IEEE BANGALORE SECTION

A.1 Executive Summary

- **Section Executive Committee Member List**
  2023 Chair: Dr. Aloknath De, Ex-CTO & CVP, Samsung R&D India
  2023 Chair-Elect: Dr. T Srinivas, IISc

  Execom Members
  Ms. Divya M G, C-DAC
  Dr. Naveen Kumar, Amrita SoE
  Dr. Prasant Misra, TCS Research
  Mr. Chengappa M.R., Hewlett Packard Enterprise
  Dr. Abhishek M. Appaji, BMSCE
  Mr. Raghvendra Prasad S.G., RVCE
  Ms. Anandi Giridharan, IISc
  Dr. Ramakrishnan Raman, Honeywell
  Dr. Shobha K R, RIT
  Dr. Jalja S., BIT
  Ms. Supriya Das, Metaz Digital
  Dr. Ashutosh Kedar, LRDE
  Dr. Parameshacahri B D, NMIT
  Mr. Subrahmanya Gupta Boda, Brigade Group
  Mr. Ketan Keshav, Gupshup

  Two Immediate Past Chairs:
  Dr. Deepa Shenoy, UVCE, 2022 Chair
  Mr. BS Bindhumadhava, C-DAC, 2021 Chair

- **Section Highlights**
  The Bangalore section is one of the dynamic and most vibrant sections not only in India but at the global level. Our volunteers show professionalism in the activities and tasks they perform. Volunteers of the section have been engaging and volunteering at regional and global levels. With overall membership of above 15000; the section remains in the second positions globally. Leveraging the benefits of the industrial hub, a very good representation of industry is visible. At the same time, student representations and professionals from academia are equally balanced. While the global trend of membership has been almost steady, the section has seen around 8-10% growth; as per the adopted Bylaws, election was conducted for Chair-Elect position, and Prof. T Srinivas was elected as the Chair-Elect 2023. The year 2023 started with AGM where the slate nomination committee selected 15 volunteers with Dr. Aloknath De as the chair, who brings a wealth of expertise and extensive experience in volunteering and administration, enriching the leadership role with a deep understanding of collaborative efforts and effective management within the domain.. He thanked the past team and slate committee and highlighted his task for the year defining the "ten-levers" as having equal responsibility and that every individual has something to contribute. He set many goals for the year and gave a brief of them in the very first in-person ExCom meeting on Jan 21, 2023 at IEEE India Office. The team aligned with his vision and assured him of full support for mission 2023 around the ten-levers. Some of the key achievements during the year are: Maintaining and scaling the membership growth rate; some of the initiatives started this year were - Student Section Summit supported by IEEE R10, IEEE Catalyst - Program for mid-managers, CodXPress: Smart Solution with Data Intelligent - Section Level Hackathon, API Literacy Program in association with IEEE Mangalore Section, Principal's Forum, SAC Leadership Meet; 28 scholarships were given to the deserving student members of various student branches across IEEE Bangalore Section. There were also new 21 Student Branches started and joined IEEE Bangalore Section. As always it has been a trend, section volunteers are moving to a global level and the section has performed extremely well under the able leadership of De. Aloknath De, as Chair. His team has given full support to bring the section to this level along with all the members and IEEE office staff in Bangalore, who have extended full support to the team. Dr. De was recognized by IEEE MGA bestowing "2023 MGA INNOVATION

AWARD" - for exemplary leadership and outstanding contribution in leveraging Bangalore's power of industry and aligning initiatives of Section, Society Chapters and SAC, towards benefits for members in all lifecycle stages". The ExCom would like to thank all the members (professionals and students) and their families who have given full support to do our best. We would also like to thank the IEEE India office staff for their cooperation and support. We extend our gratitude to all staff and associates, auditors who are helping the Bangalore section directly or indirectly.

- Major Events (International, National)

IEEE CONECCT 2023, hosted by the Bangalore Section, emerged as a pivotal platform for cross-disciplinary interactions, featuring a dynamic lineup of tutorials, speakers, talks, and a robust organizing team. CONECCT 2023 served as a catalyst for cross-pollination of ideas, fostering collaborations, and unveiling groundbreaking innovations in CPS. The inaugural Plenary Session was delivered by Prof. Saifur Rahman, the IEEE President, delivered a captivating plenary talk on "Smart Grid as Intelligent CPS: Its Impact on Climate Change Mitigation." Rahman's insightful discourse emphasized the pivotal role of smart grids in mitigating climate change, showcasing the intersection of CPS and sustainable solutions. The amalgamation of theoretical research, practical applications, and industry insights propelled the dialogue on future CPS advancements and their societal impact. Beyond its role as a platform for cutting-edge research, CONECCT 2023 cultivated a vibrant community dedicated to pushing the boundaries of CPS. The conference reinforced the notion that CPS stands at the forefront of technological innovation, with vast potential to revolutionize industries and shape a sustainable future. In conclusion, CONECCT 2023 not only facilitated the dissemination of knowledge but also strengthened the global network of CPS enthusiasts, leaving an enduring impact on the field.

Conference Statistics:
Organizing Units: 21 units within the Bangalore Section orchestrated the event.
Track Chairs: A dedicated team of 42 Track Chairs, representing various Chapters, played a crucial role.
Student Volunteers: 40 enthusiastic student volunteers contributed to the seamless execution of the conference.
Reviewers: An impressive panel of 277 reviewers ensured the high quality of submissions.
Submissions: The conference received 310 submissions, reflecting a strong interest in Cyber-Physical Systems (CPS).

IEEE CONECCT 2024 Highlights:
Tutorials: 2 Informative tutorials laid the foundation for understanding key CPS concepts.
Plenary Speakers: 6 distinguished speakers shared insights, enriching the discourse on CPS advancements.
Invited Talks: 11 experts delivered talks, covering a spectrum of theoretical, practical, and industry perspectives.
Industry Talks: 3 sessions provided valuable insights into the real-world applications of CPS.
Submissions vs. Selection: From 310 submissions, 97 outstanding papers were selected and presented, showcasing the rigorous evaluation process.

IEEE Bangalore Technology Conclave 2023
IEEE BTC 2023 is a flagship event of IEEE Bangalore Section. It is held annually as part of the Industry Relations program of the Section; where technology leaders, innovators, entrepreneurs, and thought provokers share their passion in addressing impactful problems, and vision on futuristic technologies that will/may disrupt/impact our way of working and living.
This edition of IEEE BTC was based on the theme of **Responsible AI: Robust Tech , Impactful Biz.** The sessions offered profound insights into AI's role in defense, healthcare, and patient experiences, fostering comprehensive discussions on responsible AI applications in diverse sectors during the IEEE Bangalore Technology Conclave 2023; https://btc-2023.ieeebangalore.org/

IEEE Bangalore Humanitarian Technology Conference IEEE BHTC 2023
Organized by IEEE Bangalore Section, in association with IEEE Mysore Subsection, and JSSAHER, JSS STU on March 24-25, 2023 at Sri Rajendra Centenary Auditorium, JSS Hospitals, Mysuru
IEEE B-HTC is a premier annual cross disciplinary conference that brings together technologists, engineers, scientists and investors as well as representatives from NGOs, government, academia, and the industry to address United Nation's Sustainable Development Goals. This year, conference aimed at promoting research and development on "Sustainable Development Goal 3: Good health and well-being"

to ensure healthy life and promote well-being at all ages. Along with IEEE Bangalore Section and IEEE Mysore Subsection, this conference was organized by JSS Academy of Higher Education and Research, JSS Science and Technology University, Mysuru.

CodXpress - IEEE Bangalore Section Hackathon

IEEE Bangalore Section organized the first edition of the Flagship Hackathon "CodXpress" on the theme of Smart Solution with Data Intelligence on 29th and 30th April 2023 across 5 colleges in Karnataka simultaneously in association with Mangalore, Mysore, and North Karnataka subsections. Amrita S E, and RVCE were the 2 hubs at Bangalore. PESITM Shivamogga was the hub for Mangalore Subsection, KLSGIT, Belagavi was the hub for North Karnataka Subsection, and Amrita V V, Mysore was the hub for Mysore Subsection. The main aim was to enhance students' problem-solving skills in various domains like data intelligence in Robotics, Smart Grid, Health Tech, etc., and engaging in hands-on learning while solving complex challenges related to data intelligence. CodXpress received more than 100 proposals from various institutes of Karnataka and a few submissions from other states. Around 20 problem statements were provided to the participants. They were also allowed to propose their own problem statements in line with the theme. The core team of CodXpress shortlisted among these and finally a total of 53 teams participated. Eminent and domain experts from academia and industry were assigned as mentors to each of the participating groups. The venues were allotted based on the preferences given by each team. Physical mentors were present during the 30Hrs event to guide the teams.

The IEEE R10 Plenary Session held on September 16th, 2023, marked a significant milestone in the region's technological landscape. Hosted virtually, this event witnessed the convergence of three vibrant student branches: UVCE Bangalore, BNMIT Bangalore, and SJCE Mysore. What made this session unique was its dual nature, as more than 350 enthusiastic students gathered offline, while over 50 students joined virtually.

The IEEE R10 Plenary Session 2023 underscored the organization's commitment to fostering excellence in engineering and technology education and provided a platform for students to connect, learn, and grow. It was a true celebration of knowledge, innovation, and the power of collective efforts.

The IEEE R10-Bangalore Section Student Summit
The event was co-presented by the IEEE Bangalore Section Student Activities Committee and the IEEE R10 Student Activities Committee, was a resounding success. It drew an impressive turnout of more than 350 enthusiastic in-person participants. The summit saw active participation from 37 student branch students, enhancing the sense of community and collaboration that defines the IEEE network. This gathering of aspiring engineers and technologists not only enriched the discussions and knowledge sharing but also strengthened the bonds within the IEEE family, highlighting the organization's commitment to fostering innovation and professional growth among its members. The summit served as a remarkable platform for learning, networking, and celebrating the spirit of technology and engineering. The IEEE R10-Bangalore Section Student summit proved to be a transformative event, where attendees were immersed in a world of learning, innovation, and inspiration. From exploring emerging technologies to nurturing leadership skills, the summit offered a diverse array of sessions that catered to a wide range of interests and professional growth opportunities.

The Principals Forum 2023
IEEE Bangalore section in association with the IEEE Education Society Banglore Chapter "PRINCIPAL FORUM FOR NEP-2020" The Role of Professional Network in NEP-2020 Implementation. This event provided a common platform to all the stakeholders in Education- the regulators, managements, principals and deans to deliberate on diverse perspectives of the New National Education Policy-2020, and how IEEE can play an role in transforming higher education and to discuss the practical challenges that may be encountered during the implementation of NEP 2020. The event was held at CHRIST (Deemed to be University) Kengeri Campus, Bengaluru on 4 FEBRUARY, SATURDAY from 9:30 AM - 2:30 PM.

The session consists of a two-panel discussion
Panel-1: How do we recognize IEEE Student Branch Activities through NEP-2020 Adoption in Academic Institutes?
Panel-2: How can IEEE Activities be oriented for a Deeper Implementation of NEP-2020?

The panel featured distinguished figures from various educational institutions, engaging in a discourse centered on the symbiotic relationship between IEEE student branch activities and the adoption of NEP 2020 within academic institutes. The discussion was multifaceted, exploring the impact of professional memberships on faculty members' teaching-learning activities, the role of IEEE participation in enhancing the quality of student projects, and the indispensable nature of industry interaction in augmenting technical education.

- Major Chapter Activities

AP - MTT Bangalore Joint Chapter

IEEE AP/MTT Bangalore Section Joint Chapter, recipient of the 2023 Outstanding Chapter Award 1st place from IEEE AP-S HeadQuarters and MTT-S HeadQuarters and it is one of the most vibrant chapters within Bangalore Section and across India. The Initiatives undertaken in the year 2023 by the chapter were:

1. Initiatives were taken to increase the membership by arranging various technical events to motivate the students. The advantages of becoming an IEEE AP-S member was conveyed at different platforms. All the events were free to IEEE AP-S students, whereas non-members were charged for the events.
2. Faculty conclave conducted by the chapter had motivated the faculty of various colleges to open new student society chapters across Karnataka.

The outcome of the above initiatives were lead to
  a. Increase of membership by 348%.
  b. 6 new society chapters are opened across Karnataka.

Current member strength of the chapter is 310. The Chapter embarked upon a meticulously planned journey of providing significant value addition to its members through specialized professional development programs; opportunities and exposures; unique recognitions and felicitations. The chapter not only organized various technical and administrative meetings, but also has contributed towards 2 most satisfying initiatives : 1. Establishment of Computer Lab and Projection System by donating 10 PCs and a Projector System to a Primary School, 2. Contributing INR 2.0L towards Cataract Operation to an Old Age Home to bring back the Light in the eyes of Old Age people living without their children. Hope these contributions will bring smiles to children and Old Age parents and help them to succeed in the future.

IEEE ComSoc Bangalore Chapter

IEEE ComSoc is a leading global community of a diverse group of industry professionals with a common interest in advancing all communications technologies. To that end, the Society sponsors publications, conferences, educational programs, local activities, and technical committees. ComSoc Bangalore chapter is one of the dynamic and most vibrant chapters in India and R10 region. The society conducts very high valued current technology workshops and highly demanded workshops, technology talk, and seminars.

This year we conducted more than 30 events. As a result of these endeavors, the chapter has recorded an astounding (membership) growth of 71.6% compared to the previous year. The current membership count stands at 1059, of which 769 are student members. The Bangalore IEEE ComSoc chapter organized the following specific activities in 2023 -

The "Protsahan" drive was conducted to recognize contributions in the Communication domain by granting awards to any published paper/Tutorial offered in recognized conference/journals in April 2023, by IEEE student member/member/non-member (as the first author to be IEEE member, non-Member in the jurisdiction of IEEE Bangalore Section). We intend to select the Top 5 in each of the following four categories

- Cat-I: IEEE member + ComSoC member: book(s) in communication area: 5 members awarded.
- Cat-II: IEEE member, ComSoC non-member: one-year ComSoC membership: 4 members awarded.
- Cat-III: IEEE Non-member: one-year ComSoC membership; if they take IEEE membership: 5 members awarded.
- Cat-IV: IEEE student members: one-year ComSoC membership + a book/gift: 1 member awarded.

We successfully started 5 new ComSoc Student Branches at various universities/institutes, increasing our SB count from 15 to 20. The newly created SBs in 2032 were provided to enhance the quality of technical events at the student level, thereby increasing the value added to the student community.

We successfully conducted the 5th series of Graduate Congress: GraTE-7 2032. Nine independent experts and panel members (4 in the first phase and 5 in the last stage) in two different phases contributed towards its successful completion. We were able to encourage a few of the participants to take IEEE membership as part of the event registration process. Of the registered participants, 3 PhD category and 2 Master category. were awarded, with a prize of 60000 INR (20000 INR each) for Ph.D. and 30000 INR for MTech awardees. The general feedback from the participants has been excellent. "It's a different experience presenting an entire thesis in SEVEN minutes, something too difficult but could make it. We might have done a lot of work, but it is a unique experience," most commented.

Additionally, the 5th IEEE Ph.D. EDITS has been completed successfully, and the presented papers are accepted for possible publication in IEEE Xplore. We received 30+ papers, and finally, 13 papers were shortlisted for presentation after peer review. Out of the shortlisted 13, 5 were IEEE members and 8 non-IEEE members. We received excellent feedback from all the participants. Non-IEEE members showed interest in taking IEEE membership.

The Chapter also provided technical leadership in architecting a specific Track focussed on Communications at IEEE CONECCT-2023 Conference, which it co-sponsored with IEEE Bangalore Section. This track, titled "MachineType Communications over Wireless (B5G/6G)" focused on various aspects of Wireless Communication with significant contributions to advancing wireless communications, specifically in the context of machine-type communications.

We also started a new Student Internship program titled IGNITE, where Academia and Industry collaborated to frame problem statements for the Student participants. Groups of students were made to work on different problems. The participating students found the learning experience helpful. Most of the student groups successfully completed this program and were awarded Certificates.
We also conducted several events in collaboration with the industry, like the Samsung Open-Source event and Nokia workshop. Samsung Open Source Conference (SOSCON) with IEEE ComSoC. The Nokia event was aptly titled "Accelerating Digital Bharat towards 6G". We have also organized 1 Distinguished lecture on "Towards the Internet of Senses: Integrating Human Mind, Body and 6G" by Dr. Sudhir Dixit, Senior Fellow and Evangelist of Basic Internet at the Basic Internet Foundation in Norway and heads its San Francisco office. In addition, we also conducted several workshops like IEEE Bharat 6G Summit, Research methodology etc. and talks on Digital Technologies for Road Safety[with IEEE Bangalore Section and Institute of Engineers, Karnataka Section], Wireless Knowledge Summit in partnership with Nanocell Networks, "Dawn to DevOps - New Era for Networking and Automation, Towards 6G System Architecture: Learnings from IEEE 1930.1 and IEEE P2061,"What to expect in 6G? How can India take the lead?", 5G RAN and Evolution towards Ubiquitous Networks etc.
We also awarded ComSoc Execom members for their significant contribution to the chapter

IEEE CAS Bangalore Chapter
Akin to the delicate sprout that grows into towering trees, a small meeting of nominated CASS Executive Committee members along with Chair and Chair elect, prior to AGM was convened to present the plan of events for the year ahead on 8th Jan 2023. The plan was presented by Chair elect Mr. Ayan Datta, in which he conveyed that the activities of the CASS Bangalore Chapter will be classified into
- Membership growth related.
- Technical talks – Offline and online
- Senior membership drive
- Industry Forum on topics of Research interest and growth
- Bridging the skill gap between academics and Industry related to VLSI and System Design
- Internship Drives through mentors from Industry
- Propelling the activities across the different technical institutes of the state
It was a small beginning and that led to a year of spectacular growth and achievements through different activities involving Industry Specialists from India and abroad, academicians and students from Technical Institutes.
Annual General body meeting was convened on Sunday, 22nd January 2023 at BIT, Bangalore. The new Chair Mr. Ayan Datta, Technologist at Western Digital, Bangalore, was given the charge by outgoing Chair Dr. Jalaja, Professor Department of ECE, BIT. New Executive committee along with Chair elect and other office bearers were introduced to the members of CASS Bangalore Chapter. It was a team of 22 Execom members along with 2 past Chairs. The presence of IEEE Bangalore Section Chair Dr. Aloknath De and Secretary, Dr. Chandrakanta Kumar, Vice Chair. The meeting discussed the focus areas and different activities planned with Different subcommittees.

The different sub committees are -
- Regional Activities Committees – Region wise
- Regional Activity Committee - Industry forum
- Member Activity Committee
- Technical Committees
- Women in CAS related committee

IEEE Computer Society Bangalore Chapter

IEEE Computer Society Bangalore Chapter, recipient of the 2019 Outstanding Chapter Award from IEEE Computer Society HQ and the 2018/2021 Outstanding Large Chapter Award from IEEE Bangalore Section, is one of the most vibrant chapters within Bangalore Section and across India. The 2023 goals of the chapter were two-fold: (i) strengthen the core with a strong inclusion & diversity model (by building a strong leadership and volunteer pipeline for the chapter's sustenance; developing a working model that is both financially and operationally sustainable; growing the chapter by on-boarding members, with a target to reach to the larger geography within the state of Karnataka); and (ii) provide all-round opportunities for professional development to chapter members. As a result of these endeavors, the chapter has recorded an astounding (membership) growth of 43% compared to the previous year.

The current membership count (as of the first week of Dec'23) stands at 2487, of which 2017 are student members.

The Chapter embarked upon a meticulously planned journey of providing significant value addition to its members through specialized professional development programs; opportunities and exposures; unique recognitions and felicitations. While the total activities count (technical, non-technical, administrative) is close to 100 events, the following are some of the key highlights of this year.
- **Conferences:**
- The 1st International Conference on Contemporary Computing and Communication (InC4' 23) | https://ic4.co.in/
- The 4th International Conference on Public Key Infrastructure and Applications (PKI' 23), a joint conference between IEEE CS and IEEE IAS Bangalore Chapters! | https://pkiindia.in/pkia/
- The 2nd International Conference on Data, Decision and Systems (ICDDS' 23), the flagship conference of IEEE CS Bangalore chapter |http://icdds.org/
- Track on Advances in Data Scale, Reliability, Security and Privacy Challenges in CPS in IEEE CONECCT' 23 (the flagship research conference of IEEE Bangalore Section)
- **Student Internship & Mentorship Program (IMPro)**
  - Aimed at bridging the gap between talents and skills in Computer Science Domain.
- **WINGS Peer Learning Program**
- **STEM Program (for School and Pre-University Students)**
- **Young Women and Women in Computing Program**
- **GirlGeek Workshops & Hack-a-thons across Karnataka**
- **Special Technical Community (STC) Program**
  - Cyber Security STC and Cyber Security Week

Industry Connect Program
- DeepTech.AI Symposium | Theme: Trustworthiness in AI |https://cs.ieeebangalore.org/deep-tech-ai-2023/
- Systems.Software Symposium | Theme: Data First, What Next? https://cs.ieeebangalore.org/systems-software-conclave/

University Relations Program
- CS Connect
- Student Congress
- Distinguished Lectures

The various events that the society chapter / volunteers have conducted during this year have been entered in IEEE vTools.

With an aim to create a shared, connected ecosystem of computer science students and professionals in Karnataka, the Chapter organized the 2nd edition of the IEEE Bangalore Computer Science Week. As part of this program, four mega events have been co-located for the benefit of IEEE CS members: (i)

DeepTech.AI symposium; (ii) Systems.Software symposium; (iii) ICDDS conference; (iv) student congress.

The chapter forged new relationships with many academic institutions with the opening of 10 IEEE CS student branch chapters in 2023, and many more in the pipeline.

The chapter also constituted various awards to recognize individuals / teams who have made a significant contribution in the field of interest of IEEE Computer Society; either through volunteering; teaching; research; or technology innovation. They include: (i) Outstanding Student Volunteer of the Year 2023; (ii) Outstanding Student Branch Chapter of the year 2023; (iii) Outstanding Volunteer of the year 2023; (iv) Research Excellence Award 2023; (v) Teaching Excellence Award 2023; (vi) Technologist of the Year 2023; (vii) Chief of Disruption 2023.

IEEE ITS - Bangalore Chapter (CH10956)

IEEE Information Theory Society (ITS) is the premier professional society dedicated to the advancement of the mathematical underpinnings of information technology for the benefit of humanity. Information theory encompasses the processing, transmission, storage, and use of information, and the foundations of the communication process.

ITS Bangalore Chapter is a vibrant and dynamic chapter spearheading the objective and principles of ITS under the umbrella of IEEE Bangalore Section. The society has a wide presence in many engineering colleges and universities across Karnataka state. It conducts many hands-on technical workshops and programmes for the benefit of students, faculty members and professionals. It arranges regular technical webinars delivered by national and international reputed speakers and experts in the field. The scope of society includes:

- Conduct Student Workshops, Internships
- Help in conducting FDPs, SDPs
- Webinars on ITS Focused areas (but not limited to⋯)
- Mentor Students for their Projects, Research
- Fund Projects

IEEE POWER ELECTRONICS SOCIETY

The Bangalore IEEE PES Chapter is a chapter of the IEEE Power & Energy Society which covers Bangalore section (Karnataka State, India), Region 10 of IEEE. We have approximately 278 professional members and 1370 student members from various industries, Academic institutions, and startups with a common interest in power and energy. The Chapter has won numerous awards globally and holds various events throughout the year.

The Bangalore Chapter of the Power and Energy Society consists of roughly 1650 members including power engineering professionals, students, and associates within Karnataka. Our chapter provides high quality technical meetings and technical events to our members and non-members alike. IEEE PES Bangalore Chapter has its own flagship events for its members including, Branch Advisors meet, Industry Academic Conclave, AGM, Women in Power, Young Researchers Meet, student congress etc.

IEEE Education Society Bangalore Chapter

IEEE Education Society Bangalore Chapter is the recipient of 2021 Chapter Achievement Award. This year we conducted various activities for the benefit of faculty and students.

The first program was organized on 4th February - "PRINCIPAL's FORUM FOR NEP - 2020" to address "The Role of Professional Network in NEP-2020 Implementation" This programme was organized at Christ University Bangalore.

The session consisted of two-panel discussions:

Panel-1: How do we recognize IEEE Student Branch Activities through NEP-2020 Adoption in Academic Institutes?

Panel-2: How can IEEE Activities be oriented for a Deeper Implementation of NEP-2020?

The second programme was organized on 15th February: Virtual Distinguished Talk: Lithium-Ion Battery Fundamentals for EV by: Dr. Kartik Jamadar

Affiliation: Volkswagen AG, Germany

Role: Supply Chain Manager for Li-Ion batteries and Materials

Email: kartikjamadar@hotmail.com

Broad Area: E-Mobility, Li-Ion Battery, Battery Materials, Battery Roadmap

The third event was held on 2nd November Seminar & Workshop on "Scholarship of Teaching and Learning: What it is, Why and How to do it." By Dr. Nalin Sharda from Australia. This event was organized in MIT Bangalore Campus.

The forth event was a webinar on 11th November "Research Opportunities in Engineering Education" by Dr.Suresh Jangamshetti Vice Chancellor Haveri University.

IEEE Education Society Bangalore Chapter will be hosting IEEE Region-10 TALE-2024 conference from December 9th to 12th December at Manipal Institute of Technology Bangalore Campus.

IEEE Photonics Society Bangalore Chapter
With an aim to enhance photonics education, research and technology, IEEE Photonics Society Bangalore Chapter has taken up several programs and initiatives in 2023. The Chapter conducted the many webinars as a part of the distinguished webinar series in the month of the September, the chapter has initiated Photonics Students Internship and Mentoring program, where students do a one semester project under the mentorship of a photonics expert. Chapter has organized many Online Webinars in association with different engineering colleges and our chapter members have also delivered the talk in many webinars.

IEEE Bangalore Section Sensors Council Chapter
IEEE Sensors Council Bangalore Chapter is vibrant in organizing activities related to Sensors, Sensor Data Processing and allied areas. It is actively involved in the flagship events like conducting Track – H (Sensors, Actuators & Applications in the Cyber-Physical Systems) at IEEE CONECCT – 2023, CodeXpress -2023. The Sensors Council Chapter also conducted events like Industry Conclave, Student Congress, Hackathon etc. The newsletter "SensorsNews", first edition (Jan-June 2023) was released on 12 th August 2023. The Council also conducted a Technical Talk series to commemorate the 25 th Anniversary of the IEEE Sensors Council. In memory of Dr. K. Natarajan (past chair of IEEE Sensors Council), the KNMOS Award (Dr. K Natarajan Outstanding Samvedhaka Award) was instituted in 2023 for recognizing outstanding Ph.D. thesis in the Sensors domain.

IEEE Signal Processing Society Bangalore Chapter(SPS)
The IEEE's first society, Signal Processing Society, has been the world's premier professional society for signal processing scientists and professionals since 1948. Signal processing is the enabling technology for the generation, transformation, and interpretation of information. SPS serves its members through high quality publications, conferences, technical and educational activities, and leadership opportunities. Its goal is to keep members abreast of the latest information and to serve the public at large. Members have opportunities to be involved in boards and committees, and at the local level members are actively immersed in regional chapters, working on issues and projects that shape what's next in signal processing. IEEE Signal processing society Bangalore chapter has been actively working towards member growth and benefits. The chapter organized various events like SPS conclave, webinars, workshops, SPS K12 outreach program and dedicated tracks in Bangalore section flagship conferences. IEEE SPS Bangalore chapter Membership count phenomenally increased to 950 as compared to 857 in 2022 and 348 in 2021.

IEEE RAS Bangalore Chapter (RA24)
IEEE Robotics and Automation Society (RAS) started this year with one of the aims to support the events of existing IEEE RAS Student Branch Chapters (SBC) and to encourage educational institutes in Bangalore and Mysore to form new IEEE RAS SBCs. This would indirectly boost the society membership.

The **IEEE GRSS Bangalore Chapter** has had a dynamic and productive year in 2023, hosting a series of events and activities in the field of geoscience and remote sensing. The year began with the MIGARS 2023 conference, focusing on Machine Intelligence for GeoAnalytics & Remote Sensing. Subsequent events included the AGM Offline Event for reviewing 2022-chapter events.

The chapter also facilitated the creation of the National Institute of Engineering, Mysore GRSS Student Branch, and held a conference track at IEEE CONECCT 2023. The inauguration of the NIE Mysore GRSS Student Branch and a 5-day online summer school on "New Horizons in Remote Sensing: Basics and Beyond" were significant milestones in August 2023.

The chapter actively participated in slate nominations and ratified the same for the upcoming term from 2024. The year concluded with a distinguished lecture by Dr. Carlos Lopez-Martinez on SAR, SAR Polarimetry & Multitemporal SAR Statistical Description.

Noteworthy achievements include the declaration of the Bangalore GRSS Chapter as runners-up for 'Best Local YP activity - 2023' amongst GRSS global chapters and thereby earning direct qualification for the 2024 event. Additionally, the chapter is tasked with organizing the 3rd edition of IEEE InGARSS 2023, a hybrid event, for the first time happening in offline mode at the International Institute of Information Technology – Bangalore in December.

Looking ahead, the chapter is in the planning phase for an industry-led hackathon on learning for data analytics for geospatial applications. The diverse range of events and achievements in 2023 underscores the chapter's commitment to advancing knowledge and collaboration in geoscience and remote sensing.

IEEE CIS Bangalore chapter

Following activities are conducted to enhance the technical knowledge in the areas of computational intelligence, machine learning, artificial intelligence, soft computing for professionals, faculty and students of engineering courses by giving preference to IEEE members with some benefits to IEEE CIS members. These activities have motivated the professional, faculty and student community to become members and have in turn helped the growth of technical professionals in the areas of IEEE CIS.

Contents:
1.	Workshop on Recursive Thinking to Dynamic Programming:A roadmap for problem solving
2.	Mentorship and Outreach Program
3.	Hack-n-Lead - National Level Hackathon
4.	Technical Event- TEXPLORE
5.	workshop on design using Figma(DEZINE IT)
6.	workshop on HTML and CSS(COOK IT UP WITH CODE)
7.	Guest Lecture on Software Engineering
8.	Apache Workshop - "Open Source with Apache Software Foundation"
9.	Guest Lecture on 'Cognitive Computing Integrating Computational Intelligence'
10.	Guest Lecture on 'Neuromorphic Microchips'
11.	Workshop on Data Analysis and Kaggle
12.	 Innovation Camp
13.	Execomm meeting-1
14.	Execomm meeting-2

IEEE Electronics Packaging Society (EPS) Bangalore

This year we had mixed events with both virtual mode and in person mode events. A new execom was formed and handed over responsibilities. It was a year of collaboration where we, in association with other organizations, organized events. This gave us a chance to grow the network and make the importance of semiconductor packaging reach in different sections.

The first talk for the session was given by Prof Changzhi Li, Texas Tech University on 16th April 2023. It was organized in association with the MTT Students Chapter at IISc. This Lecture discussed possible ways of malicious attacks based on spoofing and jamming to radar sensors and the technologies that mitigate potential attacks to make smart radar sensors more secure and trustworthy.

On 2nd Feb, 2023, the chapter conducted its first execom meeting. The chapter execom changed this year and the meeting aimed at handing over responsibilities and explaining roles from the previous to the new members. The roles of chair passed from Nikita Ambasana to Anant Devi, Secretary from Yoginder Negi to Kavitha Nagaraj, Vice Chair from Juhi Garg to Shrikanth Itapu and Treasurer from Anant Devi to Vasanth. First time the chapter got representation from the university. The strategy for the upcoming events in 2023 was also discussed and a list of speakers was identified to be contacted.

Prof. Rohit Sharma from Penn State was roped in for the second technical talk on 5th July 2023. The talk was on "Thermal Design Strategies for Electronic Systems". The tech talk covered the prospects of Cu-graphene hybrid heterostructures for BEOL compatible high-performance interconnects and aim to understand the complexities involved in mainstreaming this potential technology and what lies ahead in terms of potential benefits of hybrid nanoscale interconnects.

Next talk was organized in association with MTT Student's Chapter, IISc on Simulation Methods to Improve the Electromagnetic Properties of Electric Vehicles. It was delivered by Prof. Jan Hansen of Graz University. Talk was aimed to discuss the optimization of the vehicle's electromagnetic properties. Dr. Jan mentioned that the current numerical solution poses several problems, ranging from long computation times over model accuracy, multi-objective optimization up to risk analysis. The presentation covered the state-of-the-art and future perspectives on simulation methods useful for the electromagnetic design of electric vehicles.

This was the second year of a joint workshop organized with India Electronics and Semiconductor Association (IESA) Bangalore - "International workshop on advanced electronics packaging" on 30th Nov and 1st Dec 2023. Several members of IEEE-EPS were involved in the workshop organization and execution. Anant and Kavitha had discussions with EPS esteemed members Ravi Mahajan and Sam Karikalan on growing EPS in India. EPS secretary Kavitha delivered a keynote on advantages of joining

IEEE EPS for professional growth during the workshop. More than 250 participants and 40 speakers joined the event.

- Major Student and Affinity Group Activities

Student Activities Committee (SAC)
BC MEET 1 - IEEE Bangalore Section
Date: 25th January 2023
Time: 7:00 PM IST
Mode: Online
The Student Activities Committee (SAC) of IEEE Bangalore Section organized BC MEET 1, on the 25th of January 2023. The event aimed to bring together Student Branch Chairs (SB Chairs) and Branch Counsellors (BCs) from all Student Branches under the Bangalore Section. This online gathering provided a platform for participants to share ideas, discuss student activities, and set goals for the upcoming quarter. The event commenced with a warm greeting extended to all SB Chairs and BCs within the Bangalore Section. Invitations were sent out, emphasizing the importance of participation in setting goals and planning student activities for the quarter. Registration for the event was streamlined through a dedicated link. The agenda for the meet was focused on collaborative discussions about student activities and the formulation of goals for the upcoming quarter. The meeting aimed to encourage active participation, idea pitching, and constructive dialogue and interactive discussions among SB Chairs and BCs. Participants had the opportunity to share their ideas, experiences, and best practices related to student activities. The open dialogue encouraged the exchange of insights and fostered a collaborative spirit. A significant portion of the meeting was dedicated to setting goals for the upcoming quarter. Attendees collaboratively identified key areas of focus, planned events, and outlined strategies to enhance the impact of IEEE activities within their respective Student Branches.
The virtual environment allowed for seamless networking opportunities. Attendees could connect with peers, share contact information, and explore potential collaborations. The networking aspect added a valuable dimension to the event, fostering a sense of community among IEEE leaders.
BC MEET 1 proved to be a dynamic and productive gathering, setting a positive tone for the quarter ahead. The active participation of SB Chairs and BCs demonstrated their commitment to the IEEE community and their enthusiasm for driving impactful student activities.

IEEE SAC LEADERSHIP MEET
The Institute of Electrical and Electronics Engineers (IEEE) Student Activities Committee (SAC) - Bangalore section held its annual leadership meeting online on April 21, 2023. The meeting was attended by leaders of IEEE SAC from the Bangalore section. The purpose of the meeting was to discuss the progress made in the previous year and to plan for the upcoming year.
The IEEE SAC leadership meeting provided an opportunity for leaders from all over the Bangalore section to discuss the progress made in the previous year and to plan for the upcoming year. The committee made significant progress in 2022 in terms of increasing membership and providing opportunities for leadership development. The plans for 2023 focus on increasing membership, expanding the mentoring program, developing partnerships with industry leaders, and launching a sustainability initiative. The committee strives to remains committed to its mission of promoting leadership development.

The BC MEET-2 , took place on the 19th of May 2023 from 7:00 PM to 8:00 PM in virtual mode. This event provided a unique platform for BCs to connect, collaborate, and engage in discussions on the latest developments and emerging trends within the IEEE community.
BC MEET-2 featured insightful panel discussions with IEEE experts. These discussions delved into various topics related to the IEEE community, providing BCs with valuable insights and perspectives. The engaging panels created a platform for the exchange of knowledge and experiences.
The event incorporated interactive Q&A sessions, allowing BCs to pose questions and seek clarification on relevant topics. This interactive format facilitated a dynamic and participative environment, enabling BCs to get answers to their burning questions.
The event provided BCs with valuable insights on the latest developments within the IEEE community. From updates on IEEE initiatives to information on community projects and programs, BC MEET-2 kept attendees informed about the evolving landscape of IEEE. The success of BC MEET-2 highlighted the importance of such gatherings in fostering a sense of community and shared learning within the IEEE

Bangalore Section. The event's enriching experience will likely contribute to the continued growth and collaboration within the IEEE community in the region.

- Awards
Mentioned under **B6. Awards & Recognition Activities**

A.2 Financial Report – (Please follow the format given below)

- Summary (as per submitted on NetSuite)

The Institute of Electrical and Electronics Engineers
IEEE- Bangalore Section

Balance Sheet as at 31st December, 2023

(Amount in INR)

Particulars	Note No	As at 31st December, 2023	As at 31st December, 2022
I. LIABILITIES			
1. Funds and Reserves			
(a) Corpus		20,000	20,000
(b) Committed Funds		-	-
(c) Uncommitted Funds			
General Reserve	2	2,27,52,450	2,01,85,239
		2,27,72,450	**2,02,05,239**
2. Current Liabilities			
(a) Trade Payables		18,000	1,10,713
(b) Other Current Liabilities	3	96,51,586	58,44,183
		96,69,586	**59,54,896**
Total		**3,24,42,037**	**2,61,60,134**
II.ASSETS			
1. Current Assets, Loans and Advances			
(a) Fixed Deposits		2,48,05,823	2,41,42,696
(b) Cash and Banks Balances		63,27,934	14,38,184
(c) Advances and other receivables	4	13,08,280	5,79,254
Total		**3,24,42,037**	**2,61,60,134**

The accompanying notes are an integral part of the financial statements

In terms of our report of even date
For Sheshagiri Kudva & Co
Chartered Accountants
Firm Registration Number: 024715S

For and on behalf of the Board of Trustees of
IEEE Bangalore Section

Sheshagiri Kudva
Digitally signed by Sheshagiri Kudva
Date: 2024.01.05 15:26:20 +05'30'

ABHISHEK MAHESH APPAJI
Digitally signed by ABHISHEK MAHESH APPAJI
Date: 2024.01.05 15:09:56 +05'30'

Sheshagiri Kudva
Proprietor
Membership Number: 263023

Aloknath De
Chairman

Abhishek M Appaji
Treasurer

Place: Bangalore
Date: 05 Jan 2024

Place: Bangalore
Date: 05 Jan 2024

Place: Bangalore
Date: 05 Jan 2024

26/1, Unit No-501502, 5th Floor, WTC-Brigade Gateway,
Dr. Rajkumar Road, Malleswaram west, Bengaluru-560 055, INDIA
www.ieee.org
GST: 29AAABI0106R1ZI

The Institute of Electrical and Electronics Engineers
IEEE- Bangalore Section
Income and Expenditure Account for the year ended 31st December, 2023

(Amount in INR)

Particulars	Notes	For the year ended 31st December, 2023	For the year ended 31st December, 2022
INCOME			
I. Direct Income			
a) Revenue from Conferences and Events	4	67,71,625	40,16,526
b) HQ Funding and other Income related to operations	5	1,90,28,609	1,40,59,283
II. Other Income	6	21,36,847	11,35,121
Total revenue (I + II)		**2,79,37,080**	**1,92,10,930**
EXPENDITURE			
HQ Fund Transfer & Section Support	7	1,56,09,402	1,41,47,686
Programme and Event Expenditure	8	73,85,496	32,39,195
Annual General Meeting Expenditure		10,73,517	10,03,753
Other Administrative and General Expenditure	9	6,80,967	6,60,048
Total Expenditure		**2,47,49,382**	**1,90,50,682**
Excess of Income Over Expenditure transferred to General Fund (D-E)		**31,87,698**	**1,60,248**
Significant accounting policies	1		

*Accompanying notes forms part of financial statements

In terms of our report of even date
For Sheshagiri Kudva & Co
Chartered Accountants
Firm Registration Number: 024715S

For and on behalf of the Board of Trustees of
IEEE Bangalore Section

Sheshagiri Kudva
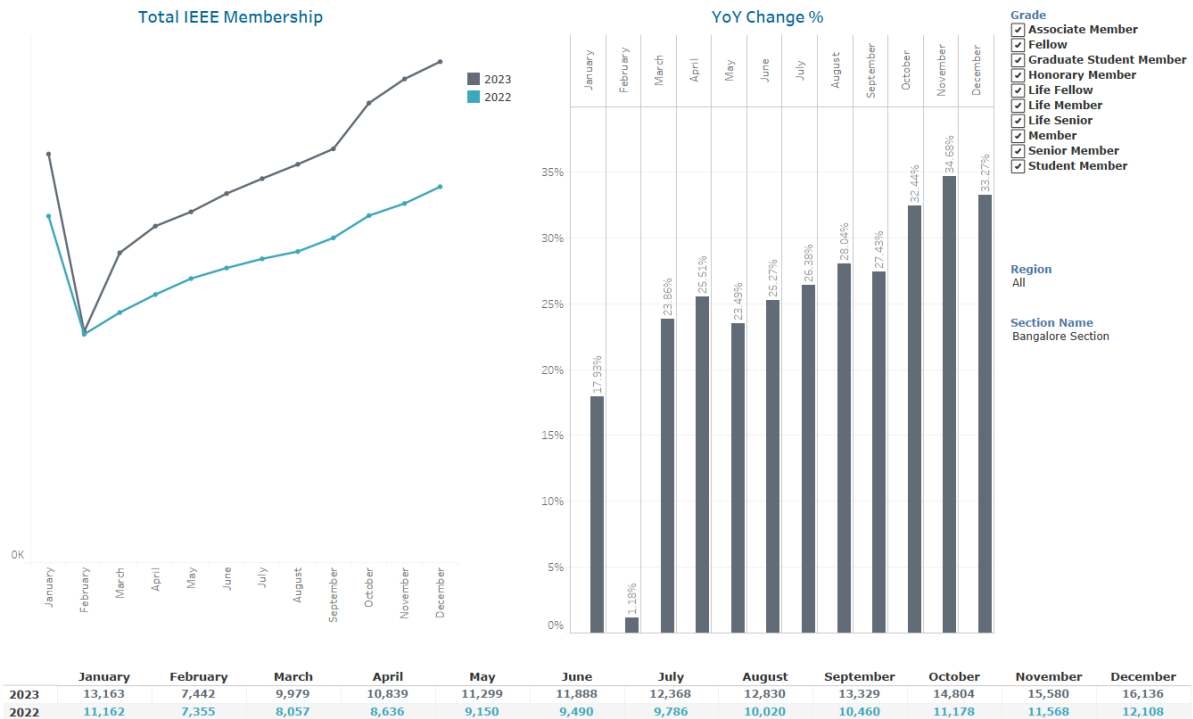Digitally signed by Sheshagiri Kudva
Date: 2024.01.05 15:26:47 +05'30'

ABHISHEK MAHESH APPAJI
Digitally signed by ABHISHEK MAHESH APPAJI
Date: 2024.01.05 15:10:31 +05'30'

Sheshagiri Kudva
Proprietor
Membership Number: 263023

Aloknath De
Chairman

Abhishek M Appaji
Treasurer

Place: Bangalore
Date: 05 Jan 2024

Place: Bangalore
Date: 05 Jan 2024

Place: Bangalore
Date: 05 Jan 2024

PART B - ORGANIZATIONAL ACTIVITIES

B.1 Membership Development Activities

Total IEEE Membership   **YoY Change %**

	January	February	March	April	May	June	July	August	September	October	November	December
2023	13,163	7,442	9,979	10,839	11,299	11,888	12,368	12,830	13,329	14,804	15,580	16,136
2022	11,162	7,355	8,057	8,636	9,150	9,490	9,786	10,020	10,460	11,178	11,568	12,108

We miss many people who do not renew their membership especially, from students and membership grades. At least half of the members do not renew. We start building and working toward new members joining. Sometimes, we fail to reach what we had in the December of the previous year or manage to get the same possible percentage increase if we work very hard.

Suggested Possible Solutions:

- One way to retain them is to follow up. We do, but maybe some more follow-up.
- We might identify more closely and do the data analysis for a few years and look at the pattern and do some corrective action.
- Branch counselors should be supported by the section during passing out or otherwise to follow up with the students.
- Create a database and follow them.
- Take a survey to understand their mind and thinking.

B.2 Chapter Activities

- Total number of Chapters in the Section: 27
- Number of Chapters formed in the current year: CEDA
- Number of active Chapters (Chapters who have reported required number of meetings during the year): 27
- Summary of Chapter activities (Chapter wise with attachment table/information)

Affinity Group		
Bangalore Section Affinity Group, WIE	IEEE Women in Engineering Membership	4,637
Bangalore Section Affinity Group, YP	IEEE Young Professionals	2,668
Bangalore Section Affinity Group,LM	LIfe Member	39
IEEE Bangalore Section R-10 SIGHT	Sight	6,219
Society/Chapters		
Bangalore Section Chapter, C16	IEEE Computer Society Membership	2,561
Bangalore Section Chapter, CAS04	IEEE Circuits and Systems Society Membership	1,109

Bangalore Section Chapter, COM19	IEEE Communications Society Membership	1,213
Bangalore Section Chapter, GRS29	IEEE Geoscience and Remote Sensing Society Membership	120
Bangalore Section Chapter, PE31	IEEE Power & Energy Society Membership	1,687
Bangalore Section Chapter, PEL35	IEEE Power Electronics Society Membership	699
Bangalore Section Chapter, PHO36	IEEE Photonics Society Membership	162
Bangalore Section Chapter, RA24	IEEE Robotics and Automation Society Membership	591
Bangalore Section Chapter, SIT30	IEEE Society on Social Implications of Technology Membership	208
Bangalore Section Chapter, TEM14	IEEE Technology and Engineering Management Society Membership	63
Bangalore Section Chapter, SEN39	IEEE Sensor Council	2,837
Bangalore Section Chapter,CS23	IEEE Control Systems Society Membership	64
Bangalore Section Chapter,E25	IEEE Education Society Membership	113
Bangalore Section Chapter,IT12	IEEE Information Theory Society Membership	383
Bangalore Section Chapter,SYS45	IEEE Systems Council	1,673
Bangalore Section Chapter,VT06	IEEE Vehicular Technology Society Membership	359
Bangalore Section Jt. Chapter, AP03/MTT17	IEEE Antennas and Propagation Society Membership	539
Bangalore Section Jt. Chapter,ED15/SSC37	IEEE Solid-State Circuits Society Membership	620
Bangalore Section,SP01	IEEE Signal Processing Society Membership	1,026
Bangalore Section Chapter, EMB18	IEEE Engineering in Medicine and Biology Society Membership	272
Bangalore Section Chapter, AES10	IEEE Aerospace and Electronic Systems Society Membership	306
Bangalore Section Chapter, EP21	IEEE Electronics Packaging Society Membership	97
Bangalore Section Chapter,IA34	IEEE Industry Applications Society Membership	88
Bangalore Section Chapter,CEDA44	IEEE Council on Electronic Design Automation	1,347
Bangalore Section Chapter, CIS11	IEEE Computational Intelligence Society Membership	385
Bangalore Section Chapter, CT08	IEEE Consumer Technology Society Membership	60
Bangalore Section Chapter, EMC27	IEEE Electromagnetic Compatibility Society Membership	26
Bangalore Section Chapter, EP21	IEEE Electronics Packaging Society Membership	97
Bangalore Section Chapter, IE13	IEEE Industrial Electronics Society Membership	270

B.3 Professional and Continuing Education Activities

Summary of continuing Educational activities including conferences, technical activities, training courses, and distinguished lecture programs with attachment table / information

IEEE Bangalore Section EE Summer School: Department of Electrical Engineering, Indian Institute of Science (IISc), Bangalore, in collaboration with the IEEE Bangalore section and its chapters such as IEEE Power Electronics (PELS), Power Engineering (PES), Computer Society (CS), Industry Applications (IAS), Signal Processing (SP), Young Professional (YP) Bangalore Chapter and IISc PES student chapter, organized the EE summer school 2022 for undergraduate students and young working professionals with backgrounds in EE/ECE/CS/EEE in the month of July 2023. This weeklong summer school was hosted in IISc, Bangalore. The objective of the EE Summer School was to encourage brilliant young minds to build careers in areas of Electrical Engineering including Signal Processing, Machine Learning, Artificial Intelligence, Power Electronics, Power Systems, Renewable Integration, High Voltage Engineering, and Control Systems. It featured talks and demonstrations by IISc faculty, research students, and industry professionals to introduce the attendees to the area of interest and let them know about the applications, current challenges, and emerging trends. It also showcased their talent by participating in various activities like quizzes, hackathons, etc. This summer school was attended by 125+ UG students from top engineering colleges from all over the country.

B.4 Students Activities

- Summary of Student Branch activities (Student Branch wise with attachment table/information)

Student Branch Name	Sub Section	Count of SB Attendees	Count of SB Chapters/Affinity Groups
R N S Institute of Technology	Bangalore	974	7
BMS College of Engineering	Bangalore	936	11
Visvesvaraya Univ College of Engrg	Bangalore	598	6
National Institute of Technology-Karnataka	Mangalore	538	10
Sai Vidya Institute of Technology	Bangalore	407	12
Basaveshwar Engineering College	NKSS	400	7
Vivekananda College of Engineering and Technology	Mangalore	337	1
New Horizon College of Engineering	Bangalore	307	7
Reva University	Bangalore	307	15
Mangalore Institute of Technology & Engineering	Mangalore	265	0
Amrita School of Engineering Bangalore	Bangalore	263	9
Christ University-Bangalore	Bangalore	259	5
Rashtreeya Vidyalaya College of Engineering	Bangalore	215	10
National Inst of Engineering-Mysore	Mysore	211	6
Ramaiah Institute of Technology	Bangalore	187	11
Gogte Inst Of Tech	NKSS	186	4
Siddaganga Inst of Tech	Bangalore	173	3
Sri Jayachamarajendra College of Engrg	Mysore	159	3
Presidency University - Bangalore	Bangalore	153	4
Yenepoya Institute of Technology	Mangalore	153	0
Bangalore Institute of Technology	Bangalore	149	3
KLE Societys Institute of Tech	NKSS	148	5
BNM Institute of Technology	Bangalore	147	6
Atria Institute of Technology	Bangalore	146	7
Sri Sairam College of Engineering	Bangalore	143	0

Maharaja Institute of Technology-Mysore	Mysore	142	4
Nitte Meenakshi Inst Of Tech	Bangalore	161	8
Vidya Vardhaka College of Engineering	Mysore	131	8
Jyothy Institute of Technology	Bangalore	126	2
PES College of Engineering-Mandya	Mysore	119	2
Dayananda Sagar College of Engineering	Bangalore	108	4
Manipal Institute of Technology	Mangalore	106	10
Manipal Institute of Technology Bengaluru	Bangalore	103	3
Cambridge Institute of Technology-Bengaluru	Bangalore	101	2
Sahyadri College of Engg and Management	Mangalore	101	1
Jain College of Engineering-Belagavi	NKSS	96	2
Kristu Jayanti College	Bangalore	94	0
Nitte Mahalinga Adyanthaya Mem Inst of Tech	Mangalore	89	4
GSSS Inst. of Engg and Tech for Women	Mysore	88	5
Jawaharlal Nehru National College of Eng-Shimoga	Mangalore	85	2
Saint Joseph Engineering College-Mangalore	Mangalore	85	5
CMR Institute of Technology-Bangalore	Bangalore	72	1
Shri Madhwa Vadiraja Inst of Tech & Man-Bantakal	Mangalore	72	0
HKBK College of Engineering	Bangalore	70	3
BMS Institute of Technology	Bangalore	69	4
Ballari Institute Of Technology & Management	Bangalore	68	6
GITAM University-Bengaluru	Bangalore	65	0
P A College Of Engineering-Mangalore	Mangalore	63	8
SDM College of Engg & Tech-Dharwad	NKSS	62	3
AJ Institute of Engineering and Technology	Mangalore	61	0
Dayananda Sagar University-Bangalore	Bangalore	59	4
Srinivas Institute of Technology-Mangaluru	Mangalore	59	0
The Oxford College Of Engineering	Bangalore	59	4
K S Institute of Technology	Bangalore	54	2
Dayananda Sagar Academy of Tech and Man	Bangalore	53	1
PES Institute of Technology-Bangalore	Bangalore	53	4
Malnad College of Engineering - Hassan	Mysore	51	3
Vemana Institute of Technology	Bangalore	50	4
Alliance University	NKSS	48	1
Indian Inst of Science-Bangalore	Bangalore	47	11
AMC Engineering College	Bangalore	41	0
BGS Institute of Technology-Mandya	Mysore	41	2
Vidya Vikas Institute Of Engineering & Technology	Mysore	41	3
Central University of Karnataka	NKSS	39	4
RYMEC-Bellary	Bangalore	39	0
Adichunchanagiri Institute of Technology	Mangalore	37	0
SJB Institute of Technology	Bangalore	37	1

M S Ramaiah University of Applied Scns-Bangalore	Bangalore	36	1
Navkis College of Engineering-Hassan	Mysore	36	1
RV Institute of Technology and Management	Bangalore	36	0
SJC Institute of Technology	Bangalore	36	1
KLE Dr. M.S. Sheshgiri College of Engg & Tech	NKSS	35	4
S.G. Balekundri Institute of Technology	NKSS	33	0
Bapuji Institute of Engineering & Technology	Bangalore	32	0
Sri Krishna Institute of Technology	Bangalore	32	0
Alva's Institute of Engineering and Technology	Mangalore	31	0
Kalpataru Institute Of Technology-Tiptur	Bangalore	30	1
Prerana Educational Social Inst of Tech & Mgmt	Mangalore	30	0
Global Academy of Tech	Bangalore	29	2
Guru Nanak Dev Engineering College-Bidar	NKSS	29	5
Canara Engineering College	Mangalore	28	1
KLE Society's College of Engrg	NKSS	28	1
Sharnbasva University-Kalaburagi	NKSS	28	4
Sri Siddhartha Institute of Technology	Bangalore	28	1
Sri Venkateshwara Coll of Eng-Bangalore	NKSS	28	2
HKE Societys SLN Col of Engin-Raichur	NKSS	27	1
Indian Institute of Technology Dharwad	Bangalore	26	0
Nagarjuna College of Engineering and Technology	Bangalore	26	1
Jain College of Engineering and Research	NKSS	25	0
Sir M Visvesvaraya Inst Of Tech	Bangalore	25	2
Indian Institute of Information Technology-Dharwad	NKSS	23	2
JSS Academy of Technical Education-Bangalore	Bangalore	21	1
K S School of Eng and Management	Bangalore	19	1
Maharani Lakshmi Ammanni College for Women	Bangalore	19	1
Acharya Institute of Technology	Bangalore	18	0
Bearys Institute of Technology	Mangalore	18	0
KLS Vishwanathrao Deshpande Inst of Tech-Haliyal	Mangalore	18	0
Soundarya Institute of Management and Science	Bangalore	17	0
Mangalore University	Mangalore	16	1
Brindavan College of Engineering	Bangalore	15	0
Government Engineering College-KR Pet	Mysore	15	0
Amrita Vishwa Vidyapeetham-Mysuru	NKSS	14	1
Lingaraj Appa Engineering College	Bangalore	14	1
Moodlakatte Institute of Technology	Mangalore	14	0
Vidyashilp University	NKSS	14	0
Angadi Institute of Technology & Management	NKSS	13	0

Dr Timmaiah Instiutute of Technology	Bangalore	13	0	
Cambridge Inst of Tech North Campus	Bangalore	12	0	
S.E.A. College of Engineering & Technology	Bangalore	12	0	
Shetty Institute of Technology	NKSS	12	0	
RajaRajeswari College of Engineering-Bangalore	Bangalore	11	0	
Sambhram Institute Of Technology	Bangalore	11	1	
Don Bosco Inst of Technology-Bangalore	Bangalore	10	0	
T. John Institute of Technology	Bangalore	9	0	
ATME College of Engineering	Mysore	7	0	
CMR University	Bangalore	7	0	
MVJ College of Engineering	Bangalore	7	0	
Jain University	Bangalore	6	0	
Peoples Education Society University	Bangalore	6	5	
Srinivas University	Mangalore	6	0	
Khaja Bandanawaz University	NKSS	4	0	
Basavakalyan Engineering College	NKSS	3	0	
East Point College Of Engineering & Tech	Bangalore	3	1	
Govt S K S J Technological Institute	Bangalore	3	0	
SDM Institute of Technology	Mangalore	3	0	
KCT Engineering College	NKSS	2	1	
Kuvempu University	Bangalore	2	1	
NIE Institute of Technology	Bangalore	2	0	
The National College Jayanagar	Bangalore	2	0	
The National College, Basavanagudi	Bangalore	2	0	
Vivekananda Institute of Technology	Bangalore	2	0	
Indian Inst of Information Tech	Bangalore	1	0	
R. L. Jalappa Institute of Technology	Bangalore	1	0	
V.P. Dr PG Hallakatti College of Eng & Tech	NKSS	1	0	

New Student Branches Started in 2023

Student Branch Name	Sub Section	Counselor	Count of SB Attendees
Sri Sairam College of Engineering	Bangalore	poonguzhali Arunachalam	143
Manipal Institute of Technology Bengaluru	Bangalore	Balachandra Achar H. V.	103
GITAM University-Bengaluru	Bangalore	Karthick S	65
Srinivas Institute of Technology-Mangaluru	Mangalore	anoop bk	59
Bapuji Institute of Engineering & Technology	Bangalore	Puneetha B H	32
Sri Krishna Institute of Technology	Bangalore	Hemalatha K L	32
Alva's Institute of Engineering and Technology	Mangalore	Manjunath Kotari	31
Indian Institute of Technology Dharwad	Bangalore	Pratyasa Bhui	26
Jain College of Engineering and Research	NKSS	VIRUPAXI DALAL BALCHANDRA	25
Maharani Lakshmi Ammanni College for Women	Bangalore	Anita Patrot Ashok	19

Bearys Institute of Technology	Mangalore	Abdullah Gubbi	18
Soundarya Institute of Management and Science	Bangalore	REKHA C	17
Brindavan College of Engineering	Bangalore	Venugopal A R	15
Lingaraj Appa Engineering College	Bangalore	BASAVALINGA SWAMY	14
Vidyashilp University	NKSS	kiran dc	14
Angadi Institute of Technology & Management	NKSS	Raviraj Chougala	13
Dr Timmaiah Instiutute of Technology	Bangalore	VIJAYA GEETHA R	13
Cambridge Inst of Tech North Campus	Bangalore	ANAND KUMAR	12
S.E.A. College of Engineering & Technology	Bangalore	Bhagavant Deshpande K	12
Shetty Institute of Technology	NKSS	Dr basanti ghanti G	12

B.5 Affinity Group Activities

- Young Professional (YP)

  IEEE Young Professionals Affinity Group Annual Report
  The IEEE Young Professionals (YP) community has had a dynamic and impactful year, hosting a diverse range of events, workshops, expert talks, and hackathons aimed at fostering professional development, knowledge sharing, collaboration, and innovation among young professionals and students in the technology and engineering sectors. The IEEE Young Professionals community has had a successful and productive year, hosting a wide range of events, workshops, and activities aimed at fostering professional growth, innovation, collaboration, and community building among young professionals and students in the technology and engineering sectors. We look forward to continuing our efforts in the coming year to further enhance member engagement, expand our impact, and contribute to the advancement of technology and society.

- Women In Engineering (WIE)
  IEEE Women in Engineering (WIE) is a global network of IEEE members and volunteers dedicated to promoting women engineers and scientists and inspiring girls around the world to follow their academic interests in a career in engineering and science. Provide assistance with the formation of new IEEE WIE Affinity Groups and support ongoing activities. Recognize the outstanding achievements of women in electrical and electronics engineering through IEEE Awards nominations. Organize workshops at major technical conferences to enhance networking and to promote membership in IEEE WIE. Advocate women in leadership roles in IEEE governance and career advancement for women in the profession. Promote member grade advancement for women to the IEEE membership grades of Senior Member and Fellow. Facilitate the development of programs and activities that promote the entry into, and retention of, women in engineering programs. Administer the IEEE Student-Teacher and Research Engineer/Scientist (STAR) Program to mentor. The Chapter embarked upon a meticulously planned journey of providing significant value addition to its members through specialized professional development programs; opportunities and exposures; unique recognitions and felicitations.

- Life Member (LM)
  The formation of the LMAG of the Bangalore Section was approved by IEEE during 2019. There are around 22 LMAG members and most of them are very active. They often suggest section ExCom on some of the Do's and Don't's. They also engage their colleagues arranging seminars. Section invite them on most of the events. LMAG IEEE Bangalore Section and LMAG IEEE India Council organized a session on "Global Mobile Communications using Leo Satellites" by Sriram Jayasimha, on June 28, 2023, at 7:00 PM. IEEE LMAG in association with IEEE AESS is celebrated IEEE AESS Golden Jubilee Celebration followed by Integrated Sensing and Communication (ISAC) Workshop on November 2, 2023 at Hotel Sterlings Mac, HAL Airport Road, Bangalore.

B.6 Awards & Recognition Activities

- Award constituted by the Section.

Award Name	Awardee
Medal of Honor 2023	Dr. Surendra Pal
IEEE Bangalore Section - Outstanding Large Student Branch Award 2023	Amrita School of Engineering Bangalore
IEEE Bangalore Section Outstanding Medium Student Branch Award 2023	Nitte Meenakshi Institute of Technology, Bangalore STB64731
IEEE Bangalore Section Outstanding Medium Student Branch Award 2023	Manipal Institute of Technology, Manipal STB09891
IEEE Bangalore Section Outstanding Small Student Branch Award 2023	Vidya Vikas Institute of Engineering & Technology, Mysore
IEEE Bangalore Section Outstanding Large Student Branch Counsellor Award 2023	Dr. Kiran K
IEEE Bangalore Section Outstanding Medium Student Branch Counsellor Award 2023	Dr. Ambar Bajpai
IEEE Bangalore Section Outstanding Small Student Branch Counsellor Award 2023	Dr. Savita Sonali
IEEE Bangalore Section Outstanding Student Branch Digital Presence Award 2023	Rashtriya Vidyalaya College of Engineering, Bangalore
IEEE Bangalore Section Most Promising Student Branch Award 2023	Cambridge Institute of Technology, Bangalore
IEEE Bangalore Outstanding Large Chapter Affinity Group 2023	IEEE Circuits and Systems Society CAS, Bangalore Chapter
IEEE Bangalore Outstanding Student Volunteer 2023	Nisarga V
	Suhas Katrahalli
	Poornima R
	Shrivatsa Vaman Gudi
	Subramanya Navada
IEEE Bangalore Outstanding WIE Volunteer 2023	Dr. Vaddi Naga Padma Prasuna
IEEE Bangalore Outstanding Young Professional Volunteer 2023	Yeshwanth L M
	Roobini Ganesan
	Asif Ali Ahmed R
IEEE Bangalore Outstanding Volunteer 2023	Dr. Shobha K R

- Please list all Awards and Recognitions received by the Section, and members in the Section, from R 10 and IEEE HQ during the year
  We are pleased to inform you that this year IEEE Bangalore section members have won various National, Regional, and International Contests/Awards. We are proud of their achievement and wish them all the best in future endeavors.
  2023 MGA INNOVATION AWARD: Dr. Aloknath De
  "For exemplary leadership and outstanding contribution in leveraging Bangalore's power of industry and aligning initiatives of Section, Society Chapters and SAC, towards benefits for members in all lifecycle stages"

  2023 MGA Young Professionals Achievement Awards: Dr. Ashwini Appaji

For Exemplary leadership and contributions to IEEE Students and Young Professional activities for membership growth and retention.

2023 IEEE STEM Champion Award, From Region 10: Dr. Abhishek Appaji

IEEE WIE Inspiring Member of the Year Award, Honorable Mention: Dr. Kumudhini Ravindra

2023 WIE Committee Outstanding Volunteer: Sadhana Attavar

IEEE CS 20 in their 20s Honoree from Computer Society: Asif Ali Ahmed

2023 Region 10 Young Professionals,Outstanding Volunteer in Industry: Yeshwanth L M

India council awards
Outstanding Young Professional Volunteer: Abhishek Appaji
Outstanding Student Volunteer: Subramanya Navada K R
Outstanding Student branch : Siddaganga Inst. of Technology

B.7 Communication Activities (Newsletter, Home Page, E-mail etc.)

- Newsletter (name and number of issues in the year)
  The IEEE Bangalore Section Newsletter is a quarterly that was started in January 2020. IEEE Bangalore Section encourages its members to submit content in the following formats: personal experiences in STEM, articles, announcements of upcoming events along with news items.
  The purpose of the newsletter is to communicate with its member's announcements – Short, topical, and news-oriented including the Bangalore Section Conferences along with Affinity group and society reports and other relevant information that would benefit its members. The newsletter also publishes important awards and recognitions received by its members, chapters, and societies. Creativity and technical curiosity are encouraged through the publication of Major Articles which include an in-depth discussion of current topics. All articles are reviewed and edited for appropriateness and relevance before being published. So far, three issues of the newsletter have been published corresponding to each quarter of 2023. The review and design of the fourth quarter issue are in progress and will be released at the Section AGM. HOPE - Holistic Open Platform for Editorial. This time converted to its digital form, the new editions of the newsletter had few extensive add-ons.

- Home Page of the Section (give the URL and how often it is updated)
  https://ieeebangalore.org/
  The IEEE Bangalore Section is updated on monthly basis.

  We have incorporated several new features and enhancements, aiming to provide a unique and improved user experience. Some notable additions are:
  1. Dedicated Chat Bot: We have integrated a section on the website dedicated to a chatbot. The chatbot will provide frequently asked questions (FAQs) and relevant answers, along with helpful links. This interactive feature aims to enhance user engagement and provide prompt assistance. (We are currently improving the Q&As and shortening the response time)
  2. Light/Dark Mode: We have implemented a cutting-edge feature that allows users to switch between light and dark modes on the website. This innovation sets our IEEE Bangalore website apart from any other IEEE website across the globe.
  3. Enhanced Search Functionality: We have introduced an advanced search feature within the website, enabling users to search for specific information or articles. Additionally, the search supports keywords, further improving the overall user experience and ease of navigation.
  4. Webex Request Form: We have added a Webex request form, which allows users to submit their details and requirements for organizing Webex meetings or events. This form streamlines the process for both individuals requesting the Webex service and the coordinators responsible for creating and providing these facilities. By providing all the necessary information upfront, we ensure a smooth and efficient Webex experience for all participants.
  Website link: https://ieeebangalore.org/webex-request-form/
  5. Reimbursement Request Form: To simplify the reimbursement process, we have included a reimbursement request form on the website. Users can now easily submit their reimbursement details, including expenses incurred and relevant documentation, through this form. This streamlined approach

ensures that both the requesters and the reimbursement coordinators have all the necessary information for a hassle-free reimbursement process.
Website link: https://ieeebangalore.org/reimbursement-form/
6. Enotice Request Form: The website now features an enotice request form, enabling users to submit specific details and content for enotices. This form ensures that the information provided is accurate and complete, allowing the enotice coordinators to efficiently create and distribute notices to the intended recipients. The enotice request form simplifies the process for users seeking to disseminate important announcements or updates within the IEEE Bangalore community.
Website link: https://ieeebangalore.org/enotice-request/

- Other means of contacts with Section members including social media
Information on all the events mentioned above may be found in the following Social media handles of the IEEE Bangalore Section:
YouTube - https://www.youtube.com/channel/UCP5O7GrQaAgAPjvNIRhuiyQ
Facebook - https://www.facebook.com/IEEEBangaloreSection/
Instagram - https://instagram.com/ieeebangalore?igshid=1w0pfl5351wag
LinkedIn - https://www.linkedin.com/company/ieee-bangalore-section
Twitter - https://twitter.com/ieee_section?s=0

B.8 Industry Relations

- Membership growth and retention
There has been a steady rise in the professional members this year and industry contribution is equal at par with academia. Many industries were contacted and provided with the advantages of being professional members of IEEE. On such approach, many came forward with a scheme to sponsor many of their employees to become professional members. We will continue this attempt and concept to approach the industry.

- Activities for/with industrial members

Industry Engagement Committee, of IEEE Bangalore Section facilitates industry engagement activities, identifies and acts on opportunities, gaps, and overlaps across industries, and launches initiatives, evangelizes the programs, events and confernces for the development of products and services that meet the needs of industry, government, and industry professionals. IEEE Bangalore Section, in partnership with IEEE TEMS, is organizing a day long, second edition of Workshop for coaching for future senior leaders - CATALYST: Re-fuelling Mid-Career, Industry Leaders will share their Experiences & thoughts on Challenges faced by Mid Managers. It will help the Mid Managers equip themselves to solve these challenges and prepare for future career goals.

The IEEE Bangalore Section initiated the "Industry Hub" Initiative to fortify the symbiotic relationship between IEEE Bangalore Section and the industrial ecosystem. The initiative's primary objectives include:

1. Strengthening the bonds between IEEE and various industries.

2. Orchestrating technical activities that benefit IEEE societies/chapters and industrial sectors.

3. Establishing unified IEEE ecosystems within specific industry domains.

4. Propagating standardization endeavors.

5. Offering guidance to enhance IEEE Bangalore Section's relevance within the industry landscape.

This initiative requires assembling 12 adept professionals and identifying a compelling problem area for collaboration within the IEEE Bangalore Section and its Society.

As on date IEEE Bangalore Section has established two Industry Hub at TVS IQL and Harman International along with IEEE VTS Bangalore Chapter.

The Infrastructure Pyramid at TII organized the Infra Super Week event on December 5th, 2023, at the C2 venue in Manyata Tech Park. The event aimed to provide valuable insights into IEEE, the art of technical paper writing, and accessing content such as articles and white papers. Dr. Chengappa Munjandira, Dr. Chandrakanth, and Dr. Soma graciously accepted the invitation to be speakers at the event. Their expertise and experience in the field promised to provide attendees with an enriching

learning experience. The Infra Super Week event was a resounding success, thanks to the invaluable contributions of the IEEE Bangalore Section Speakers, and their expertise and willingness to share knowledge enriched the attendees' understanding of IEEE, technical paper writing, and content accessibility in the infrastructure domain.

B.9 Humanitarian Technology Activities

- Humanitarian Technology related activities supported by the Section including collaboration with other OUs.
  IEEE Bangalore Section strongly believes in educating the children, youth and adults helps to break generational cycles of illiteracy and poverty; and in line with the UN SDG 4 (Sustainable Development Goal 4) which aims to provide children and young people with quality and easily accessible education plus other learning opportunities. One of its targets is to achieve universal literacy and numeracy. A major component in acquiring knowledge and valuable skills in the learning environment. IEEE Bangalore Section has come up with a new program of **"Each IEEE Student Branch adopting a Govt. School for the year 2023"**; and after adopting a minimum of 3 events to be conducted within Oct 2023.

  Activities to be conducted by IEEE Student Branch:
    - Select a Government school near your student branch. (with in 5 Km range. In rural places upto 15 Km).
    - Discuss with the school authorities, activities which can be planned keeping a good outcome in mind.
      - Training the teachers to improve quality of teaching.
      - Training of students to develop various skills, leadership, etc.
      - Job oriented activities as part of co-curricular activities
      - Any other educational activity.
    - Using IEEE resources will help awareness, membership development.
    - At least 3 activities to be conducted, reports to be uploaded in IEEE vTools.
    - A total amount of Rs. 4500 /- upto Rs 6,000/- will be sponsored from section (Bills in the name of IEEE SB) for buying materials for model making, conducting event, etc.,
    - The amount will be included in the student branch section support for 2023 by verifying vTools activity report and the bills.

- SIGHT Activities

  The first event was conducted on February 15, 2023, IEEE SIGHT (Special Interest Group on Humanitarian Technology) Bangalore section presents an enlightening event focused on fostering sustainable living through the integration of science and technology. Titled "Lifestyle for Environment: Science and Technology for Sustainable Well-Being". This event aims to explore innovative solutions and approaches to enhance environmental sustainability while promoting the overall well-being of individuals and communities. Speakers share insights into the role of science and technology in addressing environmental challenges. Gain a deeper understanding of how cutting-edge innovations can contribute to sustainable practices and improve the quality of life.

  The second event took place at 6:30 PM on February 4, 2023. A virtual talk was organized by IEEE SIGHT Bangalore section in collaboration with the IEEE Bombay section. The talk was titled "Familiarizing with Humanitarian Activity" and was given by Saurabh Soni, who is the Manager of Technology and Chair at IEEE SIGHT Bombay Chapter.

  IEEE SIGHT Day 2023 was held on Friday 28 April 2023, to foster a spirit of community for the global SIGHT network, increase awareness of IEEE SIGHT within IEEE, promote the opportunity All established SIGHT Groups are invited to sign up for a 30 minute time slot to share information on what their Groups have done recently and are planning for the rest of 2023, best practices and lessons learned, recommendations for Group member engagement, and a message of encouragement to other SIGHT Groups around the world. SIGHT Group Officers and members were invited to present.

  The second event in the April month was IDEATHON 2023, a groundbreaking event organized by CHRIST University, where innovative minds converge to tackle global challenges through Clean and Sustainable Projects for Humanitarian causes. This ideathon promises to be a dynamic platform for students, professionals, and visionaries to collaborate, ideate, and create solutions that contribute to a more sustainable and compassionate world. IDEATHON focused on Clean and Sustainable Projects for

Humanitarian causes, emphasizing the role of technology and innovation in addressing pressing global issues. Participants were engaged in a collaborative environment, working in interdisciplinary teams to brainstorm, design, and present their ideas. The event encourages diversity of thought and expertise to foster well-rounded solutions.

IEEE SIGHT Bangalore Section, in collaboration with IEEE WIE AG Bangalore Section, embarked on a transformative visit to Adamya Chetna Kitchen, an exemplary non-governmental organization (NGO) making a profound impact in the community. This visit offered an opportunity to witness and understand the organization's commitment to preparing an astonishing 65,000-70,000 meals per day, all while maintaining a zero-waste approach.

B.10 Community Activities

- IEEE Social activities (Family day, IEEE day, Engineers Week)"
  To encourage the exchange and dissemination of technical information, and to promote understanding and co-operation among the members of IEI-KSC THE INSTITUTION OF ENGINEERS, INDIA KARNATAKA STATE CENTRE and IEEE BANGALORE SECTION, have entered into an agreement on the following matters to develop joint activities, based on additional individual agreements which will become supplements to this agreement. It is understood that communication will take place with the IEEE during the negotiations about these joint activities.

  The broad areas of engagement that have been identified as part of this general cooperation agreement are:
  1. IEEE and IEI-KSC to initiate and progress activities for promotion of the engineering profession in Karnataka. This can include collaborating with stakeholders to include the interdisciplinary Engineers' perspective in matters of public policy; instituting Museums and replicas of significant contribution of applying engineering and technology solutions and products for societal progress by leading Engineering personalities; establishing Information centers and Digital Libraries for the benefit of Members and Students; organizing visits by leading IEEE luminaries for premier engineering conclaves as part of the Distinguished Lecture Programs.
  2. IEEE and IEI-KSC to form joint Working Groups to develop actionable plans for participating and contributing to providing Engineering solutions for various national programs/ missions like Digital India, Smart Cities.
  3. IEEE and IEI to leverage complementary strengths across multiple engineering disciplines to develop Standards and Guidelines
  4. Develop joint initiatives to help address the need for updating technical knowledge-base of their Members through Continuous Learning Programmes and Joint Certifications
  5. Promote joint membership of both professional bodies
  6. IEEE and IEI extending technical support for events such as World Telecommunication and Information Society Day to promote technology awareness and technology absorption in India. Each of the professional bodies will support activities to market the event, bring in delegates, exhibitors and sponsors, as mutually decided for each opportunity/ event.
  7. The IEEE and IEI are encouraged to develop joint activities, based on additional individual agreements that will supplement this document. This Agreement extends to the IEEE, Society Chapters, Affinity Groups and Subsection of IEEE; and the IEI-KSC and its Student Chapters.

PART C - OTHERS

C.1   Special Events

- Please briefly describe the importance of special events and the outcomes achieved
  IEEE Bangalore Section has come up with a proposal for awarding scholarships to economically backward talented IEEE student members. Through this initiative, the Section provided a scholarship amount of Rs. 10,000/- to 20 worthy students based on the below criteria.
  Eligibility Criteria
    - Students should be studying in the 2nd or 3rd year of Engineering.
    - Student should be currently IEEE Member (Year – 2023)

- Family income less than Rs. 5 Lakh per annum.
- Student's performance from 10th, 12th (PU) and results up to the previous semester should be good (Min. 60 % score or CGPA >=6.0).
- Students should be good volunteers.

This initiative helped students in responding to their financial crisis, it has been a gesture of section towards social cause and novel support to its student community. The section is proud and happy to initiate these Nobel activities. Below are the students who received the section student grant for the year 2023.

VTP'23: In order to increase volunteering skills, SAC has planned for week Volunteer Training Program for Student Branch Office bearers and other IEEE Bangalore Section and Subsection Student Volunteers. This is an Online Event and hence all the volunteers can complete this training with ease. The Volunteer Training Program will be approximately 8 Modules and each module will take 1 hour to complete. These modules must be completed within 2 or 3 weeks, after the completion of these modules, there will be Vtools training for the rest of 1 or 2 weeks. The training program began on 21/7/2023 with an amazing orientation ceremony for all the registered upcoming future volunteers of the section. The session began with an ice-breaking session by, Membership development Co-lead of SAC 2023 followed by the importance and need for such a volunteering program Technical Committee Lead of SAC 2023 then the session was taken over by the SAC Chair Dr. Parameshachari enlightening the participants with his motivational and kind words. The session was concluded by Mr. Srinidhi, Membership Development Lead of SAC 2023.

C.2 Relationship with National and International Societies and Non-Government Organizations (NGO)

- IEEE Bangalore Section through this IEEE SIGHT Bangalore Chapter has been engaging with some of the NGOs to reach out to the underserved communities:

  - Collaboration with Margadarshi to Power to differently abled by
    Assistive Technology Solution/Training by collaborating with Margadarshi NGO
    Mobility Aids measurement & fitment Program,
    Capacity Building training for parents of children with cerebral palsy and multiple disabilities

  - Collaborating with EnABLE India working on the ground and impacting thousands of Persons with disability.

PART D - GOALS AND PLANS

D.1 Continuation of project/activity in progress and their implementation plans

Most of the events/activities will continue as the success rate has been very high. However, wherever possible, we shall imbibe improvements, some of the flagship events are planned as follows:

CONECCT 2024 – The tenth edition IEEE CONECCT-2024 is the Annual International Conference of IEEE Bangalore Section on Electronics, Computing, and Communication technologies. The conference aims to provide Networking opportunities, Excellence, Collaboration, and Cooperation among Technologists. In addition to contributing papers on research findings and expert talks on recent topics, several professional events are planned. A special feature being experimented; this time is "shared sponsorship"; Academic and Industry partners may come forward to share the ownership of a session or track by contributing technically and/or financially. Contact the Industry liaison chair for this. For example: A Special Session on HPC is sponsored and led by CDAC. The accepted and presented papers of the 2024 IEEE CONECCT 2024 will be submitted to

IEEE for possible publication in the IEEE Xplore Digital Library More information are shared at https://ieee-conecct.org/

IEEE Bangalore Section in association with the NMAM Institute of Technology, Nitte, Mangalore is hosting the fourth IEEE Bangalore Humanitarian Technology Conference (2024 IEEE BHTC), with IEEE Conference Record Number #60740. BHTC is a flagship conference of IEEE Bangalore Section. 2024 IEEE BHTC aims at promoting research and development on "Sustainable Development Goal 14: Life Below Water" to use technology to conserve and sustainably use the oceans, seas, and marine resources for sustainable development. It aims to provide an international platform to the students, professionals, practitioners and researchers from industry and academia to present their research findings and discuss with experts. A series of plenary talks, followed by oral presentations and other events have been planned to facilitate networking among the delegates. The accepted and presented papers of the 2024 IEEE BHTC will be submitted to IEEE for possible publication in the IEEE Xplore Digital Library. The conference details are available at www.bhtc-2024.ieeebangalore.org.

Bangalore Technology Conclave (BTC) 2024 – This event is planned to be scheduled in November on the theme of **Innovating for a Sustainable Future with GenAI** in the month of November 2024.

IEEE Bangalore Section has introduced Students Travel Grant for TEIR-1 IEEE Conferences (viz. GLOBECOM, ICC, ICASSP, APS/URSI, IMS, IECON, ECCE, APEC, EMBC, ECTC, EPEPS, ICRA, IROS, ICCE, etc.); under which we provide a Maximum Travel support of INR 50,000/6months is available under this scheme. This scheme is open only for:
- IEEE Bangalore Section Student Members
- One Travel Grant/6months
- First Author of the accepted paper should be IEEE Bangalore Section Student Member

D.2 Goals and Future Plans

Empowering all ExCom members by delegating responsibility to lead and work in team. Section goal is to bring some improvement in all areas, for example, membership count, fund/grant from HQ, government interface/connect, etc. The chair also suggested strengthening ExCom members. We are all highly skilled and experienced, let us deliver monthly seminar/workshop to some of the student branches, chair informed. The meeting would be action-oriented and quarterly reviewed to investigate, what is set and what is achieved.

- Mission mode Membership drive – to achieve close to 15000 Members with over 50% of professional categories.
- Increasing student memberships
- Industry engagement and involvement
- Joint activities and reach out to sections beyond India.
- Compulsory Visit by ExCom members to outside (rural colleges)
- Engagement with NGOs
- Engage more with society chapters.

- Societal work – providing technological solutions to underdeveloped (at least one area).

D.3 Any innovative ideas to make IEEE more creative and value added for sustaining the membership retention and recruitment goals.

Chapters and student branches should always be active. They need to feel empowered and regularly involved. Every ExCom member should visit an SB once a month to give a discussion and interact with the management, chairs, and office holders. They will be inspired and motivated by such visits. We should travel to isolated locations. We should connect and communicate frequently. Keeping track of membership each month and deliberately concentrating on it in March and August. We also need to have a synergy between all the society chapters and the section has to empower them to grow, eventually which would help the section to get more members. IEEE Bangalore Section has close synergy with the Society Chapters and Affinity groups under it and would encourage them to establish more student branch chapters in Karnataka.

D.4 Business Plan for Sustainable Growth and Financial Stability.

IEEE Bangalore Section plans to have financial and technical co-sponsorship with the locals IEEE conferences in the jurisdiction of IEEE Bangalore Section. Bangalore being a technology hub, IEEE Bangalore Section would also actively seek Sponsorships from the industry and organizations for the flagship and other conferences.