

# **IEEE GUJARAT Section Report for the Year 2023**

**Members: 2010**

**Society Chapters: 10**

**Council Chapters: 2 (Sensor, Nanotechnology)**

**Affinity Group: 3 (WiE, YP, Block Chain)**

**Student Branches: 32**

## **PART A - SECTION SUMMARY**

### **A.1 Executive Summary –**

- Section Executive Committee Member List

<b>Name</b>	<b>Office</b>
Kiran Amin	Chair
Chirag N. Paunwala	Vice-Chair
Ashish Phophalia	Secretary
Manisha T. Shah	Treasurer
Hardik Pathak	Educational Activity Chair
Gopal Gajjar	Chapter Coordination Chair
Foram Rajdev	WIE Chair
Anjali Diwan	YP Chair
Gunvantsinh Gohil	Student Activity Chair
Priyesh Chouhan	Technical Activity Chair
Manisha Shukla	Professional Activity Chair
Usha Mehta	Membership Development Chair
Nilesh Ranpara	Industry Liaison Chair
Satvik Khara	SIGHT Chair
Sumit Makwana	Digital Content Chair
Ketan Sarvakar	Digital Content Vice-Chair
Amit Patel	Member
Shiv Mohan	Member
Sanjay Shrivastav	Member
Maniklal Das	Immediate Past Chair & Adviser
Deepak Mathur	Adviser
Anil Roy	Adviser
Y.P.Kosta	Adviser
R.B.Jadeja	Adviser

### **Section Highlights**

1. Following leadership positions held by our volunteers
  - a. IEEE Vice President Elect (MGA) 2023 - Deepak Mathur
  - b. VP Technical Operations of Sensor Council ADCOM – Anil K Roy
  - c. Vice Chair Members Activities, R10 - R.B.Jadeja
2. Following volunteering positions held by our volunteers
  - a. Senior advisor R10 Student Activity Committee technical team – Anjali Diwan
  - b. Member R10 Membership Development Committee- Amit Ved
  - c. Member R10 Women in Engineering Committee – Foram Rajdev
3. Awards received form Region 1o and IEEE headquarter
  - R. B Jadeja has received 2023 IEEE R10 Outstanding Volunteer Award.
  - Darrel Chong Student Activity Award- GCET SB

### Major Events (International, National)

1. **R10 Humanitarian Technology Conference (HTC)** hosted by Gujarat Section on October 16 - 18, 2023 at Marwadi University, Rajkot. Three days event was focused on humanitarian technology with 19 technical sessions and 10 special sessions. Total 324 participants attended conference from 16 countries.
2. Following events were organized during October 16 -18
  - Industry Conclave
  - HTA congress
  - YP Track
  - LMAG Track
  - Conference quality and management workshop
  - WiE Sessions
  - HTB workshop
  - IEEE R10 section chapter mini-symposium
  - Workshop on ethics day celebration
  - Sustainable development plans for SYWL





3. **Prof. Lance Fung, Director of IEEE Region 10, gave a talk titled 'My Professional Journey with IEEE' at Gappat University in Gujarat on November 29th, 2023.**
4. **A meeting has been organized with Prof. Lance Fung, Director of IEEE Region 10, and executive members from different sections of India at Hotel Ummed in Ahmedabad on November 28th, 2023.**



5. **An expert talk on 'Evolution of 6G Network and Network Slicing Concepts' by India Council Chair Prof. Debabrata Das was organized by IEEE Gujarat Section at Gnapat University in Gujarat.**



6. **IEEE Gujarat Section's flagship event Emerging Research Trends in Engineering (ERTE) is organized on September 15 to 17, 2023 at Sarvajanic University, Surat. This 3-days workshop provided insight into the industrial practices, current research trends and the state-of-the-art in the "Smart Energy Systems" domain.**



7. IEEE Gujarat Section organized the 3rd edition of its annual event - **Prof. S. C. Sahasrabudhe Memorial Lecture** at PDEU, Gandhinagar.



## A.2 Financial Report

- Summary (as per submitted on NetSuite)

IEEE GUJARAT SECTION					
Financial Reporting 2023 (As per submitted to HQ)					
Sr. No.	INCOME (INR)		Sr. No.	EXPENSES (INR)	
1	2.50 Conference Revenue	1162691	1	4.10.010 Section Meetings	207191
2	2.70 Professional Development	0	2	4.10.030 Chapter Meetings	71368
3	2.80 Student Activities	80000	3	4.10.040 Other Meetings	0
4	3.32.050 Technical Activities	0	4	4.60 Educational Activities	385764
5	3.34 IEEE HQ & Societies	0	5	4.60.020 Educational Activities	0
6	3.45 Non-IEEE CB Account Interest	0	6	4.70 Professional Activities	34521
7	3.70 Other	34163	7	4.80 Student Activities	21850
			8	4.80.020 Student BranchSupport	88960
			9	4.90 Other Program Expenses	59188
			10	4.90.010 Other Committee	0
			11	5.20 Travel Expenses	1001919
			12	5.60 Other Management &General Expenses	125912
			13	6.20 Other	75090
			14	6.31 Student Branch Rebate	0
	<b>Total (Income)</b>	<b>1276854</b>		<b>Total (Expenses)</b>	<b>2071763</b>
	<b>Difference (Income-Expenses)</b>	<b>794909</b>			

## **PART B - ORGANIZATIONAL ACTIVITIES**

### **B.1 Membership Development Activities –**

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

	<b>Dec-23</b>	<b>Dec-22</b>	<b>Dec-21</b>
<b>Student Member</b>	<b>1224</b>	<b>1022</b>	<b>782</b>
<b>Member</b>	<b>397</b>	<b>355</b>	<b>296</b>
<b>Graduate Student Member</b>	<b>208</b>	<b>197</b>	<b>127</b>
<b>Senior Member</b>	<b>154</b>	<b>120</b>	<b>102</b>
<b>Affiliate</b>	<b>6</b>	<b>17</b>	<b>1</b>
<b>Associate Member</b>	<b>15</b>	<b>15</b>	<b>11</b>
<b>Life Senior</b>	<b>6</b>	<b>6</b>	<b>6</b>
	<b>2010</b>	<b>1732</b>	<b>1325</b>

- Summary and evidence of work done to improve the value of membership, which leads to retention and growth of members

### Membership Retention

- ▶ Senior Membership Elevation Drive is carried out. All eligible professional members are motivated to apply for Senior Membership. We sent an information email to eligible IEEE members.
- ▶ From the data sheet, it was found that there is total 8768 inactive members.
- ▶ This fact draws attention towards the retention of members.
- ▶ To understand the reasons behind not renewing the membership and encourage them and bring them back, an email along with google form was sent to each inactive member.
- ▶ Section also kept membership drive booth on the various events hosted throughout the year.
- ▶ Various Student Branches within the section host similar events to boost the members in respective SBs.
- ▶ Our efforts were also making awareness about senior membership grade went successfully and above table shows continuous growth in senior membership grade.

### B.2 Chapter Activities –

- Total number of Chapters in the Section  
There are nine technical society chapters, two council chapters, two affinity groups and one section group in the Gujarat Section.
- Number of Chapters formed in the current year  
No new chapters were formed in the year 2023.
- Number of active Chapters (Chapters who have reported required number of meetings during the year)  
Chapters of SPS, GRSS, CS, CIS, PES, IA/IE/PEL, SSC/ED, SEN have reported activities in the year 2023. While the chapter of COM, NANO, AP/MTT have no activities reported in 2023. Out of the active societies IE/AI/PEL, SPS and GRSS are most active.
- Summary of Chapter activities (Chapter wise with attachment table/information)

	<b>Society Chapters / Affinity Groups / Council Chapters</b>	<b>Activities</b>
	<b>Society Chapters</b>	
1	Communication Society (ComSoc)	Chair: Nagendra Gajjar
2	Computational Intelligence Society (CIS)	Chair: Maulin Joshi  They organized three activities in different categories.
3	Computer Society (CS)	Chair: Ashish Phophalia

		They have organized six events for the year 2023, including workshops, DL talks, and expert talks.
4	Geoscience and Remote Sensing (GRSS)	Chair: Shiv Mohan  It is one of the vibrant chapters of the Gujarat section. They have organized nine different events in categories such as workshops, expert talks, etc.
5	Joint IEEE Chapter of Industry Applications, Industrial Electronics and Power Electronics Societies (IA/IE/PEL)	Chair: Anil K Roy  This is the most active joint chapter in the Gujarat section. They have organized a total of nine events, out of which six were technical events including workshops, expert talks, and PEL day celebrations. Additionally, they have also conducted three administrative activities.
6	Microwave Theory & Techniques / Antennas & Propagation Society (MTSS/AP)	Chair: Sanjeev Kulshreshtha
7	Power and Energy Society Chapter (PES)	Chair: Rakesh Patel
8	Joint IEEE Chapter of Solid-State Circuits and Electron Devices Societies (SSC/ED)	Chair: Yash Agrawal  They organized four events in different category.
9	Signal Processing Society (SPS)	Chair : Chirag Paunwala  The most vibrant chapter in the Gujarat section, SPS, has organized a total of 18 events which include workshops, seminars, DL talks, expert talks, and sessional schools. Here are some of the events that they have organized: 1. Seasonal School on Revolutionary Solutions for Biomedical Signal and Image Analysis using AI (ReSBiSIA_AI) Date: 1-5 August 2023 Mode: online mode 2. 6th Edition of the International Symposium on "New Trends in Signal Processing (NeTSiP) 2023" Date: 25th-26th August, 2023 Venue: Silver Oak University, Ahmedabad Mode: Physical 3. Expert Talk on "Publication Etiquette and Research Ethics"



		Date: 10th March 2023 Speaker: Dr Gaurav Sharma Designation: Professor of Electrical and Computer Engineer, Computer Science, Biostatistics, and Computational Biology, Georgene Institute for Data Science, University of Rochester
	<b>Council Chapters</b>	
1	Sensors Council	Chair: Anup Shah Organized one event.
2	Nanotechnology Council	No activities
	<b>Affinity Groups</b>	
1	Women in Engineering	Reported separately in more details
2	Young Professional	Reported separately in more details

### B.3 Professional and Continuing Education Activities

- Summary of continuing Educational activities including conferences, technical activities, training courses, and distinguished lecture programs with attachment table / information
- Under Professional Activity during the year 2023 following activities programs were been conducted

### B.4 Students Activities –

- Total student branches in section 32. Number of active Student Branches (Student Branches who have reported required number of meetings during the year) :19  
Summary of Student Branch activities:  
In effort to support planned activities by the child OUs of the IEEE Gujarat Section SAC, financial collaboration is made available in the form of sponsor or co-sponsor of the events organized by the Student Branches at section level.
- One new branches: IEEE NFSU Student Branch is formed in 2023
- Section level student activities: Following the legacy, IEEE Gujarat Section SAC organized its flagship annual event SAMPARK in the year of 2023 on February 25-26, 2023 at Vishal Lords Inn at Sasan Geer, Gujarat. SAMPARK is the event designed for the student members and by student members of IEEE Gujarat Section. It provides a platform to bring all the Student Branches of IEEE Gujarat Section together to network.

Student Branch Awards were felicitated during SAMPARK 2023. The Best Student Branch Award was secured by IEEE BVM SB and IEEE SCET SB. The Special Mention Student Branch Award was granted to IEEE GCET SB and IEEE SOU SB. IEEE Ganpat University SB won the Membership development award.

- Total 370 event have been reported on vTools by Student Branches

## B.5 Affinity Group Activities

- Young Professionals Affinity Group organized four in person events and two online talks. It comprises 2 full day seminar, 1 R10 funded event and 2 IEEE YP funded events.
  - One day seminar on “AI for Industry: Roles, Challenges and Applications” on March 27, 2023.
  - One day seminar on “From Idea to Reality: Navigating the Path to Entrepreneurship and Career Development” on July 22, 2023. Event funded by IEEE YP headquarters.
  - IEEE Young Professional Meetup on October 16, 2023. Event funded by IEEE YP headquarters.
  - IEEE R10 Young Professional UpSkill Gujarat Section 2023 on October 16, 2023. Event funded by R10 YP.



- A total of 55 events have been organized by various Women in Engineering (WiE) student branch affinity groups, encompassing both technical and non-technical activities. These events include celebrations such as IEEE Day and Women's Day.
  - Panel discussion on “Empowering women in engineering- Breaking barriers, creating Impact” on October 16, 2023.
  - Talk “Empowering women for sustainable future” on October 16, 2023



- Best WiE SB is given to IEEE SOU SB WiE affinity group. Best WiE volunteer award is given to Divya Chhabariya IEEE ADIT SB affinity group.

## B.6 Awards & Recognition Activities –

- Award constituted by the Section
  - **Membership Development Award** for showing exceptional growth in the membership in the year.
  - **Upcoming Student Branch Award** for excellent performance in the membership year of 2023 under the category of young SB.
  - **Best Student Branch Award** for excellent performance in that year.
  - **Special Mentions** for consistently organizing high quality events every year.
  - **WiE Outstanding Volunteer Award.**
  - **WiE Outstanding SB AG Award.**
  
- Please list all Awards and Recognitions received by the Section, and members in the Section, from R 10 and IEEE HQ during the year
  - R. B Jadeja has received 2023 IEEE R10 Outstanding Volunteer Award.
  - Darrel Chong Student Activity Award- GCET SB

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

The section homepage is: <http://ieeegujaratsection.org/>. Our website normally gets updated on weekly basis. But when there is some event there, it might get updated 2-3 times a day even. The site is developed on WordPress CMS platform. The Section has initiated the Newsletter in the year 2022 and proposed to have two issues in every calendar year.

Other means of contacts with section members

- a. e-notice
- b. We have created our own customized list of emails and that is used most frequently
- c. Very often we reach out to all engineering colleges, academic institutions for our national, state level events' announcements. For this also, we have developed our own customized address database which we use on case-to-case basis.

Page: <https://www.facebook.com/IEEEGS>

Group: <https://www.facebook.com/groups/ieeegujsec>

Newsletter Link <https://ieeegujaratsection.org/newsletters>

### **B.8 Industry Relations**

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

### **B.9 Humanitarian Technology Activities**

- The section has an active SIGHT unit. We have been doing three projects for humanitarian challenges:
- SIGHT Activities

### **B.10 Community Activities –**

- IEEE Social activities

**IEEE Day** was organized on October 8, 2023 in Hotel Fortune Select, Ahmedabad. The Section invited Shri Arup R. Dasgupta, retired from SAC ISRO Ahmedabad to deliver a talk on the occasion. The title was “Space - A Universe of Opportunities”. The celebration event was attended by 80 participants.



IEEE Gujarat Section hosted **Annual General Meeting (AGM)** on October 8, 2023 at Hotel Fortune Select, Ahmedabad. The Chair has welcomed all the guests in the meeting. The activities done throughout the year 2023 was reported by Secretary followed by Open House Discussion.



## **PART C – OTHERS**

### **C.1 Special Events**

- **'Prof. S C Sahasrabudhe Memorial Lecture'**: The 3<sup>rd</sup> Memorial Lecture is delivered by Prof. JuzerVasi (Professor Emeritus at IIT Bombay, Fellow IEEE, Fellow INAE) on November 26, 2023 in physical mode. The event was organized at PDEU, Gandhinagar.

The event was also graced by Mrs. Sahasrabudhe. The event was attended by around 120 participants.

- Funding secured from the IEEE and external sources including sponsorships: No

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

- The section keeps in engaging industry through professional and technical activities.

### **C3. Collaboration with other IEEE Sections**

- Support extended to neighboring Sections: The section continuously encourage support to other sections through volunteer participation in All India Students' congress and other activities organized by other sections.
- Joint activities with any other Section: No

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

- Support extended for organizing technical, educational and professional activities
- Joint activities for membership development: With Chapters and Councils activities in the section.
- Support extended for organizing technical, educational and professional activities: The section continuously encourage support to all the chapters on various way, like financial support, hosting the events, inviting the guests to the section
- Joint activities for membership development: All the Chapters and Councils activities are informed to host membership booth in the section.
- Support extended for the formation of a Sub-section or transition of a Sub-section into a full Section: Not Applicable to Gujarat Section

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

1. SAPMPARK, bringing all students branches under one-day full event, including both technical and non-technical activities.
2. Flagship events like ERTE and NaSCoVIP are the continuing as effective technical events at national levels.
3. Initiation of Prof. S. C. Sahasrabuddhe Memorial Lecture in the Section

### **C.6 Problems anticipated and suggestions for solutions, if any** Membership retention, in particular student membership.

## **PART D - GOALS AND PLANS –**

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

Various units (e.g. YP, WiE, chapter, council) of the section receive projects and funding support from the IEEE and implement them towards the objective as per the stipulated timeline in the project.

## **D.2 Goals and Future Plans**

- Encourage active student branch to have chapter unit and having more activities.
- Make dormant branches active with section's support.
- More quality technical events and networking activities need to be organized.
- Periodical F2F sessions among volunteers on training besides CLE and other regular support.

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

More and more networking events, collaborative events.

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

Reaching out to new members and engaging them in quality activities for sustainable growth and financial stability.

**Kiran Amin**  
**Chair, IEEE Gujarat Section**