IEEE BANGALORE SECTION

A.1 Executive Summary – (Please follow the format given below)

Section Executive Committee Member List (2024)

- **2024 Chair: Dr. T Srinivas, IISc**
- **2024 Chair-Elect: Dr. Chandrakanta Kumar, ISRO**

Execom Members
- **Dr. Shobha K R, DSCE**
- **Dr. Abhishek Appaji, BMSCE**
- **Ms. Anandi Giridharan, IISc**
- **Dr. Chengappa M R, Hewlett Packard Enterprise**
- **Dr. Parameshachari B D, NMIT**
- **Dr. Ashutosh Kedar, LRDE DRDO**
- **Mahesh Penugonda, STMicrelectronics**
- **Sundaresan Poovalingam, Infosys Limited**
- **Dr. Ambar Bajpai, Gitam University**
- **Kishore Kumar Sharma, Bosch Global Software Technologies**
- **Dr.M.Devanathan, Reva University**
- **Devendra Gowda, Acharya Institute of Technology**
- **Dr. Rajesh G, New Horizon College of Engineering**
- **Gajendra Deshpande, EyeSec Cyber Security Solutions Pvt. Ltd.**
- **Ashwini Appaji, BMSCE**
- **Gayatri devi, Senior Manager, Randstad**
- **Jalaja S, BIT**
- **Javed G, Intel**
- **Lakshmi YVS, CDOT**
- **Pamela Kumar, IISc**
- **Prasant Mishra, TCS**
- **Ramesh Babu, RNSIT**
- **Samyama Gunjal, UVCE**
- **Supriya Kamthania, HPE**
- **Arun Balode, DSU**
- **PC Srikanth, MCE Hassan**
- **Jayaraman, Boeing**
- **Rudrashih, IISc,SSR**
- **Vijayalakshmi, BMSCE**
- **Eesha, IISc, SSR**

Two Immediate Past Chairs:
- **Dr. Aloknath De, 2023 Chair**
- **Dr. Deepa Shenoy,2022 Chair**

Section Highlights

The **IEEE Bangalore Section** maintained its position as **one of the most vibrant and dynamic sections globally**, ranking as the **second-largest IEEE section** with over **18,944 members** by the end of 2024. The section focused on **technical excellence, industry**

collaboration, membership growth, and outreach initiatives, ensuring a well-balanced engagement between **academia, industry, and students**.

1. Growth in Membership and Student Engagement

- Achieved a **17-18% membership growth**, surpassing global trends.
- Established **16 new Student Branches** and **124 new Student Branch Chapters** under the Bangalore Section.
- Awarded **30 scholarships and 3 travel grants** to deserving IEEE student members, supporting research and innovation.

2. Strengthening Industry-Academia Collaboration

- Launched **IEEE Industry Hubs** with **TVS Motor and Harman**, fostering research and development in **ADAS, intelligent cockpit systems, and smart mobility**.
- Hosted **regional membership development programs, tech workshops, and startup incubation initiatives** with industry participation.

3. Flagship Technical Conferences and Summits

- Successfully organized **IEEE CONECCT, BTC, B-HTC, and IEEE R10 Student Summit**, bringing together **thousands of researchers, professionals, and students**.
- Focused on **cutting-edge areas like AI, cybersecurity, quantum computing, and sustainable technology**.

4. Expansion of Standards Awareness and Patent Education

- **IEEE Standards SIG** organized **workshops on standardization, patent filing, and intellectual property**, engaging industry and research professionals.
- The **Authors to Inventors Workshop** trained researchers in patenting strategies and commercialization.

5. Outreach and STEM Initiatives

- Conducted **33 STEM outreach programs**, impacting **3,100+ school students across Karnataka**.
- Launched the **Indian Language Technical Talks Series**, making IEEE content more accessible in **Kannada, Bengali, and other regional languages**.

6. Women in Engineering (WiE) and Young Professionals Empowerment

- Hosted **WiE Leadership Summits** and **Young Professionals (YP) Technical Bootcamps**, empowering students and early-career engineers with **career guidance, networking, and skill-building programs**.

Major Events (International & National)
1. IEEE CONECCT 2024 *(July 11-14, 2024 | Sterlings Mac Hotel, Bangalore)*

- **Theme:** *Harnessing Emerging Technologies for Viksit Bharat*
- **Attendees:** 300+ paper presentations, 15 technical tracks, 4 tutorials, keynote sessions, and expert panels.
- **Notable Speakers:** Experts from **Microsoft Research, IBM, IISc, Intel, Bosch, and Ericsson**.

- **Special Features:** Thought Leadership Forum (TLF), Women in Science and Engineering (WiSE) Forum.

2. Bangalore Technology Conclave (BTC) 2024 *(Nov 30 - Dec 1, 2024 | Sheraton Grand, Bangalore)*

- **Theme:** GenAI as an Anchor for a Sustainable Future: Redefining Possibilities
- **Focus Areas:** AI in **healthcare, sustainability, aerospace, defense, and Industry 5.0**.
- **Keynote Speakers:** Industry leaders from **Google, Red Hat, Samsung, DRDO, and IBM Research**.
- **IEEE Standards Contribution:** Special session on **IEEE's role in AI and technology standardization**.

3. Bangalore Humanitarian Technology Conference (B-HTC) 2024 *(Mar 21-22, 2024 | NMAM Institute of Technology, Nitte)*

- **Theme:** *Sustainable Development Goal 14 – Life Below Water*
- **Key Outcomes:** Focused on **water conservation, climate resilience, and ocean sustainability**.
- **Speakers:** Scientists from **ISRO, Ministry of Earth Sciences, National Remote Sensing Centre**.
- **Technical Tracks:** Research on **marine ecosystems, AI in environmental monitoring, and sustainable energy solutions**.

4. IEEE R10-Bangalore Section Student Summit 2024 *(Oct 5, 2024 | PESCE Mandya)*

- **Participants:** 250+ students, professionals, and IEEE leaders.
- **Workshops: Blockchain for sustainability, AI in semiconductor industries, IEEE funding opportunities**.
- **Special Sessions:** Hands-on **cybersecurity workshop, entrepreneurship incubation, and IEEE Day celebrations**.

5. IEEE Cyber-Physical Systems (CPS) Workshop *(Sep 20, 2024 | REVA University, Bangalore)*

- **Theme:** *Bridging Industry and Academia for Industry 4.0 and AI Integration*.
- **Speakers:** Experts from **Infosys, CDAC, MathWorks, Bosch, and PurpleSynapz Labs**.
- **Focus Areas: AI, ML, IoT, connectivity, cybersecurity, and autonomous systems**.

Major Chapter Activities

IEEE Bangalore Section's society chapters have been actively involved in organizing **technical workshops, conferences, and industry collaborations** to advance knowledge sharing and professional development. A significant focus has been on **emerging technologies such as AI, 6G communications, cybersecurity, power electronics, and vehicular technologies**. Several hands-on workshops on **VLSI chip design, smart grids, renewable energy, and electric vehicle advancements** were conducted in collaboration with **leading academic institutions and industries**. The section also played a key role in **developing IEEE Industry Hubs**, fostering deeper engagement between IEEE members and companies like **TVS Motor and Harman**, particularly in areas such as **autonomous vehicles, intelligent cockpit systems, and ADAS technology**. Another notable initiative was the **IEEE Standards SIG**, which held multiple **patent awareness sessions and**

innovation-driven workshops to encourage IEEE members to contribute to **global standardization and intellectual property development**. Furthermore, the section's chapters received several global and regional awards, recognizing their contributions to technical excellence, research, and community engagement.

<u>Major Student and Affinity Group Activities</u>

Student and affinity groups within the IEEE Bangalore Section have been instrumental in **expanding IEEE's reach, engaging young professionals, and fostering diversity in engineering**. The **IEEE R10-Bangalore Section Student Summit** at **PESCE Mandya** brought together over **250 students and professionals**, offering sessions on **blockchain, AI, semiconductor advancements, and research funding opportunities**. To **support student innovation and professional growth**, the section awarded **30 scholarships and three travel grants** to IEEE student members. The **Women in Engineering (WiE) Bangalore Section** focused on empowering women in STEM by hosting leadership panels, including the **Women in Early Career Leadership Panel at IEEE CONECCT 2024**, and conducting **STEM outreach programs in rural schools**, positively impacting over **3,100 students**. The **IEEE Young Professionals (YP) group** organized **Ethics Awareness Sessions, Startup Incubation Talks, and industry networking programs**, bridging the gap between academia and real-world applications. In terms of student engagement, **16 new student branches and 124 student branch chapters** were established, reinforcing IEEE's presence across academic institutions. Additionally, the section recognized outstanding student efforts by presenting the IEEE Bangalore Section Awards, acknowledging their contributions to technical education and IEEE engagement. Through these activities, the **IEEE Bangalore Section has successfully created a vibrant ecosystem of students, professionals, and researchers**, fostering knowledge exchange, leadership development, and industry collaboration.

- **Student Membership Expansion: 16 new student branches, 124 new student branch chapters added.**
- **IEEE WIE Bangalore: Hosted Women in Early Career Leadership panel at CONECCT 2024.**
- **IEEE Young Professionals (YP): Conducted Ethics Awareness Sessions, Start-up Incubation Talks.**

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

The Institute of Electrical and Electronics Engineers
IEEE- Bangalore Section

Balance Sheet as at 31st December, 2024

(Amount in INR)

Particulars	Note No	As at 31st December, 2024	As at 31st December, 2023
I. LIABILITIES			
1. Funds and Reserves			
(a) Corpus		20,000	20,000
(b) Committed Funds		-	-
(c) Uncommitted Funds			
General Reserve	2	2,06,87,142	2,27,52,450
		2,07,07,142	2,27,72,450
2. Current Liabilities			
(a) Trade Payables		38,404	18,000
(b) Other Current Liabilities	3	1,10,08,541	96,51,586
		1,10,46,945	96,69,586
Total		3,17,54,087	3,24,42,037
II.ASSETS			
1. Current Assets, Loans and Advances			
(a) Fixed Deposits		2,15,94,270	2,48,05,823
(b) Cash and Banks Balances		90,53,085	63,27,934
(c) Advances and other receivables	4	11,06,732	13,08,280
Total		3,17,54,087	3,24,42,037

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

Sheshagiri Kudva
Proprietor
Membership Number: 263023

T Srinivas
Chairman

ABHISHEK MAHESH APPAJI — Digitally signed by ABHISHEK MAHESH APPAJI Date: 2025.01.09 15:02:00 +05'30'

Abhishek M Appaji
Treasurer

Place: Bangalore
Date: 09 Jan 2025

Place: Bangalore
Date: 09 Jan 2025

Place: Bangalore
Date: 09 Jan 2025

The Institute of Electrical and Electronics Engineers

IEEE- Bangalore Section

Income and Expenditure Account for the year ended 31st December, 2024

(Amount in INR)

Particulars	Notes	For the year ended 31st December, 2024	For the year ended 31st December, 2023
INCOME			
I. Direct Income			
a) Revenue from Conferences and Events	4	91,31,608	67,71,625
b) HQ Funding and other Income related to operations	5	2,59,85,530	1,90,28,609
II. Other Income	6	19,79,026	21,36,847
Total revenue (I + II)		3,70,96,164	2,79,37,080
EXPENDITURE			
HQ Fund Transfer To Chapters/Student Chapters from HQ	7	2,05,58,300	1,56,09,402
Bangalore Section Support	8	46,56,592	2,86,500
Programme and Event Expenditure	9	1,12,60,417	73,57,441
Annual General Meeting Expenditure		16,52,694	10,73,517
Other Administrative and General Expenditure	10	10,33,469	7,09,021
Total Expenditure		3,91,61,472	2,50,35,881
Excess of Income Over Expenditure (Expenditure Over Income) transferred to General Fund (D-E)		(20,65,308)	29,01,199

Significant accounting policies   1

*Accompanying notes forms part of financial statements

In terms of our report of even date   For and on behalf of the Board of Trustees of

For Sheshagiri Kudva & Co   **IEEE Bangalore Section**

Chartered Accountants

Firm Registration Number: 024715S

Sheshagiri Kudva — Digitally signed by Sheshagiri Kudva

Sheshagiri Kudva   T Srinivas   Abhishek M Appaji

Proprietor   Chairman   Treasurer

Membership Number: 263023

ABHISHEK MAHESH APPAJI — Digitally signed by ABHISHEK MAHESH APPAJI Date: 2025.01.09 15:02:24 +05'30'

Place: Bangalore   Place: Bangalore   Place: Bangalore

Date: 09 Jan 2025   Date: 09 Jan 2025   Date: 09 Jan 2025

The Institute of Electrical and Electronics Engineers
IEEE-Bangalore Section
Notes forming part of the financial statements for the year ended 31st December, 2024

IEEE Bangalore Section is society of Electrical and Electronics Engineers registered under the Karnataka
Societies Registration Act,1960 with the registration number BLU-S707-2006-07

 Summary of significant accounting policies
1. **Basis of preparation**
The financial statements are drawn up based on historical costs .

2.Recognition of Income
Sponsorship, registration fee for events are recognized on the basis of receipts and as per the bank advice
available.The funds received from GIEEE are accounted as and when received.The funds received from HQ
and GIEEE on behalf of other chapters are transferred as per the instructions received .These are
reimbursements of expenses.

3.Committed Funds
The registration fees, sponsorship, awards and support funds received with a specific instruction and
understanding that are to be paid to other Chapters/Society and earmarked Events/Conference/Projects are
recognized when received by the section and when the disbursements are made, it is books as expense

4. Miscellaneous

i) The Society has kept all the unutilized amounts in the form of bank balances and term deposits with
scheduled banks, which are in conformity with section 11(5) of the Income Tax Act,1961

ii) Fixed Deposits are disclosed including accrued interest net of Tax Deducted at Source.

iii) The expenditure for conference/events are recognized in the year in which such conference/event is held
iv) Previous years' figures have been regrouped, wherever necessary.

In terms of our report of even date   For and on behalf of the Board of Trustees of
For Sheshagiri Kudva & Co   **IEEE Bangalore Section**
Chartered Accountants
Firm Registration Number: 024715S

Sheshagiri Digitally signed
Kudva   by Sheshagiri
            Kudva
Sheshagiri Kudva   **T Srinivas**   **Abhishek M Appaji**
Proprietor   **Chairman**   **Treasurer**
Membership Number: 263023

Place: Bangalore   Place: Bangalore   Place: Bangalore
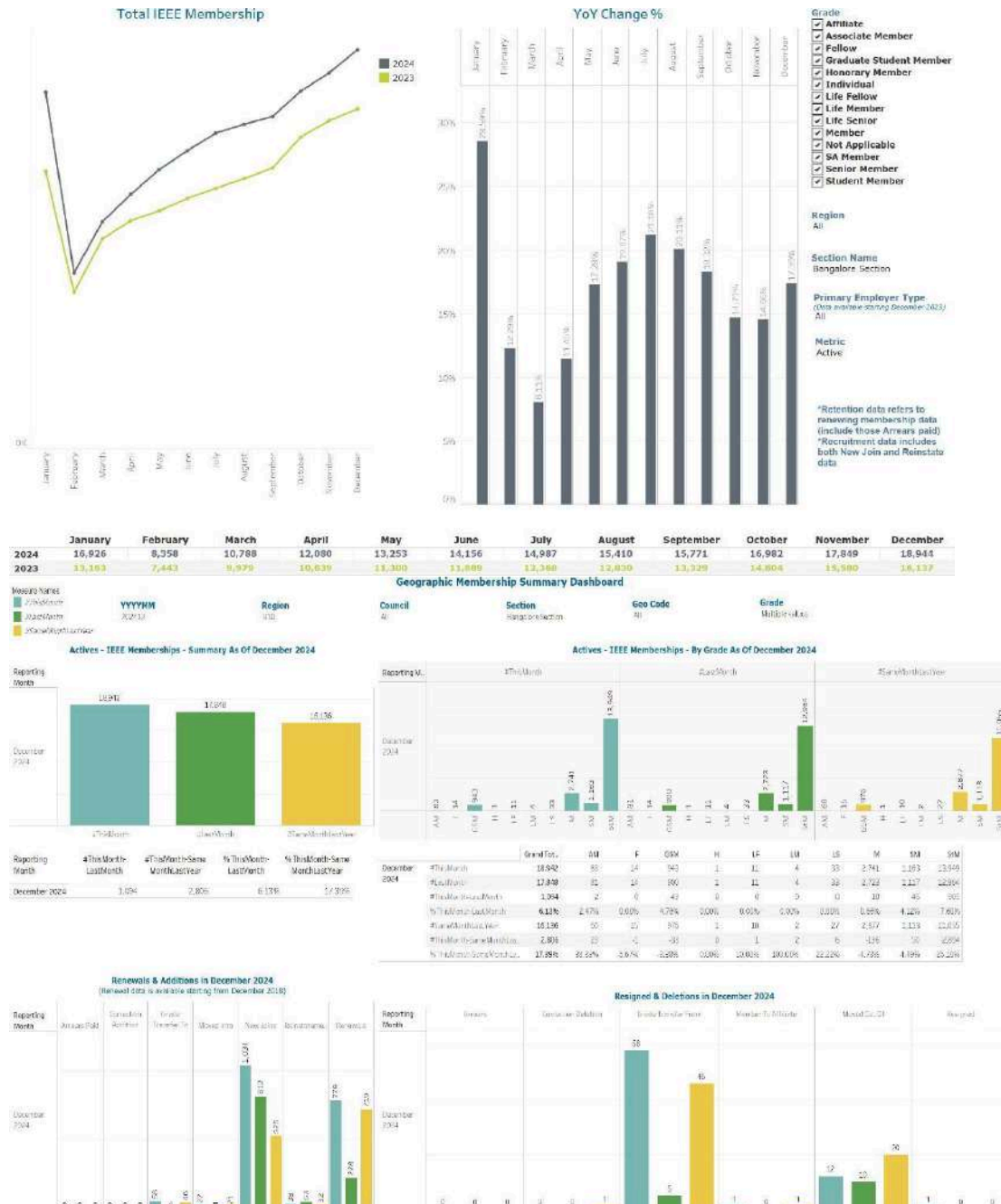Date: 09 Jan 2025   Date: 09 Jan 2025   Date: 09 Jan 2025

PART B - ORGANIZATIONAL ACTIVITIES

B.1 Membership Development Activities

● Total number of active members in the past 3 years.

	January	February	March	April	May	June	July	August	September	October	November	December
2024	16,926	8,358	10,788	12,080	13,253	14,156	14,987	15,410	15,771	16,982	17,849	18,944
2023	13,163	7,443	9,979	10,639	11,300	11,889	12,368	12,830	13,329	14,604	15,580	16,137

<u>Summary and evidence of work done to improve the value of membership, which leads to retention and growth of members</u>

This year, the Bengaluru Section has demonstrated remarkable dedication and effort in fostering growth and engagement among the student community. The section has actively worked towards expanding its reach by facilitating the opening of new student

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branches, which not only strengthens the regional network but also provides a platform for students to connect, collaborate, and innovate.

A total of 16 new student branches have been successfully established, showcasing the section's commitment to nurturing the next generation of engineering and technical professionals. These student branches include:

1. Jain Institute of Technology Student Branch
2. Christ University -Bangalore Central Campus Student Branch
3. Mysuru Royal Institute of Technology, MANDYA Student Branch
4. Impact College Of Engineering & Applied Sciences Student Branch in the Bangalore Section
5. AGM Rural College of Engineering and Technology Student Branch
6. Christ University - Yeshwanthpur Student Branch
7. ACS College of Engineering Student Branch
8. Atria University Student Branch
9. St Joseph's University Student Branch
10. RV University Student Branch
11. Visvesvaraya Technological University-Kalaburagi Student Branch
12. Gopalan College of Engineering and Management Student Branch
13. Visvesvaraya Technological University, Belagavi Student Branch
14. Maharaja Institute Of Technology-Thandavapura Student Branch
15. Shree Devi Institute of Technology Student Branch
16. East West Institute of Technology Student Branch

These institutions were meticulously mentored and provided with comprehensive assistance throughout the process of establishing their student branches. From the initial discussions to the final approvals, the Bengaluru Section extended unwavering support, ensuring a seamless experience for the colleges.

The opening of these student branches is a testament to the section's proactive approach in creating opportunities for students to engage in professional activities, gain exposure to the industry, and contribute to the technical community. By facilitating access to resources, workshops, and mentorship programs, these branches aim to empower students to excel academically and professionally.

This initiative reflects the section's larger goal of fostering a robust network of technically proficient individuals, enhancing collaboration between academia and industry, and ultimately contributing to the advancement of engineering and technology in the region.

The Bengaluru Section takes pride in these accomplishments and looks forward to continuing its journey of empowering students and promoting technical excellence.

Transformative Growth: Bangalore Section's Success in Mentoring and Opening 124 Student Branch Chapters in 2024

The year 2024 marked a monumental milestone for the Bangalore Section, as we proudly mentored and established **124** student Branch chapters across various colleges. This achievement not only symbolizes our relentless efforts to nurture young minds but also reaffirms our commitment to advancing education and professional development in science, technology, and engineering domains.

1. Alva's Institute of Engineering and Technology Geoscience and Remote Sensing Society Student Branch Chapter
2. Dayananda Sagar Academy of Technology and Management Computer Society Student Branch Chapter
3. Sai Vidya Institute of Technology and Engineering Management Society Student Branch Chapter
4. Sai Vidya Institute of Technology Aerospace and Electronic Systems Society Student Branch Chapter
5. BMS Institute of Technology Photonics Society Student Branch Chapter
6. BMS Institute of Technology Microwave Theory and Technology Society Student Branch Chapter
7. BMS Institute of Technology Aerospace and Electronic Systems Society Student Branch Chapter
8. BMS Institute of Technology Engineering in Medicine and Biology Society Student Branch Chapter
9. Nitte Meenakshi Inst Of Tech Education Society Student Branch Chapter
10. Oxford College Of Engineering Signal Processing Society Student Branch Chapter
11. BMS Institute of Technology Antennas and Propagation Society Student Branch Chapter
12. Peoples Education Society University Antennas and Propagation Society Student Branch Chapter
13. Dayananda Sagar College of Engineering Council on Electronic Design Automation Student Branch Chapter
14. Saint Joseph Engineering College-Mangalore Geoscience and Remote Sensing Society Student Branch Chapter
15. Gogte Inst Of Tech Robotics and Automation Society Student Branch Chapter
16. SJC Institute of Technology Computer Society Student Branch Chapter
17. Sai Vidya Institute of Technology Women in Engineering Student Branch Affinity Group
18. HKBK College of Engineering Circuits and Systems Society Student Branch Chapter
19. SJC Institute of Technology Antennas and Propagation Society Student Branch Chapter
20. GITAM University-Bengaluru Computer Society Student Branch Chapter
21. BNM Institute of Technology Vehicular Technology Society Student Branch Chapter
22. Christ University - Yeswanthpur Computer Society Student Branch Chapter
23. Malnad College of Engineering - Hassan Computational Intelligence Society Student Branch Chapter
24. BNM Institute of Technology Power & Energy Society Student Branch Chapter
25. BMS Institute of Technology Robotics and Automation Society Student Branch Chapter
26. BMS Institute of Technology Communications Society Student Branch Chapter
27. Christ University, Bangalore Computational Intelligence Society Student Branch Chapter
28. Siddaganga Inst of Tech Circuits and Systems Society Student Branch Chapter
29. Nitte Meenakshi Inst Of Tech Solid-State Circuits Society Student Branch Chapter
30. CMR Institute of Technology-Bangalore Computer Society Student Branch Chapter
31. Dayananda Sagar University-Bangalore Information Theory Society Student Branch Chapter
32. Manipal Institute of Technology Bengaluru Photonics Society Student Branch Chapter

33. Atria Institute of Technology Council on Electronic Design Automation Student Branch Chapter
34. Dayananda Sagar College of Engineering Industry Applications and Power Electronics Joint Societies Student Branch Chapter
35. HKBK College of Engineering Women In Engineering Student Branch Affinity Group
36. Basaveshwar Engineering College Computational Intelligence Society Student Branch Chapter
37. SJC Institute of Technology Communications Society Student Branch Chapter
38. SJC Institute of Technology Circuits and Systems Society Student Branch Chapter
39. Ramaiah Institute of Technology Robotics and Automation Society Student Branch Chapter
40. SJC Institute of Technology Photonics Society Student Branch Chapter
41. Sri Venkateshwara Coll of Eng-Bangalore Signal Processing Society Student Branch Chapter
42. Dayananda Sagar University-Bangalore Communications Society Student Branch Chapter
43. Dayananda Sagar Academy of Tech and Man Signal Processing Society Student Branch Chapter
44. Manipal Institute of Technology Bengaluru Geoscience and Remote Sensing Society Student Branch Chapter
45. Nitte Meenakshi Inst Of Tech Communications Society Student Branch Chapter
46. Christ University, Bangalore Vehicular Technology Society Student Branch Chapter
47. Amrita School of Engineering-Bangalore Systems Council Student Branch Chapter
48. Bangalore Institute of Technology Council on Electronic Design Automation Student Branch Chapter
49. P A College Of Engineering-Mangalore Signal Processing Society Student Branch Chapter
50. Sri Siddhartha Institute of Technology Circuits and Systems Society Student Branch Chapter
51. Reva University Antennas and Propagation Society Student Branch Chapter
52. Dayananda Sagar University-Bangalore Microwave Theory and Technology Student Branch Chapter
53. Presidency University - Bangalore Communications Society Student Branch Chapter
54. Presidency University - Bangalore Computational Intelligence Society Student Branch Chapter
55. Guru Nanak Dev Engineering College-Bidar Computer Society and Sensors Council Student Branch Chapter
56. Sri Venkateshwara Coll of Eng-Bangalore Education Society Student Branch Chapter
57. P A College Of Engineering-Mangalore Council on Electronic Design Automation Student Branch Chapter
58. Christ University, Bangalore Microwave Theory and Technology Student Branch Chapter
59. Vemana Institute of Technology Signal Processing Society Student Branch Chapter
60. KLE Dr. M.S. Sheshgiri College of Engg & Tech Power & Energy Society Student Branch Chapter
61. Vivekananda College of Engineering and Technology Communications Society Student Branch Chapter
62. Gogte Inst Of Tech Information Theory Society Student Branch Chapter

63. Cambridge Institute of Technology-Bengaluru Robotics and Automation Society Student Branch Chapter
64. Vemana Institute of Technology Robotics and Automation Society Student Branch Chapter
65. Vemana Institute of Technology Photonics Society Student Branch Chapter
66. Dayananda Sagar University-Bangalore Robotics and Automation Society Student Branch Chapter
67. BNM Institute of Technology Engineering in Medicine and Biology Society Student Branch Chapter
68. Bangalore Institute of Technology Geoscience and Remote Sensing Society Student Branch Chapter
69. Nitte Meenakshi Inst Of Tech Geoscience and Remote Sensing Society Student Branch Chapter
70. Guru Nanak Dev Engineering College-Bidar Computational Intelligence Society Student Branch Chapter
71. BMS Institute of Technology Computational Intelligence Society Student Branch Chapter
72. Sri Venkateshwara Coll of Eng-Bangalore Computer Society Student Branch Chapter
73. R N S Institute of Technology Consumer Technology Society Student Branch Chapter Peoples Education Society University Consumer Technology Society Student Branch Chapter
74. Sri Sairam College of Engineering Communications Society Student Branch Chapter
75. Presidency University - Bangalore Nanotechnology Council Student Branch Chapter
76. Dayananda Sagar College of Engineering Computer Society Student Branch Chapter
77. BNM Institute of Technology Geoscience and Remote Sensing Society Student Branch Chapter
78. GITAM University-Bengaluru Antennas and Propagation & Microwave Theory and Technology Joint Societies Student Branch Chapter
79. Dayananda Sagar College of Engineering Information Theory Society Student Branch Chapter
80. Sri Siddhartha Institute of Technology Sensors Council Student Branch Chapter
81. Dayananda Sagar University-Bangalore Signal Processing Society Student Branch Chapter
82. Alliance University Communications Society Student Branch Chapter
83. GITAM University-Bengaluru Women In Engineering Student Branch Affinity Group
84. Basaveshwar Engineering College Vehicular Technology Society Student Branch Chapter
85. Acharya Institute of Technology Women In Engineering Student Branch Affinity Group
86. East West Institute of Technology Women In Engineering Student Branch Affinity Group
87. Acharya Institute of Technology Power & Energy Society Student Branch Chapter
88. Reva University Sensors Council Student Branch Chapter
89. R N S Institute of Technology Information Theory Society Student Branch Chapter
90. R N S Institute of Technology Education Society Student Branch Chapter
91. AMC Engineering College Signal Processing Society Student Branch Chapter
92. Nitte Meenakshi Inst Of Tech Signal Processing Society Student Branch

Chapter

93. Basaveshwar Engineering College Communications Society Student Branch Chapter
94. K S School of Eng and Management Education Society Student Branch Chapter
95. R N S Institute of Technology Sensors Council Student Branch Chapter
96. Vidyashilp University Robotics and Automation Society Student Branch Chapter
97. Cambridge Institute of Technology-Bengaluru Power Electronics Society Student Branch Chapter
98. Acharya Institute of Technology Circuits and Systems Society Student Branch Chapter
99. Acharya Institute of Technology Education Society Student Branch Chapter
100. Mangalore Institute of Technology & Engineering Circuits and Systems Society Student Branch Chapter
101. Acharya Institute of Technology Aerospace and Electronic Systems Society Student Branch Chapter
102. Acharya Institute of Technology Communications Society Student Branch Chapter
103. PDA College Of Engrg Women in Engineering Student Branch Affinity Group
104. Reva University Systems, Man, and Cybernetics Society Student Branch Chapter
105. Bapuji Institute of Engineering & Technology Computer Society Student Branch Chapter
106. Rashtreeya Vidyalaya College of Engineering Aerospace and Electronic Systems Society Student Branch Chapter
107. Bapuji Institute of Engineering & Technology Computer Society Student Branch Chapter
108. Rashtreeya Vidyalaya College of Engineering Microwave Theory and Technology Society Student Branch Chapter
109. R N S Institute of Technology Communications Society Student Branch Chapter
110. Dayananda Sagar College of Engineering Industry Applications and Power Electronics Joint Societies Student Branch Chapter
111. Srinivas Institute of Technology-Mangaluru Geoscience and Remote Sensing Society Student Branch Chapter
112. Nitte Meenakshi Inst Of Tech Antennas and Propagation Society Student Branch Chapter
113. Dayananda Sagar University-Bangalore Council on Electronic Design Automation Student Branch Chapter
114. Dayananda Sagar College of Engineering Engineering in Medicine and Biology Society Student Branch Chapter
115. Dayananda Sagar Academy of Tech and Man Computer Society Student Branch Chapter
116. Alva's Institute of Engineering and Technology Geoscience and Remote Sensing Society Student Branch Chapter
117. Mysuru Royal Institute of Technology, MANDYA Aerospace and Electronic Systems Society Student Branch Chapter
118. SJB Institute of Technology Computational Intelligence Society Student Branch Chapter
119. Mysuru Royal Institute of Technology, MANDYA Communications Society Student Branch Chapter
120. Global Academy of Tech Communications Society Student Branch Chapter
121. Christ University-Bangalore Central Campus Computational Intelligence Society Student Branch Chapter
122. Sri Sairam College of Engineering Circuits and Systems Society Student

Branch Chapter
123. Bangalore Institute of Technology Electron Devices Society Student Branch Chapter
124. CMR University Women in Engineering Student Branch Affinity Group

MDC Team Activities

- Orientation Meeting: Conducted an orientation session to align the team and set clear objectives.
- Team Assessment: Implemented a peer assessment system to evaluate individual contributions and identify areas for improvement.
- MDC Challenge: Actively participated in the MDC challenge, focusing on circulation and promotion efforts.
- SB Development: Supported the establishment of new Student Branches and assisted existing ones in their growth.
- Communication Channel: Created a dedicated communication channel (MDC Announcement group) to facilitate information sharing and collaboration.

To **increase engagement and retain members**, IEEE Bangalore Section has implemented various initiatives:

1. **Industry Engagement & IEEE Industry Hubs**
   - Established **Industry Hubs with TVS Motor and Harman**, creating a platform for industry professionals to **collaborate on emerging technologies** like AI, autonomous vehicles, and cybersecurity.
   - Partnered with **IBM, Google, Red Hat, Samsung, and STMicroelectronics** to offer **mentorship, career development workshops, and hackathons**, attracting young professionals to IEEE.
2. **Student Membership Growth & Scholarships**
   - Formed **16 new Student Branches and 124 new Student Branch Chapters**, expanding IEEE's presence in academic institutions.
   - Awarded **30 scholarships and three travel grants** to IEEE student members, supporting research and professional development.
   - Conducted **IEEE R10-Bangalore Section Student Summit 2024**, engaging **250+ students** in networking, skill-building, and career guidance.
3. **Technical & Professional Development Programs**
   - Hosted flagship **conferences like IEEE CONECCT, Bangalore Technology Conclave (BTC), and Bangalore Humanitarian Technology Conference (B-HTC)**, offering members **exclusive technical workshops, networking opportunities, and access to thought leaders**.
   - Organized **regional language technical talks** in **Kannada and Bengali**, ensuring accessibility and inclusivity for local professionals and students.
   - Conducted **IEEE Standards and Patenting Workshops**, empowering members to contribute to global technological advancements.
4. **STEM Outreach & Community Engagement**
   - Impacted **over 3,100 school students** through **STEM education initiatives, robotics workshops, and science model demonstrations**, fostering **early interest in IEEE and engineering careers**.
   - Collaborated with **MOVE India and Pilikula Science Centre** to promote **engineering awareness and sustainability-focused projects**.

B.2 Chapter Activities

- Total number of Chapters in the Section : 29
- Number of Chapters formed in the current year: 0
- Number of active Chapters (Chapters who have reported required number of meetings during the year): 29
- Summary of Chapter activities (Chapter wise with attachment table/information)

OU Parent Name	Membership
Bangalore Section Affinity Group, WIE	4,637
Bangalore Section Affinity Group, YP	2,668
Bangalore Section Affinity Group,LM	39
IEEE Bangalore Section R-10 SIGHT	6,219

Bangalore Section Chapter, C16	3252
Bangalore Section Chapter, CAS04	3050
Bangalore Section Chapter, COM19	2181
Bangalore Section,SP01	1441
Bangalore Section Jt. Chapter, AP03/MTT17	1058
Bangalore Section Chapter, PE31	1003
Bangalore Section Chapter,IT12	789
Bangalore Section Chapter, AES10	706
Bangalore Section Chapter, PEL35	694
Bangalore Section Chapter, RA24	646
Bangalore Section Chapter, EMB18	643
Bangalore Section Chapter, CIS11	593
Bangalore Section Chapter, PHO36	545
Bangalore Section Chapter,VT06	471
Bangalore Section Chapter,E25	388
Bangalore Section Chapter, GRS29	363
Bangalore Section Jt. Chapter,ED15/SSC37	316
Bangalore Section Chapter, SIT30	281
Bangalore Section Chapter, IE13	255
Bangalore Section Chapter, EP21	228
Bangalore Section Chapter,IA34	149
Bangalore Section Chapter, TEM14	99
Bangalore Section Chapter, CT08	55
Bangalore Section Chapter,CS23	50
Bangalore Section Chapter, EMC27	41

B.3 Professional and Continuing Education Activities

IEEE Bangalore Section has been at the forefront of **professional and continuing education activities**, organizing a wide range of **conferences, technical workshops, training programs, and distinguished lecture series** to foster knowledge dissemination and skill development. The section has successfully hosted **flagship conferences** such as **Bangalore Technology Conclave (BTC), Bangalore Humanitarian Technology Conference (BHTC), and IEEE CONECCT**, covering cutting-edge topics in **artificial intelligence, telecommunications, semiconductors, and sustainable technologies**. These events have brought together **academicians, researchers, and industry experts** to discuss the latest advancements and innovations, providing participants with insights into emerging trends and research opportunities.

In addition to large-scale conferences, IEEE Bangalore Section has actively conducted **technical activities and training programs** tailored to students and professionals. The **5G & 6G Hackathon 2024**, organized in collaboration with industry partners, provided hands-on exposure to next-generation communication networks. **Workshops on Vedic Mathematics, AI/ML, and semiconductor technologies** were conducted under various IEEE subsections, including IEEE Mangalore Subsection and IEEE Bangalore YP, empowering students with practical skills. Moreover, **the IEEE Standards and Innovations Lecture Series**, featuring **domain experts from academia and industry**, has played a key role in spreading awareness about **IEEE Standards and their applications in real-world scenarios**.

Distinguished Lecture Programs (DLPs) have been a cornerstone of IEEE Bangalore Section's continuing education efforts. Several **Distinguished IEEE Fellows and industry veterans** have delivered insightful lectures on **emerging technologies, ethics, risk management, and entrepreneurship**, benefiting students, researchers, and professionals. **The IEEE Ethics and Risk Management Awareness Sessions, IEEE YP Industry Connect, and the Global Leadership Meet with MGA Leaders** further strengthened the section's commitment to professional development. Through these initiatives, IEEE Bangalore Section continues to bridge the gap between academia and industry, ensuring that its members stay ahead in the rapidly evolving technological landscape.

B.4 Students Activities

- Total number of Student Branches in the Section: 161
- Number of Student Branches formed in the current year: 16
- Section-level student activities (student congress, paper and other contests, awards etc)
- Number of active Student Branches (Student Branches who have reported required number of meetings during the year)

Student Branch	Student Branch SPO ID	SB Members	Count of SB Chapters/Affinity Groups
BMS College of Engineering	STB04431	1,087	11
Vemana Institute of Technology	STB14501	945	8

R N S Institute of Technology	STB05041	900	13
National Institute of Technology-Karnataka	STB98631	601	10
Sri Sairam College of Engineering	STB6020982 5	549	2
Visvesvaraya Univ College of Engrg	STB34411	513	6
Sai Vidya Institute of Technology	STB11371	485	15
Basaveshwar Engineering College	STB35261	410	10
Christ University-Bangalore	STB17341	401	8
HKBK College of Engineering	STB10041	371	6
Nitte Meenakshi Inst Of Tech	STB64731	297	16
Vivekananda College of Engineering and Technology	STB11471	282	2
Gogte Inst Of Tech	STB28191	279	6
Reva University	STB20146	271	18
National Inst of Engineering-Mysore	STB96261	268	6
Ramaiah Institute of Technology	STB62841	268	12
Amrita School of Engineering Bangalore	STB63931	258	10
Dayananda Sagar College of Engineering	STB66351	256	10
Bangalore Institute of Technology	STB34591	254	6
Vidyavardhaka College of Engineering	STB63251	248	8
Mangalore Institute of Technology & Engineering	STB15771	240	1

BMS Institute of Technology	STB14611	238	12
Rashtreeya Vidyalaya College of Engineering	STB11651	236	12
Siddaganga Inst of Tech	STB29521	213	4
Dayananda Sagar University-Bangalore	STB14026	191	10
KLE Societys Institute of Tech	STB15221	161	5
Jain College of Engineering-Belagavi	STB17291	155	2
Presidency University - Bangalore	STB10220	147	8
New Horizon College of Engineering	STB66131	143	7
SJB Institute of Technology	STB02521	143	3
Sahyadri College of Engg and Management	STB12251	133	1
Manipal Institute of Technology Bengaluru	STB60211132	128	5
Ballari Institute Of Technology & Management	STB10169	127	6
Jain College of Engineering and Research	STB60208149	127	0
BNM Institute of Technology	STB14831	122	10
V.P. Dr PG Hallakatti College of Eng & Tech	STB30721	113	0
PES College of Engineering-Mandya	STB96251	112	2
Sri Jayachamarajendra College of Engrg	STB28991	109	3

Jawaharlal Nehru National College of Eng-Shimoga	STB96171	108	2
Srinivas Institute of Technology-Mangaluru	STB60217025	105	1
Atria Institute of Technology	STB20234	104	8
KLE Dr. M.S. Sheshgiri College of Engg & Tech	STB50295	104	5
P A College Of Engineering-Mangalore	STB99368	103	12
Cambridge Institute of Technology-Bengaluru	STB11483	96	5
Manipal Institute of Technology	STB09891	84	10
SJC Institute of Technology	STB30281	84	8
The Oxford College Of Engineering	STB08641	80	5
Shri Madhwa Vadiraja Inst of Tech & Man-Bantakal	STB10147	77	0
K S School of Eng and Management	STB12681	76	3
Visvesvaraya Technological University, Belagavi	STB60136185	76	0
Alliance University	STB20204	74	2
Saint Joseph Engineering College-Mangalore	STB63401	73	6
GSSS Inst. of Engg and Tech for Women	STB17861	71	5
Kristu Jayanti College	STB18221	69	0
East West Institute of Technology	STB60051039	68	1
Christ University - Yeswanthpur	STB60220528	66	1

Yenepoya Institute of Technology	STB66433	64	0
BGS Institute of Technology-Mandya	STB50293	63	2
Government Engineering College-KR Pet	STB35733	62	0
Nagarjuna College of Engineering and Technology	STB15118	59	1
Alva's Institute of Engineering and Tech	STB60215368	58	1
Global Academy of Tech	STB15126	58	4
Navkis College of Engineering-Hassan	STB98724	57	1
JSS Academy of Technical Education-Bangalore	STB65781	54	1
Jyothy Institute of Technology	STB11454	53	2
S.G. Balekundri Institute of Technology	STB10219	49	0
AJ Institute of Engineering and Technology	STB60187184	47	0
AMC Engineering College	STB10076	46	1
GITAM University-Bengaluru	STB11697	46	3
Nitte Mahalinga Adyanthaya Mem Inst of Tech	STB34551	46	4
Lingaraj Appa Engineering College	STB60209665	45	1
Central University of Karnataka	STB14017	43	4
Mysuru Royal Institute of Technology, MANDYA	STB60223995	43	2

Adichunchanagiri Institute of Technology	STB98331	41	0
ATME College of Engineering	STB35744	39	0
Guru Nanak Dev Engineering College-Bidar	STB96281	39	7
Indian Inst of Science-Bangalore	STB06731	38	12
K S Institute of Technology	STB61941	38	2
M S Ramaiah University of Applied Scns-Bangalore	STB11443	38	1
Malnad College of Engineering - Hassan	STB02381	37	4
PES Institute of Technology-Bangalore	STB12711	36	4
Sri Siddhartha Institute of Technology	STB00362	36	2
CMR University	STB99405	35	1
MVJ College of Engineering	STB39481	35	0
KLS Vishwanathrao Deshpande Inst of Tech-Haliyal	STB99377	34	0
RV Institute of Technology and Management	STB60203427	32	0
SDM Institute of Technology	STB20238	31	0
Kalpataru Institute Of Technology-Tiptur	STB60206188	30	1
Shree Devi Institute of Technology	STB60105493	30	0
Vidya Vikas Institute Of Engineering & Technology	STB08181	30	3

Acharya Institute of Technology	STB12671	29	6
Sri Venkateshwara Coll of Eng-Bangalore	STB00641	29	5
Channabasaveshwara Institute of Tech	STB00421	28	0
Gopalan College of Engineering and Management	STB60220986	28	0
RV University	STB60220565	28	0
Vidyashilp University	STB60216867	28	1
Dr Timmaiah Instiutute of Technology	STB60215985	27	0
Prerana Educational Social Inst of Tech & Mgmt	STB11482	26	0
Sir M Visvesvaraya Inst Of Tech	STB35861	25	2
Bapuji Institute of Engineering & Technology	STB60024414	24	1
Dayananda Sagar Academy of Tech and Man	STB10123	24	3
ACS College of Engineering	STB60098947	22	0
CMR Institute of Technology-Bangalore	STB64241	22	2
Jain University	STB11393	22	0
Indian Institute of Technology Dharwad	STB60209646	21	0
Sri Krishna Institute of Technology	STB60215246	21	0
Atria University	STB60221429	20	0

Canara Engineering College	STB65001	20	1
HKE Societys SLN Col of Engin-Raichur	STB99080	20	1
Indian Institute of Information Technology-Dharwad	STB20229	20	2
Maharani Lakshmi Ammanni College for Women	STB60213259	20	1
St Joseph's University	STB60221389	20	1
Indian Inst of Information Tech	STB61861	19	0
Visvesvaraya Technological University-Kalaburagi	STB60220627	19	0
Bearys Institute of Technology	STB60114591	18	0
Amrita Vishwa Vidyapeetham-Mysuru	STB10113	17	1
Jain Institute of Technology	STB60226659	17	0
East Point College Of Engineering & Tech	STB03253	16	1
Maharaja Institute of Technology-Mysore	STB13661	16	4
Brindavan College of Engineering	STB60204116	15	0
RYMEC-Bellary	STB99412	15	0
BGS College of Engineering and Technology	STB60222565	14	0
Christ University-Bangalore Central Campus	STB60223518	14	1
Don Bosco Inst of Technology-Bangalore	STB05921	13	0

Peoples Education Society University	STB64051	13	7
Srinivas University	STB11770	13	0
AGM Rural College of Engineering and Technology	STB60225398	12	0
Impact College Of Engineering & Applied Sciences	STB60223865	12	0
Maharaja Institute Of Technology-Thandavapura	STB60219525	12	0
Pda College Of Engrg	STB35841	12	2
RajaRajeswari College of Engineering-Bangalore	STB20210	10	0
SDM College of Engg & Tech-Dharwad	STB35740	10	3
Moodlakatte Institute of Technology	STB99404	9	0
Sharnbasva University-Kalaburagi	STB35739	8	4
S.E.A. College of Engineering & Technology	STB60215965	7	0
Cambridge Inst of Tech North Campus	STB60213565	6	0
Dr Ambedkar Inst of Tech	STB30191	4	0
T. John Institute of Technology	STB09621	4	0
VTU Extension Center UTL Tech Ltd	STB07971	2	0
Basavakalyan Engineering College	STB62061	1	0
Kuvempu University	STB11641	1	1
Reva Institute of Technology and Management	STB05221	1	3

Sambhram Institute Of Technology	STB06681	1	1
Shetty Institute of Technology	STB60211833	1	0
The National College, Basavanagudi	STB11524	1	0
Angadi Institute of Technology & Management	STB60211972	0	0
B V B College of Eng & Tech-Vidyanagar	STB62711	0	0
Ghousia College of Engineering	STB65081	0	0
Government Engineering College-Kushalnagar	STB64632	0	0
Govt S K S J Technological Institute	STB12281	0	0
KCT Engineering College	STB99098	0	1
KLE Society's College of Engrg	STB36281	0	1
KNS Institute of Technology	STB03041	0	0
Khaja Bandanawaz University	STB30541	0	0
Mangalore University	STB2530823	0	1
Maratha Mandal Engineering College	STB10861	0	0
NIE Institute of Technology	STB18781	0	0
R. L. Jalappa Institute of Technology	STB10009	0	0
Soundarya Institute of Management and Science	STB6021336 7	0	0
The National College Jayanagar	STB10218	0	0

Vivekananda Institute of Technology	STB12911	0	0

A total of **16 new student branches** have been successfully established, showcasing the section's commitment to nurturing the next generation of engineering and technical professionals. These student branches include:

1. Jain Institute of Technology Student Branch
2. Christ University -Bangalore Central Campus Student Branch
3. Mysuru Royal Institute of Technology, MANDYA Student Branch
4. Impact College Of Engineering & Applied Sciences Student Branch in the Bangalore Section
5. AGM Rural College of Engineering and Technology Student Branch
6. Christ University - Yeshwanthpur Student Branch
7. ACS College of Engineering Student Branch
8. Atria University Student Branch
9. St Joseph's University Student Branch
10. RV University Student Branch
11. Visvesvaraya Technological University-Kalaburagi Student Branch
12. Gopalan College of Engineering and Management Student Branch
13. Visvesvaraya Technological University, Belagavi Student Branch
14. Maharaja Institute Of Technology-Thandavapura Student Branch
15. Shree Devi Institute of Technology Student Branch
16. East West Institute of Technology Student Branch

Section level student activities

The **IEEE Bangalore Section** has been at the forefront of fostering student engagement through **conferences, competitions, and awards**, creating platforms for **technical learning, leadership development, and innovation**. In 2024, the section successfully organized multiple student-focused initiatives that significantly **enhanced student participation and IEEE membership growth**.

One of the most notable events was the **IEEE R10-Bangalore Section Student Summit 2024**, held at **PESCE Mandya**, which brought together **over 250 students** from across Karnataka. The summit featured **technical talks, hands-on workshops, and mentorship sessions** delivered by **industry experts from IBM, Google, and Red Hat**. Topics such as **blockchain, AI, semiconductor technology, and sustainability** were covered, helping students bridge the gap between academic learning and industry requirements.

To **encourage research and innovation**, the section also conducted **paper presentation contests and project showcases**, particularly during **IEEE CONECCT 2024** and the **Bangalore Humanitarian Technology Conference (B-HTC 2024)**. These competitions saw **300+ research papers presented**, with students actively contributing to **emerging fields like cyber-physical systems, AI, and sustainable technologies**.

Recognizing student excellence, the section awarded the **IEEE Student Branch Digital Presence Award** to **RV College of Engineering** for outstanding engagement in IEEE activities. Additionally, **30 student scholarships and three travel grants** were awarded to support IEEE student members in attending international conferences and furthering their research.

The **IEEE Bangalore Section also supported student-led technical contests and hackathons**, including coding competitions, AI challenges, and robotics contests organized by **various student branches**. The **STEM outreach program** engaged **3,100+ school students** across Karnataka, promoting IEEE's mission of technological advancement and inspiring future engineers.

Through these student-centric activities, the **IEEE Bangalore Section continues to empower young engineers**, ensuring they gain valuable **technical exposure, professional networking opportunities, and leadership development**, while fostering **stronger IEEE student branch engagement**.

B.5 Affinity Group Activities

Young Professional (YP)

IEEE Bangalore Section Young Professionals (YP) led several impactful initiatives throughout the year, fostering technical excellence, career development, and industry collaboration. Flagship events like the **Entrepreneurship Challenge, CONECCT 2024 Workshops and** brought together thought leaders, researchers, and professionals to discuss cutting-edge advancements in emerging technologies. The **IEEE Young Professionals Student Industry Connect (YPSIC) 2024** created a bridge between students and industry experts, providing valuable career guidance and networking opportunities. The **Young Professionals Leader's Forum** was another milestone event featuring global IEEE leaders, facilitating discussions on leadership, innovation, and future technological trends. Additionally, the **RISE series**—covering semiconductor, EMI/EMC, and Cloud & AI industries—provided young engineers with deep insights into specialized career pathways, ensuring they stay ahead in evolving domains.

Beyond technical events, IEEE Bangalore Section YP focused on fostering innovation and social responsibility. The **24-Hour Rapid Innovation Challenge** and the **Institute Innovation Challenge** encouraged participants to develop impactful solutions aligned with patenting and real-world applications. In the education sector, the **EduEmpower Book Collection and Distribution Drive** supported underprivileged students by providing essential learning resources and STEM education. The section also held regular **Execom meetings** to refine strategies, enhance engagement, and plan future initiatives. To strengthen team bonding and recognize contributions, the **YP Affinity Group Team Outing** served as a platform for reflection and planning. With a blend of professional development, technical advancements, and community outreach, IEEE Bangalore Section YP continues to empower young professionals and drive meaningful change.

Women In Engineering (WIE)

Women in Engineering Bangalore Section Affinity Group, (WiE BSAG) has been awarded the IEEE WIE Affinity Group (AG) of the Year Award 2022 from WiE MGA with past chair Dr Kuxmudhini Ravindra awarded, Outstanding WiE Volunteer 2024 and Ms Sadhana Attavar Nominated Outstanding WiE Volunteer of the year 2023 and nominated Outstanding Large

Chapter Award from IEEE Bangalore Section in 2022, is one of the most vibrant section AGs in India and across R10. The 2024 theme and goals set by the chair Ms Ashwini V R Ottige (Together) , goal: (i)Ottige Beleyona, Ottige Irona, Ottottige maadona - to strengthen cohesiveness in WiE and build a strong member base (ii) Provide value addition to members from Student GSM and professional Community and brainstorm how to and why and design strategies to deliver it. Membership growth of 46% with current membership of 6367 with 5778 student members was made possible by planning and creating enough opportunities.

Conferences and Conclaves:

- Flagship event International Conference ICWITE 2024 was held during Feb 16 & 17 with over 860 paper submissions with 263 accepted papers and over 20 speakers and poster sessions.
- Cosponsored WinTechCon - Women in Technology Conference led by women in semiconductor domain, along with CASS and was benefitted from the industry participation with demo booths and poster sessions and live discussions.
- Panel discussion from veteran Industry leaders and rising stars to look for ways to succeed thrive and flourish as women leaders were arranged by WiE in CONECCT 2024, NKCon 2024.
- Returning Mothers Conference Nov 15,16 a conclave for promoting women in second innings of career has been a huge hit among the community with increasing footfall every year.

- **Meets / Congress**
  - **Try-engineering funded** Project Based Learning camp with AWS March 11.
  - **R10 Section AG, chapter Chairs meet on Engagement of women in IEEE** hybrid mode: under aegis of Bangalore Technology Conclave BTC Nov 30
  - WiE Congress at SJBIT March 22, student Congress at MysSS, VVCE on July 6th, R10 funded Student Congress PESCE Mandya Oct 5, aimed at bridging the talent/skills gap and apprise members reg career options
- **Industry Connect Program**
  - **Lecture series : Hardware for AI** in collaboration with CASS Bangalore
  - **Regional Industry Conclave** for Translational Research & promoting Entrepreneurship in Women under BTC Dec 1
- **Pre-University/School Relations Program,** School outreach program initiated from the section had 23 respondents interact with 33 different schools and an ATL workshop with 89 students from 9 schools discuss strategies for using technology for disaster mitigation and climate change
- **Partnership : Societies** - AESS and AP MTT , Computer Society, CASS, ComSoc, EMBS, PELS, Photonics, SSIT, SPS, TEMS, AG : SIGHT and YP
- **Partnership :Industries** , GIEEE Philanthropy India and Quest Global Scholarship for 401 girls and RWEP 164 returnees in Karnataka region, **Wequity** - ConnectX - lecture series Feb 28, **Aspire for Her and AWS** for Training and Upskilling of returnees
- **Observance days**
  National Science Day 2024: Feb 26, in association with CEDA, MSS and YP, International Womens day IWD speakers from across IEEE regions March 8, YOGA day May 21., World envt Day in association with SSIT at IISC June 6, Day for the Differently abled Dec 3.

The AG added 6 new SB Affinity Groups and revitalized engagement with a few SBAs via SBA grants or support

Awards to recognize contributions to the wie community through volunteering were increased in numbers for students and academia (i) Outstanding Student Volunteer of the Year 2024 (increased to 3) (ii) Outstanding Student Branch Chapter of the year 2024; (iii) Outstanding Volunteer of the year 2024 (Academia) increased to 3 (iv). Outstanding Volunteer of the year 2024 (Industry)

IEEE Bangalore Section Life Members Affinity Group (LMAG) is actively driving discussions on cutting-edge technological advancements through a series of impactful events. On **June 27, 2024**, LMAG hosted a webinar on **"Wireless Communications Beyond 5G – 5G Advanced Moving to 6G,"** featuring **Dr. M.H. Kori**, a Distinguished Fellow of IETE, who provided valuable insights into the future of wireless connectivity. Following this, on **July 11, 2024**, LMAG is co-organizing the **IEEE Bangalore Section Thought Leadership Forum** with the theme **"Connecting India: Path to Unmatched Connectivity"**, bringing together experts from industry and academia to explore advancements in **5G, fiber optics, digital inclusion, regulatory frameworks, and cybersecurity challenges**. Additionally, another **IEEE Bangalore Section event** under LMAG's leadership is set to **delve into the transformative journey of India's telecom sector**, fostering innovation and collaboration for enhanced nationwide connectivity. Through these initiatives, LMAG continues to strengthen its role in shaping the future of technology by engaging experts, professionals, and researchers in meaningful dialogue.

B.6 Awards & Recognition Activities

- Award constituted by the Section

Name of the Award	Name of the Awardee
IEEE Bangalore Section Medal of Honor	Shri. Puneet Kumar Mishra
IEEE Bangalore Outstanding Large Student Branch	RNS Instiute of Technology
IEEE Bangalore Outstanding Medium Student Branch	P A College of Engineering
IEEE Bangalore Outstanding Large Student Branch Councellor	Prof. Ankita Arun, Vemana Institute of Technology, Bangalore.
IEEE Bangalore Outstanding Medium Student Branch Councellor	Dr. Parameshachari B D Nitte Meenakshi Institute of Technology, Bangalore.
IEEE Bangalore Outstanding Small Student Branch Councellor	Dr. Rakhee Kallimani KLE Dr. MS Sheshgiri Campus, Belagavi.
IEEE Bangalore Outstanding Student Branch Digital Presence Award	National Institute of Technology, Mysore.
IEEE Bangalore Most Promising Student Branch	Sai Vidhya Institute of Technology, Bangalore
IEEE Bangalore Outstanding Large Chapter / Affinity Group	IEEE AP/MTT Bangalore Joint Chapter (CH10470)
IEEE Bangalore Outstanding Young Professional Volunteer	Aniruddha P Koundinya, CGI - Bangalore
	Vamsi Krishna Addepalli, Comedkares Innovation Hub, Mysore

IEEE Bangalore Outstanding WIE Volunteer	Ashwini Appaji, BMSCE
	Vijayashree, ISRO - Bangalore
IEEE Bangalore Outstanding Volunteer	Dr. Devanathan M, REVA University, Bangalore.
IEEE Bangalore Outstanding Student Volunteer	Sonali Godhe, BMSCE - Bangalore
	Aarya Mahajan, KLS GIT
	K P Suprith Patil, NMIT - Bangalore
	Shamanth K S, SIT - Tumkur
	Chandraprakash Shankar Naik, VCET - Puttur

- Please list all Awards and Recognitions received by the Section, and members in the Section, from R 10 and IEEE HQ during the year

Awards & Recognition

- 2024 IEEE MGA Innovation Award: Sudheendra Koushik (for IEEE Ethics Champion Program).
- 2024 IEEE WIE Global Outstanding Volunteer Award: Kumudhini Ravindra.
- 2024 IEEE R10 Outstanding Volunteer Award: Dr. Aloknath De.
- IEEE India Council Awards:
  - Technologist of the Year: Dr. Aloknath De & Madhan Raj Kanagarathinam.
  - Outstanding Student Branch: Nitte Meenakshi Institute of Technology.
  - Outstanding Student Volunteer: Suhas Hatti.
- Astronautical Society of India Aryabhata Award: Dr. Surendra Pal (for contributions to astronautics).
- Fellowship Recognition: Dr. Chandrakanta Kumar elected as Fellow, National Academy of Sciences, India.

- **Dr. Sudeendra Koushik -** President-Elect 2024-2025, IEEE TEMS
- **Shri. Puneet Kumar Mishra**
  - IEEE AESS, VP - Education (2025-2026)
  - IEEE AESS Distinguished Lecturer (2025-2026)
  - IEEE AESS International Director Chair
  - Member, Technical Panel on GlueTecn Technologies for SPACE
  - Member, Technical Committee -8: Aeronautics and Space, of EMC Society
- **Smt. Sadhana Attavar**
  - Member IEEE HTB (Humanitarian Technology Board) 2025
  - Member IEEE History Committee 2025-26
  - Chair IEEE WIE ILS Subcommittee 2025

- **Dr. Abhishek Appaji**
    - Treasurer, IEEE EdSoc (2025-2026)
    - MGA Chapter Operations Support Committee. 2025
- **Shri. Anindya Saha**
    - Marketing Standing Committee, IEEE ComSoC (2024-2025)
    - Member Services Board, IEEE ComSoc (2024-2025)
- **Dr. Kumudhini Ravindra-** Industry & Entrepreneurship Adhoc Committee IEEE WIE (2025)

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

URL: IEEE Bangalore Section Website
Update Frequency: Monthly

Several new features and enhancements have been incorporated to provide a unique and improved user experience. Notable additions include:

1. **Dedicated Chat Bot:** A chatbot section has been integrated into the website to provide frequently asked questions (FAQs) with relevant answers and helpful links. This interactive feature enhances user engagement and provides prompt assistance. (Improvements are ongoing to refine Q&As and reduce response time.)
2. **Light/Dark Mode:** A cutting-edge feature allowing users to switch between light and dark modes on the website. This innovation sets the IEEE Bangalore website apart from any other IEEE website globally.
3. **Enhanced Search Functionality:** An advanced search feature has been introduced, enabling users to search for specific information or articles. The search also supports keywords, improving overall user experience and ease of navigation.
4. **Webex Request Form:** A Webex request form has been added, allowing users to submit their details and requirements for organizing Webex meetings or events. This form streamlines the process for both requesters and coordinators.
   Webex Request Form
5. **Reimbursement Request Form:** To simplify the reimbursement process, a dedicated form has been included on the website. Users can now submit their reimbursement details, including expenses and relevant documentation, for a hassle-free process.
   Reimbursement Request Form
6. **Enotice Request Form:** A new enotice request form enables users to submit specific details and content for enotices. This ensures accurate information submission and efficient distribution of notices within the IEEE Bangalore community.
   Enotice Request Form

Other Means of Contact with Section Members (Social Media Handles)

Information on all IEEE Bangalore Section events can be found on the following social media platforms:

- **YouTube:** IEEE Bangalore Section YouTube
- **Facebook:** IEEE Bangalore Section Facebook
- **Instagram:** IEEE Bangalore Section Instagram
- **LinkedIn:** IEEE Bangalore Section LinkedIn
- **Twitter:** IEEE Bangalore Section Twitter

B.8 Industry Relations

- Membership growth and retention
- Activities for/with industrial members

The **IEEE Bangalore Section** has actively worked towards strengthening its **engagement with industry professionals** to drive **membership growth, retention, and technical collaborations**. Recognizing the importance of industry participation in IEEE, the section has introduced various initiatives to attract **young professionals, researchers, and corporate members**. The establishment of **IEEE Industry Hubs**, in partnership with companies like **TVS Motor and Harman**, has provided industry members with a **dedicated platform for**

knowledge sharing, problem-solving, and networking. These hubs focus on cutting-edge areas such as autonomous vehicles, AI-driven automation, and cybersecurity, enabling IEEE members to collaborate on real-world technological challenges. Additionally, the section has leveraged its strong connections with leading technology firms such as IBM, Google, Samsung, and Red Hat to offer exclusive mentorship programs, industry-sponsored hackathons, and career development opportunities for IEEE members. These efforts have contributed to steady membership growth and higher retention rates among professionals, ensuring that IEEE remains a valuable platform for career advancement and technical excellence.

To further enhance industry participation, the IEEE Bangalore Section has organized high-impact technical events and conferences tailored for industry professionals. The Bangalore Technology Conclave (BTC) 2024, themed "GenAI as an Anchor for a Sustainable Future: Redefining Possibilities" attracted a diverse group of corporate leaders, entrepreneurs, and researchers, showcasing how AI can be leveraged for social good and sustainable development. The IEEE CONECCT 2024 conference, held at IISc Bangalore, served as another key event for industry-academia collaboration, featuring technical workshops, keynote speeches from global leaders, and research presentations on next-generation technologies. Additionally, specialized professional development workshops on IEEE standards, intellectual property, and emerging industry trends have been conducted in partnership with major corporations. These initiatives have not only strengthened IEEE's engagement with industry professionals but have also provided IEEE members with access to industrial research, exclusive training programs, and career growth opportunities. By continuously fostering collaborations between industry and academia, the IEEE Bangalore Section remains at the forefront of technological innovation and professional networking.

B.9 Humanitarian Technology Activities
IEEE SustainFiesta 2024 – Unleash Your Green Innovations

Overview: IEEE SustainFiesta 2024, held on **October 1, 2024**, was organized by the IEEE Bangalore Section's Special Interest Group on Humanitarian Technology (SIGHT) in collaboration with IEEE Bangalore SAC and RV College of Engineering (RVCE). The event was a major platform for budding engineers and technologists to showcase innovative, tech-driven solutions for pressing social and environmental issues. The daylong event attracted **47 teams from various colleges across Karnataka** who came together to propose sustainable solutions leveraging modern technology.

Keynote Address: The event was inaugurated by **Kumar Rajamani**, Associate Director of Cropin Technologies. His keynote address emphasized the need for **data-driven solutions in agriculture** and sustainable practices. Highlighting Cropin's pioneering work in agritech, Rajamani discussed how digitalization, AI, and machine learning are reshaping agriculture to make it more resilient, efficient, and environmentally conscious. His message inspired participants to consider how technology can act as a bridge between traditional practices and modern sustainability goals.

Notable Dignitaries and Guest Speakers: In addition to Rajamani, the event featured a lineup of esteemed speakers from diverse sectors:

- **Dr. K.N. Subramanya**, Principal, RV Engineering College, shared his thoughts on the pivotal role of educational institutions in driving innovation and research in sustainable technology.

- **Chetan Anand**, Information Security and CISO at Profinch Solutions, spoke on the importance of cybersecurity in smart cities and the future of interconnected infrastructures.
- **Colonel Jai Govind**, Assistant Professor at Christ University, brought in a unique perspective on sustainable development from a military and logistical standpoint.

Inaugural Address: Dr. Chengappa Munjandira, Senior Technologist at HP Enterprise and Chair of IEEE SIGHT Bangalore Section, delivered a compelling inaugural address. Dr. Munjandira underscored the **importance of nurturing young talent** and encouraged participants to adopt an interdisciplinary approach to engineering. "Engineering is not just about gaining knowledge but about envisioning a sustainable future and leveraging technology to bring it to reality," he stated. Dr. Munjandira stressed that technologies like **AI and Blockchain** hold immense potential in addressing complex global challenges, such as **climate change, water scarcity, and food security**. His words emphasized the significance of engineering in achieving the United Nations Sustainable Development Goals (UNSDGs).

IEEE Day Celebration: The event coincided with **IEEE Day**, a celebration of the global IEEE community's commitment to using technology to improve humanity. This milestone brought additional recognition to IEEE's mission, inspiring participants to contribute meaningfully to society through their technical expertise.

Student Participation and Project Highlights: The event saw **47 participating teams** from colleges across Karnataka, each presenting solutions aimed at addressing specific UNSDGs. Projects spanned diverse areas, including:

- **Smart Cities**: Teams showcased ideas for efficient urban planning, renewable energy grids, and IoT-enabled waste management systems.
- **Agriculture**: Innovations focused on precision agriculture, water-efficient irrigation systems, and climate-resilient crop management using AI and ML.
- **Climate Action**: Solutions targeted renewable energy technologies, pollution reduction, and sustainable water resource management.

The projects demonstrated a strong sense of responsibility among students toward creating a sustainable future, and each solution was evaluated on criteria such as innovation, feasibility, and potential impact on society.

Panel Discussions and Interactive Sessions: In addition to presentations, the event included **panel discussions and interactive sessions** where students engaged with experts to gain deeper insights into topics such as **sustainable engineering, the future of smart cities, and technological humanitarianism**. These sessions encouraged active participation and fostered a collaborative environment for learning and exchange of ideas.

Closing Ceremony and Award Distribution: IEEE SustainFiesta 2024 concluded with a **closing ceremony** where the winning teams were awarded for their exceptional ideas and contributions. Prizes were awarded based on innovation, social impact, and the viability of their solutions. This recognition not only celebrated the students' hard work but also encouraged further exploration and research in sustainable technologies.

Final Thoughts: IEEE SustainFiesta 2024 served as a reminder of the role young engineers and technologists can play in shaping a sustainable future. The event underscored the importance of interdisciplinary research and the need for academia-industry collaborations in solving global challenges. Through initiatives like IEEE SIGHT and events such as SustainFiesta, IEEE continues to fulfill its mission of advancing technology for the benefit of humanity, motivating the next generation to harness the power of engineering for a better world.

B.10 Community Activities

IEEE Social activities (Family day, IEEE day, Engineers Week)

The **IEEE Bangalore Section** has actively engaged in **social and community-driven activities** to foster a sense of belonging among IEEE members while promoting **engineering awareness and outreach**. As part of **IEEE Day 2024**, the section organized a **celebratory event during the IEEE R10-Bangalore Section Student Summit at PESCE Mandya**, where students, young professionals, and senior IEEE members came together for a **cake-cutting ceremony, networking sessions, and interactive discussions on IEEE's global impact**. This event provided a platform for members to reflect on **IEEE's contributions to technology and innovation**, while also encouraging new participants to join IEEE and explore its benefits.

In addition, **Engineers Week 2024** was celebrated with **technical talks, hackathons, and STEM outreach programs**, particularly targeting **students in rural areas**. Collaborating with **NGOs like MOVE India and Pilikula Science Centre**, IEEE Bangalore volunteers conducted **interactive sessions, science model demonstrations, and hands-on workshops on robotics, coding, and AI**, reaching over **3,100 school students**. This initiative aimed to **inspire young minds** to pursue careers in engineering and technology, ensuring IEEE's mission extends beyond academic and professional circles into grassroots education.

Beyond structured IEEE events, the section also hosted **family-friendly gatherings and networking meetups** to strengthen community bonds. The **IEEE ExCom team organized an informal networking retreat at Shilhaandara Resort**, allowing volunteers, industry professionals, and their families to connect in a relaxed environment. These activities not only fostered **camaraderie among IEEE members** but also reinforced IEEE Bangalore Section's commitment to **building a strong and inclusive community** that values both professional growth and social engagement.

PART C - OTHERS

C.1   Special Events

- Please briefly describe the importance of special events and the outcomes achieved

The IEEE Bangalore Section in 2024 organized a diverse range of special events, each designed to drive technological innovation, professional development, and collaboration across academia, industry, and research communities. **IEEE RISE 2024**, held at Maharaja Institute of Technology, Mysore, focused on the theme of EMI/EMC, bringing together 170+ students, academics, and professionals to discuss advancements in the domain. The **Bangalore Technology Conclave (BTC)**, one of the section's premier events, served as a hub for discussions on emerging technologies, fostering networking opportunities and industry partnerships. Additionally, **SPACE 2024**, the SPace, Aerospace, and defenCE conference, provided a platform for key stakeholders to deliberate on cutting-edge developments in aerospace and defense technologies. The section also actively contributed

to **5G & 6G Hackathon 2024**, a 30-hour challenge where innovators worked on next-generation network solutions.

Academic engagement was at the forefront with flagship conferences such as **MysuruCon 2024**, hosted by the IEEE Mysore Subsection, which saw over **1000 research papers submitted**, making it one of the most significant academic gatherings of the year. Furthermore, the **IEEE Standards Workshop** at Amrita Vishwa Vidyapeetham, Mysuru, introduced participants to critical IEEE standards like **IEEE 7009-2024 Fail-Safe Design and IEEE 802.11 WiFi Standard**, bridging the gap between academia and industry practices. In line with its commitment to ethical technology, the section played a major role in **IEEE Ethics and Risk Management initiatives**, conducting **Ethics Student Contests and Young Professionals awareness sessions** that impacted over 1300 students across 33 IEEE sections. Additionally, the **IEEE Student Congress** at Vidyavardhaka Engineering College brought together 200+ student leaders, fostering leadership, innovation, and IEEE community engagement.

The IEEE Bangalore Section also prioritized **community-driven and sustainability initiatives**. **World Ethics Day 2024** was commemorated with awareness campaigns and panel discussions on the role of ethics in engineering and AI. The **Environment Day 2024 Save Water Campaign** at Kukkarhalli Kere, Mysore, engaged 70+ volunteers, including Leo Club members, in spreading awareness about water conservation. **IEEE Day 2024** was celebrated with widespread student branch participation, supported by IEEE Bangalore Section's funding for **technical events across institutions** like NIE, SJCE, and ATME College of Engineering. The section also leveraged its expertise to organize **National Science Day 2024**, featuring a theatrical play, **QED**, depicting the life of Nobel Laureate Richard Feynman. By integrating technical, ethical, and sustainability-focused initiatives, IEEE Bangalore Section's special events in 2024 left a lasting impact on the engineering community, shaping future leaders and fostering a strong culture of innovation.

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

- Nature of relationship and details of any formal agreement signed
- Details of joint activities
- Benefit to IEEE members (for example discounts, access to technical information etc.)
- Benefit to Section (for example help in membership development, venue facilities, cost saving etc.)

The **IEEE Bangalore Section** maintains strong relationships with **national and international societies, as well as non-government organizations (NGOs)**, fostering collaboration in **technical advancements, professional development, and humanitarian initiatives**. These partnerships are essential for driving IEEE's mission of advancing technology for the benefit of humanity.

The IEEE Bangalore Section has **formal and informal collaborations** with several national and international professional bodies such as **IETE (Institution of Electronics and Telecommunication Engineers), IEI (Institution of Engineers India), DRDO, ISRO, IISc, and industry consortia**. Additionally, partnerships with **NGOs like MOVE India, Pilikula Science Centre, and social impact organizations** help drive outreach and STEM education programs. **Memorandums of Understanding (MoUs) and partnership agreements** have been signed with select institutions to support joint activities and knowledge exchange.

Collaborative activities include **technical conferences, knowledge-sharing sessions, research forums, and outreach programs**. Events like the **Bangalore Humanitarian Technology Conference (B-HTC), Bangalore Technology Conclave (BTC), and IEEE CONECCT** often feature joint sessions with national and international societies. **Industry-academia initiatives, hackathons, and standards awareness workshops** are conducted in partnership with professional bodies and NGOs. Through outreach programs, IEEE Bangalore Section volunteers and student branches collaborate with NGOs to promote **STEM education in rural and underprivileged communities**.

IEEE members gain access to **discounted or free participation in technical events, training sessions, and certification programs** through these partnerships. Members benefit from **exclusive access to technical knowledge, research collaborations, and mentorship from industry and academic leaders**. These relationships also open doors to **funding opportunities, innovation grants, and career development resources**, helping both students and professionals expand their expertise.

Collaborations with national and international societies have strengthened the section's **membership development, visibility, and credibility in the technology community**. These relationships have enabled **cost-sharing for venue facilities, sponsorship for major events, and increased industry engagement**. By working with NGOs and professional societies, the IEEE Bangalore Section has also been able to **extend its humanitarian and outreach initiatives**, further enhancing its impact on society while fostering growth in IEEE membership across industry and academia.

C3. Collaboration with other IEEE Sections

The **IEEE Bangalore Section** has actively collaborated with **neighboring IEEE sections and global IEEE entities**, strengthening regional and international engagement. Through joint events, knowledge-sharing initiatives, and technical collaborations, the section has significantly contributed to advancing IEEE's mission across multiple domains.

The IEEE Bangalore Section has supported student events **neighboring IEEE sections**, particularly in the areas of **conference quality management, student engagement, and industry outreach**. A key initiative was the **IEEE R10 Conference Quality and Management Workshop**, organized on **June 22, 2024, at Dayananda Sagar College of Engineering**. This workshop was attended by **100 conference organizers from 65+ institutions**, offering guidance on **conference execution, financial planning, and technical paper selection**. Experts from IEEE Bangalore Section provided training on **best practices for organizing high-impact IEEE conferences**, benefiting multiple sections.

The section has also extended technical and logistical support to **IEEE Mysuru Sub-section, IEEE North Karnataka Sub-section, and IEEE Mangalore Sub-section**, assisting in organizing **flagship events, research symposiums, and student outreach programs**. These sub-sections have benefited from funding, mentorship, and promotional support from IEEE Bangalore Section, enabling them to scale up their activities and membership engagement.

IEEE Bangalore Section has partnered with IEEE India Council and **other IEEE Sections in India and Region 10** for various collaborative initiatives. A major joint event was the **IEEE Bangalore Humanitarian Technology Conference (B-HTC) 2024**, organized in

collaboration with **IEEE Mangalore Sub-section** at **NMAM Institute of Technology, Nitte**, focusing on **Sustainable Development Goal 14 – Life Below Water**. This conference attracted **experts from ISRO, Ministry of Earth Sciences, and National Remote Sensing Centre (NRSC)**, fostering a strong **interdisciplinary dialogue on environmental sustainability and technology-driven solutions**.

Another significant collaboration was the **IEEE R10-Bangalore Section Student Summit 2024**, where IEEE members from multiple sections in India participated in **technical workshops, leadership sessions, and industry networking events**. Additionally, the **IEEE Bangalore Section actively supported joint workshops on standards awareness and patenting**, helping students and professionals engage with **IEEE Standards Association and global intellectual property initiatives**.

Through these collaborative efforts, **IEEE Bangalore Section continues to enhance IEEE's regional presence, foster cross-section learning, and drive impactful technical and professional development programs across India**.

C.4   Support extended to Sub-sections & Society Chapters within the Section

The **IEEE Bangalore Section** has actively supported its **sub-sections and society chapters** in organizing **technical, educational, and professional activities**, facilitating membership development, and assisting in the formation and transition of sub-sections. This support has helped enhance IEEE's regional impact while fostering innovation, industry collaboration, and student engagement.

Support Extended for Organizing Technical, Educational, and Professional Activities

The IEEE Bangalore Section has provided **financial, logistical, and administrative support** to sub-sections and society chapters for hosting conferences, workshops, and technical seminars. Notable initiatives include:

- **IEEE CONECCT 2024**, a multidisciplinary conference bringing together all society chapters to collaborate on cutting-edge research in electronics, computing, and communications.
- **Bangalore Humanitarian Technology Conference (B-HTC) 2024**, conducted in collaboration with the **Mangalore Sub-section**, focused on **Sustainable Development Goal 14 (Life Below Water)**.
- **Cyber-Physical Systems Workshop 2024**, organized at **REVA University**, with participation from various IEEE technical societies.
- **Standards Awareness and Patenting Workshops**, conducted by the **IEEE Standards SIG**, promoting intellectual property and global standardization efforts.

Additionally, the **IEEE Bangalore Section has provided funding, speaker invitations, and promotional support** to various society chapters and sub-sections, ensuring the success of these initiatives.

Joint Activities for Membership Development

To **increase IEEE membership**, the Bangalore Section has collaborated with **sub-sections and student branches** through targeted initiatives, including:

- **IEEE R10-Bangalore Section Student Summit 2024**, hosted at PESCE Mandya, bringing together over 250 students and professionals to enhance engagement and leadership skills.

- **STEM Outreach Programs**, impacting 3,100+ students from **30 schools and colleges**, encouraging IEEE student branch participation.
- **IEEE Industry Hubs**, launched in collaboration with **major corporations like TVS Motor and Harman**, to attract young professionals and industry practitioners to IEEE.
- **Scholarships & Travel Grants**, with **30 scholarships and 3 travel grants** awarded to IEEE student members across the section, supporting research and professional development.

These joint activities have contributed to a **steady increase in IEEE membership**, particularly among students, young professionals, and industry members.

Support Extended for the Formation of a Sub-section or Transition into a Full Section

The IEEE Bangalore Section continues to support the expansion of its footprint by **assisting new sub-sections in their formation and guiding existing sub-sections towards full section status**.

- In **2024, 16 new student branches and 124 new student branch chapters** were added under the Bangalore Section, demonstrating IEEE's growing presence in Karnataka.
- The **IEEE North Karnataka Sub-section and IEEE Mysuru Sub-section** have received structured mentorship and financial aid to conduct flagship events and increase membership.
- Plans for transitioning Mangalore sub-section into independent sections have been **discussed with IEEE MGA and Special committees have been formed**, ensuring a sustainable growth path.

C.5 Best Practices of your Section (which you would like to share with other Sections for the benefit of members)

The **IEEE Bangalore Section** has established several best practices that have significantly contributed to **membership growth, technical excellence, industry collaboration, and community impact**. These initiatives can serve as valuable insights for other IEEE Sections aiming to enhance their engagement and effectiveness.

1. Industry-Academia Collaboration through IEEE Industry Hubs

IEEE Bangalore Section has pioneered the concept of **IEEE Industry Hubs**, which serve as **dedicated platforms for industry-academia collaboration**. These hubs connect **IEEE technical societies with industry leaders**, enabling:

- **Joint research projects** on emerging technologies such as **AI, Cyber-Physical Systems, and IoT**.
- **Internship and career opportunities** for IEEE student members.
- **Technical workshops and hackathons** focused on real-world industry challenges.
  The **TVS Motor and Harman IEEE Industry Hubs** have already demonstrated success in bridging industry gaps and fostering technological innovation.

2. Strong Focus on Membership Growth and Retention

The Bangalore Section has adopted a **multi-level membership engagement strategy**, leading to significant membership growth. Key initiatives include:

- **Regional Membership Development Programs**, offering **travel grants, scholarships, and IEEE funding opportunities** for student and professional members.
- **Mentorship Programs**, connecting **senior IEEE members with young professionals and students** to guide career and research development.
- **Special Membership Benefits**, such as **discounted conference fees, access to technical workshops, and networking events with industry leaders**.

3. Technical Leadership through Flagship Conferences

The Section successfully organizes **high-impact international conferences**, bringing together experts from **academia, industry, and government**. These include:

- **IEEE CONECCT** (focused on Electronics, Computing & Communications).
- **Bangalore Technology Conclave (BTC)** (theme-based discussions on AI, sustainability, and emerging tech).
- **Bangalore Humanitarian Technology Conference (B-HTC)** (aligned with UN Sustainable Development Goals).
  These conferences not only provide **global visibility** but also **increase IEEE's impact in technological and policy discussions**.

4. IEEE Standards SIG and Innovation-Driven Initiatives

IEEE Bangalore Section has **actively promoted standardization and patenting** through the **IEEE Standards Special Interest Group (SIG)**.

- Regular **workshops on IEEE standards development, patent filing, and research innovation** are conducted in collaboration with **IISc, CDAC, and ISRO**.
- The **"Authors to Inventors Workshop"** trains IEEE members in patent filing and commercialization of research.

5. STEM Outreach and Pre-University Engagement

The Section has significantly contributed to **STEM education and pre-university student engagement**, impacting over **3,100 students in 30+ schools and colleges**.

- IEEE volunteers conduct **science model demonstrations, hands-on robotics workshops, and career guidance sessions** in rural and underprivileged schools.
- Collaborations with **NGOs like MOVE India and Pilikula Science Centre** help in **bridging the digital divide and inspiring young students to pursue careers in engineering and technology**.

6. Regional Language Technical Talks

IEEE Bangalore Section has introduced **Indian Language Technical Talks**, making **advanced technology topics more accessible** to a wider audience.

- Talks have been conducted in **Kannada, Bengali, and Tamil**, covering topics such as **Photonics, AI, and Semiconductor Technologies**.
- This initiative **enhances engagement from local academia and students**, promoting inclusivity within IEEE.

7. Young Professionals & Women in Engineering (WiE) Empowerment

The Section has been a strong advocate for **Young Professionals (YP) and Women in Engineering (WiE)** through:

- **WiE Leadership Summits**, featuring panel discussions on **career growth, technical excellence, and gender diversity in STEM**.
- **Young Professionals Skill Development Programs**, providing **AI, blockchain, and entrepreneurship training** to early-career engineers.

8. Efficient Financial Planning and Sponsorship Acquisition

- The Section has implemented **efficient financial planning**, securing sponsorships from industry leaders such as **IBM, Google, Red Hat, Bosch, Samsung, and STMicroelectronics**.
- **Transparent financial management** ensures that IEEE funds and sponsorships are used effectively for member benefits, conference support, and community outreach.

C.6   Problems anticipated and suggestions for solutions, if any

1. **Membership Retention & Engagement** – Challenge in retaining student members after graduation.
   Solution: Strengthen **IEEE Young Professionals programs**, offer **mentorship, career development, and industry networking opportunities**.
2. **Industry Participation** – Limited engagement from industry professionals.
   Solution: Expand **IEEE Industry Hubs**, offer **exclusive technical workshops, certifications, and networking events** to attract professionals.
3. **Funding & Sponsorships** – Increasing costs for hosting large-scale events.
   Solution: Secure **long-term sponsorships from tech companies**, leverage IEEE grants, and encourage **cost-sharing with partner institutions**.
4. **Volunteer Fatigue** – Overburdening active volunteers.
   Solution: Implement **structured volunteer training**, rotate leadership roles, and encourage **more student and YP participation**.
5. **Technical Event Reach & Accessibility** – Limited engagement outside metro cities.
   Solution: Promote **regional language technical talks**, hybrid event formats, and **stronger outreach to sub-sections**.

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:

The **IEEE Bangalore Humanitarian Technology Conference (IEEE B-HTC) 2025** will focus on **Sustainable Development Goal 11: Sustainable Cities and Communities**, emphasizing the role of technology in building resilient, inclusive, and sustainable urban environments. Scheduled for **April 25-26, 2025**, this flagship conference will bring together researchers, industry professionals, and policymakers to explore innovative solutions for urban development, smart infrastructure, and climate resilience. Through expert talks, panel

discussions, and technical sessions, IEEE B-HTC 2025 aims to foster interdisciplinary collaboration and drive impactful change in the way cities evolve to meet the needs of a growing population.

Meanwhile, the **IEEE International Conference on Electronics, Computing, and Communication Technologies (IEEE CONECCT)**, a premier global platform for multidisciplinary research and innovation, will host its **11th edition from July 10-13, 2025**, at the **Sterlings Mac Hotel, Bangalore, India**. Under the theme **"Harnessing Emerging Technologies for Viksit Bharat,"** the conference will highlight advancements in electronics, computing, and communications that are shaping the future of a technologically empowered India. By bringing together academia, industry, and research professionals, IEEE CONECCT 2025 will serve as a catalyst for cutting-edge developments, fostering collaboration and knowledge exchange in areas such as AI, cybersecurity, IoT, and next-generation communication systems.

Additionally, the **Bangalore Technology Conclave (BTC) 2025** will focus on **"AI for Humanity,"** exploring the profound impact of artificial intelligence on society and its potential to drive inclusive growth, ethical AI development, and transformative solutions for global challenges. Through keynotes, industry panels, and expert discussions, BTC 2025 will highlight how AI can be leveraged responsibly to enhance healthcare, education, sustainability, and social equity. As AI continues to reshape industries and daily life, BTC 2025 will provide a crucial platform for thought leaders to discuss strategies for ensuring that AI serves humanity in an ethical and impactful manner.

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

IEEE Bangalore Section is committed to fostering a high-performing Executive Committee (ExCom) by empowering members with delegated responsibilities and promoting teamwork-driven leadership. Our goal is to drive measurable improvements across key focus areas, including membership growth, funding and grants from IEEE HQ, enhanced government collaborations, and stronger industry-academia engagement.

To ensure accountability and sustained progress, ExCom meetings will be action-oriented, with quarterly reviews assessing goals versus achievements. The Section aims to set a benchmark in leadership and impact through the following strategic initiatives:

- Mission-Driven Membership Growth – Targeting 20,000+ members, with at least 50% in professional categories, through structured outreach campaigns.
- Expanding Student Membership – Strengthening student engagement through mentorship, technical boot camps, and IEEE career pathways.

- Industry Collaboration – Deepening industry involvement by securing corporate partnerships, facilitating sponsorships, and driving skill-building initiatives.
- Global Outreach & Strategic Alliances – Initiating cross-border collaborations, joint activities, and knowledge-sharing with sections beyond India.
- Bridging the Rural Gap – Ensuring each ExCom member visits remote and underrepresented colleges to inspire and mentor students.
- Social Impact through Technology – Launching at least one technological solution to solve real-world challenges in underdeveloped areas.
- Strengthening Society Chapters – Enhance collaboration between IEEE Society Chapters and empower them for long-term sustainability.
- Engagement with NGOs & Social Enterprises – Expanding our societal footprint by partnering with mission-driven organizations to drive community-focused innovation.

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

In 2025, IEEE Bangalore Section will continue to ensure that Chapters and Student Branches remain active, engaged, and empowered. Every ExCom member will commit to visiting at least one Student Branch per month to facilitate discussions, interact with management, and engage with student leaders. These visits will serve as a source of inspiration and motivation for student volunteers.

We will prioritize outreach to remote and isolated locations, fostering stronger connections and continuous communication. Membership growth will be closely monitored on a monthly basis, with a strategic focus on increasing engagement in March and August.

Furthermore, strengthening synergy among all Society Chapters remains a key priority. The Section will actively support and empower Society Chapters to expand, creating opportunities for collaboration and sustainable growth. This, in turn, will drive membership growth and enhance the overall impact of IEEE Bangalore Section. Encouraging the establishment of more Student Branch Chapters across Karnataka will be a collective effort, reinforcing IEEE's mission of technological and professional development.

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

IEEE Bangalore Section aims to strengthen its engagement with local IEEE conferences by providing both financial and technical co-sponsorship within its jurisdiction. As a global technology hub, Bangalore offers immense opportunities for industry collaboration. Leveraging this, IEEE Bangalore Section will proactively seek sponsorships from leading organizations and industry partners to support its flagship events and conferences. This strategic approach will not only enhance the quality and impact of these conferences but also foster stronger academia-industry connections, driving innovation and knowledge exchange across diverse technological domains.