSYMP 2024 truly lived up to its promise of bringing together some of the most brilliant minds from around the world—research scientists, engineers, and industry professionals. This event has been a vibrant platform for knowledge exchange, innovation, and collaboration.

Over the 3 days, TENSYMP brought together an impressive array of delegates, session chairs, panellists, and participants from various parts of the world. After receiving more than 900 papers, a total of 248 papers were presented, 63 of which were delivered online.

In addition to the paper presentations, four panel discussions were held on various themes which included future of manufacturing hubs, artificial intelligence, the power sector, and the role of technology in shaping our future.

A hands-on EPIC workshop on social innovation through engineering was also conducted, offering participants valuable insights and practical skills.

Mock interviews were graciously offered on a volunteer basis by professionals from esteemed companies like Microsoft, IBM, TCS, and others, providing attendees

(For more photographs see TENSYMP Photo Album)

Dr. G. Prasad Acharya
Section NL Editor

Hyderabad Section

LIGHTENING TALKS – WIE Day 2024

06th July, 2024

The Women in Engineering (WIE) Day event was a resounding success, held on 6th July, 2024 under the able guidance of our esteemed Chair Dr. Harivardhagini. The event aimed to celebrate and empower women in the field of engineering, featuring insightful talks and interactions with notable speakers. The event commenced with a warm welcome address by Vice Chair Dr. Sofia Priyadarshini, setting the tone for the event. Event highlighted the significance of WIE Day in promoting gender diversity and inclusivity in engineering disciplines, emphasizing the importance of empowering women in STEM fields. Dr. Santhosh Sivasubramani, captivated the audience with a compelling 20-minute talk on "Innovations in Engineering: Breaking Barriers and Beyond." His expertise and insights into cutting-edge technologies left the audience inspired and motivated. Smt. V. Jyothi then took the stage for her engaging session titled "Leadership Challenges for Women in Engineering." Her 20-minute talk resonated deeply with the participants as she shared her journey, challenges faced, and strategies for overcoming them in a male-dominated industry.

The event further facilitated a 5-minute interactive session where both speakers engaged directly with the participants, answering questions and exchanging ideas. In conclusion, the event "Lightening talks" on the occasion of 2024 WIE DAY CELEBRATIONS was a testament to the commitment towards gender equity and empowerment in engineering.

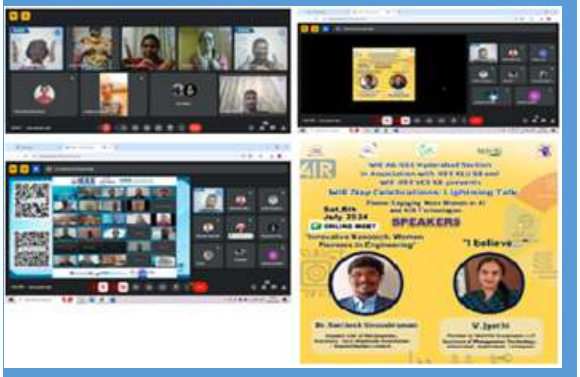
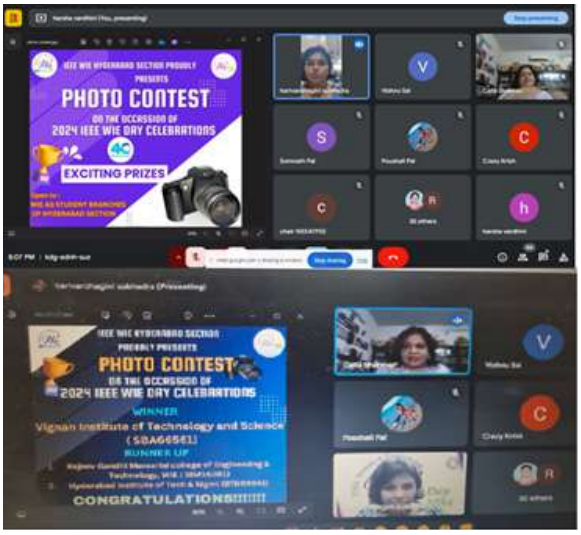


PHOTO CONTEST

5th -12th July 2024

IEEE WIE AG Hyderabad Section conducted Photo Contest on the occasion of 2024 IEEE WIE Day Celebrations from 5th to 12th July, 2024 where various SBs submitted the captured moments of WIE Day celebrations. The results of the Photo Contest commemorating WIE Day 2024 were announced by Dr Celia Shahnaz. IEEE VITS SB & WIE AG stood at 1st place, showcasing their creativity and commitment. IEEE WIE SBs of Rajeev Gandhi Memorial College of Engineering and Technology and Hyderabad Institute of Technology and Management clinched the 2nd and 3rd prizes respectively, celebrating their contributions to promoting women in engineering through visual

storytelling. Dr. Celia Shahnaz graciously acknowledged the winners and participants, underscoring the importance of creativity and innovation in advancing technological frontiers. Her commendation added a touch of encouragement to the celebration of talent and ingenuity among the attendees.



Invited Talk on AI and Deep Learning for Health Care Applications

12th July 2024

Dr. S. Harivardhagini, Chair WIE AG IEEE Hyderabad Section, delivered the welcome address. Dr. J. Sofia Priya Dharshini, Vice Chair of IEEE Hyderabad Section, introduced the speaker. Dr. Celia Shahnaz, IEEE WIE Chair, Professor BUET renowned for her contributions to AI in healthcare, took the virtual stage, sparking an interactive dialogue that lasted for an enriching session. Her insights into the transformative potential of AI in diagnosing and treating medical conditions resonated deeply with the diverse audience comprising professionals, researchers, and students alike. Throughout the session, participants engaged actively, posing thought-provoking questions that Dr. Celia Shahnaz adeptly addressed, further enhancing the learning experience. The event culminated with a heartfelt vote of thanks delivered by Dr.P.A.Harsha Vardhini, Secretary, WIE AG IEEE Hyderabad Section, expressing gratitude to all contributors, attendees, and supporters who made the event a resounding success. The invited talk on AI and Deep Learning for Healthcare Applications not only provided a platform for profound knowledge exchange through the WIE Day.

WIE Pro Talks Advanced Professional Development Series

30th August 2024

On August 30, 2024, the IEEE Women in Engineering (WIE) Hyderabad Section, in collaboration with IEEE RCEW STB-17311 and SRU STB 63811, organized the second episode of the WIE Pro Talks Advanced Professional Development Series. This online event, conducted via Webex, attracted 145 attendees and featured two prominent speakers, Dr. Gannera Mamatha and Krishna Prasad Manchikalapati, who delivered insightful talks on career development and entrepreneurship.

The WIE Pro Talks - Episode 2 was a highly informative and inspiring event that provided attendees with practical advice and insights on both career development and entrepreneurship. The collaboration between IEEE WIE Hyderabad Section and the IEEE student branches ensured that the session was well-rounded and beneficial for all participants.

A Step Beyond BINARY - Let's break the GLASS CEILINGS (IEEE WIE R10 DEI Funded Event)- Hybrid Mode

19th – 20th July 2024

The IEEE Hyderabad Section's Women in Engineering (WIE) Affinity Groups hosted an electrifying event that is set to ignite innovation and inclusion within the engineering community! The two-day hybrid extravaganza, held on July 19-20, 2024, was a remarkable success in promoting gender equity and amplifying inclusion in the field of engineering. Titled "A Step Beyond BINARY - Let's Break the GLASS CEILINGS," this event was powered by the IEEE WIE R10 DEI Fund and aimed to foster an environment of creativity, learning, and collaboration. The event featured two exciting competitions that encouraged creative expression and innovative thinking: Digital Poster Competition and Idea Contest. There were 8 female speakers and 2 male speakers. The speakers included academicians, industrialists, Young professionals and a doctor from various countries and different age groups. The diverse participant pool highlighted the event's broad appeal and its ability to engage individuals across various affiliations, underscoring the initiative's reach beyond the IEEE community to the broader public.

Pre University STEM Activity: TECH GIRLS – Empower the GIRLS through Emerging Technologies Education

14-22 August, 2024

TECH GIRLS – Empower the GIRLS through Emerging Technologies Education: A Week-long Journey of Inspiration and Innovation. From August 12-22, 2024, in a groundbreaking collaboration, eight esteemed colleges—CVR College of Engineering, Ravindra College of Engineering for Women, Vignan Institute of Technology and Science, G Narayanamma Institute of Technology & Science (for women), Chaitanya Bharathi Institute of Technology (Hyderabad), Vaagdevi Engineering College, Vardhaman College of Engineering, and Jayamukhi Institute of Technological Sciences—partnered with the WIE AG IEEE Hyderabad Section to organize the transformative "TECH GIRLS" program. This initiative aimed to empower and inspire young girls to explore and excel in the fields of science, technology, engineering, and mathematics (STEM) by introducing them to emerging technologies such as the Internet of Things (IoT). More than 500 students including 300 girls were benefitted from this event.Over the course of a week, the program was dedicated to providing fundamental knowledge and hands-on experience with IoT and other cutting-edge technologies. Volunteers from the collaborating institutions engaged with students using presentations and interactive sessions, enhancing their understanding of complex concepts through practical demonstrations with IoT kits. Eminent speakers, experts in their respective fields, delivered insightful lectures on IoT, cybersecurity, nanotechnology, and artificial intelligence.

Networking Session with Sensors Council Leaders

15th July 2024

During the meeting, Dr. Anil inquired about the reasons for initiating Sensors Council Chapters at Student Branches (SBs). Advisors highlighted key benefits, including networking with sensor domain experts, gaining knowledge on technological advancements, guidance for converting ideas into prototypes/products, and internships for students and faculty. Advisors suggested listing available resource persons and Distinguished

Lecturers (DLs) for expert talks on the website. No official notice was given about discontinuing seed funding for new chapters, and practical sessions were emphasized as a priority by students. Dr. Ravinder Dahiya and Dr. Anil urged advisors to submit strong proposals under New Initiatives (NIs) and plan impactful events. The concerns about inactive SB chapters were also addressed. The members proposed organizing a collaborative event, "Sensors Congress," and promoting APSCON2025 through satellite events and a start-up forum for students/ Young Professionals.

Gender Diversity in Science and Engineering

15th July 2024

Dr. Enakshi Bhattacharya's talk at BVRIT Hyderabad provided an insightful analysis of gender diversity in science and engineering. She presented key statistics on the underrepresentation of women globally and in India, particularly in leadership roles. Dr. Bhattacharya highlighted the significant challenges faced by women, such as gender biases, workplace culture, and balancing career with personal responsibilities.

Key Points:

- Current State: Statistics on women in science and engineering fields, particularly in leadership.
- Challenges: Gender biases, stereotypes, and traditional societal roles affecting career progression.
- Importance of Diversity: Diverse teams lead to innovation and effective problem-solving.
- Promoting Diversity: Policies, mentorship programs, outreach initiatives, and addressing unconscious bias.

The talk concluded with strategies to foster gender diversity and was followed by a dynamic Q&A session, inspiring attendees to promote inclusivity in their institutions.

Image: IEEE Sensor Council, Hyderabad Section Advisor's meet

IEEE AP-S YP Ambassador Talk: RF Power Harvesting for Batteryless Wireless Sensing

07/07/2024

IEEE MTT-S/AP-S/EMC-S Joint Chapter Hyderabad Section in association with MTT_S SBC Stanley college organized AP-S YP Ambassador talk on "RF Power Harvesting for Batteryless Wireless Sensing". The speaker was Prof. Lei Guo, School of Information and Communication Engineering, Dalian university of Technology, China. Wireless power harvesting technologies provide a new charging solution to remotely powering WSNs. She introduced analytical methods for evaluating and designing RF power harvesters. Efficient rectennas with various characteristics, such as multi-band capability, wide spatial coverage, or wide dynamic power range were also discussed. Alongside, the applications of the

proposed RF power harvesters were demonstrated in two typical scenarios for batteryless wireless sensing, fully showing their potentials in IoT applications.

IEEE MTT-S/AP-S/EMC-S Student Members Industrial Visit to ACD Communication Pvt. Ltd.

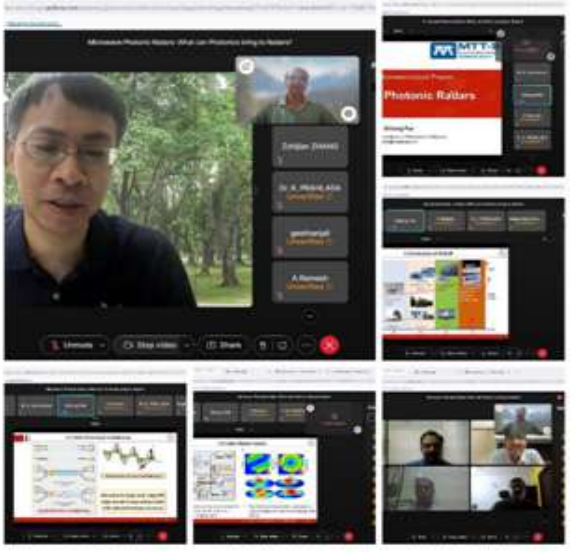
13/08/2024

IEEE MTT-S/AP-S/EMC-S Joint Chapter Hyderabad Sectionorganized Industrial Visit to ACD Communications Pvt. Ltd., Cherlapally, Hyderabad. The main aim of the visit is to create enthusiasm towards RF domain among the students of various colleges. The visit has provided practical insights of Antenna Measurement set ups and test range, experimental procedure to measure the patterns in an echoic chamber and in Open Test range, analyze the measured data in order to plot radiation patterns, antenna fabrication methods, RF circuit lab, RF Simulation lab (Designing CP, Vivaldi antennas using CST Studio) etc.

IEEE MTT-S DML on "Microwave Photonic Radars: What can Photonics bring to Radars?"

21/09/2024

IEEE MTT-S/AP-S/EMC-S Joint Chapter Hyderabad Sectionorganized IEEE MTT-S DML on "Microwave Photonic Radars: What can Photonics bring to Radars?" by Prof. Shilong Pan from Nanjiang University of Aeronautics and Astronautics China. Prof. Shilong explained the fundamental concepts of microwave photonics radar and it's advantage in terms better resolution due to large bandwidth. He explained the process of photonic LO generation, photonic waveform generation, photonic mixers, photonic beamforming and photonic ADCs. He presented design of first photonic Radar , ultra-high resolution based photonic imaging radar, photonic MIMO Radar etc. The DML was concluded by presenting E-memento to Prof. Shilong Pan.

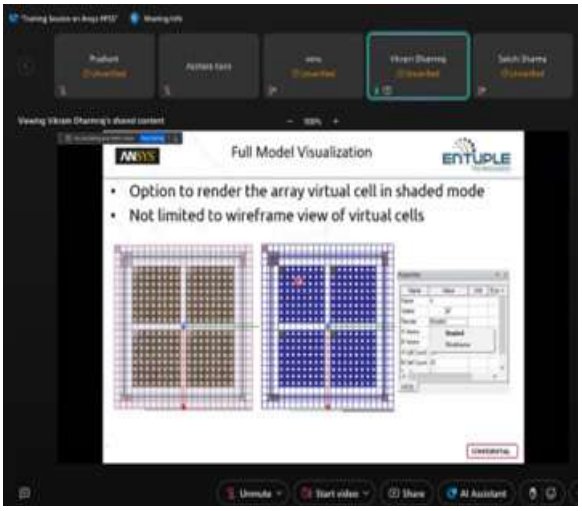


Training Session on Ansys HFSS

27/07/2024

IEEE MTT-S/AP-S/EMC-S Joint Chapter Hyderabad Section in association with MTT-S &b AP-S SBC, NITW organized a technical training session on "Ansys HFSS". The speaker was Kush Parikh,Technology Specialist – HF Entuple Technologies Bangalore.This talk provided the students with the insights of 3D High Frequency

Simulation Software HFSS. Introduced the software and how to use the tool for designing various RF structures, arrays and analyze the performance of these structures by generating various field parameters and frequency characteristics. The speaker has demonstrated the power of simulation software for analyzing such complex RF designs.



IEEE EMCS DL on "The Antenna Digital Twin - When Measurements and Simulations Unite"

19/07/2024

IEEE MTT-S/AP-S/EMC-S Joint Chapter Hyderabad Section organized EMCS DL on "The Antenna Digital Twin - When Measurements and Simulations Unite". The speaker was Dr. Beniot Derat, Senior Director for Systems Developments and Project Implementations, Rohde & Schwarz, Munich.This talk shows how to unite the simulation of any EM fields which are practical for any scenario with measurements that are limited to canonical test environments, e.g. in anechoic chambers, and benefit from the combined strengths of experimental and numerical techniques? This talk has shown how to enable this with the augmented OTA approach, involving the creation of an antenna digital twin, based on actual measured data. Practical applications were demonstrated, including field characterization inside the car and EMF assessments with virtual human models.

IEEE AP-S YP Ambassador Talk on "Managing Interference in Antenna Collocation: Innovative Strategies for Enhanced Communication Performance"

15/09/2024

IEEE MTT-S/AP-S/EMC-S Joint Chapter Hyderabad Section in association with MTT-S SBC MJCETorganized IEEE AP-S YP Ambassador Talk on "Managing Interference in Antenna Collocation: Innovative Strategies for Enhanced Communication Performance" by Dr. Can Ding, Senior Lecturer, ARC DECRA Fellow, School of Electrical and Data Engineering, University of Technology, Sydney. The talk focused on mitigating interference among dual-band antenna arrays by developing electromagnetically uncoupled antenna elements. These elements operate normally in one band while remaining "invisible" in other bands, effectively suppressing interference.

UMANG'24, Zonal Congress, IEEE Anantapuramu Sub-section

14/09/2024

IEEE GPREC Student Branch successfully organized UMANG 2K24 with the theme "Technological Advancements and Its Impact on Humanity." The event emphasized how technology drives progress, improves

quality of life, and tackles global challenges, while addressing issues like privacy concerns and inequality. Participants, primarily 2nd and 3rd-year B.Tech students from GPREC and other colleges, attended insightful sessions. MaheshNirati kicked off the event with a talk on Cybersecurity, focusing on best practices to protect digital assets. Ikram Ali Shaik followed with a session on AI in VFX and Gaming, discussing the role of AI in enhancing creative processes and ethical considerations. In the afternoon, Akhila Maari spoke about AI and You, exploring AI's applications in healthcare, education, and finance. Prathyusha Parakala led a session on Sustainability, encouraging eco-friendly practices and innovative solutions. The day ended with Jyothirmaye's talk on Stress Management and Emotional Intelligence, offering practical techniques for managing stress and improving emotional well-being.

"Multimodal Data for Effective Plant Stress Management"

30th Sept 2024

The IEEE Sensors Council Hyderabad Chapter hosted an insightful online talk by Prof. Kavya Darshora on "Multimodal Data for Effective Plant Stress Management." The talk focused on the integration of multiple data modalities to monitor and manage plant stress more effectively, crucial for enhancing agricultural productivity and ensuring food security.

Key Points:

Introduction to Plant Stress

Role of Multimodal Data

Sensor Technologies in Agriculture

Data Processing and Analysis

Applications in Sustainable Agriculture: The speaker

concluded by exploring the potential applications of multimodal data in precision agriculture. She demonstrated how it can be used to minimize water use, reduce pesticide application, and enhance crop yield, aligning with sustainable farming practices.Statistics on women in science and engineering fields, particularly in leadership.

Special Awards and Achievements

1. IEEE Hyderabad Section has secured Top 10 position in the section with the most IEEE members.
2. The WOMEN IN ENGINEERING AG Hyderabad section bagged

a. WIE Affinity Group of the Year Award (MGA)

b. R10 Women in Engineering Outstanding Section Affinity Group Award

3. Dr. J. Sofia Priya Dharshini participated in WIE ILS organized by the Delhi section at the International India center, New Delhi on the 10th and 11th of August,2024.
4. Dr.S. Harivardhagini attended 2024 IEEE R10 SYWL Congress at TOKYO, JAPAN from August 29th to September 1st, 2024.
5. Dr.S. Harivardhagini and Dr. Sangeetha Singh attended IEEE YESIST12, 2024 at TUNISIA, Africa on 7TH& 8TH September, 2024.
6. Dr.J.Sofia Priya Dharshini, mentored two teams in the grand finale of Yesist12 2024 under Wepower track organised on 7 th and 8 th September,2024 held in Tunisia.
7. Dr.S. Harivardhagini, Dr.J.Sofia Priya Dharshini, Dr P A Harsha Vardhini received IEEE WIE Day 2024 Challenge Badge for participating in the 2024 IEEE WIE Day Challenge.
8. Deepak of YP won both Quiz and Photo contest.
9. Saikumar Tara and Tripura both won Bingo Contest at SYWL Congress 2024 Tokyo Japan.
10. A project titled “Digital Literacy for Underprivileged Children in Rural India: Improving Analytical Ability and Logical Thinking”, Submitted by Dr Prashant Kumar Misra, has been selected to receive the partial funding of $1000 from IEEE MTT-S SIGHT program.
11. SPS Hyderabad Chapter has received SPS grants for 3 SBs (Siddarth, Mathuru sri & Vardhaman college).

Kerala Section

Er. Biju G R,
Associate Editor
IKS NL

1. Report on IEEE Malabar Subsection Online Talk Session

To commemorate International Women in Engineering Day, the IEEE Malabar Subsection, in association with IEEE Malabar Hub, hosted an insightful online talk session titled "AI and Deep Learning for Healthcare Applications." The session featured the distinguished speaker, Celia Shahnaz, IEEE Women in Engineering (WiE) Chair and Professor in the Department of Electrical and Electronic Engineering (EEE) at Bangladesh University of Engineering and Technology.

2. Distinguished Lecture Program

IEEE Malabar Subsection along with IEEE SB GECKKD conducted the Distinguished Lecture Program on the topic 'AGI CHIPS- THE NEXT FRONTIER' on 12th July, 2024. The session was handled by Prof. Alex James, Professor and Dean External Linkages and Projects, Digital University Kerala; CTO, India Graphene Engineering and Innovation Centre.

3. Technical Talk on GENERATIVE AI

IEEE Malabar Subsection, in association with Educational Activities, Kerala Section organized a highly informative technical talk on "Generative AI." The session, held on 25th July 2024 at IEEE

Kerala Section (Malabar Office), was led by Mohammed Shameem K, Founder & Managing Director of Quizent Technologies Pvt. Ltd.

4. FDP on RTL Design and Verification of the ARM Based Systems Using FPGA

IEEE MSS organized an FDP on RTL design and verification of ARM based systems using FPGA on 27-09-2024 and 28-09-2024 at Government Engineering College Kozhikode. The resource person was Mr. N. J. Hariprasad from BITS Hyderabad.

Kochi Subsection

1: IEEE Kochi Subsection Execom meeting

Kochi Subsection organized the EC meeting through Google meet platform on 03/09/2024Event 2: Interactive Session with IEEE Kerala Chair

IEEE Kochi Subsection organized an interaction session with the Chair of IEEE Kerala Section regarding the 2024 IEEE Annual Election.

3: IEEE Graduate Students Community Inauguration

IEEE Kochi Subsection organized the Inauguration of the IEEE Graduate Students Community Kochi Hub on September 25th, 2024 at the Centre for Science in Society,

CUSAT. The inauguration was attended by distinguished guests, Mr. Deepak Mathur, IEEE Vice President (Member Geographic Activities), Dr. Lance Fung, Director, IEEE R10 (Asia Pacific) and Dr. Debabrata Das, Chair, IEEE India Council and Director, IIIT Bangalore.

Conference Activities Board (CAB)

I. International Conference on Circuit, Power and Computing Technologies 2024(ICCPCT 2024).

The conference was conducted on 8th & 9th August 2024. In total 1175 papers were received and 315 papers were registered and presented on the day of conference.

Ms. A.V. Mercy, Deputy Project Director, GSLV, VSSC, Prof. Achuthsankar. S Nair, Former Professor, Computer Science, University of Kerala, Dr. Chow Chee Onn, Associate Professor, Faculty of Engineering, University of Malaya, Prof. Jeevani W. Jayasinghe, Professor, Wayamba University of Sri Lanka, Dr. Bhalaji Natarajan, Principal, Rajalakshmi Institute of Technology, Chennai, participated.

II. 4th IEEE International Conference on Signal Processing, Informatics, Communication and Energy Systems 2024 (IEEE SPICES 2024)

IEEE International Conference on Signal Processing, Informatics, Communication and Energy Systems 2024 (IEEE SPICES 2024) is a conference organized by IIIT Kottayam during 20-22 September 2024.

III. International Conference on Futuristic technologies in Control Systems & Renewable energy - 2024 (ICFCR 2024)

MES College of Engineering Kuttippuram organized the Third edition of International Conference on "Futuristic Technologies in Control Systems & Renewable Energy" (ICFCR 2024) on 25 and 26 of September 2024.

Educational Activities

Technical Talk on Generative AI - handled by Mohammed Shameem K, Founder & Managing Director Quizent Technologies Pvt Ltd. at IEEE Kerala Section (Malabar Office) on 25th July 2024.

Quiz on Space Science and Technology - organized a Quiz on Space Science and Technology for Engineering College students on 29/08/2024 at Regional Science Centre & Planetarium, Kozhikode

Engineer's Day Celebration - celebrated Engineer's Day on 23/09/2024 by conducting a technical talk on Application of Artificial Intelligence for Sustainable Transportation.

Faculty Development Programme on RTL Design & Verification of the ARM Based Systems Using FPGA - organized a two-day faculty development programme on RTL Design & Verification of the ARM Based System Using FPGA, handled by Mr. N J Hari Prasad, Research Scholar, BITS Hyderabad.

Promotion of Innovation & Entrepreneurship (PIE)

Brand Quest - online event by IEEE PIE Kerala Section, with teams from various colleges showcase their strategic thinking and creativity.

V-FIESTA 3.0 - on September 28-29, 2024, at Jyothi Engineering College, Thrissur.

Student Activities Committee (SAC)

Yearly Engineering Student Summit 2024 - YESS

The Yearly Engineering Students Summit (YESS), the largest gathering of engineering students under the IEEE umbrella, was organized by the IEEE Kerala Section in association with IEEE LINK and the IEEE Student Branch of Muthoot Institute of Technology and Science (MITS).

Held on Saturday, August 24th, at MITS in Kochi, the summit drew over 3,000 engineering students from across the state, eager to explore new ideas, network with peers, and be inspired by industry leaders.

Organizers: Co-organized by 42 IEEE Organizational Units (OUs).

Participants: 3,089 participants from 93 colleges/ universities across South India.

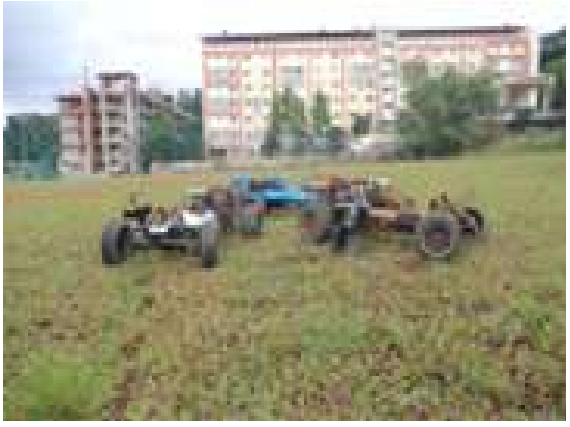
Volunteers: Supported by 453 dedicated volunteers, including professional volunteers from different OUs.

Speakers & Guests: Featured 117 speakers, 104 faculty members, and 25 special guests, including IEEE Life Senior Members.

Major events:

INARA: World's first generative AI fashion show by IEEE Computer Society.

- Humanitarian Technology Expo: Organized by IEEE Humanitarian Technologies Board in collaboration with IEEE Kerala SIGHT, showcasing impactful projects for societal challenges.
- Industry-Sponsored Mentoring Sessions: Over 50 seasoned professionals offered 20-minute personalized career guidance sessions.
- Competitions: Circuit Debugging, Maze Runner, Robo Soccer, and Datathon (in collaboration with IEEE DataPort) for technical skill display.
- Puzzlers Challenge: Organized by IEEE Puzzler, rewarding problem-solving skills with exclusive merchandise.
- Workshops and Sessions: Drone applications by IEEE Control System Society Kerala Chapter and project proposal writing workshops by LMAG Kerala for industry insights.



Distinguished Lecture Program (SDLP)

Talks organized under Distinguished Lecture Program 2024

Sl. No.	Speaker	Institute	Date	Topic
1	Prof V K Damodaran LSM IEEE	Newman College, Thodupuzha.	05 April 2024	Role of Women and Youth in Knitting Carbon Zero Thodupuzha
2	Dr Imthias Ahamed T P, Professor, Center for AI, TKM College of Engineering	Adi Shankara Institute of Engineering and Technology, Kalady	19 April 2024	Reinforcement Learning: Transforming Tomorrow Today
3	Dr Alex P James, Professor & Dean, Digital University Kerala (DUK)	NIT Kozhikkodu	31 August 2024	Symposium on Advanced Semiconductor Technologies
4	Dr Jinto George	NIT Kozhikkodu	01 September 2024	Symposium on Advanced Semiconductor Technologies
5	Dr Divya S Vidyadharan	College of Engineering Trivandrum	06 September 2024	Deep Learning Meets Weather Forecasting
6	Dr Sreelal S Pillai, Project Director, VSSC	Mar Baselius College of Engineering and Technology, Nalanchira	27 September 2024	MEMS, Nanotechnology and their Aerospace Applications

Affinity Groups

Life Member Affinity Group (LMAG)

(For detailed report refer LMAG IC Report)

Women in Engineering (WiE)

AI for Edge Devices - On July 7th, 2024, the IEEE WIE Kerala Section hosted a talk session titled “AI for Edge Devices” in celebration of WiE Day. The session featured PowHerful Minds: An Introduction to AI and Other Handy Tools - On 12th July 2024, second session in honor of WiE Day 2024, by Mr. Abhijith Benny, a Hardware Design Engineer at DCT.

Round Table on Diversity, Equity, and Inclusivity - organized a round table discussion on the DEI initiatives involving speakers from different fields like medicine, engineering, law, academicians, and more..

Calm Canvas - with YESS (Yearly Engineering Students Summit) 2024 and conducted 'Exploring healing through art therapy', held at Muthoot Institute of Technology & Science on August 24th.

Aerobics Session - with **IEEE LINK** conducted an energizing session at IEEE YESS 2024 led by Aneena S. John, an Aerobics and Zumba expert.

Special Interest Group on Humanitarian Technology (SIGHT)

1-Domestic and Drinking Reservoir with Renewable Energy-Kalamkuttykudi (D2Re-K) - The IEEE SIGHT Kerala group successfully addressed the longstanding drinking water shortage in Adimali, Mankulam Pandyan Kudi Tribal Colony by installing a 4000-liter solar-powered water tank and solar street lights. Led by Prof. Sunitha Beevi K, Mr. Abhinav Rajeev and a dedicated team, the project aimed to enhance the quality of life for the tribal community. The initiative involved 25 volunteers and was completed between May 11-13, 2024.

2. Resilient Light Lamp Distribution Ceremony - IEEE SIGHT Kerala Section in collaboration with IEEE PES Kerala Chapter and Energy Conservation Society were honoured to have Prof. Muhammed Kasim, IEEE Kerala Section Chair, Prof. Sunitha Beevi k, SIGHT Chair, Prof. Bijuna Kunju, Section Vice-Chair, Mr. Abhinav Rajeev, SIGHT Secretary, MR. Johnson Y ECS Secretary and R&D mentor, Dr. Biju K , Section Secretary, Mr. G. Manikandan, President of Kuttichal Grama Panchayath Dr. B.S. Jayakumar, Director of Kotoor Geetanjali, Sridevi Suresh, Ward member, Mr. Sinukumar, Forest Section Officer Kottoor, Mr. Ramesh, Block member in the inauguration.

3-Emergency Torches for Wayanad Distress Relief

IEEE SIGHT Kerala Section in Collaboration with IEEE SB NITC assembled 300 emergency torches at NIT Calicut to aid the Wayanad Relief efforts. These torches were delivered to the disaster relief efforts on 3rd of August 2024.

Volunteers assembling Emergency Torches

4-IEEE Kerala Section SIGHT Expo 2024 at YESS'24 - The I Kerala Section SIGHT successfully conducted the Humanitarian Technology Project Expo at IEEE YESS 2024 on 24th August 2024 at Muthoot Institute of Technology and Science, Kochi.

5. Mastering KiCad: From schematics to PCB - organized a two-day online workshop on KiCad PCB Designing on August 2nd and 3rd, 2024, Led by Adithya P Rajeev, R&D Lead.

6. Funded projects in collaboration with iEEE Kerala Section SIGHT - Several institutions under IEEE Kerala Section have received funding for impactful projects focused on societal and environmental welfare. This year NSS College of Engineering received $5,292 for the SOURAJALA project.

7. Inauguration of new SIGHT SB AG - A new SIGHT SB AG has been inaugurated at Jyothi Engineering College by Prof. Sunitha Beevi. K, Chair, SIGHT, Kerala on 24/09/2024.

Young Professionals Affinity Group (YP)

Panel Discussion - Utilizing IEEE for Career Advancement - hosted a successful online Pre-Event- "Utilizing IEEE for Career Advancement" as part of YESS 2024 on August 9th, 2024, via Google Meet.

Industry-Institute Interaction - YP AG and SCTIMST, successfully organized a one-day event on August 17th, 2024, at the Biomedical Wing, SCTIMST.

Panel Discussion - Utilizing IEEE for Career Advancement - on August 24th, 2024, IEEE LINK, in collaboration with IEEE YP AG Kerala Section, organized an Industry Mentoring Program at Muthoot Institute of Science and Technology as part of IEEE YESS 2024.

Slashkey – Judging and Sponsorship support - On July 20th, 2024 organized a highly engaging 30-

hour hackathon, Slashkey, at the National Institute of Technology, Calicut.

Society Chapters

Circuits and Systems Society (CASS)

IEEE CASS Kerala Chapter Award winners for 2024 are declared:

The MAKER CHIPS program is an exciting part of the Open Source Chips Movement (OSCM), offering a 4-month online internship and training focused on chip design.

2: Certification Course on Verilog HDL - IEEE CASS TKMCE in association with VLSI Connect organized a 12-week online course on Verilog HDL.

3: CHIPCHAT - MEC's Workshop series on VLSI and Embedded System Design held on August 19th and 20th.

4: Two Day Workshop on MEMS- CMOS/ROIC Integration - The workshop was organized providing hands-on training for IntelliSuite MEMS simulation software on 23and 24 August 2024.

5: One-Day Hands-on Workshop on DIR-V VEGA Processor Programming - "One-Day Hands-on Workshop on DIR-V VEGA Processor Programming" for students in the PM AJAY Certificate in PCB Design Program, Digital University Kerala.

6: CHIPATHON - IC Design Competition was held on 31st August 2024.

7: Symposium celebrating 75 years of CASS - on the 31st of August and 1st of September 2024 at NIT Calicut, as part of the celebrations marking the 75th anniversary of IEEE Circuits and Systems Society (CASS).

8: IEEE Kerala Graduate Student Community Travancore Hub Inauguration - on 11th September 2024 at the Kerala University of Digital Science Innovation and Technology.

9: IMCS Weekly R & D Talks-1 - focused on the global VLSI market.

Control System Society

1. Inauguration of IEEE CSS Chapter Kerala Section

The Control systems society was officially inaugurated on 16 July 2024, by Dr. Debabrata Das, Chair of IEEE India Council. Dr. Magnus Egerstedt, President of IEEE CSS, Prof. Muhammed Kasim, Chair of Section, Dr. Sameer S M, Professor, NIT Calicut, Dr. Bijuna Kunju K., Vice Chair, Er. Nandakumar, Chair, IEEE RAS chapter and Dr. Jayesh Barve, Chair, IEEE CSS, Bangalore Section, Dr. Shihabudheen K.V., chair, and Dr. Lal Priya P. S., vice chair, CSS Kerala Section, were present.

2. Technical Talk Series - technical talk series and the first session was conducted on 13 Aug 2024. The session was on "Physics informed neural networks for aerial robotics", and the speaker was Dr. Archit Krishna Kamath. Dr. Archit Krishna Kamath (Member, IEEE) presently serves as a Research Fellow at the eVTOL Research and Innovation Center within the School of Mechanical and Aerospace Engineering at NTU Singapore.

Organized three events as a part of IEEE "YES" program in association with IEEE RAS Kerala chapter on 24th Aug at MITS Cochin, Drone Workshop, Drone Show

IEEE CONTROL SYSTEM SOCIETY CHAPTER
KERALA SECTION

and Drone Expo. Conducted three Execom meetings to discuss about various activities and events and to plan for future events.

Communications Society (ComSoc)

Over the past quarter, the IEEE ComSoc Kerala Chapter has actively engaged in a variety of events aimed at fostering growth and participation among our student members and volunteers.

Chairs Meet - an online Chairs Meet on August 19, 2024. Project Exhibition at the YESS'24 Event - hosted a demonstration at IEEE YESS'24 on 24th August 2024

at MITS Kochi. Commencement of new ComSoc SBCs - at VISAT, Rajadhani, and IIST Trivandrum ComSoc SBCs

to its network. PROCOMM'24 - a Project Competition, organized on 21st September 2024 at the College of Engineering Perumon, with two rounds.

The top three teams were: 1st Place: Team Kernel Panic (Sahrdaya College of Engineering). 2nd Place: Team Access Denied (Govt. Engineering College Thrissur). 3rd Place: Team IEEE SB CEV (Vadakara College of Engineering).

Computer Society (CS)

1. Slash Key 3.0 - On July 19-20, 2024, hosted Slash Key 3.0, a 30-hour national-level hackathon at the National Institute of Technology (NIT) Calicut. With a prize pool of ₹50,000, Slash Key 3.0 drew participants from across India.

2. Membership Development Session - In July and August 2024 organized a series of Membership Development sessions at the College of Engineering Chengannur by Jyothika Nithin, Malabar Hub Coordinator for IEEE CS SYP Kerala, etc.

3. Elever 4.0 - On May 3, 2024 launched Pixel Perfect: The UI/UX Quest. The winners were: Godwin Kunjumon from FISAT, Aravind Ashokan from MEC and Adwaith Jayasankar from SCET.

4. Distinguished Visitor Program

On August 23, 2024, Prof. Mohamed Rawidean, IEEE R10 Regional Coordinator, presented "Smart Farming: Agriculture Transformation Using IoT, WSN, and AI" at CUSAT.

5. HP Expo - On August 24, 2024, hosted the HP Gaming PC Expo at the Yearly Engineering Students Summit (IEEE YESS) 2024 at Muthoot Institute of Technology and Science, Kochi (MITS).

6. Informatyka - Informatyka 4.0, in its current phase, has successfully conducted a total of 27 events.

7. Achievements: Gopika G Krishnan, from NSS College of Engineering, Palakkad, has received the honorable Richard E Merwin Scholarship for Spring 2024. Sreelakshmi A R ,Malabar Hub Coordinator SYP, has received the honorable Richard E. Merwin Scholarship for Spring 2024. Anna Ann Mathew, Technical Coordinator of IEEE CSKS , from Mar Athanasius College of Engineering, Kothamangalam has received the honorable Richard E. Merwin Scholarship for Spring 2024. Outstanding Volunteer Award - Robin Francis Kochi HSR, the dedicated volunteer from Sahrdaya College of Engineering and Technology, has been honored with the prestigious 2024 IEEE Region 10 Outstanding Volunteer Award. Lance Stafford Larson Student Award 2023 - Justin Jacob, COO of Zimulate Consultech and Joint Secretary - PR of IEEE Computer Society Kerala Chapter, has been awarded the prestigious Lance Stafford Larson Student Award 2023. IEEE IES Generative AI Challenge 2024 - Swastik H Nair, EIC of IEEE Computer Society Kerala Chapter, has achieved a remarkable feat by securing a position in the top 30 at the prestigious IEEE IES Generative AI Challenge 2024.

Educational Society (EdSoc)

On July 22, 2024, the "ENABLE: Empowering New Abilities and Broadening Learning Experiences'' event, hosted by IEEE SB CEV.

EMPOWERED - conducted by IEEE WiE AG AJCE as a part of “Open Horizons: Bridging Gaps, Building Futures” based on WiE R10 DEI GRANT 2024. WIEVE EPILOGUE 2.0 - a 12-hour hackathon organized by IEEE Women in Engineering Affinity Group (WiE AG) at Federal Institute of Science and Technology (FISAT). PIXIFY - FIGMA WORKSHOP - The Pixify event, a Figma workshop, was hosted by the IEEE SB TKM College of Engineering.

UPLIFT - one-day workshop on Bluetooth RC Cars and IoT for pre-university girls. VENTURE UP - organized was a dynamic and impactful event held on 17th.

Other events were EDUQUIZ on 24th August 2024, at the Muthoot Institute of Technology and Science, FRAME IT - an event held as part of e-KITES 2.0, TECH IQ - As part of the National Engineers’ Day celebrations, AWARDS 2024 - Education Society Kerala Chapter has been honoured with the prestigious IEEE Education Society Chapter Achievement Award 2024, IGNITING IMPACT - A Volunteer’s Tale with IEEE” organized by IEEE SB SCMS

School of Engineering and Technology, PRO TALKS #6 - held on 18th September 2024, from 6:00 PM to 7:00 PM on Google Meet, FOLDSCOPE - on September 27, 2024, at Government High School Ummini, Palakkad, Kerala. E-KITES 2.0 - EdSoc Kerala Integrated Training for Engineering Students, is a two-day technical upskilling initiative for the engineering students on September 28-29, 2024 at LEAD College of Management, Palakkad.

Engineering in Medicine & Biology Society (EMBS)

1. Inauguration Student branch of IEEE EMBS in The Adi Shankara Institute of Engineering and Technology, Kalady, Ernakulam on 23rd August 2024 - Student branch chapter of EMBS was inaugurated by Vinodkumar V, Chair EMBS Kerala Chater at ASIET in the presence of Jithin Krishnan Vice Chair and Dr. M J Jayashree, Treasurer.

2. Symposium on 'Introduction to Medical Device Technology' - organised at Adi Shankara Institute of Engineering and Technology, Kalady on 23rd August 2024 as part of the inauguration of Student branch chapter.

3. Exhibition of Medical Devices as part of YESS on 24th August 2024 - in Muthoot Institute of technology and Science.

4. Pulse Talk 1 titled 'Athletic potential optimisation' - The talk by Ms Arya Murukesan of TKMIT on 22nd August 2024.

5. Pulse Talk 2 titled Molecular Dynamic simulation in CADD - talk by Ms Aaisha Mohammed Shafeek of Sahrudaya College of Engineering and Technology on 29th August 20204.

Geoscience & Remote Sensing Society (GRSS)

2-Day Hands-on Workshop on Ground Truth Data Creation & Coastal Environmental Monitoring Using Remote Sensing - a "Hands-on Workshop on Ground Truth Data Creation & Coastal Environmental Monitoring Using Remote Sensing" on 14-15th May 2024 in IIST. For the conduct of the event, received funding of $1000 from GRSS Best local young professional activity challenge 2024.

IEEE DAY Event 2024-SMART-D - organised a panel discussion followed by focused insights and interactive session on October 1, 2024 at the council hall, IIST.

IA/IE/PES Joint Chapter

ALL KERALA INDUSTRY APPLICATION SOCIETY STUDENT CONCLAVE 2024

(AKIASSC'24) - conducted in association with IEEE SB MESCE, Kuttippuram from 19th to 21th of July 2024 at MES College of Engineering, Kuttippuram.

Industrial Visit

1. KSEB 110 KV Substation, Edappal

The industrial visit as a part of AKIASSC'24 is organized to 110 KV Edappal Substation on 19th July 2024.

2. Additional Skill Acquisition Park - Community Skill park, Tavanur.

The industrial visit to the Centre of Excellence at Additional Skill Acquisition Park- Community Skill Park in Thavanur was conducted on 19th July 2014 as a part of AKIASSC'24.

Inauguration Ceremony - The inauguration celemony of AKIASSC'24 was conducted on 19th July 2024 at at MESCE.

Workshops – 1.Rapid prototyping - conducted on July 19, 2024, as part of AKIASSC'24. 2. Embedded system (sreelakshmi) - as a part of AKIASSC'24 commenced on 19th July 2014. 3. API Hacking - The workshop on introduction to API HACKING as part of AKIASSC'24. 4. Student Professional Awareness Session - focused on Leadership in Professional organizations was conducted on July 19, 2024, as part of the AKIASSC'24.

Cultural Night

The cultural night as part of AKIASSC24 commenced promptly at 7:30 PM. The evening began with a performance by the music band team from MESCE, whose captivating melodies set a lively tone for the event.

Panel Discussion(Sreelakshmi) - The panel discussion at AKIASSC '24 organized.

In the closing ceremony of the AKIASSC'24) Dr. Deepak M, Secretary, IA/IE/PELS Jt., Dr. Kumaravel S, Vice Chair, Dr. Vasanthi M, Chair, IA/IE/PELS Jt. Chapter Kerala, Anakha S, Student Representative, Prof. Sajna M K, IAS SBC Advisor, MES CE Kuttipuram and Aiman, Chair, SB MES CE Kuttipuram were witnessed.

SYNERGY Solar Design Workshop - On August 24, 2024, the SYNERGY Solar Design Workshop was organized as a part of IEEE YESS 2024.

Photonics Society

Outreach activity: Talk on Promising third generation Solar Cells by Ms. Lakshmi Sreenivasan, Women in Photonics Coordinator, IEEE Photonics Society Kerala chapter on September 10, 2024 at St.Albert's College, Ernakulam. Key types discussed include:

- Dye Sensitized Solar cells (DSSC): Uses organic dyes to absorb sunlight and are known for their simplicity, low production costs, flexibility and indoor applications.
- Perovskite Solar Cells: Known for their high efficiency and low production costs, perovskite cells have rapidly advanced and show great promise for commercialization.
- Organic Photovoltaics (OPVs): These cells utilize organic materials and offer flexibility, lightweight properties, and potential for low-cost manufacturing.
- Quantum Dot Solar Cells (QDSC): Utilizes quantum dots to absorb light and convert it into electricity. These cells leverage the unique electronic properties of quantum dots, allowing for potential improvements in efficiency and versatility.

Expert talk Session: "Multimodal biophotonic optical imaging for early disease detection and guidance", Dr. Madhu Veettikazhy, Postdoctoral researcher Biophotonic Imaging Group Department of Health Technology, Technical University of Denmark. The talk was received with great enthusiasm by audience.

Power Engineering Society (PES)

EV Grid Integration Challenges: Evidenced through existing Australian EV Charging profiles

A Webinar on 11th July 2024 on "EV Grid Integration Challenges: Evidenced through Existing Australian EV by speaker, Dr. Kazi N. Hasan, Senior Lecturer, Electrical Engineering, RMIT

University, Melbourne, Australia.

IEEE PES R10 India Council Global Workshop

The inaugural session of the IEEE PES R10 Global Workshop on the theme “Resilient Grids: Adapting to Energy Transition” was held from 2:00 PM to 3:30 PM at Hotel Residency Towers, Thiruvananthapuram, Kerala. Er. A. Suhair, (Past Chair, PES Kerala Chapter), Prof. Muhammed Kasim, (Chair of the Kerala Section). Dr. P.S Chandramohanan Nair, (Founder Chair, PES Kerala Chapter) were attended.

Memories and milestones - By Nisha Parameswaran Kurur, Product Architect at UST, Trivandrum on 23rd July 2024 IEEE PES Kerala Chapter in association with IEEE Women in Power Kerala , IEEE R10 PES Women in

Power , IEEE WIE AG Kerala Section and IEEE PES SBC CE Perumon.

Power electronics of space craft - The fourth talk of WOW 5.0 series this year was on “Power Electronics for Spacecrafts”.

Robotics and Automation Society (RAS)

PRAYANA 2024: A Journey into Robotics and Automation

PRAYANA, has recently concluded a series events that spanned across August, September, and October 2024, with workshops, expert talks, hackathons, and makeathons. The event “Building Mobile Robots with ROS2 and Nav2” was held online on July 27, 2024, led by Robotics Engineer Ramana Botta.

SkillQuest: Expert Talks on Trending Technologies SkillQuest, held throughout August 2024, was talks featuring expert speakers in various emerging fields, including Conversational AI: On August 12, 2024,

Devasena Pasupuleti, Ph.D Scholar at Osaka University, Japan, led this insightful session with 39 attendees (29 IEEE, 10 non-IEEE), Generative AI: Ajmal M, Tech Lead at Wipro, ROS Software <> Hardware Integration on August 19, 2024, Swarm Drones: Mohamed Samshad from IIT Kanpur led this session on August 20, 2024, Custom vs. Generic Robotic Solutions held on August 28, 2024, by Safar V from Mowito Robotics.

TechSprint: Hands-On Weekend Workshops: conducted online over three weekends in August 2024 with interactive and hands-on sessions such as: Human-Robot Interaction: Shyamli Suneesh from the UK, on August 10, 18, and 19, 2024, Simulation in ROS: from August 17 to August 25, 2024. New Product Development: Augin M Menacheriel from Genrobotics on August 17, 18, 24, and 25, 2024. Software Engineering for Robotics and Automation: by Sanjuna Mariam Mathews from Accenture, in August 10 to 25, 2024.

InnoBot: 24-Hour Hackathon - held from September 21 to 22, 2024, at St. Joseph's College of Engineering and Technology, Palai. TechTrek: Assistive Innovation and Immersive Experiences at PRAYANA 202 - TechTreck hosted on August 24, 2024, at MITS, Kochi. Makeathon - PRAYANA 2024 Participants developed assistive devices aimed at improving daily life for individuals with disabilities.

Bringing Art to Life - is event combined Augmented Reality (AR) with traditional art, transforming static artworks into dynamic, interactive pieces. Steel and Motion - A deep dive into two-wheeler mechanics using AR technology, this exhibit offered attendees an immersive look at dismantled automobile parts.

Build-A-Bot Challenge: Ongoing Robotics Competition - on August 14, 2024, is still ongoing, with participants working on developing fully functional robots.

SkillX and SkillForge: Upcoming Certified Training Sessions - two offline certified training sessions scheduled for early October 2024.

Signal Processing Society (SPS)

Impulse 5.0 - The Eternal Legacy - Impulse is a two-day National Conclave held from August 10th to 11th.

K-12 Signal House Exhibition at YESS 24 - hosted as part of the Yearly Engineering Students Summit (YESS) 2024, on August 24th at Muthoot Institute of Technology in Kochi.

2025 ICASSP Satellite Event: Authorship Workshop at TKMCE - organized as part of the 2025 ICASSP Satellite Event.

Report on the 2025 ICASSP Satellite Event: Authorship Workshop at KMEA - announcing the upcoming 2025 ICASSP Satellite Event: Authorship Workshop.

"RUST - Stand Out from the Rest" organized in collaboration with ELNA.ai (www.elna.ai), a pioneering AI-on-block chain startup.

IEEE SPS Student Chapter Congress 2024

The IEEE SPS Student Chapter Congress 2024, held on August 23rd and 24th

MATLEAP - organized a one-day workshop introducing MATLAB programming to undergraduate students.

Achievements - New SPS Student Branch Chapter at Jyothi Engineering College, Cheruthuruthy, Thrissur - inaugurated on 12th September 2024 by Prof. Reshna S, Chairperson, IEEE SPS Kerala Chapter.

Vehicular Technology Society (VTS)

The IEEE VTS Kerala Chapter played a prominent role in

the IEEE YESS (Yearly Engineering Student Summit) 2024 event by organizing a highly engaging and innovative stall on 24th August 2024 at Muthoot Institute of Science and Technology.

Remote Controlled Car Competition conducted by the VTS Members at YESS

The IEEE VTS Kerala Chapter hosted a highly successful webinar titled “Machine Learning and AI for 6G and Beyond Networks” on october 4, 2024, presented by Dr.

M. Sabarimalai Manikandan, Associate Professor at IIT Palakkad.

As we are moving towards the last quarter we are hoping to make all our planned activities and events to happen including a two-day workshop named Velox and a couple of webinars too.

Reported by
Dr. Chandi Pani
Chair, NL

Kolkata Section

1. IEEE Region-10 Conference Quality and Management Workshop

The IEEE Region-10 Conference Quality and Management Workshop was successfully conducted on 6th September 2024 at the Seminar Room of the Electrical Engineering Department, Jadavpur University. This event was jointly organized by the IEEE Kolkata Section and the Department of Electrical Engineering, Jadavpur University, with support from the IEEE Region-10 Conference Quality and Management Committee. The workshop brought together experts in electrical engineering and conference quality management to explore critical aspects of academic conference organization, quality control, and management strategies. It served as a platform for students, faculty members, and professionals to engage with esteemed professors and gain valuable insights into effective conference management practices. A total of 21 institutions, including IITs, NITs, and Government Engineering Colleges, participated in the program.

2. 2nd International Conference on Data Analytics and Insights (ICDAI-2024)

Techno International New Town, Kolkata in technical collaboration with IEEE Young professionals, Kolkata Section jointly organized ICDAI-2024 at Techno International New Town, Kolkata on July 25-27, 2024. The conference participants got the chance to converse with other scholars, researchers, and practitioners about various aspects of theory, development, applications, and experiences on Data Science and Analytics. The purpose of the conference was to better understand the role of interdisciplinary concerns and how engineering was developing day by day to create technology that was friendly to humans. The conference served as a forum for presenting important research and literature from the engineering and technology fields, particularly in the areas of Data Science and insights. Leading professionals shared their knowledge, offer advice, and respond

to participants' queries and worries during this conference.

The primary goals of the Conference were to:

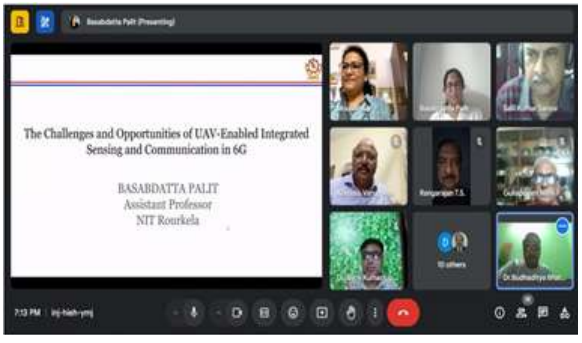
- Promote research relationships between the universities and the industry by presenting the current field research.
- Review current and upcoming trends for the following several years with the attendees.
- Educating the audience on the necessity for additional research and development in the area and, consequently, the expanding demand for IT security.
- Give the delegates a chance to directly exchange innovative thoughts and application experiences.

All accepted papers will be published in the Springer Nature LNNS Book Series (SCOPUS indexed).

Inauguration of the ICDAI-2024

3. The Challenges and Opportunities of UAV-Enabled Integrated Sensing and Communication in 6G

IEEE LMAG India and IEEE LMAG Kolkata Section organized a technical talk on "The Challenges and Opportunities of UAV-Enabled Integrated Sensing and Communication in 6G" on 11.7.24 in online mode. The 6G standard envisages an integration of communication and sensing capabilities to boost spectrum efficiency and network performance while exploring novel applications. In this aspect, Integrated Sensing and Communication (ISAC) for Unmanned Aerial Vehicle (UAV) - Enabled networks has gained widespread attention. UAVs can be used to provide pervasive communication coverage while also enhancing sensing accuracy and gain. However, UAVs are limited by their size, weight, mobility, LoS channels, and power constraints. On the other hand, ISAC load can reduce the independent communication load and sensing load of UAVs, thereby contributing towards improved flexibility. This talk focuses on how symbiosis can be effectuated to improve ISAC using UAVs and UAV-Enabled network performance using ISAC. It shall also deeply delve into communication-assisted sensing and sensing-assisted communication technologies from the UAV perspective. Technical emphasis would be stressed on Digital Twins, Immersive Cloud Computing, Holographic Communication with ultra-low latency, application of AI in the protocol stack, Reconfigurable Intelligent Surface, Ultra-massive MIMO, and Orbital Angular Momentum. The speaker was the Dr. Basabdatta Palit, Assistant Professor, Deptt. of ECE, NIT Rourkela and a total of 26 participants were present in the program.



Some participants in the online LMAG Program held on 11.07.2024

4. ELEVATE

ELEVATE 2024, organized by IEEE IEM CASS Kolkata Section, IEEE IEM SB along with all other IEEE IEM Student Branch Chapter, on 21st and 22nd July 2024 at IEM Gurukul Campus Kolkata. This initiative focuses on highlighting different types of AI or ELECTRONICS-based technologies through some tech talks and hands-on workshops. In a symbolic act of growth and collaboration,

the esteemed professors collectively planted saplings, representing the nurturing of knowledge, innovation, and partnership. The ceremony continued with a series of compelling speeches, each speaker offering profound insights on the importance of embracing challenges, fostering creativity, and cultivating a culture of excellence. The inauguration of "ELEVATE" thus marked the commencement of a transformative journey, setting a new benchmark for future endeavors. The inaguration of the event has been conducted in presence of Dr. Satyajit Chakrabarty ,Director of IEM UEM group , Snehasis Banerjee, Lead Research Scientist at TCS Research, Tata Consultancy Services, Prof. Dr. Suparna Kar Chowdhury, a senior member of the IEEE Power and Energy Society, Snehasis Banerjee, Lead Research Scientist at TCS Research, Tata Consultancy Services and their wonderful inaugural lecture and the whole program has been followed by some different mind-blowing events like "Arduino Workshop ", TECH talks, Block chain workshop, etc. and finally, it highlighted the excitement of the preceding activities but also rewarded the enthusiasm and dedication of the attendees, ensuring that the closing moments of ELEVATE were as memorable and impactful as its opening. Total 300 participants are present in this program.

5. IEEE WIE Day Celebration

In celebration of the annual International WIE Day, #IEEEWIEDay, under the theme "Engaging More Women in AI and 4IR Technologies", CSE (AIML), CSBS, CoE for Advanced Communication & Intelligent Computing, IIC IEM collaboration of IEEE WIE Kolkata Section, India, was hosted a series of distinguished lectures on 8.7.24. This event aims to highlight and promote the participation of women in Artificial Intelligence (AI) and the Fourth Industrial Revolution (4IR) technologies, aligning with this year's theme, "Engaging More Women in AI and 4IR Technologies." We have had the privilege of hearing from distinguished speakers, Prof. Dr. Suparna Kar Chowdhury, chair IEEE Kolkata section, Prof. Dr. Sheli Sinha Chaudhuri, Chair of WIE IEEE Kolkata section, Prof. Dr. Debashis De, Chair of IETE Kolkata section who have shared their invaluable insights and experiences. Their contributions have undoubtedly enriched our understanding and inspired us all. The IEEE WIE Day celebration inspired our students to explore and excel in these transformative fields. The event was a grand success, with enthusiastic participation from all the attendees, participants, and WIE society members. A total 150 participants were present in this program.

Name of Speaker/Delegates present with affiliation:

1. Prof. Dr. Suparna Kar Chowdhury, Chair of IEEE Kolkata Section
2. Prof. Dr. Sheli Sinha Chaudhuri, Chair of WIE IEEE Kolkata Section

3. Prof. Dr. Debashis De, Former Chair of IETE Kolkata Section

IEEE R10 DEI Grant sponsored event: School children for IoT-based Accessible and Inclusive Environment Creation

Date and venue of Event: 22.07.2024, Sirakole Girls's High School, SIrakole, South 24 Parganas, West Bengal, India

The IEEE WIE Kolkata Section organized an event titled "School Children for IoT-based Accessible and Inclusive Environment Creation," aiming to empower young students to develop IoT solutions that enhance accessibility and inclusivity. This event brought together over 50 students to participate in hands-on workshops, expert sessions, and Introduction to IoT projects. The students learned the basics of IoT, sensors, and microcontrollers, and were guided by scholars and academicians. At the end of the event, a kit consisting of an excise copy, pen, and a motivated storybook was handed over to school students. Through this initiative, students gained valuable technical skills and a heightened awareness of the importance of inclusive technology, fostering a spirit of social responsibility and community engagement. The event was a grand success, with enthusiastic participation from all the attendees, participants, and WIE society members.

Sir J. C. Bose Milestone Commemorative Lecture 2024

IEEE Kolkata Section organized "Sir J. C. Bose Milestone Commemorative Lecture 2024", in association with

Heritage Institute of Technology, Kolkata. The lecture was held on Friday, August 02, 2024, 3.00 p.m. at Seminar Hall A of Heritage Institute of Technology, Kolkata.

Dr. Aloknath De, Chief Technical Officer at Samsung India, talked about "5G to 6G: Challenges and the way forward". Shri. P. K. Agarwal, Chief Executive Officer, Kalyan Bharati Trust and Prof. (Dr.) Basab Chaudhuri, Principal, Heritage Institute of Technology, Kolkata, was present during the event. Prof. P.K. Basu chaired the lecture session. The program was attended by 120 people from different Institutes in and around Kolkata.

Dr. K. Porkumaran
Section Chair

Madras Section

IEEE Madras Section Global Leadership Connect 2024

The IEEE Madras Section successfully hosted the Global Leadership Connect 2024 on 23rd July 2024 at Le Royal Meridien, Chennai, bringing together eminent global leaders from IEEE and providing an engaging platform for discussions on the future direction of IEEE, its leadership, and opportunities for members in Region 10.

Distinguished Guests:

- Dr. Thomas M. Coughlin, IEEE President 2024
- Dr. Kathleen A. Kramer, IEEE President-Elect
- Dr. Deepak Mathur, IEEE MGA Vice President
- Dr. Chun Che (Lance) Fung, IEEE Region 10 Director
- Mr. Srikanth (Sri) Chandrasekaran, Country Head, IEEE India
- Dr. K. Porkumaran, Chair, IEEE Madras Section & Principal, Sri Krishna College of Engineering and Technology

The event began with a vibrant cultural presentation, setting the tone for the evening. A brief video showcasing the achievements of IEEE Madras Section and its activities was presented. The Code of Ethics of IEEE was emphasized, reaffirming the organization's commitment to professional conduct.

Dr. Porkumaran, Chair, IEEE Madras Section warmly welcomed the attendees, highlighting the significance of the event and IEEE's role in fostering global collaboration.

Esteemed guests were honored with citations, followed by short inspirational talks by each guest on leadership, technology, and their visions for IEEE.

IEEE Madras Section ExCom members were felicitated for their dedication and contributions to the section's growth and success.

Panelists engaged in an insightful discussion on the theme "Driving Innovation through Global Leadership." Mr. Aravindhan, Past Chair, IEEE MAS Young Professionals moderated the session.

The event concluded with a vote of thanks by Dr. Sangeetha, EC Member, IEEE MAS, acknowledging the efforts of the organizing team and the contributions of the distinguished speakers.

IEEE Region 10 Industry Relations Committee Sponsored AEROMODCON

IEEE Madras Section and IEEE Young Professionals, in collaboration with Jeppiaar Engineering College and sponsored by the IEEE Region 10 Industry Relations Committee, successfully hosted Aeromodcon 2024 a two-day AEROMODCON - Aeromodelling Workshop and Demonstration on the 19.09.2024 & 20.09.2024.

The first session, led by Mr. Sheerkar Donthy, a Design Engineer at The ePlane Company, provided an insightful and engaging introduction to Computer-Aided Design (CAD) using CATIA.

This was followed by a detailed exploration of aerodynamic design using CAD, enlightening attendees on how theoretical principles translate into practical design approaches, specifically for Unmanned Aerial Vehicles (UAVs).

The afternoon session shifted focus toward industry insights, featuring a thought-provoking panel discussion on industry expectations in the UAV sector.

The second day of Aeromodcon began with an introduction to UAV fundamentals, led by Mr. Jigyasu Chand, a Systems Test Engineer at the Technology Innovation Institute (TII), Abu Dhabi. He covered crucial topics such as UAV components, sensors, and PID control systems, providing participants with a strong foundation in drone technology.

Overall, "Aeromodcon 2024" provided an exceptional blend of theoretical knowledge and practical exposure, offering attendees a holistic view of the UAV industry. The experience was not only educational but also incredibly rewarding for all who participated.

"Video Podcast Series on Impact of Artificial Intelligence (AI) on the 4R technologies: Reduce, Reuse, Recycle, and Recover."

IEEE Madras Section, IEEE Madras Section Women in Engineering Affinity Group, IEEE Madras Young Professional AG, Panimalar

Engineering College and Panimalar Institute of Technology presented a video Podcast Series on the occasion of WIE Day Celebration 2024 by Ms. Raisa fahiba.

"Video Podcast Series on Challenges: Women in Engineering"

IEEE Madras Section, IEEE Madras Section Women in Engineering Affinity Group, IEEE Madras Young Professional AG, Panimalar Engineering College and Panimalar Institute of Technology organized a Video Podcast on the occasion of WIE DAY 2024 by Dr. Jacinta Lamontagne – Executive Coach, Consultant, Dentist, CEO and Founder of Excite Excellence.

"Video Podcast Series on Impact of Artificial Intelligence (AI) on the 4R technologies: Reduce, Reuse, Recycle, and Recover."

day 2024 by a distinguished speaker Dr. Leena Chandrasekar, Assistant professor at RNSIT, Ph.D Researcher and Exe-Com Members at IEEE SPS, EMBS and WIE Bangalore Chapter. She undoubtedly inspired many to continue striving for excellence in their engineering careers.

"Video Podcast Series on Vital Role of Women in AI and Industry 4.0"

IEEE Madras Section, IEEE Madras Section Women in Engineering Affinity Group, IEEE Madras Young Professional AG, Panimalar Engineering College and Panimalar Institute of Technology presented a Video Podcast Series on the occasion of WIE Day Celebration 2024 by Dr. Agnes Irwanti, IEEER10 WIE Committee Chair and TVRI Supervisory Board member. Dr. Irwanti delivered an inspiring talk on the vital role of women in AI and Industry 4.0.

IEEE Madras Section Young Professionals

"Pathfinder"

IEEE KPRIET Student Branch with the IEEE KPRIET Education Society SBC in collaboration with IEEE YP Edsoc AD HOC Committee, IEEE Madras Section YP, IEEE YP Comsoc AD HOC, successfully hosted the IEEE Pathfinder event on August 22nd and 23rd at KPR Institute of Engineering and Technology (KPRIET). This event, part of the STEP initiative, was designed to connect students with industry experts and equip them with essential skills for the corporate world, ensuring a smooth transition from academia to industry.Day 1 of the event featured key sessions on leveraging AI tools in research and maximizing the benefits of IEEE membership. A panel discussion with industry leaders focused on the evolving skill sets required for engineering graduates, providing attendees with insights into the demands of the modern job market. On Day 2, participants embarked on industrial visits to leading companies, including PEPS, Flowlink, Audi Coimbatore, and KPR Mills.

With over 100 participants, IEEE Pathfinder successfully bridged

the gap between academia and industry, reinforcing the relevance of IEEE Young Professionals' initiatives in preparing students for their future careers.

"TECHX"

IEEE MAS Young Professionals and Jeppiaar Institute of Technology organized a workshop on "Data Visualization Using Power BI," conducted by Syasan's Career Analytics on behalf of JIT IEEE and funded by IEEE, aimed to introduce budding engineers to Power BI, a powerful business intelligence tool, and teach them essential skills for interpreting and presenting data visually.

The second part of the session focused on creating different types of visualizations, such as bar charts, line graphs, and maps. Mr. Vishnu Priyan provided guidance on how to use different types of charts effectively for different types of data.

"Grow and Glow"

IEEE Madras Young Professionals and IEEE St. Joseph's College of Engineering Student Branch Chapter organized the event "Grow and Glow" on 25th September 2024. Participants gained valuable guidance on leveraging IEEE's network for skill enhancement and future opportunities.

"Student Transition and Elevation Program"

IEEE Madras Section Young Professionals and Panimalar Engineering College hosted "Student Transition and Elevation Program" on the 27.09.2024.

Mr. Abdul Halik M I, Operations Lead at Forte Consulting, emphasized the importance of building a personal brand in the digital space, explaining how IEEE's platform can be leveraged to expand professional networks and create career opportunities.

In addition, a panel discussion on “Navigating Your Career in Innovation,” moderated by Ms. Priyanka Jayakumar, Technical Writer at Chargeback Gurus, provided further perspectives.

The event concluded with a Valedictory Session, where Mr. Arun M shared his reflections on the day’s proceedings, highlighting the significance of continuous learning, innovation, and collaboration for young professionals.

IEEE Women in Engineering Madras Section AG

“Introduction to Digital Entrepreneurship”

IEEE Madras Section Women in Engineering Affinity Group is excited to celebrate IEEE WIE Day 2024 with a special session

on Digital Entrepreneurship as part of the Empower Her: WIE Knowledge Exchange Series. Join us on June 22, 2024 (Saturday), from 11:00 AM to 12:00 PM IST for an insightful presentation by Ms. Vidhya Arumugam, an Independent Business Strategist and TEDx Speaker

Webinar on Tech for Women-Led Development and the possibility for enhancement in India ”

IEEE Madras Section, IEEE Madras Section Women in Engineering AG, IEEE Madras Young Professionals AG, Panimalar Engineering College and Panimalar Institute of Technology presented a webinar on Tech for Women-Led Development and the possibility

for enhancement in India on the occasion of IEEE Women in Engineering Day 2024 by Dr. Elizabeth Rita Samuel, Associate Professor, Department of Electrical and Electronics, Rajagiri School of Engineering and Technology on 28.06.24 at 5 PM(IST).

"Webinar on Winning with WIE – Opportunities and Benefits"

IEEE Madras Section, IEEE Madras Section Women in Engineering AG, IEEE Madras Young Professionals AG, Panimalar Engineering College and Panimalar Institute of Technology presented a webinar on Winning with WIE – Opportunities and Benefits on the occasion of IEEE Women In Engineering Day 2024 by Dr. S. Harivardhagini, Chair–WIE, IEEE Hyderabad Section (2024,2023), Vice Chair–WIE, IEEE Hyderabad Sections (2020,2021,2022), Treasurer–WIE, IEEE Hyderabad Section (2018,2019), Professor & Head, EIE Department CVR College of Engineering, Hyderabad, on 04.07. 24 at 6 PM (IST). Dr. Harivardhagini highlighted the opportunities and benefits for women in engineering and also provided valuable insights into various scholars hips, travel grants, and special funding opportunities available, the session also covered specific examples of grants that support international tra vel for events and conferences. Around 70 participants attended the event.

"Webinar on Multimedia in the era of Disinformation"

IEEE Madras Section, IEEE Madras Section Women in Engineering AG, IEEE Madras Young Professionals AG, Panimalar Engineering

College and Panimalar Institute of Technology presented a webinar on Multimedia in the era of Disinformation on the occasion of IEEE Women in Engineering Day 2024 by Dr. Anjali Diwan, Secretary, IEEE Gujarat Section Senior Representative, IEEE R10 SAC, Secondary Representative of IEEE Computer Society of IEEE CEDA, Professor, Marwadi University, Gujarat on 05.07.24 at 6 PM(IST).

IEEE Madras Section, IEEE Madras Section Women in Engineering AG, IEEE Madras Young Professionals AG, Panimalar Engineering College and Panimalar Institute of Technology presented a webinar titled Move with Purpose on 05.07.24 at 7.30 PM (IST) as a part of IEEE Women in Engineering Day 2024 by Ms. Mary Ellen Randall, 2025 IEEE President Elect Candidate & President at Ascot Technologies highlighted about her journey in the tech industry, highlighting the importance of purposeful decision-making, resilience, and leadership.

IEEE Madras Section, IEEE Madras Section Women in Engineering AG, IEEE Madras Young Professionals AG, Panimalar Engineering College and Panimalar Institute of Technology presented a webinar onAI and Deep Learning for 4IR Technologies on the occasion of WIE Day Celebration 2024 on 06.07.24 at 7 PM (IST) by Dr. Celia Shahnaz, Professor in the Department of EEE at BUET, Bangladesh and Chair of the IEEE Women in Engineering Committee for 2023– 24.

“Webinar on Empowering Women Leaders: Strategies for Success and Inclusion”

IEEE Madras Section, IEEE Madras Section Women in Engineering AG, IEEE Madras Young Professionals AG, Panimalar Engineering College and Panimalar Institute of Technology organized a webinar on Empowering Women Leaders: Strategies for Success and Inclusion on the occasion of IEEE Women in Engineering Day 2024 by Dr. Zuhaina Zakaria, Dean, Institute of Postgraduate Studies, UiTM Malaysia, on 08.07.24 at 6PM(IST).

IEEE Madras Section, IEEE Madras Section Women in Engineering AG, IEEE Madras Young Professionals AG, Panimalar Engineering

College and Panimalar Institute of Technology presented a webinar titled “Engineering Leadership and the Future of work” on the occasion of IEEE Women In Engineering Day 2024 by Mrs. Leslie Martinich, IEEE Distinguished Lecturer Founder and President, Competitive Focus Lead Faculty, Engineering Leadership Certificate Program, University of Texas at Austin, on 08.07.24 at 7 PM (IST).

" Women in Smart Cities "

IEEE Madras Section, IEEE Madras Section Women in Engineering AG, IEEE Madras Young Professionals AG, Panimalar Engineering College and Panimalar Institute of Technology

presented a webinar t itled Women in Smart Cities as part of the IEEE WIE Day Celebration 2024 by Dr. Surekha Deshmukh, Chairman of IEEE Pune Section, Expe rt in Power Market, Smart Grid, Renewable Sector, Uncertainty Management and Electricity Policy Analyst, on 09.07.24 at 7:00 PM (IST). Dr. Surekha Deshmukh commenced the webinar by emphasizing the critical ro le of women in advancing smart city initiat ives globally. She provided insights into how gender inclusivity enhances the effectiveness and sustainability of smart city projects. The webinar provided a platform for insightful discussions and inspired participants to contribute actively to the evolving landscape of smart cities. Around 35 participants attended the event.

"Webinar on Women in Smart Cities"

IEEE Madras Section Women in Engineering Affinity Group organises the webinar series titled The Road Not Taken, featuring the esteemed Ms. Divya Manchanda.This event

IEEE Computer Society

"Emerging Technology Trends in Digital Public Infrastructure (DPI) Innovation"

IEEE CS Madras, CSI Chennai, ACM & Hindustan Chamber of Commerce jointly organized the webinar on "Emerging Technology Trends in Digital Public Infrastructure (DPI) Innovation" by Mr. Achyut Chandra, Lead - Innovation Ecosystems & Govt. Tech Engagements, HCL Software, New Delhi on 13th Jul 2024 from 6 pm to 15 pm IST.

"Decoding Disinformation: Mitigating Misinformation in the Social Media and Generative AI Epoch"

IEEE Computer Society Madras, CSI Chennai, ACM Chennai and DELNET jointly organised the webinar on "Decoding Disinformation: Mitigating Misinformation in the Social Media and Generative AI Epoch" by Dr. Shalini R. Urs, Founder and

Chairperson, MYRA (Mysore Royal Academy), ED Emerita and Prof., International School of Information Management, Prof., (Retd.), Dept. of Library & Information Science, University of Mysore on 27th Jul 2024 from 6 pm 7.30 pm IST.

"AI Readiness: Evaluating and Strategizing the Ability to Adopt AI"

IEEE Computer Society Madras, CSI Chennai, ACM Chennai & Hindustan Chamber of Commerce jointly organised the webinar on "AI Readiness: Evaluating and Strategising the Ability to Adopt AI" by Ms. Srinimisha Morkonda Gnanasekaran, Director, Data Science, Western Digital, Advisory Board Member, Strategic AI Program, Univ. of Colorado, USA ,03.08.2024 from 6.30 pm to 8.00 pm IST

"Symposium on Explainable AI (XAI) -- Call for Papers"

IEEE CS Madras, CSI Chennai and ACM Chennai organized a research and Industry Symposium on Explainable AI (RISXAI) in hybrid mode on 27th Sep 2024 at S. A. Engineering College. This symposium is organized in honor of Mr. FC Kohli, the father of Indian Software Industry.

"Tech Trends in Cyber security"

The IEEE Computer Society Madras Section in collaboration with the Society for Electronic Transactions and Security (SETS) organized a one-day hybrid event titled "IEEE CS Day @ SETS" focusing on "Tech Trends in Cyber security" on August 19, 2024, from 9:30 AM to 4:30 PM IST. The agenda includes several insightful sessions, such as "Operational Technology and Cyber security," "Trends and Challenges in Hardware Security," "Block chain Cyber security," and "Privacy Enhancement Technology." In addition, there will be a panel discussion on "AI & Quantum in Cyber security, Trust and Privacy," providing an in-depth exploration of emerging topics.

"FLAME -- Future Leaders in Automotive & Manufacturing Engineering"

IEEE Computer Society Madras has partnered with the initiative FLAME—Future Leaders in Automotive & Manufacturing

Engineering—to facilitate the participation of 50 members from IEEE CS and IEEE in this student- centric program. FLAME aims to build technical capability in emerging technologies and is anchored by Dr. Shankar Venugopal, Vice President of Mahindra & Mahindra, who oversees technology innovation, IPR, knowledge management, and the Mahindra Technical Academy, alongside Mr. Sayantan Mukherjee, Founder of The Innovators' Garage.

"Quantum Nation: India's Leap into the Future"

IEEE Computer Society Madras, CSI Chennai, and ACM Chennai are organizing a Book Release cum Presentation event to unveil the book titled "Quantum Nation: India's Leap into the Future." The book will be released by Mr. Ajai Chowdhry, Chairman of the Mission Governing Board, National Quantum Mission of India, who will also offer felicitations and address the participants on the National Quantum Mission. Following the release, Mr. L. Venkata Subramaniam, Head of IBM Quantum India and the author of the book, will deliver a presentation on "Quantum Nation: The Future of Computing." The event aims to provide insights into India's advancements in quantum technology and its future potential in transforming the computing landscape.

"Smart Farming: Agricultural Transformation Using IOT, WSN and AI"

IEEE Computer Society Madras, in collaboration with SRMIST, CIT, REC, SAEC, and RMKCET organized a lecture on August 28 to 31, 2024. The lectures are delivered by Mr. Mohamed Rawidean, Distinguished Visitor of IEEE Computer Society, Regional Coordinator for R10 IEEE CS, and a key figure at the Malaysian Institute of Microelectronics Systems (MIMOS), under Malaysia's Ministry of Science, Technology, and Innovation. In addition to the lecture series, a mini ICT Quiz with spot cash prizes was conducted by Mr. H.R. Mohan.

"Trends in Software Testing"

IEEE Computer Society, Madras, in collaboration with KPR Institute of Engineering & Technology (KPRIET), Coimbatore, is organized a one-day in-person event titled "IEEE CS Day @ KPRIET" on September 5, 2024, from 9:00 AM to 4:00 PM IST, focusing on "Trends in Software Testing." The event took place at KPRIET, Coimbatore. The Inaugural Session will feature an online address by Prof. Hironori Washizaki, 2025 President of IEEE Computer Society, who formally inaugurated the IEEE CS Student Branch Chapter at KPRIET.

"Cryptography and IoT Security"

IEEE Computer Society Madras, Society for Electronic Transactions and Security (SETS) along with The Ministry of Electronics and Information Technology (MeitY) hosted a Tech Talk on "Cryptography and IoT Security" on September 13, 2024, at 10:00 AM IST at the Dr. APJ Abdul Kalam Auditorium, SETS, Taramani, Chennai.

"Digital Manufacturing and Industry 5.0"

IEEE Computer Society, Madras, along with IEEE CS SBC and IEEE CS SBC at Panimalar Engineering College, organized a one-day in-person event on "Digital Manufacturing and Industry 5.0" on September 14, 2024, from 8:30 AM to 3:30 PM IST. The event took place at Panimalar Engineering College, Poonamallee

High Road, Chennai. The sessions covered a range of topics including "Advances in Digital Manufacturing Systems" by Prof. RK Amit from IIT Madras, "Servitization in the Digital Era" by Mr. S Ramachandran, Principal Consultant at Infosys Knowledge Institute, and a "Cross-country Comparative Analysis of Digital Manufacturing Strategies" by Prof. Kulwant Pawar from Nottingham University Business School (online). Additionally, Mr. V Venkatraman, Founder & CEO of EmBridge Solutions Pvt Ltd, presented on "Architecting Industry 5.0 Digital Manufacturing Solutions and Use Cases." The event featured an IEEE & IEEE CS Awareness session and a Mini ICT

"AI for Democratization of Education Sector"

Quiz led by Mr. H.R. Mohan, IEEE Ambassador & Chair of Events, IEEE CS Madras.

SI Chennai, IEEE CS Madras & ACM Chennai jointly organized a webinar on "AI for Democratization of Education Sector" by Mr. Vidura Bandara Wijekoon, COO/Cofounder @Trinet Innovations Pvt Ltd, Sr Lanka, AI/ML Engineer, Data Science and Generative AI & nergy Solutions on 28th Sep 2024 from 6.00 pm to 7.15 pm IST.

"FLAME Program -- Session 2"

FLAME—Future Leaders in Automotive and Manufacturing Engineering—is a program organized under the leadership of Dr. Shankar Venugopal, Vice President of Mahindra & Mahindra,

and Mr. Sayantan Mukherjee, Founder of The Innovators' Garage. It aims to train motivated engineering students in electric vehicle (EV) technologies and innovative practices through 12 monthly sessions over the course of a year. Fifty selected IEEE and IEEE Computer Society student members are participating in the FLAME program. Track 1 focused on Innovation & Entrepreneurship, with "Innovation Flow - How to Grow Your Ideas into Innovations" presented by Dr. Shankar Venugopal, and Track 2 covered Automotive & Manufacturing Technology, with "Innovative Evolution of EVs for India" presented by Mr. Meenakshi Sundaram, CTO of Amalgamations Components Group.

IEEE MAS SIGHT AG

"Tech for Humanity"

IEEE MAS SIGHT AG organized Tech For Humanity Coffee Chat Series took place on July 12, 2024, from 7:00 PM to 8:00 PM via Google Meet. This engaging session was designed to inspire participants and demonstrate the power of technology in driving positive change for humanity. With the collective efforts of the IEEE community, we look forward to continuing the journey towards a more sustainable and inclusive future.

"Café Connect"

IEEE SIGHT Madras Section AG organized Café Connect event which took place on 28th September 2024, from 7:00 PM to 8:00 PM via Google Meet. Dr. B. Thanuja, the CEO and Founder of AGSAIMO, and an Associate Professor from the Department of Chemistry at Sri Sai Ram Engineering College, served as the guest speaker. As a strategist for initiatives like UBA, ECO, and Swachh Bharat, Dr. Thanuja shared her rich experience in solid waste management and her journey as a woman entrepreneur in a sustainability-driven industry.

IEEE Education Society Madras Section 150

Webinar on " Engineering the Future: Sustainable Development

IEEE Education Society Madras Chapter organized a Webinar on " Engineering the Future: Sustainable Development by Dr. S.K.Ramesh, Past President, IEEE HKN(2016) on 01.07.2024.

"SKYCRAFT: An Insight into Drones Workshop - R10 EA Funded Project"

IEEE Education Society Madras Section organized under the IEEE Region 10 Educational Activities Funded Project, the SKYCRAFT: An Insight into Drones Workshop, held on August 9 and 10, 2024, at Sri Manakula Vinayagar Engineering College in Pondicherry, successfully concluded with participants expressing high satisfaction.

"Innova TN 2024"

IEEE Madras Section Education Society Collaborates with InnovaTN 2024, held on August 21, 2024, at Erode Sengunthar Engineering College, was a state-level hackathon organized by the Atal Innovation Mission (AIM) in collaboration with the Explore Foundation, Metasage Alliance, Startup TN, and the IEEE Education Society Madras Section. Anchored by Dr. Prashant R.

Nair, Mr. Navaneethakrishnan Ramanathan, and Suman Pandit, the hackathon saw participation from 517 teams representing over 35 districts, with 124 teams showcasing their projects in the Grand Finale. The top three teams received ₹50,000 each, while the top 20 teams were selected for the Student Internship Program (SIP) of AIM, providing mentorship and support for project development.

IEEE PELS Madras Chapter

"Webinar on Nuances of Machine Learning"

IEEE Madras Section, IEEE PELS Madras Chapter, IEEE Madras Young Professionals, Panimalar Engineering College and Panimalar Institute of Technology presented a webinar on the topic Nuances of Machine Learning by Dr. S. Albert Alexander, Chairman of IEEE Power Electronics Society Madras Section, Associate Professor Grade 2, Dept. Of Energy and Power Electronics, VIT University, Vellore on the occasion of IEEE PELS Day Celebration 2024 on 25.06.24 at 10 AM (IST

"Webinar on Power Electronics for 5G Networks"

IEEE Madras Section, IEEE PELS Madras Chapter, IEEE Madras Young Professionals, Panimalar Engineering College and Panimalar Institute of Technology presented a webinar on the topic Power Electronics for 5G Networks by Dr. Sahaya Senthamil L, Power Electronics Researcher, Anna University on the occasion of IEEE PELS Day Celebration 2024 on 25.06.24 at 6 PM (IST). Around 50 participants attended the session. The Student Coordinators are Subhaharini P, Shandhini M, Shahana M and Kamaleeswari P coordinated the event along with Staff Coordinator Mr. Arun. M, AP/ ECE.

"Webinar on Virtual Reality in Engineering Education"

IEEE Madras Section, IEEE PELS Madras Chapter, IEEE Madras Young Professionals, Panimalar Engineering College and Panimalar Institute of Technology presented a webinar on the topic Virtual Reality in Engineering Education by Mr. ChennamHarinantha Reddy, Immediate Past Chairman of IEEE Power Electronics Society JT Chapter, IEEE Hyderabad Section on the occasion of IEEE PELS Day Celebration 2024 on 26.06.24 at 6 PM (IST).

"Webinar on Future Trends in Power Electronucs"

IEEE Madras Section, IEEE PELS Madras Chapter, IEEE Madras Young Professionals, Panimalar Engineering College and Panimalar Institute of Technology presented a webinar titled Future Trends in Power Electronicsas part of the IEEE PELS Day Celebration 2024 by Dr. Brad Lehman, President of IEEE Power Electronics Society and Professor at Northeastern University in Boston on 26.06.24 at 7:30 PM (IST). Around 100 participants attended the event.

"Webinart on Challenges and Opportunities in Automotive Power Electronics"

IEEE Madras Section, IEEE PELS Madras Chapter, IEEE Madras Young Professionals, Panimalar Engineering College and Panimalar Institute of Technology presented a webinar on the topic Chanllenges and Opportunities in Automotive Power Electronics by Mr. Pradeep Shenoy, Treasurer at IEEE Power Electronics Society, General Manager at Automotive Power Design Services, Te xas Instruments on the occasion of IEEE PELS Day Celebration

2024 on 27.06. 24 from 6 PM (IST). Around 65 participants attended the session.

“Webinar on Power Electronics- The Key Technology for Grid Integration”

IEEE Madras Section, IEEE PELS Madras Chapter, IEEE Madras Young Professionals, Panimalar Engineering College and Panimalar Institute of Technology presented a webinar titled Power electronics – The Key Technology fir Grid Integration as a part of IEEE PELS DAY 2024 by Dr.Frede BlaabjeergSenior Past President, IEEE PELS & Professor, Villum Investigator at Aalborg University.

“Webinar on Power electronics: Driving Efficiency and Innovation in Everyday Devices ”

IEEE Madras Section, IEEE PELS Madras Chapter, IEEE Madras Young Professionals, Panimalar Engineering College and Panimalar Institute of Technology presented a webinar on Power electronics: Driving Efficiency and Innovation in Everyday Devices as a part of IEEE PELS Day Celebration 2024 by Mr. R. Sivaprasad, IEEE PELS Senior Member, IEEE PES Senior Member, Associate Professor at Sri Sairam Engineering College on 30.06.24 at 6.30PM (IST). Around 40 members attended the meeting.

IEEE Madras Section Communication Society

“Webinar on Mastering Softskills for Career Success”

IEEE Madras Section, IEEE Madras Young Professionals, IEEE SB Panimalar Group of Institutions, IEEE Communication Society & IEEE Professional Communication Society SBC organized a

webinar on Mastering Softskills for career success as a part of Placement Series 2.0 by Ms. Ami Ved, Communication and Softskills Expert, ICF CCE Certified and Founder of Speakwithamee on 12.06.24 at 11A M(IST). Around 65 participants attended the webinar.

IEEE TEMS Madras Section

"Webinar on Mastering the Art of Cracking Interviews"

IEEE Madras Section, IEEE TEMS MAS chapter, IEEE Madras Young Professionals AG, Panimalar Engineering College and Panimalar Institute of Technology organized a webinar titled on Mastering the Art of Cracking Interviews as part of the Placement Series 2.0 by Mr. Kingsly RajKumar, Management Consultant – GB Tech Corp & Founder – Smart Mindz on 12.06.24 at 5 PM (IST). Mr. Kingsly RajKumar's sessions covered several key areas, including strategies for preparation.

"Webinar on From Campus to CEO: Building an Entrepreneurial Mindset and Essential Life Skills "

IEEE Madras Section, IEEE TEMS MAS chapter, Panimalar Engineering College and Panimalar Institute of Technology presented a webinar titled From Campus to CEO: Building an

Entrepreneurial Mindset and Essential Life Skills as part of the Entrepreneurship Track 2.0 by Ms. Maria Subi Rajan, Founder and CEO of BrandFox and She the Sakthi on 14.06.24 at 11AM (IST). Ms. Maria Subi Rajan highlighted the importance of building an entrepreneurial mindset and essential life skills for students transitioning from campus to CEO roles.

"Webinar on Guidance for Placements Aptitude Tests and Interviews "

IEEE Madras Section, IEEE TEMS MAS chapter, IEEE Madras Young Professionals AG, Panimalar Engineering College and Panimalar Institute of Technology presented a webinar titled Guidance for Placement and aptitude tests and interviews as a part of Placement Series 2.0 by Mr. Snehil Singh, Core Placement Coordinator at IIT Madras on 15.06.24 at 11 AM (IST).

Dr.Surekha Deshmukh
Section Chair

Pune Section

IEEE Pune Section's Key Highlights

With great enthusiasm, this quarter was filled with extensive knowledge decimation activities like faculty development programs, events like project competitions, coding competitions, hands-on training sessions, industry academia connect workshops. The main focus was emphasising the role of technology in solving real time, challenges of society, including climate change, environmental impact, optimum utilisation of resources and sustainability.

The success of impact can be measured in terms of receipt of funding for projects of many society chapters, student branches from IEEE YP, WIE, Industry Committee, SIGHT, HTA. The increased participation from students, faculty members and professionals as well as partners is the positive outcome.

At IEEE R 10 SYWL Congress during 29th August to 1st September at Tokyo, Japan team of Students, Professionals, Women in Engineering representatives of IEEE Pune section participated enthusiastically creating visibility for IEEE Pune Section

IEEE Pune section Student Congress is a flagship event, providing opportunity to students across different Student branches to collaborate and learn from each other to empower each other. We successfully organized this event with the presence of 300 plus students, branch counsellors and ExeCom members.

IEEE Pune Section's Annual Student Congress

On September 28, 2024, the IEEE Pune Section's Annual Student Congress (IPSC'24) took place at Dr. Vishwanath Karad MIT World Peace University, uniting 300 students from 20 different colleges. The event aimed to foster collaboration, innovation, and leadership within the IEEE community. The day commenced with registrations and a hearty breakfast, followed by the opening ceremony which included a peace prayer and insightful addresses from key figures, including Dr. Parul Jadhav, Dr. Surekha Deshmukh, Mr. Sunil Somani. Their speeches focused on the importance of togetherness, innovation, and sustainability, reinforcing the Congress's mission of nurturing leadership and collaborative growth among students.

The first session, led by Sarang Kamalakar, Founder and CEO of Parentheses Systems, explored the symbiotic relationship between artificial intelligence and humans, providing attendees with valuable insights into future technological advancements. This was followed by a fireside chat with Ms. Rupali Gadagkar, Founder RegenESG inspiring discussions on sustainable development goals and the importance of nature-based learning.

After lunch, an interactive activity energized participants. It included a quiz on diverse tech topics like AI and cybersecurity, followed by a debate where top scorers

represented tech giants such as Apple, Google, and Tesla. This activity fostered intellectual growth, teamwork, and critical thinking. The Student Branch Connect session allowed Chairs and Vice-Chairs from various colleges to present their achievements and share their student branch activities, fostering peer learning and networking. The day concluded with vibrant cultural performances and a vote of thanks from the Student Section Representatives Vibhav Dalvi, Anannya Srivastava, Shrushti Vyawhare.

The IEEE Pune Section provided vital support, and the event was highly successful, garnering positive feedback from attendees for its organization, content, and opportunities for engagement. IPSC'24 successfully nurtured a spirit of innovation, leadership, and collaboration, leaving participants motivated to contribute further to technological advancements and sustainable development initiatives.

IEEE Xtreme 18.0 Awareness Session

The IEEE Xtreme 18.0 Awareness Session, on August 10, 2024, was a resounding success, attracting over 100 registrations with 68 attendees, including both IEEE and non-IEEE members from across the IEEE Pune Section. The session featured a comprehensive introduction to IEEE Xtreme, outlining the competition's format, history, and its significance in developing technical skills and fostering teamwork. Success stories from previous participants were shared, inspiring attendees by showcasing how the competition enhances problem-solving abilities, resilience, and opens doors to career opportunities in the tech industry. A highlight of the session was the participation of the IEEE Region 10 Lead, who provided crucial guidance on the competition's rules, benefits, and deadlines, as well as advice on how students could leverage IEEE Xtreme for professional networking, skill development, and potential scholarship opportunities. The technical session, delivered by Mr. Suraj Mani Chaurasiya, focused on problem-solving techniques, equipping students with practical tips on tackling complex algorithms and managing time effectively. The event concluded with an engaging Q&A and networking segment, where attendees connected with peers and IEEE leaders, fostering a sense of community among IEEE Xtreme aspirants. Students left the session with a deep understanding of IEEE Xtreme, enhanced problem-solving skills, and valuable insights on how to prepare for the competition. Overall, the session successfully motivated students to participate in IEEE Xtreme 18.0, ensuring they were well-prepared and informed about the global challenge ahead. Organized & hosted by IEEE

Xtreme Section Lead in Collaboration with IEEE Pune Section.

Kshitij Talk Series at AISSMS IOIT Pune College

The Kshitij Talks speaker session organized by IEEE Pune Section, was held on 27th August 2024 at AISSMS IOIT, featured Mr. Dinanath Kholkar ex-board member of IEEE Pune Section and former Senior VP at TCS. He discussed India's digital transformation and the IndiaStack global platform, highlighting the impact of innovations like UPI and Aadhaar. The event saw 152 students and 2 faculty members actively engaged, with attendees gaining valuable insights into India's technological progress and expressing enthusiasm for future collaborations. The session was supported by IEEE Pune Section and received positive recognition. Organized by IEEE Pune Section in collaboration with AISSMS College of Information Technology.

The MoU between PES-IAS Chapter of IEEE Pune Section Pune, and JSPM's JSCOE, Pune

The official inauguration of the first Power and Energy Society Student Branch Chapter (PES) Student Branch Chapter (SBC) in IEEE Pune section at Rajarshi Shahu College of Engineering, Pune was inaugurated on Tuesday, 20th August, 2024. During the event, section heads and distinguished guests inaugurated the PES SB board by unveiling it with the pulling of a curtain.

The chief guest for this event was Mr. Nandagopal Vaidya, senior General Manager at TATA Motors Passenger Vehicle Limited and other invitees were were Mr. Anand Vijaykumar, Deputy General Manager, TATA Motors Limited, Pune, Dr. Surekha Deshmukh, Chairperson IEEE

Pune Section, Dr. Geetanjali Vaidya, Chairperson PES-IAS IEEE Pune Section and Dr. Mandar Bhawalkar, Treasurer IEEE Pune Section and Vice-chair IEEE PES-IAS Pune section.

After that all the invitees shared their views at this event. Dr S.L.Chavan, Head of Dept. for Electrical Engineering briefed about various activities in the Electrical Engineering Department. Dr Avinash Badhade, the Director for JSPM'S RSCOE delivered a keynote address. Dr A.S.Devasthali, Vice Principal mentioned about the commitment of Institution to support the SBC. Dr. Geetanjali Vaidya, Chair PES-IAS, IEEE Pune Section, mentioned in her speech the significance of the IEEE PES Student Branch's launch and highlighted the opportunities for networking through various activities. Dr. Surekha Deshmukh, Chair, IEEE Pune Section urged students to actively engage with the new IEEE PES Student Branch and take full advantage of the resources and opportunities available to them. Chief Guest, Mr. Nandagopal K. Vaidya, Head of Vehicle Attributed Technical Services at the Engineering Research Centre, Tata Motors Passenger Vehicle Limited, focused on the importance of innovation, and the value of collaboration between academia and industry.

Inauguration of Power and Energy Society Student Branch Chapter (PES SBC) at JSPM's Rajarshi Shahu College of Engineering, Pune

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Unlocking Student Empowerment through IEEE at D.Y. Patil Pimpri

On 9th September 2024, the IEEE Student Branch STB64321 at Dr. D. Y. Patil Institute of Technology, Pimpri, Pune, led by Student Branch Chair Anshuman Mishra and guided by Branch Counsellor Dr. Anup S. Vibhute, successfully organized a Student Membership Drive themed "Unlocking Student Empowerment through IEEE." The event, attended by approximately 70 non-IEEE members and 9 IEEE members, featured a keynote session by IEEE Execom Member Mr. Dhiraj Mani Chaurasiya, who outlined IEEE's mission, current projects, and organizational updates. Anannya Srivastava from the Section Student Representative (SSR) Team highlighted ongoing initiatives and encouraged active student engagement in IEEE activities. SAC Volunteers Disha Kamalaskar and Pratichi Das further emphasized the benefits of IEEE membership, particularly regarding career development and industry placement. The event also included an interactive team-building quiz conducted via the Slide platform, assessing participants' attentiveness with 4-10 students forming teams based on performance. This was followed by a Q&A session for feedback and clarifications. A networking session introduced the IEEE Student Branch Core Team, who discussed future projects, such as an E-waste Management Initiative aimed at educating schools, colleges, and local communities. The session concluded with a focus on developing a Student Branch brochure to promote these initiatives. Six participants were declared winners, with eight engaging actively in the interactive segment.

Session Report: Power Up with IEEE - Unlocking Your Professional Edge

Event Date: September 25, 2024

Organized by: Department of Computer Engineering in collaboration with IEEE GHRCEM Student Branch, IEEE Pune Section, and WiE AG

Speaker: Dr. Surekha Deshmukh, Chair, IEEE Pune Section

The “Power Up with IEEE” session on September 25, 2024, attracted over 150 participants eager to enhance their professional development. Dr. Surekha Deshmukh delivered an insightful keynote on skill development, networking, and the benefits of IEEE membership. The interactive session encouraged attendees to ask

questions about internships and career pathways. A quiz concluded the event, testing knowledge and providing prizes for winners.

Additionally, an important milestone was achieved during the event as the Memorandum of Understanding (MoU) was officially signed by Dr. Surekha Deshmukh, Chair of the IEEE Pune Section, and Dr. R.D. Kharadkar, Director of GHRCEM. This collaboration aims to strengthen efforts in Energy and Environmental Engineering between the IEEE team and the institute. Feedback highlighted the session's informative nature and its motivational impact. Overall, the event successfully empowered students to leverage IEEE resources for their academic and career growth. The organizing team looks forward to future collaborations and impactful events.

Cybersecurity Session

The Cybersecurity Session, held on September 2, 2024, at RSCOE College in Pune, organized by the IEEE Pune Section in collaboration with the IEEE RSCOE Student Branch PES & WIE Society, was a tremendous success. The event attracted a diverse audience of students and professionals eager to deepen their understanding of cybersecurity. Mr. Sanjay Bharghava, a renowned expert in the field, delivered an engaging presentation covering

vital topics such as securing digital infrastructures, emerging cyber threats, and ethical hacking. His insights were complemented by real-world case studies that provided practical strategies for countering cyber-attacks. The session also highlighted exciting career opportunities in cybersecurity, inspiring many attendees to explore this dynamic field. A lively Q&A segment allowed participants to seek guidance on navigating careers and developing technical skills. Feedback from attendees was overwhelmingly positive, particularly regarding the practical applications of the information shared. The session concluded with a valuable networking opportunity, fostering connections among students, IEEE volunteers, and industry professionals. The IEEE Pune Section and IEEE RSCOE Student Branch PES & WIE Society look forward to organizing more impactful events in the future to promote knowledge sharing and collaboration.

An Awareness session on Project Development

A Project Development Awareness Session was presented by the Department of Electronics and Telecommunication Engineering for Final Year (B.Tech) Students and organized by IETE Student Forum in collaboration IEEE student chapter at PCCOE. The Esteemed Guest for the program was Mr. Rajendra Suryawanshi, Automotive Electronics professional with 16 Years of experience having working knowledge in Product Development and Project Management. Mr. Suryawanshi highlighted the significance of project planning and effective time management in achieving project success. The session provided valuable insights on the importance of creating and maintaining a well-structured plan throughout the project's duration. He provided an explanation of his work on the Electronic Control Unit (ECU), explaining the overall process and key modules involved in its development.

Key Aspects of Project Execution:

He highlighted several important elements: Time Planning: Essential for project success.

Component Selection: Choosing the right hardware and controllers.

Benchmarking & Requirements: Establishing benchmarks and understanding requirements.

Concept Design: Includes circuit simulation, design calculations, and schematic diagrams.

System Hacking Workshop

The System Hacking Workshop was organized by SKN ISB at the IT seminar hall, Ground floor, with the primary objective of educating students about the fundamentals and advanced techniques of system hacking and cybersecurity. The workshop witnessed enthusiastic participation from 42 out of the 50 registered students, all eager to gain insights into the world of ethical hacking. The event was efficiently coordinated by the SKNISB Team, who commenced the workshop with a warm welcome and introduction of the guest. The participants has been provided with a brief overview of the day's agenda. Mr. Raghunandan Ghatule began the session by discussing the importance of cybersecurity in today's digital age. He then delved into various hacking techniques, demonstrating live hacking scenarios, and explaining the methods used by hackers to exploit system vulnerabilities. The participants were given hands-on experience with ethical hacking tools and techniques, allowing them to

better understand how to protect systems from potential threats. The workshop was interactive, with students actively participating in discussions and Q&A sessions. At the end of the workshop, participants expressed their gratitude for the opportunity to learn from experts and gain practical knowledge in system hacking and cybersecurity.

Introduction to Sensor Technology

The IEEE VIIT Sensor Council organized an event titled "Introduction to Sensor Technology" on 23rd September to provide attendees with an in-depth understanding of sensors, transducers, and their various applications. The keynote speaker, Mr. Mandar Khurjekar, a well-known expert in the field, shared his extensive knowledge and experience. He began by defining sensors and transducers and explaining their roles in measuring physical quantities. The session covered various types of sensors, including temperature, pressure, and motion sensors, highlighting their key characteristics and practical uses. Mr. Khurjekar also discussed the differences between active and passive sensors, providing real-world examples to illustrate their functionalities. A major focus of the event was on Linear Variable Differential Transformers (LVDTs), where he elaborated on their construction, working principles, and applications in industries such as aerospace and manufacturing. The event started with a welcome address by the Chairperson, followed by Mr. Khurjekar's detailed presentation and an engaging Q&A session. The event was well-received, offering participants valuable insights into sensor technology and its future prospects.

Two-Day Workshop on Industrial Approach of Electrical and Electronic Circuits

The Department of Electrical Engineering and the IEEE Student Branch of All India Shri Shivaji Memorial Society's Institute of Information Technology, Pune, organized a "Two-Day Workshop on Industrial Approach of Electrical and Electronic Circuits" for SY B.Tech

Electrical students from August 12 to August 13, 2024. The workshop aimed to bridge the gap between theoretical knowledge and practical applications in the field of electrical engineering. Coordinated by Dr. A.D. Shiralkar and Dr. K.S. Gadgil, the workshop featured hands-on sessions and interactive discussions focusing on the latest industrial practices, circuit design, and troubleshooting techniques. Participants gained valuable insights into real-world applications of electrical and electronic circuits, enhancing their understanding and skills for future endeavors in the industry. The workshop was well-received, with positive feedback highlighting its relevance and practicality.

Cloud Computing Session

A session on Cloud computing was organized and conducted on 4th Sept. 2024. The session was conducted by Rajasi Chitrao-Balan (Alumni 1999, Computer Dept.), Associate Vice President, Mphasis, Pune. The session was attended by 164 students from TY E&TC, IEEE student members, and registered students from computer, Mechanical, IT, and Instrumentation and control departments along with 3 faculty members.

The basics of cloud computing along with the industry case studies were discussed. The detailed discussion about cloud and cloud computing concepts, types of cloud, comparison of well-known cloud providers Google, AWS, Azure, traditional architecture and cloud architectures, Netflix as a case study from its formation and major organization using public cloud, etc. The FAANG (Facebook, Apple, Amazon, Netflix, and Google) companies and cloud usage. The session was very informative with the practical aspects of architecture and stressed the career opportunities in the cloud domain and the preparation required. Dr. Mrudul Dixit, Prof. Vanarase and Dr. Shilpa Deshpande Madam attended the session along with the students.

Participation of IEEE Pune Section team at R10 SYWL Congress at Tokyo, Japan, during 29th July to 1st August 2024

8 members from IEEE Pune Section thoroughly enjoyed 4 days with IEEE leadership, members and engaged in the YP discussion forums, Industry panels, WIE interactions, LM experience-sharing sessions.

The best part was the display of the techno-social initiatives, projects, activities of IEEE Pune Section and impact created in serving our society. The active participation led to winning many contests and earning many prizes during the congress.

Another reason that made the presence of Section very special was an enchanting performance at the Cultural event with the classical dance performance by Dr. Priya, Marathi Song by all of us and charismatic performance on Guitar by Mr. Dhiraj.

Best experience of networking, collaborating, exchanging ideas and sharing best practices with other sections and spending time with many IEEE friends.

Breakout Session1
(WIE)

IEEE Pune Section

IEEE Region10
SYWL Congress 2024

IEEE Pune Section

IEEE R10 SYWL CONGRESS 2024

Section-3

Miscellaneous Reports & Announcements

TENSYMP 2024

Dr. Prerna Gaur
Vice Chair & Chair-Elect

The IEEE Region 10 Symposium (TENSYMP) 2024 was an exceptional three-day convention of knowledge exchange, innovation, and collaboration among some of the brightest minds worldwide. Bringing together scientists, engineers, and industry professionals, this flagship event of IEEE Region 10 (Asia-Pacific region) attracted participants from over 44 countries. The conference featured a wide range of paper presentations and discussions on cutting-edge technologies and solutions addressing global challenges. The event was held across two distinguished venues, with Day 1 at ITC 'WelcomHotel, Dwarka', New Delhi, and Day 2 and Day 3 at Netaji Subhas University of Technology (NSUT), Dwarka, Sector 3, New Delhi, from September 27th to September 29th, 2024.

With over 900 paper submissions from researchers worldwide, TENSYMP 2024 became a center for technical discussions. A total of 350 were accepted, and finally, 238 papers were registered for presentation, 63 of which were delivered online, effectively. The Technical Program Committee, made up of experts from different fields, worked hard to review the submissions, ensuring the high quality of content TENSYMP is known for. This commitment to quality was clear in the variety of topics and innovative research presented throughout the event.

The event started on September 27th, 2024, at ITC WelcomHotel, Dwarka, with a ceremonial lamp lighting. This was followed by speeches from various guests, including Dr. V. Narayanan, Director of ISRO's Liquid Propulsion Systems Centre, who gave an inspiring keynote address about his experience in the aerospace industry. Other notable guests included Er. Narsimhan from Grid India, IEEE Vice President MGA Mr. Deepak Mathur, and IEEE Region 10 Director Prof. Lance Chun Che Fung, who shared their thoughts on important topics. The Vice Chancellor of NSUT, Prof. Anand Srivastava, and Chitkara University's Pro-Chancellor, Dr. Madhu Chitkara, also spoke about the need for technological advancements in education and industry. Special recognition was given to Prof. Prerna Gaur and Prof. Subrata Mukhopadhyay, General Co-Chairs of IEEE TENSYMP 2024, for their leadership and hard work.

The inauguration concluded with a wonderful classical dance performance by Mudrakala, the Performing Arts Society of NSUT, showcasing India's rich culture. A panel discussion on "Progressive Development in Power Sector Opportunities," moderated by Prof. Subrata Mukhopadhyay and Prof. Prerna Gaur, featured experts from Industry, Dr Ashok Rajpoot from CEL, Dr S C Saxena from PowerGrid, Mr. Sanjay Sharma from SECI, and Prof Bhim Singh from academia, who shared valuable insights into trends and future opportunities in the power sector. They highlighted the importance of innovation and teamwork in tackling challenges in this field. Day 1 also included a notable Women in Engineering (WIE) session led by Engr. Sangeeta Kaushik, Ed, NTPC, who inspired many attendees with her talk about empowering women in engineering and

technology. This session emphasized the importance of including everyone in technical fields and highlighted initiatives aimed at increasing female participation in engineering. The interest shown by attendees during this session reflected a commitment to creating a diverse and welcoming environment in STEM fields.

The second day of TENSYMP 2024 included various technical paper presentation sessions at the APJ Lecture Hall Complex, NSUT (Main Campus), Delhi, where authors shared their latest research. This event provided a unique chance for delegates to present their findings to session chairs, including prominent IEEE members from Industry and Academia from leading institutions like IITs, NITs, DTU, NSUT, IGDTUW etc. Each session included interactive Q&A rounds, where presenters answered important questions, helping them refine their research.

For authors who could not attend the event in person, online tracks were also available, allowing them to present their papers effectively. This flexibility ensured that more voices could be heard and valuable research could be shared, making the event even more impactful. A special session on “Tech-Driven Solutions for a Better Future” from R10HTC Track, featured distinguished speakers Prof. Amit Ved, Prof. Sneha Kabra, and Prof. Foram Chandarana, who guided participants through innovative strategies for addressing social needs through engineering solutions. Additionally, a significant panel discussion addressed India’s changing role in the global supply chain and manufacturing landscape. The esteemed panelists provided valuable insights into this important topic.

A panel discussion on “Way Ahead – India to be an Electronic Manufacturing Hub” by esteemed experts in the field—Prof. Ranjan K Malik, Prof. Sujay Deb, Dr. Rakesh Malik, and Mr. Preet Yadav. These industry-academia leaders shared their perspectives on the challenges and future possibilities for India’s growth as an electronic manufacturing powerhouse, with particular attention to the role of women engineers and technologists in this transformation. Prof. Jasdeep Kaur

Dhanoa and Prof Rajnish Sharma moderated an engaging and forward-looking conversation that helped participants gain a deeper understanding of the future of electronics manufacturing in India.

The Special WIE & Education Track at TENSYMP 2024 organized a Panel Discussion on “Tech-Driven Solutions for a Better Future,” which brought together distinguished experts to explore how technology can drive impactful solutions for a brighter, more sustainable future. This sessi on focused on t he integration of technology into

various fields and its potential to address the challenges we face today, with a special emphasis on the role of women and education in fostering innovation. Our esteemed panel includes Mr. Deepak Mathur, Prof. Preeti Bajaj, Prof. Mridula Gupta, and Prof. Prerna Gaur. These leaders will share their insights on how technology can be a force for positive change in society.

The session was moderated by Prof. Foram Chandarana and Dr. Rashmi Agarwal, ensuring a dynamic and

engaging discussion. Day 2 also included hands-on mock interviews under IEEE Professional Activities, giving participants valuable chances to boost their careers. Experts from top companies like Microsoft, IBM, CDAC and TCS, along with academic professionals, led these interviews, allowing candidates to experience real interview situations. They received personalized feedback on their performance, helping them understand how to improve their interview skills and presentation. This opportunity built their confidence and better prepared them for future job openings, showing TENSYMP 2024's focus on technical knowledge and professional growth.

The day also featured a hands-on EPICS workshop, which provided participants with practical experience in developing innovative solutions to real-world challenges. This workshop encouraged teamwork and creative problem-solving, reflecting TENSYMP's commitment to practical learning and community engagement. On the third day, the focus shifted to practical skills and community outreach. The MOVE disaster management workshop made a tangible impact by educating school students on emergency preparedness and response strategies. These sessions exemplified the broader vision of TENSYMP, which seeks not only to advance technological innovation but also to apply these innovations for the betterment of society.

The day also featured a highly anticipated panel discussion on "Artificial Intelligence (AI) and its future impact". Esteemed panelists from industry and academia explored the transformative role AI is playing across sectors, including healthcare, manufacturing, and finance, while also discussing the ethical considerations of AI adoption. The diverse perspectives shared during these discussions enriched the overall experience of the participants and sparked further dialogue on how technology can be harnessed for societal benefit. The final day included a networking session designed to connect participants, researchers, and industry professionals, fostering potential collaborations and partnerships.The success of these sessions showcased the community spirit within

the IEEE network and emphasized the importance of building connections in the field of technology.

The success of TENSYMP 2024 was due to careful planning and dedicated efforts by the organizing team, led by Prof Subrata Mukhopadhyay, Prof Prerna Gaur, the General-Co Chairs Prof. Rajneesh Sharma the Organizing Chair and Prof D K Jain, the TPC , and supported by IEEE Delhi Section EXECOM and NSUT volunteers who played a crucial role in ensuring the smooth execution of the event. The combined efforts of the IEEE NSUT team, volunteers, and participants made TENSYMP a truly memorable event.

(For more photographs see TENSYMP Photo Album)

Tensymp Photo Album

IEEE
TENSYMP 202
Technological Advancements to Help Society Overcome Various
Economic and Health Challenges

TENSYMP
2024

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TENSYMP 2024

TENSYMP 2024

Delhi Section

IEEE
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Technological Advancements to Help Society Overcome Various Socio Economic and Health Challenges
27 – 29th September 2024

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TENSYMP 2024

27 - 29th September 2024
Venue:
WelcomHotel, Dwarka, New Delhi
Netaji Subhas University of Technology, New Delhi

27 - 29th September 2024

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Special Report

INDISCON 2024

The 5th IEEE India Council International Subsections Conference (INDISCON 2024), organized by IEEE Chandigarh Subsection along with IEEE India Council which was hosted by Punjab Engineering College (PEC), Chandigarh, commenced with much excitement and anticipation. The theme, Science, Technology, and Society, brought together an interdisciplinary group of academicians, researchers, industry professionals, and research scholars to exchange and share their knowledge, experience, and research.

The inauguration ceremony began with a warm welcome by the organizing committee of INDISCON 2024 highlighting the significance of the conference and the vital role played by innovation in shaping India's growing influence on the global stage. This year, INDISCON was hosted in North India for the first time. The conference aimed to serve as a platform for exchanging cutting-edge research ideas among experts and participants. The inaugural session was graced by the Chief Guest, Prof. Renu Vig (Vice Chancellor of Panjab University, Chandigarh) along with the Guest of Honour Sh. Deepak Mathur (2024 IEEE Vice President-MGA), Prof. Debabrata Das (Chair, IEEE India Council), Prof. Prerna Gaur (Chair-Elect, IEEE India Council), Dr. Abdul Q Ansari (Chair, IEEE Delhi Section), Prof. Rajesh Bhatia, Director PEC and Prof. Arun Kumar Singh, General Chair. During the inauguration, Sh. Deepak Mathur was felicitated by IEEE India Council for achieving significant position in IEEE leadership as 2024 IEEE Vice President-MGA.

During the inauguration, Prof. Sudeb Dasgupta, TPC Chair presented the TPC report providing an overview of the papers submissions for the conference in each track and also highlighted the review process. Prof. Das informed that a total of 2016 papers were received for the conference and after careful evaluation based on the quality checks 1247 papers were sent for blind review process and 769 papers were desk rejected. Each paper was reviewed by minimum 3 reviewers and more than 850 reviewers from various institutions were involved in the review process. Based on their recommendations, 320 papers (Oral: 226 and Poster: 94) out of 1247 papers were accepted for presentation in the conference resulting in the acceptance percentage of 25.66 %. The authors of 162 papers registered for the conference, however, 136 papers were presented in the conference as oral and poster.

The INDISCON 2024 featured 7 plenary talks scheduled on all three days that provided high-level insights into emerging trends and critical developments across various fields. The plenary talks were delivered by Dr. Goutam Chattopadhyay (JPL, NASA), Dr. R. B Grover, (Homi Bhabha National Institute, Mumbai), Dr. Surendra Pal (ISRO, Bangalore), Prof. Arvind, (Professor, IISER Mohali), Prof. Sandeep

Sancheti (Research Relations and Academic Ambassador, Elsevier, India), Prof. Sukumar Mishra (Director, IIT Dhanbad) and Prof. Shantanu Bhattacharya (Director, CSIO, Chandigarh). These plenary talks provided attendees with a broad understanding of current challenges and innovations, helping to frame the detailed technical sessions and paper presentations that followed.

The conference included 28 parallel technical sessions which were chaired by 56 renowned experts in various fields from the different institutions of National and International repute. Each session featured the keynote/invited talk(s) and oral presentations that offered attendees a deep dive into advanced topics in their respective areas. Three special sessions on MHz to THz Frequency Systems, Emerging Grid Codes & Cost of Integration of Renewables in Grid, and AI in industry were also organized in which 14 renowned researchers/speakers from academia and industry discussed state of the art technologies. The session on Women in Engineering (WIE) and Education Technology were organised in the conference. In addition, two poster sessions were also organised on first and second day of the conference.

A diverse array of research papers was presented throughout the oral and poster sessions, showcasing the latest advancements in areas such as machine learning, artificial intelligence, and the Internet of Things (IoT), 5G networks, VLSI design, Microwave, THz devices, power electronics, cybersecurity, AI in modern networks, cutting-edge innovations in quantum computing, intelligent control systems, power system, smart grid etc. These presentations not only demonstrated ongoing research but also provided a platform for interdisciplinary exchange, encouraging collaboration and discussion on emerging technologies & their practical applications.

The conference also attracted substantial participation from various industries as sponsors who showcased a diverse range of solutions & products at their respective exhibit. The participating industries/sponsors include Power Grid Corporation of India, JV Micronics Faridabad, Anritsu Pvt. Ltd., Cognitive Design Technology Pvt. Ltd. Bengaluru, Hind High Vacuum Co Pvt. Ltd. Bengaluru, Scietech Pvt. Ltd. India, and State Bank of India. The Science and Engineering Research Board (SERB) Department of Science and Technology, Government of India, DST Chandigarh Administration and Defence Research and Development Organisation (DRDO) also supported the event as sponsor.

All the oral and poster presentations were evaluated by the session chairs and based on their recommendation best paper (04) and poster (03) awards were distributed. In the valedictory Prof. Debabrata Das addressed the gathering seeking their feedback and distributed the certificates to the participants. He also congratulated the organising team and commended the INDISCON 2024 for its exceptional organization, meticulous planning and elevating the standard of IEEE conferences not only in India but globally.

The conference was attended by more than 300 participants including delegates, IEEE Execom members, speakers and session chairs from all over the globe. In the side-lines of the INDSICON 2024,

a special Execom meeting of IEEE India Council was held on 23.08.2024 which was attended by the Execom members. On 24.08.2024, AGM of all the IEEE members was organised in hybrid mode.

After through re-checking of all the papers presented during the conference as per IEEE standards and guidelines, 135 papers have been submitted to the IEEE Xplore for the potential inclusion in their repository.

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INDISCON
2024

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2024

Special Report

A new Portal for Student Volunteers

STUDPORT (Students Reporting Desk)

This column is exclusively meant for IEEE Student Volunteers to report their activities directly. They can choose any important activity carried out in the current quarter and report in their own words. This is to promote their reporting capability along with the execution of their program. The report is limited to 500 words with maximum two relevant photographs, one or two reports from each Section with suitable title. Only two will be selected to publish in the quarter issue of IC Newsletter. Chair SAC of the Sections can direct as well as advice the SB volunteers to cooperate and limit the number of reports. - Editor

STUDPORT Report-1

Unravel the Electronics

The IEEE Student Branch at Vasavi College of Engineering organized an interactive event titled “Unravel the Electronics” on 31st August 2024. The event was designed to engage 2nd-year Electronics and Communication Engineering (ECE) students in an exciting and knowledge-rich experience centred around core electronics concepts. Divided into three sections, the event aimed to foster teamwork and deeper understanding of electronics topics through a series of carefully curated questions.

Students were divided into groups of six, and the event began with questions being projected on a screen, prompting participants to collaborate and write their answers on paper within the allotted time. The questions covered a wide range of electronics topics, encouraging students to think critically and apply their theoretical knowledge. IEEE volunteers actively supported the event by guiding teams, collecting the answer sheets, and assisting in the correction process. Once the evaluation was completed, the top-performing teams were recognized and applauded for their efforts.

The event witnessed enthusiastic participation from the students, creating an atmosphere of healthy

competition and engagement. It not only tested the students' knowledge but also helped in building camaraderie among the participants.

Target Audience:

The event was specifically aimed at 2nd-year ECE students at Vasavi College of Engineering. A total of 200 students participated, representing a significant portion of the department's student body.

How It Benefitted the Participants:

"Unravel the Electronics" provided multiple benefits to the participating students. First, it enhanced their understanding of key electronics concepts by requiring them to apply their knowledge in a competitive environment. The team-based format encouraged collaboration, communication, and problem-solving among the students, key skills that are essential in both academic and professional settings.

The event also created a platform for students to engage with their peers, fostering a spirit of teamwork and shared learning. The competitive nature of the event motivated students to perform at their best, while the recognition of top teams served as a form of encouragement and reward for their efforts. Overall, the event contributed significantly to building a stronger foundation in electronics for the 2nd-year students and increased their interest in the subject, making it an enriching and impactful experience.

(IEEE SB Secretary, Vasavi College of Engineering, Hyderabad)

STUDPORT Report-2

Smart India Internal Hackathon-2024

IEEE STB 17901 & IEEE RAS student branch chapter with the department of CSE conducted The Smart India Internal Hackathon (SIIH) 2024 at Santhiram Engineering College (SREC) in association with is set to inspire and engage students by providing a platform to tackle real-world challenges with innovative solutions. This national event, under the Ministry of Education's Innovation Cell, aims to bring together talented students to work on practical problems, collaborate with peers, and gain valuable insights from industry mentors. At SREC, we are dedicated to fostering an environment of creativity and hands-on learning.

SIH 2024 will not only enhance students' technical and problem-solving skills but also bridge the gap between academic theories and industry practices. We invite all students to seize this opportunity to showcase their talent, drive innovation, and contribute to making a meaningful impact.

Type of activity:

SB Event

Name of the Event:

SMART INDIA INTERNAL HACKATHON -2024

Dates/Duration:

31-8-2024

Organized by:

Dept.of CSE in association with IEEE RAS Student Branch Chapter-17901A

Host Organization:

Santhiram Engineering College

(IEEE SB Secretary, Santhiram Engineering College, Hyderabad)

Students & Young Professionals

Dr. S. HARIVARDHAGINI
Professor & Head, EIE,
CVR College of Engineering
& Chair-IEEE WIE AG
Hyderabad Section

Empowering the Future: Bridging the Technology Gap for Underprivileged Girls through the TECH GIRLS Initiative

Education is a powerful tool for social transformation, especially when it is extended to underprivileged communities. For girls, access to quality education can break cycles of poverty, open doors to opportunities, and build a future where they are active contributors to society. When this education is oriented toward fields like STEM (Science, Technology, Engineering, and Mathematics), the impact is even more profound. The "TECH GIRLS – Empower the GIRLS through Emerging Technologies Education" initiative serves as a testament to the power of education in shaping lives and future innovators. As the Chair of the TECH GIRLS initiative, my vision is to create opportunities for underprivileged young girls to explore the transformative world of emerging technologies. My aim is to inspire and empower them with the skills and confidence needed to thrive in STEM fields, fostering a generation of future innovators and leaders.

This program, conducted in August 2024 across eight schools in different districts of Telangana, was a groundbreaking effort to introduce young girls to the world of emerging technologies like IoT (Internet of Things), Cybersecurity, Nanotechnology and Artificial Intelligence.

The Urgency of Educating Underprivileged children especially girls

Globally, access to education remains a challenge for many underprivileged girls, particularly in rural and economically disadvantaged areas. Barriers like socio-economic conditions, cultural biases, and lack of infrastructure keep girls from pursuing education, especially in technology-related fields. This creates a significant gap in the workforce, where women's perspectives and innovations are essential for balanced societal progress. The need to focus on underprivileged girls' education lies in addressing these gaps, ensuring equality, and empowering girls to become self-reliant and future-ready.

The TECH GIRLS Initiative: An Overview

The TECH GIRLS program was my vision which was supported by the Educational Activities , IEEE Hyderabad Section, was a step towards addressing these challenges. Joining hands with me were the IEEE Reliability Society, IEEE Nanotechnology Council, IEEE PES/PELS/AIS Joint Chapter and IEEE Communication Society who came forward to support this noble cause. This program aimed to inspire and empower girls by providing them with hands-on experience in emerging technologies. The initiative was carried out in a physical mode, ensuring face-to-face interactions, across eight schools in Telangana:

1. ZPHS Patelguda
2. ZPHS Polakal
3. ZPHS Prathapasingaram
4. Jubilee Hills ZPHS
5. Kokapet ZPHS School
6. ZPHS High School, Singaram – Warangal
7. Narkhuda ZPHS School
8. KGVB Chennaraopet

This huge program across Telangana could not have been a success without the active participation of the budding IEEE Student members, professionals of the institutions namely CVR College of Engineering, Ravindra College of Engineering for Women, Vignan Institute of Technology and Science, G Narayanamma Institute of Technology & Science (for women), Chaitanya Bharathi Institute of Technology (Hyderabad), Vaagdevi Engineering College, Vardhaman College of Engineering and Jayamukhi Institute of Technological Sciences in association with IEEE Women in Engineering AG of Hyderabad Section. This partnerships were crucial for providing resources and expertise for the program.

Objectives of the Program

The core objective of the TECH GIRLS initiative was to introduce young girls to STEM and motivate them to consider careers in these fields. By focusing on emerging technologies, the program aimed to:

- Break stereotypes about girls' capabilities in STEM.
- Equip participants with foundational skills in IoT, AI, cybersecurity, and nanotechnology.
- Create a supportive environment for hands-on learning and critical thinking.
- Inspire girls to pursue higher education and careers in technology fields.

Activity Structure:

The week-long program included interactive sessions, hands-on experiences, and expert lectures. The activities were structured to ensure that students not only gained theoretical knowledge but also applied what they learned through practical activities with IoT kits which were in turn donated to the schools. Here's a closer look at the program structure:

1. Interactive Sessions and Hands-on Learning

Volunteers from collaborating institutions played a vital role in engaging the students. They used presentations and real-time demonstrations to simplify complex concepts in IoT and AI. The use of IoT kits allowed students to see how theoretical concepts translate into real-world applications. For example, students learned to create simple IoT projects like temperature monitoring systems, helping them understand the role of sensors and data analysis in everyday technology.

2. Expert Lectures on Emerging Technologies

A key highlight of the program was the series of lectures delivered by industry experts. These sessions covered topics such as:

- IoT (Internet of Things): Understanding how interconnected devices can improve efficiency and create smarter solutions.
- Cybersecurity: The importance of data protection and privacy in the digital world.
- Nanotechnology: Insights into the manipulation of matter on an atomic scale and its potential applications.
- Artificial Intelligence (AI): Exploring AI basics and how it is shaping industries and society.

These lectures were designed not just to inform but to inspire, making the students aware of the potential they hold in shaping the future through technology.

3. Assessment and Feedback Mechanisms

To ensure the effectiveness of the program, students underwent a comprehensive test at the end of the week.

This helped assess their understanding of the concepts covered. Feedback forms were also collected to gather insights on the students' learning experiences and areas where they felt they needed more guidance.

Impact Analysis: Understanding the Transformation

The TECH GIRLS program saw the participation of over 500 students, with more than 300 girls benefiting from the experience. The impact was analyzed by categorizing the students' proficiency levels into five groups: Beginner, Novice, Intermediate, Proficient, and Advanced. Here's a detailed breakdown of the assessment:

- Beginner (29 students, 10%): These students were new to the field and required further foundational training.
- Novice (92 students, 32%): Participants in this group had a basic understanding and needed more practice to advance.
- Intermediate (132 students, 44%): The largest group, indicating a significant number of participants who developed a moderate understanding of the concepts.
- Proficient (55 students, 15%): These students demonstrated a good grasp of the subject and could apply their knowledge in practical scenarios.
- Advanced (27 students, 8%): These participants had a strong command over the topics and were capable of exploring more complex projects.

Reflections and Success Stories

The success of the TECH GIRLS program lies not just in the numbers but in the individual stories of transformation. Many girls who began the program with limited knowledge left with a newfound passion for technology. Feedback from the students revealed their excitement about learning concepts they previously found intimidating. For some, it was the first time they saw themselves as potential engineers or scientists. The prizes and certificates awarded to them brought a bright smile on their faces. It was an unforgettable experience to see the young volunteers shaping and encouraging their younger generation. This brought out a sense of commitment among the college students to take this work with passion and utmost dedication. The school children were profoundly happy to interact with the experts, teachers and college students.

School managements and teachers also expressed their appreciation, highlighting how the program inspired students to explore subjects outside their standard curriculum. The donation of IoT kits to the schools ensures that learning will continue, even after the program's conclusion.

Challenges and Lessons Learned

While the TECH GIRLS program was highly successful, it also faced challenges such as:

- Limited Access to Resources: In rural areas, access to high-speed internet and advanced tools can be limited, impacting the pace of learning.
- Varying Skill Levels: With students from diverse backgrounds, creating a balanced curriculum that caters to both beginners and advanced learners was challenging.
- Cultural Barriers: Encouraging girls to participate actively in sessions required overcoming societal norms that often discourage girls from pursuing technical fields.

Despite these challenges, the program's impact shows that with the right support and encouragement, girls can overcome barriers and achieve great success in STEM.

Recommendations for Future Programs

To ensure sustained success in such initiatives, here are some recommendations:

- Focus on Foundational Training: Beginner and Novice participants can benefit from supplementary materials and more focused mentoring.
- Advanced Modules for Proficient Learners: Offering

specialized training for Advanced participants can help retain their interest and challenge their skills.

- Parent and Community Involvement: Engaging parents and the broader community can help reinforce the importance of girls' education in STEM.
- Follow-Up Programs: Regular follow-up sessions can help students stay updated with new developments in technology and keep their interest alive.

Conclusion: The Way Forward

The TECH GIRLS program underscores the importance of targeted education for underprivileged girls, especially in technology fields. It demonstrated that when given the opportunity, girls are eager to learn and excel. By bridging the gender gap in STEM, such initiatives create a more inclusive and innovative future.

Educating underprivileged girls is not just about offering them a chance to learn; it is about transforming their lives and enabling them to become leaders and change-makers in their communities. With continued efforts, we can ensure that more girls have the chance to dream, learn, and achieve in the world of technology, creating a brighter, more equitable future for all.

As the Chair of IEEE WIE AG Hyderabad Section, I am deeply committed to fostering an empowering and educational environment for girls and women. My vision is to equip underprivileged girls with fundamental STEM knowledge, instilling in them the confidence to shape their own futures. I believe that TECH GIRLS represents a significant step in a larger journey towards seeing bright, confident smiles on their faces, and IEEE provides the ideal platform to turn this vision into reality.

('Volunteerism is the voice of the people put into action. These actions shape and mold the present into a future of which we can all be proud.' This is fully appropriate to the Author,who is an enthusiastic as well as promising volunteer of IEEE, currently a teacher & researcher;a proud of us)

Diary of Events
In & Around IC

Events in Third Quarter – 2024

July 2024

05 Online talk session titled "AI and Deep Learning for Healthcare Applications." Organized by IEEE Malabar Subsection, in association with IEEE Malabar Hub by the distinguished speaker, Celia Shahnaz, IEEE Women in Engineering (WiE) Chair and Professor in the Department of Electrical and Electronic Engineering (EEE) at Bangladesh University of Engineering and Technology.

Madras Section, Madras Section WiE AG, IEEE Madras YP AG, Panimalar Eng ineering College and Panimalar Institute of Technology presented a webinar on Multimedia in the era of Disinformation on IEEE Women in Engineering Day 2024.

05-12 IEEE WIE AG Hyderabad Section conducted Photo Contest on the occasion of 2024 IEEE WIE Day Celebrations

06 Lightening Talks – WIE Day 2024, under the guidance of Dr. Harivardhagini by Hyderabad Section.

07 IEEE AP-S YP Ambassador Talk: RF Power Harvesting for Batteryless Wireless Sensing Gender Diversity in Science and Engineering.

Hosted a talk session titled "AI for Edge Devices" in celebration of WiE Day by IEEE WIE Kerala Section.

08 Webinar titled "Engineering Leadership and the Future of work" on the occasion of IEEE Women in Engineering Day 2024 by Mrs. Leslie Martinich, IEEE Distinguished Lecturer, University of Texas at Austin at Panimalar Engineering College and Panimalar Institute of Technology.

Webinar on Empowering Women Leaders: Strategies for Success and Inclusion Dr. Zuhaina Zakaria, Dean, Institute of Postgraduate Studies, UiTM Malaysia by IEEE Madras Section, IEEE Madras Section Women in Engineering AG, IEEE Madras Young Professionals AG, Panimalar Engineering College and Panimalar Institute of Technology.

11 A Webinar on EV Grid Integration Challenges - Evidenced through existing Australian EV Charging profiles by speaker, Dr. Kazi N. Hasan, Senior Lecturer, Electrical Engineering, RMI.

A technical talk on "The Challenges and Opportunities of UAV-Enabled Integrated Sensing and Communication in 6G" by LMAG India and IEEE LMAG Kolkata Section.

12 IEEE Malabar Subsection along with IEEE SB GECKKD conducted the Distinguished Lecture Program on the topic 'AGI CHIPS- THE NEXT FRONTIER', handled by Prof. Alex James, Professor and Dean External Linkages and Projects, Digital University Kerala.

'An Introduction to AI and Other Handy Tools', second session in honor of WiE Day 2024, by Mr. Abhijith Benny, a Hardware Design Engineer at DCT.

	IEEE MAS SIGHT AG organized Tech for Humanity Coffee Chat Series took place via Google Meet.
13	Webinar on "Emerging Technology Trends in Digital Public Infrastructure (DPI) Innovation" by IEEE Madras Young Professionals AG.
15	Talk at BVRIT Hyderabad by Dr. Enakshi Bhattacharya MTT-S/AP-S/EMC-S Joint Chapter Hyderabad Section.
16	Inauguration of IEEE Control Systems Society (CSS) Chapter of Kerala Section by Dr. Debabrata Das, Chair of IEEE India Council
19	IEEE EMCS DL on "The Antenna Digital Twin - When Measurements and Simulations Unite", IEEE MTT-S/AP-S/EMC-S Joint Chapter Hyderabad.
19-20	Slash Key 3.0, a 30-hour national-level hackathon hosted by the National Institute of Technology (NIT) Calicut.
19-20	The industrial visit as a part of AKIASSC'24 is organized to 110 KV Edappal, Kerala.
20	IEEE WIE R10 DEI Funded Event: "A Step Beyond BINARY - Let's break the GLASS CEILINGS" - IEEE WIE Hyderabad Section.
21	IEEE India Council (IC) Execom meeting in Bangalore, three Presidents of IEEE, i.e., immediate past President Dr. Saifur Rehman, Present President Dr. Tom Coughlin, and President Elect Dr. Kathleen A. Kramer, and VP MGA Mr. Deepak Mathur attended.
	Launch – Stem Kit of IEE Move Outreach India Program. Launch by Mr. Thomas M Coughlin, IEEE President.
	The IEEE Madras Section successfully hosted the Global Leadership Connect 2024 on at Le Royal Meridien, Chennai.
21-22	ELEVATE 2024, organized by IEEE IEM CASS Kolkata Section, IEEE IEM SB along with all other IEEE IEM Student Branch Chapter.
22	"School Children for IoT-based Accessible and Inclusive Environment Creation," organized by WIE Kolkata Section at Sirakole Girls's High School, SIrakole, South 24 Parganas, West Bengal.
	The "ENABLE: Empowering New Abilities and Broadening Learning Experiences'' hosted by IEEE SB CEV.
25	The 22nd online LMAC IC webinar series by Prof. Prabhat Rajan, Vice Chancellor, D Y Patel International University Pune, on topic "Technology Vision 2035 for India and its impact?"
25-27	2nd International Conference on Data Analytics and Insights (ICDAI-2024) Techno International New Town, Kolkata in technical collaboration with IEEE Young professionals, Kolkata Section jointly organized ICDAI-2024 at Techno International New Town, Kolkata.
27	Webinar on "Decoding Disinformation: Mitigating Misinformation in the Social Media and Generative AI Epoch" by Computer Society Madras, CSI Chennai, ACM Chennai and DELNET.
	STEM kit Training program of IEEE MOVE India promoting Climate Change was organized for participants from various sections of India Council at Bangalore.

	Training Session on Ansys HFSS by IEEE MTT-S/AP-S/EMC-S Joint Chapter Hyderabad.
29-01	Participation of IEEE Pune Section team at R10 SYWL Congress at Tokyo, Japan.
30	Heavy rainfall triggered landslides in the Wayanad district of Kerala, India in which more than 400 people lost their lives. IEEE MOVE India donated 25 nos of Schneider solar lanterns and 25 nos of solar based mobile chargers for use during the disaster.

August

01-02	A two-day online workshop on KiCad PCB Designing, Led by Adithya P Rajeev, R&D Lead. Mastering KiCad: From schematics to PCB.
02	LMAG IC arranged a workshop for the students at "Baron Hill, Govt. College of Engineering, at Trivandrum on "First Aid and Basic Life Sciences".
	Lecture on "Sir J. C. Bose Milestone Commemorative Lecture 2024", Heritage Institute of Technology, Kolkata.
07	The PMP kicked off with the inaugural address by Prof. Debabrata Das.
08-09	International Conference on Circuit, Power and Computing Technologies 2024(ICCPCT 2024).
09	Panel Discussion - Utilizing IEEE for Career Advancement - hosted a successful online Pre-Event- "Utilizing IEEE for Career Advancement" as part of YESS 2024 on August 9th, 2024, via Google Meet.
09-10	IEEE Education Society Madras Section organized under the IEEE Region 10 Educational Activities Funded Project, the SKYCRAFT: An Insight into Drones Workshop.
10	The IEEE Xtreme 18.0 Awareness Session by the IEEE Pune Section.
10-11	A talk on Disasters, Climate Change and IEEE MOVE India by IEEE WIE ILS Delhi Delivery by Ms. Sadhana Attavar Vice Chair HTA, IEEE India Council.
11	IEEE WIE AG Delhi Section, Venue: India International Center, New Delhi.
13	IEEE MTT-S/AP-S/EMC-S Student Members Industrial Visit to ACD Communication Pvt. Ltd.
	Technical Talk Series - technical talk series and the first session on on "Physics informed neural networks for aerial robotics" CSS Kerala.
	Talk and panel discussion on Role and Engagement of Women in AI Academia, Indudstry and Entrepreneurship.
14-22	Pre University STEM Activity: TECH GIRLS – Empower the GIRLS through Emerging Technologies Education. TECH GIRLS – Empower the GIRLS through Emerging Technologies Education.
17	Workshop on revitalization of Sections conducted at South Zone in St. Joseph College of Engineering, Chennai.
19	Chairs Meet - an online Chairs Meet "IEEE CS Day @ SETS" focusing on "Tech Trends in Cyber security" by Computer Society Madras Section in collaboration with the Society for Electronic Transactions and Security (SETS).

	Hosting the curtain raiser for IEEE SSH (Sustainable Solution for Humanity) hackathon from R10, IC, IEEE Hong Kong, KITE and Chitkara Universities by Prof. Preeti Bajaj.
	Workshop on revitalization of Sections conducted at West Zone in Sardar Patel Institute of Technology, Mumbai.
20	Official inauguration of the first Power and Energy Society Student Branch Chapter (PES) Student Branch Chapter (SBC) in IEEE Pune section at Rajarshi Shahu College of Engineering, Pune was inaugurated.
21	2024 IEEE MTT-S/AP-S/EMC-S Joint Chapter Hyderabad Section, IEEE MTT-S DML on "Microwave Photonic Radars: What can Photonics bring to Radars?"
	Workshop on revitalization of Sections conducted at North Zone in Sharda University, Greater Noida, UP.
	A state-level hackathon by IEEE Madras Section Education Society Collaborates with InnovaTN 2024 at Erode Sengunthar Engineering College.
22	Pulse Talk 1 titled 'Athletic potential optimisation' - The talk by Ms Arya Murukesan of TKMIT.
22-24	Flagship conference INDISCON in Chandigarh, led by Prof. Arun K Singh Punjab Engineering College and team from IEEE Chandigarh SubSection.
23	Prof. Mohamed Rawidean, IEEE R10 Regional Coordinator, presented "Smart Farming: Agriculture Transformation Using IoT, WSN, and AI" at CUSAT.
	Hosting IEEE IC talks from eminent speakers of various chapters/societies across India to bring in possible collaborations by Prof. Lakshminarayana Sadasivuni.
	Inauguration Student branch of IEEE EMBS in The Adi Shankara Institute of Engineering and Technology, Kalady, Ernakulam.
23-24	The IEEE SPS Student Chapter Congress 2024.
24	LMAG IC organized Technology and Science, Kochi by Dr. P K Dash, Prof. Anaesthesiologist, SCTIMST, Trivandrum.
	Workshop on Life Sciences and First Aid, was organized at Muthoot Institute of Technology and Science, Kochi.
	Project Exhibition at the YESS'24 Event - hosted a demonstration at IEEE YESS'24 MITS Kochi. Commencement of new ComSoc SBCs - at VISAT.
	Workshop on revitalization of Sections conducted at East Zone in Heritage Institute of Technology, Kolkata.
26	Workshop on revitalization of Sections conducted at North-East Zone in Royal Global University, Guwahati.
27	The Kshitij Talks speaker session organized by IEEE Pune Section, at AISSMS IOIT.

28-31	Computer Society Madras, in collaboration with SRMIST, CIT, REC, SAEC, and RMKCET organized a lecture.
28	A meeting was organized at Kerala Section IEEE Office, discussed and decided to arrange an International conference at Trivandrum jointly with LMAG India Council and EMBS Kerala Chapter.
29	Pulse Talk 2 titled Molecular Dynamic simulation in CADD - talk by Ms Aaisha Mohammed Shafeek of Sahrudaya College of Engineering and Technology.
29-01	A team of Students, Professionals, Women in Engineering representatives of IEEE Pune section participated at IEEE R 10 SYWL Congress at Tokyo, Japan.
30	WIE Pro Talks Advanced Professional Development Series by IEEE Women in Engineering (WIE) Hyderabad Section.
31	Symposium on Advanced Semiconductor Technology at NIT Kozhikkodu by Dr Alex P James, Professor & Dean, Digital University Kerala (DUK)
31	CHIPATHON - IC Design Competition by CASS Kerala Section
31-01	Symposium celebrating 75 years of CASS at NIT Calicut, as part of the celebrations marking the 75th anniversary of IEEE Circuits and Systems Society (CASS).

September

01	Symposium on Advanced Semiconductor Technologie by Dr Jinto George at NIT Kozhikkodu
02	Kochi Subsection organized the EC meeting through Google meet platform.
06	Talk by Dr Divya S Vidyadharan College of Engineering Trivandrum on Deep Learning Meets Weather Forecasting.
	The IEEE Region-10 Conference Quality and Management Workshop was successfully conducted at the Seminar Room of the Electrical Engineering Department, Jadavpur University.
09	IEEE Student Branch at Dr. D. Y. Patil Institute of Technology, Pimpri, Pune, led by Student Branch Chair Anshuman Mishra and guided by Branch Counsellor Dr. Anup S. Vibhute, successfully organized a Student Membership Drive.
10	Talk on 'Higher Education in IISc, IITs, NITs and IIITs through GATE, by Prof. T. Venkatesh from IIT Guwahati.
13	Computer Society Madras, Society for Electronic Transactions and Security (SETS) along with The Ministry of Electronics and Information Technology (MeitY) hosted a Tech Talk on "Cryptography and IoT Security" at the Dr. APJ Abdul Kalam Auditorium, SETS, Taramani, Chennai.
	PEEIACON 2024 - Online Panel discussion on "Role & Engagement of Women in AI for Academia, Industry, and Entrepreneurship."
14	Computer Society Madras Section, along with IEEE CS SBC and IEEE CS SBC at Panimalar Engineering College, organized a one-day in-person event on "Digital Manufacturing and Industry 5.0"

	UMANG'24, Zonal Congress, IEEE Anantapuramu Sub section IEEE GPREC Student Branch successfully organized UMANG 2K24 with the theme "Technological Advancements and Its Impact on Humanity."
15	IEEE AP-S YP Ambassador Talk on "Managing Interference in Antenna Collocation: Innovative Strategies for Enhanced Communication Performance" by IEEE MTT-S/AP-S/EMC-S Joint Chapter Hyderabad.
18	Talk on 'Organizing a good quality IEEE conference – Application process and quality guidelines' by Prof. S.M. Sameer from NIT Calicut
19	Workshop for aspiring engineers IAYPC & IEEE –SPIT presented Standard Workshop & Hackathon organized in hybrid mode.
	Introduction to Sensor Technology at Sardar Patel Institute of Tecnology, Pune Section.
19-20	Madras Section and IEEE Young Professionals, in collaboration with Jeppiaar Engineering College and sponsored by the IEEE Region 10 Industry Relations Committee, successfully hosted Aeromodcon 2024 a two-day AEROMODCON - Aeromodelling Workshop and Demonstration.
21	PROCOMM'24 - a Project Competition, organized on at the College of Engineering Perumon, with two rounds.
	IEEE IC Standard Workshop and Hackathon 2024 at Sharda School of Engg & Technology University.
21-22	InnoBot: 24-Hour Hackathon - held at St. Joseph's College of Engineering and Technology, Palai.
23	A special Execom meeting of IEEE India Council held - attended by the Execom members.
	Introduction to Sensor Technology The IEEE VIIT Sensor Council of Pune Section organized an event titled "Introduction to Sensor Technology".
24	INDSICON 2024,
24	IEEE IC Standard Workshop and Hackathon 2024 at Heritage Institute of Technology.
	Talk on 'From introvert to IEEE influencer' by Mr. Ramneek Kalra.
25	Department of Computer Engineering in collaboration with IEEE GHRCEM Student Branch, IEEE Pune Section, and WiE AG Pune organized 'Power Up with IEEE - Unlocking Your Professional Edge'.
	IEEE Madras Young Professionals and IEEE St. Joseph's College of Engineering Student Branch Chapter organized the event "Grow and Glow".
	IEEE Kochi Subsection organized the Inauguration of the IEEE Graduate Students Community Kochi Hub at the Centre for Science in Society, CUSAT.
25-26	Hosting IEEE Leadership meet in Kochi by Prof. Kasim, Chair IEEE Kerala Section.
	Third edition of International Conference on "Futuristic Technologies in Control Systems & Renewable Energy" (ICFCR 2024).

Third edition of International Conference on "Futuristic Technologies in Control Systems & Renewable Energy" (ICFCR 2024).

26 IEEE IC Standard Workshop and Hackathon 2024 North-East Zone in Royal Global University, Guwahati.

LMAG IC members joined the IEEE Leaders meet organized by Kerala Section at Cochin.

27 IEEE Delhi Section LMAG in collaboration with IEEE Delhi Section Joint Chapter Circuits and Systems and Control System Society organized a Technical talk by Dr. Rakesh Kumar, IEEE Life Fellow at The Northcap University, Gurugram.

A talk by Dr Sreelal S Pillai, Project Director, VSSC Mar Baselius College of Engineering and Technology, Nalanchira MEMS on Nanotechnology and their Aerospace Applications.

27-28 Malabar Sub Section organized an FDP on RTL design and verification of ARM based systems using FPGA at Government Engineering College Kozhikode.

27-29 TENSYMP2024 - Event held across two distinguished venues, with Day 1 at ITC 'WelcomHotel, Dwarka', New Delhi, and Day 2 and Day 3 at Netaji Subhas University of Technology (NSUT), Dwarka, Sector 3, New Delhi. Delhi section hosted IEEE R10 conference.

28 IEEE CS Madras & ACM Chennai jointly organized a webinar on "AI for Democratization of Education Sector" by Mr. Vidura Bandara Wijekoon, COO/Cofounder @Trinet Innovations Pvt Ltd, Sri Lanka.

IEEE SIGHT Madras Section AG organized Café Connect event.

IEEE Pune Section's Annual Student Congress (IPSC'24) at Dr. Vishwanath Karad MIT World Peace University.

30 The IEEE Sensors Council Hyderabad Chapter organized "Multimodal Data for Effective Plant Stress Management".

Forthcoming Events

October 2024

01 IEEE Day Celebrations

Workshop - Drive of IEE Kolkota Section towards Net Zero Carbon Emossion at 5.00pm Speakers: Megha Nath, Arjun P Gupta & Vivek Adhia. Online program.

IEEE DAY Event 2024-SMART-D - organised a panel discussion followed by focused insights and interactive session at the council hall, IIST.

01-02 NMITCON 202310 IEEE CESC Milestone Lecture 2023 Zoom meeting.

02 Curtain Raiser – AISYWLC 2024 Launch and address by Dr. Debabrata Das, Chair, IC.

03	IEEE WiE International Leadership Submit by WiE Madras Section at College of Engineering, Guindi.
03 – 07	IISC IEEE Summer School 2023: Enriching Educational Opportunities, by Bangalore Section.
03-04	IEEE R10 Asia Pacific 36-Hour International Affordable Medical Device Development Hackathon at VIT Vellore.
04	IEEE VTS Kerala Chapter hosting a highly successful webinar titled "Machine Learning and AI for 6G and Beyond Networks"
	Virtual Panel Discussion organized by IEEE R10 Professional Activities Committee from 2.50 to 4.50 pm.
06	InDIITA Workshop 2023 at IIITB, Balgaluru.
08	A meeting of MDC in an online WebEx platform- Council and Section MD Meet.
09	2023 Chair-Elect Webinar topic: Meet the candidates – Chair-Elect 2023 IC.
12	Last date for Special Activities & Offers in 2025 Membership in connection with IEEE Day.
21-22	IEEE SSH 2024-Sustainable Solutions for Humanity. Inauguration on 21st Oct. 09.30am at KIET Auditorium by Dr. Anil Sahasrabudhe, Chair NETF.
22	Student Mentoring Program Fortnightly Popular Talk – The Disruption called Gen AI by Debanjana Dasgupta.
27	ICIP 2024 Abu Dhabi, IEEE International Conference on Image Processing, SPS Kerala Chapter volunteers attended.

November

02	WiE Kerala organizes Saaga'24 at Cusat School of Engineering.
06	CONFLUENCE 2024 – a largest Industry Academia Meet at Rajagiri School of Engineering & Technology Kochi
10	Deadline – Call for Nominations IEEE Kerala Section Awards.

December

07-08	AISYWLC 2024 - All India Student Young Professionals Women in Engineering Life Members Congress, at College of Engineering, Guindi, Anna University, Chennai, Tamilnadu organized by IEEE IC & IEEE Madras Section.
19-21	INDICON 2024 – Annual flagship event of India Council at IIT Kharagpur. Theme: Next-Gen Wireless Communication & Networks organized by IEEE IC & IEEE Kharagpur Section.

May 2025

23-25	6th IEEE International Conference on Control Communication & Computing (ICCC 2025) organized by CET Thiruvananthapuram, sponsored by IEEE Kerala Section.

Bangalore Section

2nd International Conference on Integrated Intelligence and Communication Systems (ICIICS-2024)

The Sharnbasva University, Kalaburagi announces **ICIICS-2024** on 22 -23 November 2024 in association with the IEEE Bangalore Section.

ICIICS-2024 aims to bring together leading academic scientists, researchers, and industry professionals to exchange and share their experiences and research results in the fields of integrated intelligence, and communication systems. The conference will provide a premier interdisciplinary platform for researchers, practitioners, and educators to present and discuss the most recent innovations, trends, and challenges encountered and the solutions adopted in these domains.

Paper Submission:

Prospective authors are encouraged to submit high quality original, previously unpublished, experimental or theoretical research papers for presentation at the conference. Articles submitted to the conference should meet the conference guidelines and must not be under consideration for publication elsewhere.

For more details on the conference track please visit: https://iciics.in/callforpaper.php

Paper Submission Link: https://cmt3.research.microsoft.com/ICIICS2024

Important Dates:

Deadline for Full Paper Submission: 5 th October 2024

Registration Fee:

For IEEE Members – Rs. 6000/-

For Non-IEEE Members – Rs.8500/-

Publication:

All papers presented in the conference will be submitted for inclusion into the IEEE Xplore Digital Library.

Important Links

Conference URL: https://iciics.in/index.php

IEEE ICMNWC – 2024 is listed in the IEEE Conference Search/Call for Papers https://conferences.ieee.org/conferences_events/conferences/conferencedetails/63763 *For more Queries please contact:*

Dr. Virupakshappa - virupaksh@sharnbasvauniversity.edu.in – 9845139468

IEEE CASS BLR Seasonal School on Quantum Circuits, on November 9 & 10, 2024, at IISc Bangalore.

Quantum circuits, which operate on qubits and harness the principles of superposition and entanglement, are poised to revolutionize computing. They offer immense potential for breakthroughs in areas such as optimization, cryptography, and materials science. This two-day event will provide in-depth training, combining theoretical foundations with hands-on experience in quantum circuit design and programming using **IBM-Qiskit** by some of the renowned speakers from academia and Industry.

Goal: To enhance research and expertise in quantum circuits.

Program Overview:

- **Day 1**: Inauguration, Keynote Talks, Tutorials on Quantum Circuits
- **Day 2**: Hands-on Workshop with Qiskit

For more information, please visit our website: https://cas.ieeebangalore.org/ieeecass_qcss/

Hyderabad Section

IEEE Education Leadership Summit 2024

A premier event presented by the **IEEE Education Society Young Professionals** at Hyderabad, Telangana, hosted by the IEEE Education Society Young Professional Adhoc Committee and **IEEE Vardhaman College of Engineering Student Branch**.

Event Details:

- **Dates**: October 22nd – 24th, 2024
- **Venue**: Vardhaman College of Engineering, Hyderabad, Telangana, India

Exclusive Contest: Participate and Win Exciting Prizes and Rewards.

1. **IEEE MGA Code of Ethics Competition**
2. **IEEE Sustainable Development Hackathon**
3. **SB/ Chapter Poster Presentation**
4. **Ideathon Competition**

Register at: https://bit.ly/IEEESUMMIT2024

What's Included:

- **Premium Registration Kit**
- **Participation in 3-Day Summit**
- **Participation Certificate**
- **Lunch (22nd & 23rd October) & Dinner (23rd October)**
- **Entry to Cultural Night on 23rd October**
- **Industrial Visit on 24th October**
- **Exciting Goodies**
- **Industry-Academia Collaboration**
- **Networking with International Leaders**
- **Hands-on Workshop Participation**

Last Date to Register: 10th October 2024

For any queries or further information, feel free to contact:

- **Dr. J Krishna Chaithanya**, Dean R&D, Vardhaman College of Engineering
  Email: deanrnd@vardhaman.org | Phone: +91-98850 52980

Mr. Sai Prashanth, Chair, IEEE Education Society Young Professional Adhoc Committee
Email: saiprashanth08@ieee.org | Phone: +91-7093319953

Kerala Section

CONFLUENCE 2024

The Largest Industry Academia Meet to be held at Kochi on November 6, 2024. CONFLUENCE 2024 will deliberate on the "Future of Talent".

This is an activity done in collaboration with IEEE India Council where IEEE IC is one of the major partners. Prof. Kasim, Chair, Kerala Section and Dr. John Jose, IC Vice chair will attend the event to endorse IEEE's support.

It's being jointly organised by Rajagiri School of Engineering & Technology (RSET), Kochi and the Group of Technology companies (GTECH). Other partners are InfoParks, Kerala, SmartCity, Kochi, Kerala Startup Mission and Kochi Metro Rail Limited.

Key speakers include Dr S. Somanath, Chairman, ISRO; Mr V K Mathews, Executive Chairman, IBS Software; Dr Dileep George, Director, Google DeepMind; Dr Tessy Thomas, Missile Woman of India; Mr S. D Shibulal, Co-founder, Infosys; Adv Mathew Kuzhalnadan MLA; Mr Basil Joseph, Cine Actor & Director and Mr Jakes Bejoy, Music Director.

The event will also feature renowned people from the government - Shri Suresh Gopi, MoS, Petroleum & Tourism, Govt.of India, Ministers of Govt. Of Kerala Shri P Rajeeve & Dr R Bindu and Shri Hibi Eden, Ernakulam MP.

The event comprises keynote sessions, panel discussions, start up and funded research projects expo, ISRO, KMRL and Water Metro stalls, PhD conclave, parallel workshops on IBM watsonx.ai, AI in Matlab, Cybersecurity, Design Thinking, Quantum Computing and RoboDogs from Unique World Robotics.

Inviting working professionals, industry personnel, academics, researchers and students to join CONFLUENCE 2024 on November 6, 2024 at RSET Auditorium from 8.30 a.m onwards.

Register at https://www.rajagiritech.ac.in/confluence/Registration.asp.
For bulk registrations, contact us at confluence@rajagiritech.edu.in..
For more details, visit https://www.rajagiritech.ac.in/confluence

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Hon'ble Minister of State for Petroleum and Natural Gas & Minister of State for Tourism
Dr. R. Bindu
Hon'ble Minister for Higher Education & Social Justice
Shri. P. Rajeev
Hon'ble Minister for Law, Industries and Coir
Shri. Hibi Eden
Member of Parliament Ernakulam Constituency
KEYNOTE SPEAKERS
Dr. S. Somanath
Chairman, ISRO
Mr. V.K. Mathews
Executive Chairman
Dr. Dileep George
Founder, Google DeepMind
Dr. Tessy Thomas
Former Director General
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RSET
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Rajagiri Valley, Kakkanad, Kochi 682 039 Kerala INDIA
Tel: +91 484 2660999, Fax: +91 484 2426241
www.rajagiritech.ac.in
Panel Discussions
Theme 1: Future of Kerala: Towards a talent-supportive ecosystem in Kerala and beyond
Theme 2: Future of AI: AI and its impact on talent ecosystem
Mr. Jakes Bejoy
Music Director & Singer
Mr. Basil Joseph
Film Director & Actor
Shri. Anoop Ambika
CEO
Kerala Startup Mission
Dr. Mathew Kuzhalnadan
Member
Kerala Legislative Assembly
Shri. S. D. Shibulal
Co-founder
Infosys
Co-located events that synergise Confluence:
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A forum for PhD scholars to present their research work to academia and industry.
Funded Research Projects Exhibition
A platform to showcase ongoing/recently completed cutting-edge research projects through posters and brief discussions.
Startup & Research Organisations Expo
An opportunity for promising startups and major state and central research organizations to present their scope and potential to the academia and industry.
THEME
FUTURE OF TALENT
Towards an ecosystem where talent is recognized, nurtured and continuously enhanced in the state of Kerala and beyond
Envisaged as the largest Industry-Academia meet in India, CONFLUENCE 2024 will witness industry leaders, professionals, faculty members, researchers and students coming together to exchange ideas and generate synergy, thereby sowing the seeds for a novel talent ecosystem in Kerala and beyond.
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Expo
Inaugural Function
Assembling at the Auditorium
Coffee Break
8:30 AM
9:00 AM
9:30 AM
10:30 AM
Parallel Session 1
Keynote-1
11:00 AM
Panel Discussion-1
Keynote-2
Lunch & Expo Visit
1:00 PM
12:00 PM
11:30 AM
2:00 PM
Parallel Session 2
Keynote-3
2:30 PM
3:30 PM
4:30 PM
5:30 PM
Parallel Session 3
Panel Discussion-2
Valedictory Session
Photo Session
Networking Tea
Exhibitions
WORKSHOPS
PARALLEL SESSION 1
Topic : Cyber Security
Offered by Elite CISO
Topic : Music Production using AI
Offered by Jakes Bejoy
PARALLEL SESSION 2
Topic : DPDP Act 2023
Offered by Elite CISO
Topic : IBM watsonx.ai
Offered by IBM
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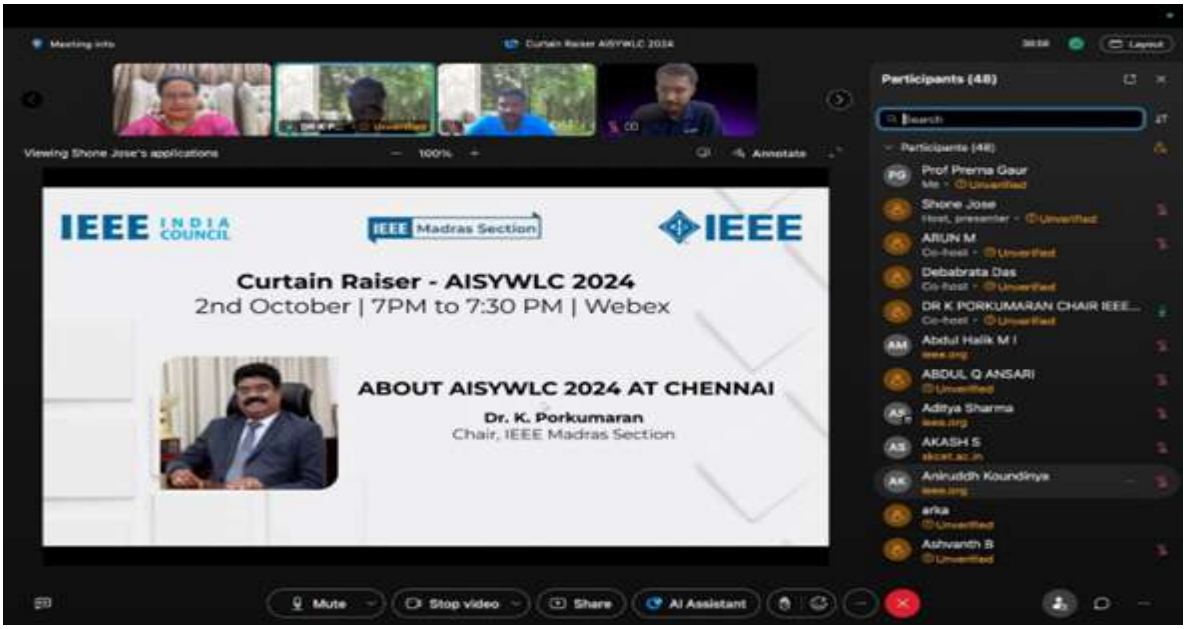
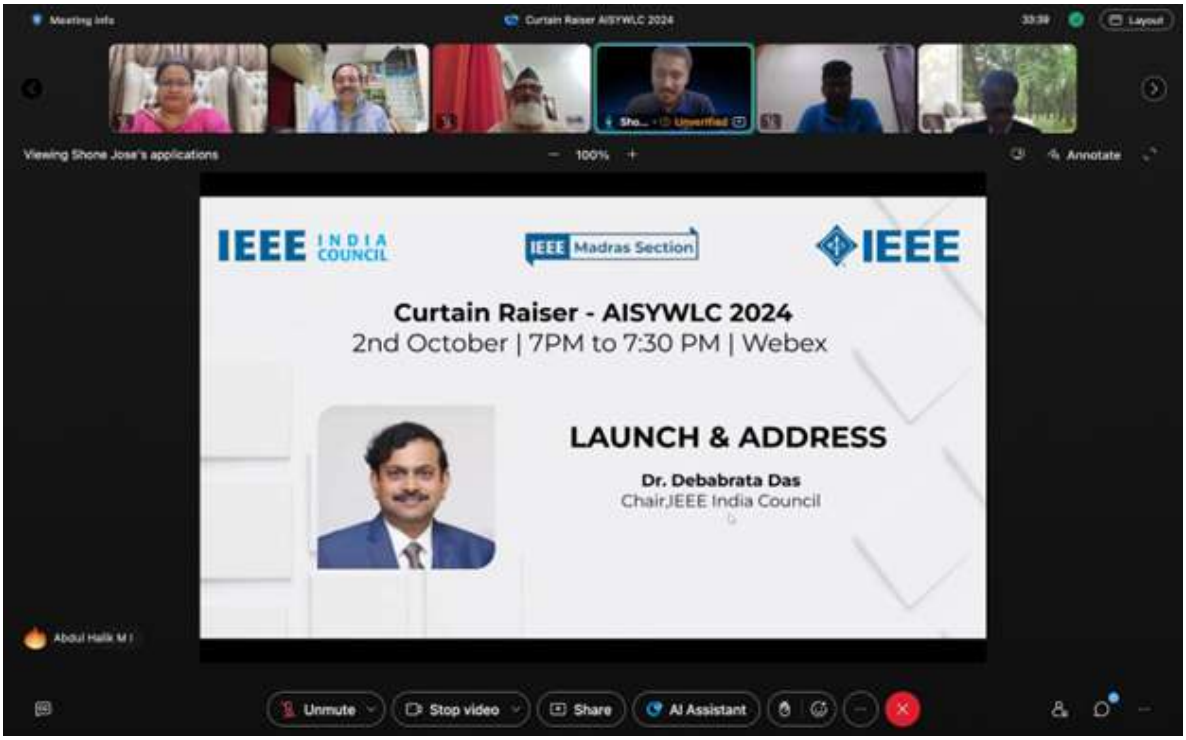
Kolkota Section

Madras Section

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IEEE INDIA COUNCIL
IEEE Madras Section
IEEE
Curtain Raiser - AISYWLC 2024
2nd October | 7PM to 7:30 PM | Webex
LAUNCH & ADDRESS
Dr. Debabrata Das
ChairJEEE India Council
Abdul Halik M I
Unmute
Stop video
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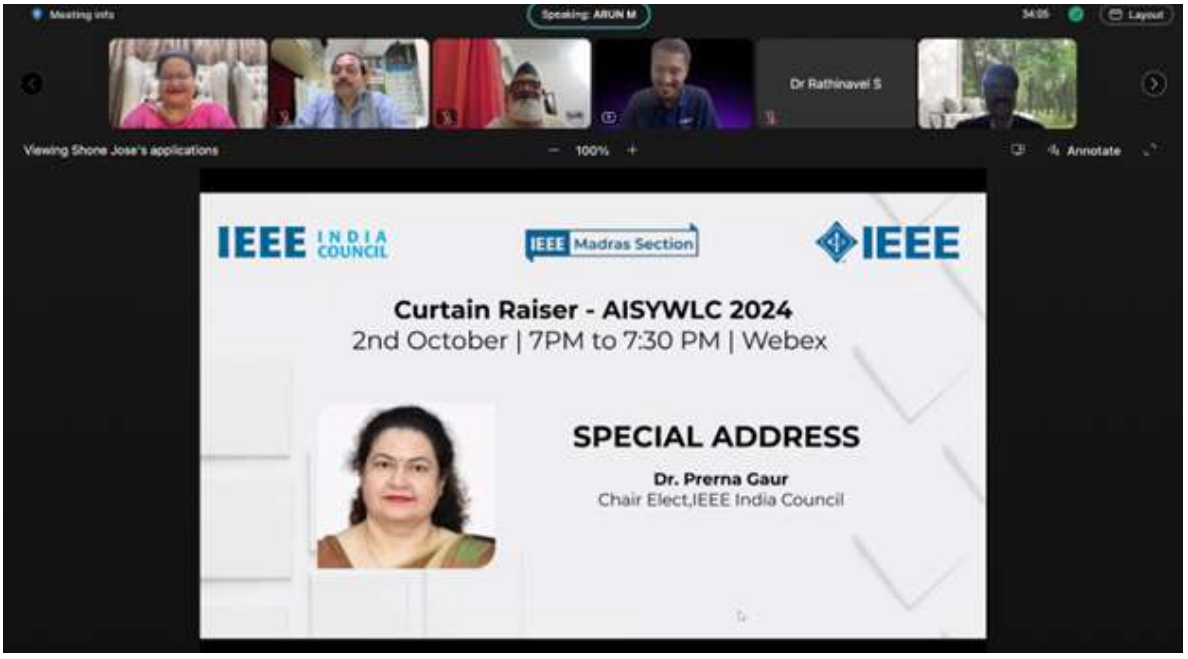
AI Assistant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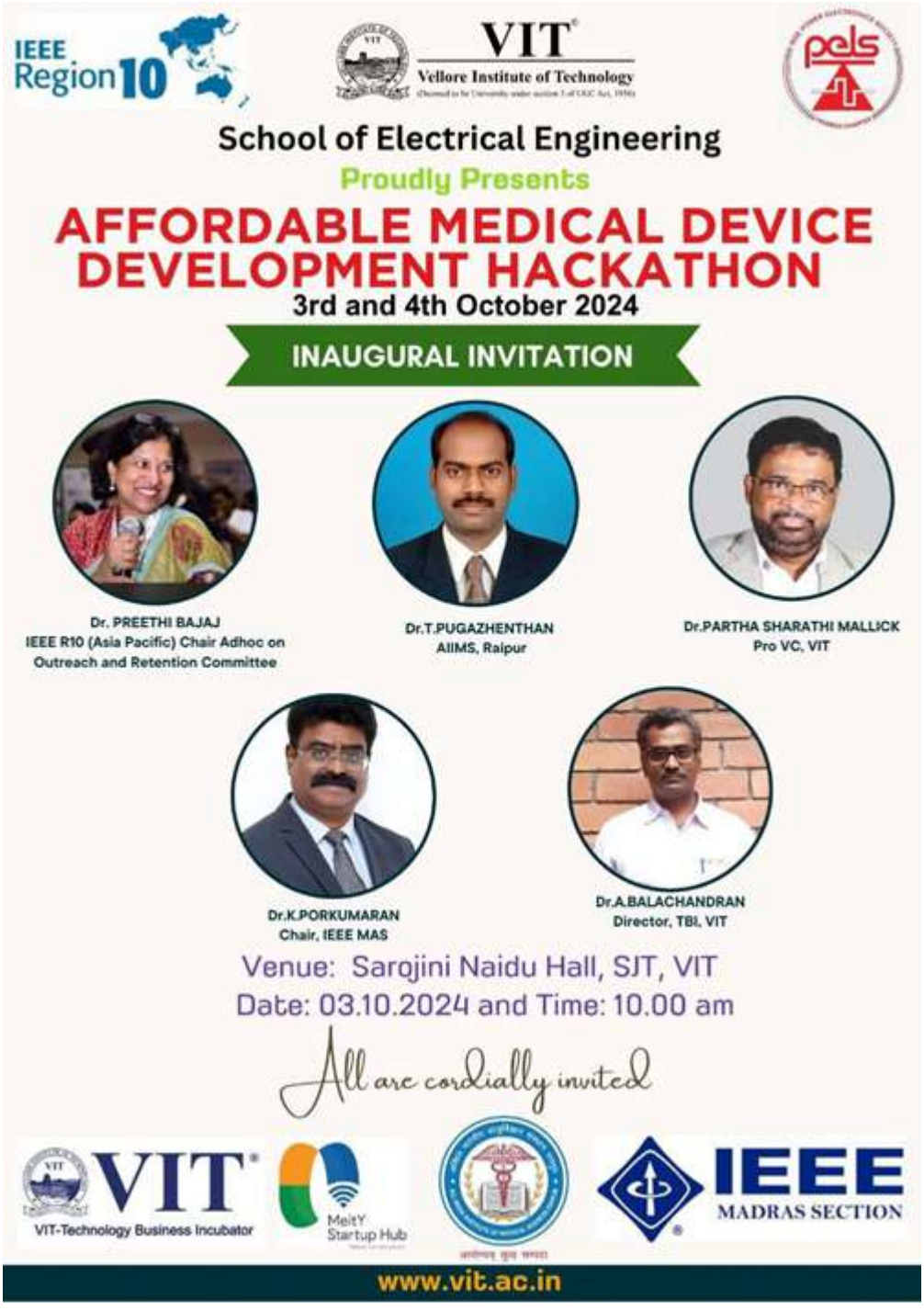
2nd October | 7PM to 7:30 PM | Webex
SPECIAL ADDRESS
Dr. Prerna Gaur
Chair Elect,IEEE India Council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Dr.PARTHA SHARATHI MALLICK
Pro VC, VIT
Dr.K.PORKUMARAN
Chair, IEEE MAS
Dr.A.BALACHANDRAN
Director, TBI, VIT
Venue: Sarojini Naidu Hall, SJT, VIT
Date: 03.10.2024 and Time: 10.00 am
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Pune Section

Eu-Reka

Eu-Reka is a flagship event of IEEE Education Society, Pune Section with the prime objective to "Elevate the Educational Reka"(line) at all levels of society. It is an initiative to ensure inclusive and equitable quality education and to promote lifelong learning opportunities. Eu-Reka empowers and encourages College students to promote education as Ambassador of Education.

Eureka aims to meet the educational needs of Inclusivity through encouraging and empowering rural children to pursue higher education by developing interest and curiosity; and Equity through addressing the issue of the high drop-out rate of high school girls students by boosting their confidence and aspirations.

Key Details:

Registration Deadline: 30 September 2024

Event Format: Online and Physical Presentations (Finalists)

Eligibility: Open to all Students & Professionals all over India with at least one IEEE Member & one Girl Member present in each group.

Team Size:1-4 Members

Important Dates:

Registration Opens: https://eu-reka.in/registration

Submission Deadline: 30th September 2024.

Finals: Will be announced soon

To participate in Eu-Reka 2024, register via the following link: For more information and event updates, visit our official website : https://eu-reka.in India Council : https://ieeeindiacouncil.org

Vizag Section

India Council

IEEE SSH 2024

A Request

On behalf of Organizing committee of IEEE SSH 2024, I request IC Execom members to attend Inauguration of 24 hours' challenge phase 2 in person at **KIET Ghaziabad Delhi NCR**. Happy to share that we declared 68 top entries out of 210 teams (630 participants) including waiting list and exactly 50 teams have confirmed us. But we have many on waiting from 210 teams. For phase 2, we are allowing their own tools and laptops and no platform from our side So as to see real creativity

1. It's scheduled on **21-22nd Oct24**. Prof Debabrata Das has confirmed to be Chief guest and Prof Prerna Gaur shall be there as Guest of honor in the special e-presence Deepak Sir.
2. Pl let us know your arrival and departure accordingly we shall do logistic arrangements.
3. The cards and invitations are getting ready but till then please prepare and plan your itinerary
4. Please suggest young industry members from NCR region to be jury members if you know some of the IEEE members

I request execom to attend on 21st Oct and motivate the students

Tentative plan 21st Oct

9 -10 am inauguration
Hackathon starts
Mentoring sessions
Jury rounds 1 and 2

22nd Oct

Jury round 3
3 PM valedictory
Thank you. Look forward for your presence

Warm regards

Prof. (Dr) Preeti Bajaj

IEEE Region 10 AdHoc Committee on Entrepreneurship and Innovation
IEEE Kerala Section Startup & Career Guidance Committee
IEEE Entrepreneurship
IEEE TEMS Technology & Engineering Management Society
IEEE
ONLINE WORKSHOP SERIES
Enabling Academicians and Returning Mothers as Potential Entrepreneurs
Formulating the Business Idea
Mr. Chintan Oza
Founder, Anantam Eco Systems
12 OCT
04:00PM (IST)
08:30PM (AEST)
Understanding the Current Market
Dr. Bernard Lim
Vice-President, Director and Co-Founder of Appscard Group
12 OCT
05:30PM (IST)
10:00PM (AEST)
Product Development Lifecycle
Dr. K R Suresh Nair
Founder and Managing Director, Amara Raja Design Alpha
16 OCT
04:00PM (IST)
08:30PM (AEST)
Understanding Investor's Perspective
Mr. Chintan Oza
Founder, Anantam Eco Systems
19 OCT
04:00PM (IST)
08:30PM (AEST)
Translational Research
Dr. Lakshmi Jagannathan
CEO, IIITB Innovation Center. Executive Vice President, COMET Foundation
21 OCT
04:00PM (IST)
08:30PM (AEST)
Entrepreneurship after a break
Dr. Mahtab Mirmomeni
Founder and CEO, ExerWatch
22 OCT
04:00PM (IST)
08:30PM (AEST)
Final Pitching Competition for Academicians
02 NOV
Final Pitching Competition for Returning Mothers
09 NOV
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IEEE R10 Asia Pacific international event

IEEE R10 Professional Activities Committee, IEEE Malaysia Section and UTP Malaysia IEEE
2024 IEEE Panel Discussion on the theme:
"Sustainability in Academia: Strategies for Long-Term Success"
to explore innovative strategies and best practices for promoting sustainability within academic institutions and universities
Title: *Sustainability in Academia: Strategies for Long-Term Success*
Date: 4th October, Friday Time: 12.20 PM to 2 PM IST
Opening Session - Panel Speakers:
1. Prof. Dato' Ir. Ts. Dr. Mohamed Ibrahim Abdul Mutalib – Vice Chancellor, Universiti Teknologi PETRONAS, Malaysia
2. Prof. Dr. V.S. Kanchana Bhaaskaran – Vice Chancellor, Vellore Institute of Technology
3. Prof. Dr. K. Porkumaran – Chairman, IEEE Madras Section, Principal, Sri Krishna College of Engineering and Technology, India
4. Prof. Dr. I Ketut Eddy Purnama – Dean, Faculty of Engineering, Institut Teknologi Sepuluh Nopember, Indonesia
5. Prof. Dr. Sivaneasan Bala Krishnan – Deputy Director, Teaching and Learning Academy, Singapore Institute of Technology, Singapore
Moderator:
Ts. Dr. Ramani Kannan – 2024 IEEE R10 Professional Activities Committee Member, Universiti Teknologi PETRONAS, Malaysia

Global News

Entrepreneurship Webinar Series

The IEEE Photonics Industry Engagement Committee is dedicated to helping its members turn ideas into successful businesses and industrial ventures. Through this webinar series visionaries in the frontier of the tech startup world seek to inspire early stage entrepreneurs.
Date: Wednesday, October 9, 2024
Time: 11:00-12:30 ET
Location: WebEx Platform

6th ICECIE'2024

Call for Papers!

2024 6th International Conference on Electrical, Control and Instrumentation Engineering

23th November 2024, Court Yard Hotel, Pattaya, Thailand

Join Us!

YP Award

IEEE youngprofessionals Region 10

IEEE

IEEE Region 10 Young Professionals

Outstanding Section Affinity Group Award 2024

IEEE youngprofessionals Madras Section

IEEE R10 ASIA PACIFIC INTERNATIONAL HACKATHON!

Announcement

The following student team made a significant mark in the prestigious IEEE R10 Asia Pacific 36-Hour International Affordable Medical Device Development Hackathon Sponsored by IEEE Region-10 (Asia Pacific) 2024 R10 AdHoc Committee on Outreach and Retention (ACOR) held at Vellore Institute of Technology, Vellore on 3rd and 4th October 2024. The team impressed with their innovative product, 'Smart Wearable for Supporting Substance Abuse Rehabilitation' and proudly secured **the Second Runner-Up** position, winning a cash prize of Rs. 10,000/-.

TEAM: MED_IMPACT

Sharmila L (Team Lead) - III EEE B

Sriram Arasu T - III EEE B

Jebeen Dhas A - III MECH A

Dhanush M - III CSBS

Faculty Mentor:

Dr. S. Sivaranjani, Professor/EEE

Chief Mentor:

Dr. K. Porkumaran, *Principal, SKCET, Chairman, IEEE Madras Section*

Receiving the IEEE 2024 Outstanding LMAG Award by the Recipients

IEEE WiE Shri Pralhad P Chhabria Awards 2024

Award Categories:

1) Best Graduate Student:

Winner and Runner-Up awards for exceptional undergraduate female Science, Technology, or Engineering students. These awards honor academic excellence, contributions to the institute, and community involvement.

2) Best Woman Professional - Early Career Stage:

Winner and Runner-Up awards for young women who have significantly contributed to the nation's technological, economic, and social development.

Details of the awards are available on the website: www.hfrc-ieeeawards.org.

There two awards -Winner and two Runner-Up under each category.

Each winner will receive a prize of INR 1,25,000/- (Rupees One Lakh Twenty-Five Thousand Only), a medal, and a citation.

Each runner-up will receive a prize of INR 50,000/- (rupees fifty thousand only), a medal, and a citation.

Award Nominee Requirements:

- Current IEEE member or must have held IEEE membership for at least one continuous year within the previous two years from the year of application.

- If the applicant's IEEE membership has lapsed at the time of application, they may still apply based on

prior membership. However, if shortlisted as a finalist, the nominee will be required to renew their membership.

- While an IEEE Women in Engineering membership is desirable, it is not mandatory.

- The applicant must have been a resident of India for at least the last two years.

IMPORTANT DATES -

Application Closes: **20 November 2024 (Wednesday)**

Shortlisting of Candidates: 10 December 2024 (Tuesday)

Presentation by Finalists (Graduates) in online mode: 14 December 2024 (Saturday)

Presentation by Finalists (Professionals) in online mode:15 December 2024 (Sunday)

Announcement of Winners: 20 December 2024 (Friday)- During IEEE India Council Awards ceremony

Award Ceremony: 12 March 2025 (Wednesday) - at Pune, Maharashtra, India

APPLY HERE:: https://www.hfrc-ieeeawards.org/application-nomination-form/

IEEE INDIA COUNCIL

HOPE FOUNDATION AND RESEARCH CENTRE
Est. 1979
www.hfrcpune.org

IEEE Women in Engineering We IEEE Pune Section

IEEE Pune Section

Shri Pralhad P Chhabria Awards 2024

Presented by

Hope Foundation and Research Centre (Hope Foundation)

In Association With

IEEE India Council

and WiE Affinity Group, IEEE Pune Section

About the Awards

The Shri Pralhad P. Chhabria Awards presented by Hope Foundation and Research Centre in association with IEEE India Council and WiE Affinity Group, IEEE Pune Section has been instituted to honour academic and professional achievements of young women scientists, engineers and technocrats. The award is intended to encourage, support and help the "women in engineering community" to grow and achieve success.

Award Category

- Best Graduate Student
- Best Woman Professional (Early Career)

Winners of the 2023 Awards

Winners of the 2021 Awards

Winners of the 2022 Awards

Winners of the 2020 Awards

Winners of the 2019 Awards

Winners of the 2018 Awards

Application Process

I. Important Dates

a. Application Opens - 02 September 2024 (Monday)
b. Application Closes - 20 November 2024 (Wednesday)
c. Winner Announcement - 20 December 2024 (Friday)

II. How to apply

To apply and know more about the details:

a. Please visit: **www.hfrc-ieeeawards.org**
b. Scan this QR code ---------- →

Call for applications/ nominations for IEEE India Council Awards – 2024

IEEE IC honors achievements of IEEE Members through Lifetime Achievement Awards, Technology Awards, Volunteer Awards, and Student Branch Awards. The following specific awards are constituted to recognize the individual or collective efforts of the membership in promoting the Mission and Vision of IEEE as reflected in the operation of the India Council and its entities.

A. Life Time Achievement Awards

1. IEEE IC- Life Time Achievement (LTA) for Council Chairs:
2. IEEE IC- LTA for Sub-Section/ Section Chairs:

B. Technology Awards

1. Technologist of the Year:
2. Woman Technologist of the Year:
3. Technology Start-up Award:

C. Volunteer Awards

1. Outstanding Volunteer Awards
2. Outstanding Student Volunteer Awards
3. Outstanding WiE Student Volunteer Awards
4. Outstanding WiE Professional Volunteer Awards
5. Outstanding YP Volunteer Awards

D. Outstanding Student Branch Awards

1. Outstanding Student Branch Award
2. Outstanding Emerging Student Branch Award

Application Process Applications have to be submitted online at the Awards Management Portal of IEEE India Council: www.ieeeicawards.com

An applicant or nominee should select the most appropriate award. An IEEE Member will be considered for only one award in above categories. Details for awardees of previous years can be seen at https://site.ieee.org/indiacouncil/student-activities/awards/

IEEE IC-PGCIL Awards

The IEEE India Council-PGCIL Awards

Nominations can be submitted through Google Form, even if it has already been submitted.

The Google Form Link to submit the Nomination is:

https://docs.google.com/forms/d/e/1FAIpQLSeK4RwT4O1wM9tEhudxDhHDjYu8Gr4zHQC7mY_S6G4cAswslw/viewform?usp=sf_link

The Award and guidelines:

Purpose of the Award: To recognize outstanding individual contributions to the Indian Power Sector, IEEE India Council (https://site.ieee.org/indiacouncil/ [1]) and POWERGRID (www.powergrid.in [2]) have jointly instituted coveted National Awards titled "POWERGRID and IEEE India Council (IC) Awards for Excellence" in the following two categories:

- Category-1: General category: For engineers (Indian citizens only) who are professionally active (with no age limit).
- Category-2: Young Engineer Category: For engineers (Indian citizens only) up to 35 years of age (as of 1st December 2024)

Each award should carry a cash prize of Rupees 75,000.00 plus a plaque/citation and travel expenses (Total Rs.1,00,000/-)

Membership Count – Update

(October 2024)

Row Labels	Count of IEEE Status
Bangalore Section	16631
Bombay Section	4223
Delhi Section	6711
Gujarat Section	1940
Hyderabad Section	8370
Kerala Section	13288
Kharagpur Section	467
Kolkata Section	4583
Madhya Pradesh Section	1437
Madras Section	19130
Pune Section	1745
Uttar Pradesh Section	4596
Vizag Bay Section	2103
Grand Total	**85224**

IEEE Kerala Section

Call for Award Nominations (Deadline 10th November 2024)

AMARNATH RAJA HUMANITARIAN TECHNOLOGY AWARD 2024

IEEE Kerala Section Jointly with **InApp** has instituted the **AMARNATH RAJA HUMANITARIAN TECHNOLOGY AWARD** in memory of the Late Sri Amarnath Raja, who was the Past Chair of the IEEE Kerala Section and Founder of IEEE Special Interest Group on Humanitarian Technology (IEEE SIGHT). He was the Chairman and Co-founder of InApp.

About the Award

This award is to **recognize an individual or team of Engineers/Scientists** who have contributed in the areas of Humanitarian Engineering which has resulted in significant improvements in the life of the underprivileged in society.

Nominations are invited from professionally active, IEEE member of any grade including Student Member, and working in Indian organizations in academia, research institutes, industries and developers of software/analytics. Nominators can be either through IEEE Senior Members or Heads of Departments/ Divisions in Organizations. Self-nominations are not allowed.

Areas of contribution

1. Architected and engineered any system that was successfully installed and brought significant upliftment to society. The output should be in a measurable form.

2. The areas can be but are not restricted to electrification, healthcare, clean water, better communication facilities, software platforms, assistive technologies, etc.

The award carries a cash prize of Rupees 75,000.00 with a plaque/citation and travel allowance to receive the award up to Rupees 25,000.00

The deadline to submit nominations is 10th November 2024. Online nomination form https://forms.gle/8Xnv5zp1jGKFKK3F7 to be completed in all aspects before the deadline.

Details of award are available at - https://ieeekerala.org/amarnath-raja-award/

The Award will be distributed at the Awards Ceremony scheduled on 14/12/2024 at 10 AM at The Renai Cochin, Palarivattom.

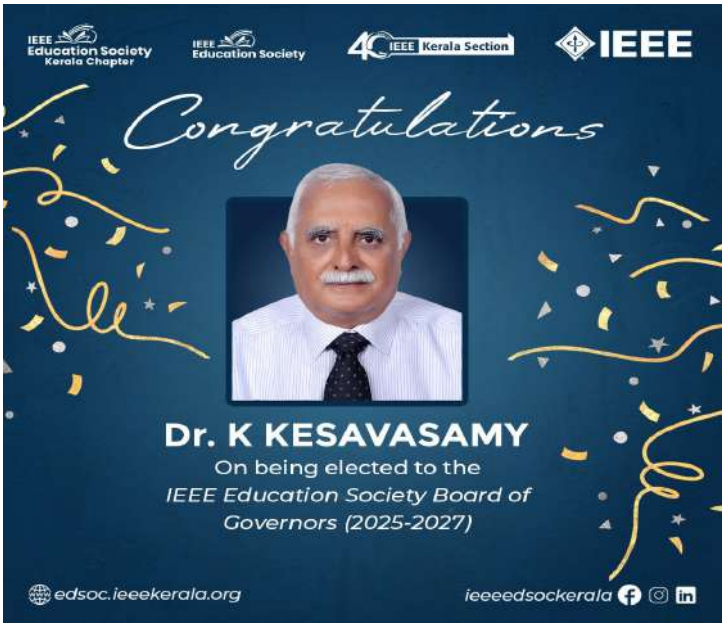
You are requested to recognize the efforts of outstanding Humanitarian volunteers or Humanitarian projects by nominating them for this prestigious **AMARNATH RAJA HUMANITARIAN TECHNOLOGY AWARD.**

For any further clarifications, mailto: miniuieee@gmail.com

Dr. Mini Ulanat,
Coordinator, Amarnath Raja Humanitarian Technology Award 2024
Awards Committee (2024), IEEE Kerala Sectio

Stop Press

Latest Election Results



Dr. Surekha Deshmukh, Chair IEEE Pune Chair

Learn About IEEE Membership

When you join IEEE, you:

- Join a community of more than 460,000 technology and engineering professionals united by a common desire to continuously learn, interact, collaborate, and innovate
- Access the resources and opportunities you need to keep on top of changes in technology
- Network with other professionals in your local area or within a specific technical interest
- Mentor the next generation of engineers and technologists

There's no better time to take advantage of what IEEE has to offer. Join now and gain immediate access to all the valuable benefits and features of IEEE membership.

JOIN IEEE

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Editor: **Prof (Dr.) K. Gopalan Nair;** Associate Editor: **Er. Biju G.R**