

# Region 10 Madras Section Report 2024

## **PART A - SECTION SUMMARY**

### **A.1 Executive Summary**

- **Section Executive Committee Member List**

Sl.No.	Name	Position
1	Dr. K. Porkumaran	Chairman
2	Dr. N. Kumarappan	Immediate Past Chair
3	Dr. P. Sakthivel	Vice Chairman (academic)
4	Dr. S. Joseph Gladwin	Vice Chairman (Industry)
5	Dr. R. Hariprakash	Secretary
6	Dr. S. Radha	Treasurer
7	Dr. D. Nirmal	Member
8	Dr.R.G. Sangeetha	Member
9	Dr. S. Brindha	Member
10	Mr. M. Arun	Member
11.	Dr. V. Nagarajan	Member
12.	Dr. S. Rathinavel	Member
13.	Mr. B. Ashvanth	Member

- **Section Highlights:**

#### **AISYWLC 2024:**

AISYWLC is the IEEE India Council's annual flagship event, providing a platform for young professionals, academicians, scholars, entrepreneurs, and technocrats to connect and share ideas. This year, AISYWLC 2024 was held in collaboration with the IEEE Madras Section at the College of Engineering, Guindy, Anna University, Chennai, on December 7–8, 2024. The event fostered leadership, innovation, and professional growth through various impactful sessions, showcasing the collaborative spirit of the Madras Section.

The AISYWLC 2024 marked a successful conclusion to an eventful and enriching experience. The sessions were packed with insights, innovation, and inspiration, empowering participants to take proactive steps in their professional and personal journeys. AISYWLC 2024 has left a lasting impact, paving the way for future endeavours to advocate for excellence, diversity, and empowerment in engineering.

#### **Student Project Funding:**

Organized a student project expo in 2024. A total of 200 applications were received, out of which 70 projects were shortlisted and showcased at the expo. Prizes were awarded to the top 10 projects. The event was a grand success.

#### **Technical Sponsorships and Financial Assistance to the student branches:**

- Student Operate funding for the student branches
- Mini Project funding for students
- awards to student branches and society chapters
- Financial support for the student branches
- Project funding for students
- Incentive awards to student branches and society chapters

## **Faculty Development Program(FDP)**

IEEE Madras Section Sponsored Faculty Development Program on Industrial IoT and Connected Devices on 01.02.24 to 06.02.24 hosted by Sri Sairam Engineering College. The FDP provided participants with a comprehensive understanding of the rapidly evolving landscape of IoT technologies. Through interactive sessions, hands-on activities, and expert insights, educators gained the knowledge and skills necessary to effectively teach and incorporate Industrial IoT concepts into their academic programs. The program successfully fostered a community of practice among participants, paving the way for continued exploration and innovation in this exciting field.

### **1) IEEE CAS Sponsored FDP DESIGN AND APPLICATION**

OF SEMICONDUCTOR DEVICES 05.08.2024 – 10.08.2024 at Sri Sai Ram Institute of Technology,

2) Organized by five-day Faculty Development Program on “Challenges of Antenna Design,” held from December 9 to December 13, 2024, was successfully completed . Department of Mechatronics Sathyabama Institute of Science and Technology.

3) Organized by and IEEE SB ( S A Engineering College) members in your college, IEEE MAS can financially support) for the calendar year 2024 for the proposed event. on Date: 27th December 2024  
Event Name : Request for Sponsorship for & quot; Student Skill Development Programme: Empowering Future Innovators & quot; for 12th School Students This amount Rs. 30,000/- is therefore approved for your proposal.

4) IEEE Sponsored One Week Faculty Development Programme (FDP) 5 Days on " Industry 5.0 – Empowering Sustainable Goals " 16-12-2024 to 21-12-2024 at S A Engineering College, Chennai, Tamil Nadu, India

## **IEEE Day 2024:**

The IEEE Day 2024 celebrations were marked with enthusiasm and active participation from student branches across the IEEE Madras Section, featuring a series of technical and non-technical events. The event brought together students, young professionals, and IEEE volunteers, creating a platform for innovation, collaboration, and knowledge sharing. Mithresh, Contest Lead of IEEE Day 2024, along with Jagadeesh, Design Lead of IEEE Day 2024 and Abdul Halik, Vice Chair of Branding for IEEE Day 2024, represented the IEEE Madras Section and contributed significantly to the celebrations. Their efforts helped in fostering a strong sense of IEEE spirit and engagement among members.

One of the key highlights of the celebrations was the IEEE Day 2024 SKCET Video Contest, which attracted creative submissions from various student branches. The competition provided an opportunity for participants to showcase their passion for IEEE and their contributions to technological advancements. The judges meticulously evaluated the entries and the best submission was recognized as the Judges' Pick Winner.

Throughout the celebrations, IEEE student branches organized a diverse range of activities, including hackathons, technical paper presentations, project demonstrations, coding competitions, and networking sessions, catering to both technical and non-technical interests. The event also emphasized professional development, leadership, and the importance of IEEE membership in shaping a successful career.

## **IEEE Student Branch Officers' Meet:**

The Know Your IEEE Team successfully conducted an insightful workshop titled “How to Report Your Events in vTools” on October 12, 2024, from 6:00 PM to 7:00 PM IST. The session aimed to guide IEEE volunteers, student branch officers, and members on effectively reporting their events in vTools, a vital platform for IEEE event documentation. The event was led by Mr. Arun M, Chair, IEEE Madras Young Professionals, who provided in-depth insights on the vTools reporting process, emphasizing its significance in maintaining event records, ensuring visibility, and complying with IEEE guidelines. The session was moderated by Mr. Abdul Halik M I, Vice Chair of Branding, IEEE Day 2024, who facilitated discussions and ensured smooth engagement throughout the workshop. The workshop covered essential aspects of vTools, including a detailed walkthrough of the platform, step-by-step guidance on submitting and managing event reports, and best practices for maintaining high-quality documentation.

## Section Technical Chapter:

IEEE Madras Section has 28 Technical Society Chapters and 3 Affinity Groups. The tables below indicate the Technical Society Chapters, Affinity groups Chairpersons:

### Technical Society Chapters:

Sl no.	Society Name	Chairperson
1	Aerospace and Electronic Systems (AES)	Dr.T.Muthumanickam
2	Antennas and Propagation (APS)	Dr.T.Shanmuganantham
3	Broadcast Society (BS)	Dr. B. Nagaraj
4	Computer Society (CS)	Dr. P. Sakthivel
5	Communications (COMSOC)	Dr. S. Radha
6	Computational Intelligence (CIS)	Dr. N. Kumarappan
7	Control Systems (CSS)	Dr.N.S.Bhuvaneswari
8	Engineering in Medicine & Biology (EMBS)	Dr. K. B. Jayanthi
9	Electron Devices (EDS)	Dr. J. Charles Pravin
10	Education (ES)	Mr.NavaneethakrishnanR
11	Electromagnetic Compatibility(EMCS)	Dr. P. Salil
12	Geoscience and Remote Sensing (GRSS)	DR. S. S. Ramakrishnan
13	Industrial Applications (IAS)	Mr. R. Srinivasan
14	Information Theory (ITS)	Dr. V. Gomathi
15	Instrumentation and Measurement (IMS)	Dr. Uppu Ramachandraiah
16	Industrial Electronics (IES)	Dr. M. Arun
17	Microwave Theory and Techniques (MTTS)	Dr. V. Abhaikumar
18	Nano Technology Council (NTC)	Dr Madheswaran
19	Power and Energy (PES)	Dr. Mahesh Kumar
20	Power Electronics (PELS)	Dr. R. Seyezhai
21	Product Safety Engineering (PSES)	
22	Professional Communication (PCS)	Dr. E. Kannan
23	Photonics (PS)	Dr. C. Arunachalaperumal
24	Robotics and Automation (RAS)	Dr.Vinod B
25	Social Implications of Technology (SITS)	Mr. R. Navaneethakrishnan
26	Signal Processing (SP)	Dr. N. Venkateswaran
27.	Technology and Management (TEMS)	Dr. Kulanthaivel
28.	Oceanic Engineering (OES)	Dr. Sannasiraj
29.	Vehicular Technology Society(VTS)	Dr. S. Brindha
30.	Reliability Society	Dr.K.Porkumaran

### Affinity Groups

Sl.No.	Affinity Group Name	Chairperson
1.	WIE Affinity Group	Dr. T. Sree Sharmila
2.	Young Professionals	Mr. M. Arun
3.	Life Members	Dr. T. S. Rangarajan

### IEEE Section Newsletter

MAS LINK, the newsletter of Madras Section is being published once in two months as an eNewsletter, It is circulated to all the members of the section including student members. Each issue is uploaded to the IEEE Madras Section website in order to reach more members around and to add more information. The newsletter includes the following:

1. Chairman's Message
2. Editor's Column
3. Activities are reported by the various student branches & student branch chapters of the section to encourage better performance.
4. Activities reported by the various society units.
5. Announcements and reporting regarding the Conferences, Workshops, Seminars, Symposia, etc., coordinated by the section, technical society chapters, affinity groups, and student branches functioning in various institutions.
6. Achievements of professional members.

• **Major Chapter Activities**

Sl.No.	Society Name	No. of Meetings Conducted
1	Aerospace and Electronic Systems (AES)	4
2	Antennas and Propagation (APS)	
3	Broadcast Society (BS)	
4	Computer Society (CS)	5
5	Communications (COMSOC)	2
6	Computational Intelligence (CIS)	
7	Control Systems (CSS)	
8	Engineering in Medicine & Biology (EMBS)	
9	Electron Devices (EDS)	
10	Education (ES)	
11	Electromagnetic Compatibility (EMCS)	4
12	Geoscience and Remote Sensing (GRSS)	
13	Industrial Applications (IAS)	
14	Information Theory (ITS)	0
15	Instrumentation and Measurement (IMS)	
16	Industrial Electronics (IES)	
17	Microwave Theory and Techniques (MTTS)	2
18	Nano Technology Council (NTC)	
19	Power and Energy (PES)	5
20	Power Electronics (PELS)	4
21	Product Safety Engineering (PSES)	
22	Professional Communication (PCS)	7
23	Photonics (PS)	3
24	Robotics and Automation (RAS)	
25	Social Implications of Technology (SITS)	
26	Signal Processing (SP)	8
27.	Technology and Management (TEMS)	
28.	Oceanic Engineering (OES)	
29.	Vehicular Technology (VTS)	8

• **Major Student and Affinity Group Activities**

**Major Student Activities:**

- Student Branch officer meet
- Technical Lectures different regions of section: In order to have more student-centric participation, technical lectures were conducted in different cities by the section, technical and student activities committee.
- Graduate Student Project Funding

- Volunteer Leadership and Training Program
- Student Transition and Elevation Program

### **Major Affinity Group Activities:**

#### **Young Professionals:**

##### **Industry Relations Committee Sponsored AEROMODCON:**

IEEE Madras Section and IEEE Young Professionals hosted Aeromodcon 2024, a two-day aeromodelling workshop and demonstration, at Jeppiaar Engineering College. The event was sponsored by the IEEE Region 10 Industry Relations Committee. The workshop began with an introduction to Computer-Aided Design (CAD) using CATIA, led by Mr. Sheerkar Donthy, a Design Engineer. A panel discussion on industry expectations in the UAV sector featured Mr. Bakthakolahal Shyamsundar, an expert in the field.

The event also covered UAV fundamentals, assembly, and flight demonstration, led by Mr. Jigyasu Chand. Participants gained hands-on experience with drone assembly and setup of a Ground Control Station. The event culminated in an exciting drone flight demonstration. Aeromodcon 2024 provided a blend of theoretical knowledge and practical exposure to the UAV industry. The workshop covered topics such as CAD design, UAV components, sensors, and PID control systems. Industry experts shared insights on real-world challenges and career growth opportunities.

##### **VOLUNTEER LEADERSHIP AND TRAINING PROGRAM:**

The IEEE Volunteer Leadership Training Program (VOLT 2024) took place on October 19, 2024, at Grootan Technologies, Chennai. Organized by IEEE Young Professionals Madras Section, the event aimed to empower and inspire future leaders. The program featured insightful sessions and interactive talks led by distinguished professionals from academia and industry. Session highlights included "Volunteer to Leadership Enrichment" and "Empowering IEEE Education Activities & Initiatives." Speakers included Dr. Hari Prakash R, Mr. Arun Kumar, Mr. Elanchezhiyen R, and Ms. Indhumathi G.

Topics covered included leadership development, IEEE branding, and humanitarian activities. The program concluded with an interactive session, "An Interactive Chat with Lieutenant YP," led by Mr. Srikanth. The valedictory speech was delivered by Dr. Porkumaran K. Key takeaways included the importance of volunteerism, leadership development, and continuous learning. Attendees were encouraged to apply the skills and insights gained from VOLT 2024 in their professional and volunteer journeys.

##### **ECOREV'24 CYCLE RALLY:**

The Ecorev'24 Cycle Rally was organized by IEEE Madras Section on 25.02.24 to promote sustainable development and climate awareness. The event was held in collaboration with IEEE Madras Young Professionals, IEEE SIGHT Madras Section, and St. Joseph's IEEE Student Branch.

The rally attracted participants from various backgrounds who pedaled through a scenic 14-kilometer route. The event aimed to advocate for eco-friendly transportation and collective responsibility towards environmental conservation. Distinguished guests, Dr. Vaddi Seshagiri Rao and Dr. Jayarama Pradeep, emphasized the importance of collective action in combating climate change. Participants received certificates and medals for their commitment to a greener future. The event was inaugurated by Dr. Jayarama Pradeep, and Dr. K. Porkumaran, Chairman, IEEE Madras Section, and Mr. Arun, Chairperson IEEE Madras Section YP, participated enthusiastically. The rally was a resounding success, bringing together individuals to advocate for sustainable development and climate awareness.

## **ELEVATE YP:**

IEEE Madras Section Young Professional successfully conducted the event “ELEVATEYP – Innovating Young Professional Growth” on 31.03.24 through Webex. This event primarily focuses on the fostering transition of IEEE Student Branch in the IEEE Madras Section. This initiative was started to bridge the gap between the IEEE Student Members and IEEE Young Professionals by approaching various innovative ideas for events among Student Branches. The event had a good reach among Madras Section and had total of 18 Student Branch registrations. All the participants actively showed their interest in demonstrating ideas and had a chance to speak with other Sections Young Professionals. The esteemed jury panel of the event is Dr. Nageswara Rao Atyam, Vice Chair, IEEE YP Bengaluru Section, Mr. Shone Jose, Vice Chair, IEEE India Council and Mr. Aditya Kameswara Rao Nandula, Chair, IEEE YP AG Kharagpur Section. They provided valuable insights and enriched the session with great knowledge of Young Professionals.

The prominent outcome of the event is to imply the ideas across IEEE Madras Section and support the top ideas by providing funds for the respective SYP transition project. The recognized ideas of the Student Branches are Kings College of Engineering, KPR Institute of Engineering & Technology and St. Joseph’s College of Engineering. All the participants presented with the fullest dedication and came up with excellent innovative ideas to improve the bond between the Student Branch and Young Professionals. At the valedictory ceremony, the juries shared the best practices in their section and announced the results of the event. The juries were felicitated with e-memento and the event ended up with a group picture.

## **Women In Engineering:**

### **IEEE Women in Engineering International Leadership Summit (WIE ILS):**

The IEEE Women in Engineering International Leadership Summit (WIE ILS) Chennai 2024, hosted by the IEEE WIE Madras Section Affinity Group from October 3-5, 2024, was a vibrant three-day event celebrating diversity, innovation, and leadership. The summit commenced with an inspiring inauguration ceremony on October 3, 2024, graced by esteemed dignitaries, including Ms. Soumya A, Deputy Commissioner, GST Policy Wing, Ministry of Finance, Government of India (Guest of Honour), Mr. Mohanbabu Balachandran, Technology Head & VP - IT at Mr. Cooper, Dr. P. Sakthivel, Vice Chair-Academics, IEEE Madras Section, Dr. R. Velraj, Former Vice Chancellor, Anna University, Dr. K. S. Easwarakumar, Dean, College of Engineering, Guindy, Anna University, and Dr. T. Sree Sharmila, Program Chair of IEEE WIE ILS Chennai and Chair of IEEE WIE Madras Section. The inaugural event concluded with a vibrant cultural showcase, setting an engaging tone for the summit, further enhanced by an IEEE Day celebration, highlighting the global impact of technology and innovation. The success of IEEE WIE ILS Chennai 2024 was made possible through the invaluable support of sponsors, partners, and dedicated volunteers. Mr. Cooper and IEEE Women in Engineering served as primary sponsors, empowering the event, while IEEE Computer Society sponsored the Start-up Spirit Track, and the IEEE Humanitarian Technologies Board supported the Tech for Good Track. Additional sponsors, including the IEEE TAB Committee on Standards, IEEE Madras Section, and IEEE Young Professionals Madras Section, significantly contributed to the summit’s reach and impact. The event was further enriched by Infosys TechCOHere as the Knowledge Partner, and the IEEE Student Branch of College of Engineering, Guindy, Anna University, as the Host Partner, ensuring the smooth execution and overall success of the summit.

### **10th IEEE International Women in Engineering Conference:**

The 10th IEEE International Women in Engineering Conference on Electrical and Computer Engineering (IEEE WIECON-ECE 2024), jointly organized by IEEE Madras Section WIE Affinity Group, IEEE Bangladesh Section, and IEEE Bangladesh Section WIE Affinity Group, was held on December 6-7, 2024, at the College of Engineering, Guindy, Anna University, Chennai, India. The conference was inaugurated by distinguished speakers, including Prof. E. S. Easwara Kumar (Dean, CEG, Anna University), Prof. Celia Shahnaz (General Chair), Prof. Shaikh A. Fattah (Technical Program Chair), and Prof. Mohammed Moshul Hoque (Organizing Chair), along with eminent guests.

The event featured keynote addresses from global experts, such as Dr. Sherin M. Youssef (Egypt), Dr. Shayla Islam (Malaysia), Dr. Gita Pendharkar (Australia), Dr. Manisha Guduri (USA), and Dr. Ir. Neeli Prasad (Netherlands). The technical program attracted 306 paper submissions, with 118 papers accepted (38%) and 84 registered for presentation (27%), representing research from India, Bangladesh, the USA, Norway, and South Korea. Participants included researchers from Texas State University, Norwegian University of Science and Technology, Kyungpook National University, NITs, IGCAR, Amrita Vishwa Vidyapeetham, and Jadavpur University. With over 250 attendees, IEEE WIECON-ECE 2024 provided a dynamic platform for advancing research, fostering innovation, and celebrating women's contributions to engineering.

## **SIGHT:**

### **IEEE Madras Section SIGHT SUMMIT:**

IEEE Madras SIGHT AG & IEEE Education Society Madras Section Chapter in collaboration with St. Joseph's College of Engineering, Jeppiaar Engineering College, Panimalar Engineering College and Sri Sairam Institute of Technology has organized IEEE MAS SIGHT SUMMIT a Special Celebration on IEEE SIGHT and Education Week on 27th April, 2024 at Sri Sairam Engineering College

The IEEE MAS SIGHT SUMMIT commenced with a grand inauguration, graced by esteemed dignitaries, including Dr. Porkumaran, Mr. Prasanna V B, Mr. Arun M, and Mr. Niranjana Kumar S. The summit featured enriching IEEE EPICS workshops, covering topics from proposal initiation to project implementation in humanitarian engineering. A session on "Climate Change and MOVE Initiative" by Mr. Ashvanth highlighted IEEE's MOVE program, promoting sustainable urban mobility. The Idea Colloquium sparked creativity, with participants presenting innovative solutions evaluated by a jury. Interactive stalls showcased transformative projects in healthcare, education, and environmental conservation. A special STEMit session by Mr. Abdul Halik and Mr. Niranjana Kumar S engaged students with hands-on activities, inspiring future innovators. The summit concluded with a panel discussion on Humanitarian Technologies, exploring technology's role in addressing global challenges and sustainable development.

## **Awards**

IEEE Madras Section organises an IEEE annual meeting and IEEE awards night which was held on 23.02.2024 at 6PM(IST) at the esteemed Hotel Le Royal Meridien, Guindy. Event started with the Annual Meet, Welcome Address was proposed by Dr. K. Porkumaran, Chairman, IEEE Madras Section, he shared about the achievement of Madras Sections & Members. He highlighted the events conducted during the term. Followed by Approval of Previous AM Minutes. Secretary's Report for 2022-23 was presented by Dr. R. Hariprakash, Secretary IEEE MAS. Treasurer's Report for CY 2023 was presented by Dr. S. Radha, Treasurer. Followed by Distribution of Awards and certificate of appreciation and recognition to the Student Branch, Societies, Affinity Groups, Awards Winners.

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

- **Summary (as per submitted on NetSuite) – Accounts Submitted via Next gen**
- **Any other financial activities:**
  - Financial support for the student branches
  - Project funding for students
  - Incentive awards to student branches and society chapters
  - Funding given to organizing Faculty Development Programs
  - Funding given to conduct Technical Lectures
  - Sponsorship of Rs. 5,00,000 given to AISYWC 2024, Madras section

- Funding given to organizing Student's Development Programs
- Travel grand fund Member's, Student's and LM

## **PART B - ORGANIZATIONAL ACTIVITIES**

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

**Dr. Hari Prakash ( Report By)**

## **MEMBERSHIP DEVELOPMENT**

**Total number of active members in the past 3 years**

	<b>31<sup>st</sup> Dec 2024</b>	<b>31<sup>st</sup> Dec 2023</b>	<b>31<sup>st</sup> Dec 2022</b>
Life Fellow		0	1
Fellow	4	5	5
Life Senior	17	18	16
Senior Members	728	629	487
Life Members	9	8	8
Members	2245	2203	1812
Affiliate Members			
Associate Members	65	72	64
Graduate Student Members	463	424	405
Student Members	12820	7460	4773
<b>Total Membership</b>	<b>16351</b>	<b>10819</b>	<b>7571</b>

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

The Chair of Sub Committee on Membership Development Committee of the Section Dr. R. Hariprakash, Young Professional representative Abdul Halik, Benisha & Team and Chairman of the IEEE Madras Section, Executive Committee members of the section have given top priority for the improving the value of membership by organising various events/programs that will lead to retention and growth of members. The membership Committee proudly ascertains that the membership of Madras Section is at present number one position in India Council and 2<sup>nd</sup> in Global level. The following are the MDC related activities organised.

- In the Annual Meeting held on Le Royal Meridien, Guindy, Chennai on 2<sup>nd</sup> September 2022, the MDC Chair Dr.R Hariprakash presented the MDC activity plan and circulated the feedback forms to analyse the suggestions of members.
- The MDC Chair Dr.R Hariprakash participated in an event STEP Opportunities in IEEE Madras Section MDC held at Sri Sairam Engineering College and delivered a talk on membership benefits and achievements.



- The MDC Chair Dr.R Hariprakash inaugurated the IEEE Student Branch at Easwari Engineering College on 10.03.2023 and delivered a talk on the Membership benefits and development activities.
  - The MDC Chair and Membership Development team participated in IEEE MAS Hub Congress held at Sri Krishna College of Engineering, Coimbatore on 18.03.23 and delivered a talk on “Keeping the Spark Alive Strategies for successful Member Retention”.
  - The MD Team issued a Call for volunteers to establish 6 hubs region wise in IEEE Madras Section on 3.12.2023.
  - The MD Subcommittee Chair Dr.R Hariprakash organised a webinar on 08.09.2023 in Something Big is yet to come – Join now | World’s largest Technical Professional Organisation to improve the membership retention.
  - During the IEEE Annual Meet and Award Ceremony held at Hotel Le Royal Meridian at Guindy, Chennai on 23.02.24 , membership strategies and Initiatives were presented to the members.
  - R.Hariprakash participated and delivered talk in Membership Benefits and recognition at SA Engineering College, Avadi organised by IEEE Student Branch of SA Engineering College, held on 29/4/2024.
  - R.Hariprakash participated in IEEE CS SAVants Carnival 24 and delivered a talk on importance of IEEE membership.
  - R.Hariprakash interacted with the IEEE student branch members in FDP on Artificial Intelligence For Sustainable B5G/6G Networks at VelTech university Chennai on 09.09.24.
  - The MDC Chair R. Hariprakash participated in the IEEE Volunteer Leadership Training Program VolT at OMR Chennai on 18.10.2024 and delivered talk on IEEE Membership importance .
  - The MDC Chair R. Hariprakash participated IN IEEE -AISYWLC24 held at Anna University, Chennai on 7.12.24 and moderated the event on “How Professional Bodies Shape Student Success”.
  - The MDC Chair R. Hariprakash presented a talk on Membership benefits and Achievements during the 1 day-in Person IEEE Membership Drive at IITDM@Kancheepuram on 25.01.25.
- **Summary and evidence of work done to improve the value of membership, which leads to retention and growth of members**

## **B.2 Chapter Activities**

- Total number of Chapters in the Section - 30
- Number of Chapters formed in the current year -1

- **Number of active Chapters - 28**
- **Summary of Chapter activities**

#### **Computer Society(CS)**

<b>Sl. No.</b>	<b>Event Date</b>	<b>Topic</b>	<b>Speaker Name</b>
1		IEEE CS DAY @ INFOSYS CAMPUS	Mr HR Mohan
2	29.04.2024 to 30.04.2024	IEEE CS TECH SAVANTS CARNIVAL'24	Multiple Speakers
3	27.09.2024	Symposium on Explainable AI (XAI) -- Call for Papers	Mr. FC Kohli
4	23.08.2024	FLAME—Future Leaders in Automotive & Manufacturing Engineering	Dr. Shankar Venugopal Mr. Sayantan Mukherjee
5	28.08.24 to 31.08.24	Smart Farming: Agricultural Transformation Using IOT, WSN and AI	Mr. Mohamed Rawidean
6	05.09.2024	IEEE CS Day @ KPRIET	Prof. Hironori Washizaki
7	13.09.2024	Tech Talk on "Cryptography and IoT Security"	Ms. Tulika Pandey
8	14.09.2024	Digital Manufacturing and Industry 5.0	Mr. S Ramachandran by Prof. RK Amit Prof. Kulwant Pawar Mr. V Venkatraman
9	20.09.2024	FLAME—Future Leaders in Automotive and Manufacturing Engineering	Dr. Shankar Venugopal Mr. Sayantan Mukherjee Dr. Shankar Venugopal Mr. Meenakshi Sundaram
10	04.10.24	Inauguration of IEEE SB - The Role of Professional Societies in Career Progression	Mr.H.R.Mohan
11	19.10.24	IEEE CS Day @ KARE on Data Science & Analytics	Multiple Speakers
12	07.11.24	IEEE CS Day @ SJIT on Trends in UI/UX Design	Multiple Speakers
13	29.11.2024	Computer Security Day Celebrations Event & Talks	Mr. Arul Selvar Thomas
14	18.12.24	Lecture on Machine Learning and Auction Design	Dr. Sujit Prakash Gujar
10	19.08.24	IEEE CS Day @ SETS	Multiple Speakers

#### **Vehicular Technology Society (VTS)**

Sl. No.	Event Date	Topic	Speaker Name
1	February 26, 2024	Technical Talk on Electric Vehicle Charging Infrastructure	Er. Sivaraman P
2	07 March 2024	Lecture Program on Deep Learning for Massive MIMO Hybrid Beamforming	Dr Kumar Vijay Mishra

#### Power Electronics (PELS)

Sl. No.	Event Date	Topic	Speaker Name
1	9 March 2024	Design and Fabrication of Electric Vehicle	Dr.A.Bharathi Sankar Dr.R.Seyezhai
2	25 June 2024	Webinar on Nuances of Machine Learning	Dr. S. Albert Alexander
3	25 June 2024	Webinar on Power Electronics for 5G Networks	Dr. Sahaya Senthamil L
4	26 June 2024	Webinar on Virtual Reality in Engineering Education	Mr. Chennam Harinantha Reddy
5	26 June 2024	Webinar on Future Trends in Power Electronics	Dr. Brad Lehman
6	27 June 2024	Webinar on Challenges and Opportunities in Automotive Power Electronics	Mr. Pradeep Shenoy
7	30 June 2024	Webinar on Power electronics: Driving Efficiency and Innovation in Everyday Devices	Mr. R. Sivaprasad
8	28 April 2024	Webinar on Power electronics – The Key Technology for Grid Integration	Dr. Frede Blaabjerg

#### Education society:

S.no.	Date	Topic	Speaker
1	17 April 2024	Webinar on Photonics for National Defense	Dr. Naresh Chand
2	19 April 2024	Webinar on Delve into the world of Robotics : An Overview	Mr. Aditya Kameswara Rao Nandula
3	25 April 2024	Webinar on AI and ChatGPT	Dr. S. Balakrishnan

#### Reliability Society:

Sl. No	Event Date	Topic	Speaker Name
1	24 April 2024	Inauguration of IEEE Reliability Society Madras Chapter	Dr. Steven Li, Dr. Janet Lin, Dr. K. Porkumaran

#### Industry Applications Society:

Sl. No	Event Date	Topic	Speaker Name
1	10 <sup>th</sup> May 2024	National Technology Day Webinar	Multiple speaker

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## Power and Energy Society:

Sl. No.	Event Date	Topic	Speaker Name
1.	18 April 2024	Webinar on Machine Learning for Electric Vehicles and its applications	Dr. M. Venkateshkumar
2.	22 April 2024	Webinar on Enhance your IEEE experience with PES	Mr. Gaurav Pathak
3.	26 April 2024	Webinar on Design of Power Controllers	Dr. P. Elangovan
4.	1 May 2024	Webinar on Key factors behind planning a Quality Humanitarian Technology Project	Dr. Hussain Mahdi
5.	9 Sep 2024	PES Nexus	Dr. Jebastine

## 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

### Educational Activities

#### Faculty Development Program (FDP)

FDP Report on **Industrial IoT and Connected Devices:**

IEEE Madras Section Sponsored Faculty Development Program on Industrial IoT and Connected Devices on 01.02.24 to 06.02.24 hosted by Sri Sairam Engineering College. The FDP provided participants with a comprehensive understanding of the rapidly evolving landscape of IoT technologies. Through interactive sessions, hands-on activities, and expert insights, educators gained the knowledge and skills necessary to effectively teach and incorporate Industrial IoT concepts into their academic programs. The program successfully fostered a community of practice among participants, paving the way for continued exploration and innovation in this exciting field.

#### Technical Meetings:

Sl. No.	Date	Topic	Speaker
1.	09 Oct 2024	Technical Education in the Industry 5.0 Era	Dr. Tom Murad
2.	15 Oct 2024	Innovation Infrastructure with Digital Twins: A Forward-Looking Vision	Mr. Sanjay Samuel

## B.4 Students Activities

### Dr .S. Brindha (Report By )

- Total number of Student Branches in the Section - 167
- Number of Student Branches formed in the current year – 2
  - Sree Prince Bavani Engineering
  - Pondichéry University
 This year Mag Event For **AI SYWL -2024** Congress

- **Section level student activities:**

#### **STEP 2024:**

IEEE Madras Section Young Professionals hosted "STEP 2024" on September 28, 2024, at Panimalar Engineering College, Chennai. The event focused on career development, industry expectations, and IEEE opportunities. Sponsored by IEEE Young Professionals and multiple IEEE societies, the event saw active participation from students, professionals, and IEEE volunteers. The inauguration emphasized professionalism and responsibility. Sessions covered IEEE resources, career growth, funding, and project support. Speakers shared insights on enhancing technical expertise, communication skills, and adaptability. A highly interactive session provided valuable takeaways on resume building, interview techniques, and workplace skills. Discussions on emerging technologies, research, and entrepreneurship highlighted IEEE's role in technological advancements. A panel discussion addressed questions on career transitions, skill-building, and IEEE's impact on professional growth. Major takeaways included:

- IEEE membership supports long-term career success
- Opportunities for funding, research, and entrepreneurship
- Effective strategies for job readiness
- Importance of student leadership and IEEE volunteering

STEP 2024 was a transformative experience, equipping participants with knowledge, resources, and connections for professional growth.

- **Number of active Student Branches : 110**

### **B.5 Affinity Group Activities**

#### **Women In Engineering (WIE)**

<b>Sl. No.</b>	<b>Event Date</b>	<b>Topic</b>	<b>Speaker Name</b>
1.	31 Jan 2024	Webinar Series: EmpowerHer: WIE Knowledge Exchange- Revolutionize Healthcare - The Power of AI in Medicine	Dr. R. Vedhapriyavadhana
2.	18 Feb 2024	Webinar Series: EmpowerHer: WIE Knowledge Exchange- Cyber Security in 360 Degree	Dr. R. Maheswari
3.	08 March 2024	Webinar on Breaking Barriers: Empowering Women in Leadership	Dr. Sree Sharmila. T
4.	08 March 2024	Mangai 3.0	Dr. Sree Sharmila
5.	09 March 2024	Webinar on From Ambition to Action: Cultivating Female Leadership	Dr. Vijayalaxmi Birader
6.	11 March 2024	Womansera	Ms. J. Divya Ms. Deepa Vijayaraghavan
7.	11 March 2024	Webinar on Shaping Tomorrow: Women Engineers Driving Innovation and Inclusion	Ms. Celia Shahnaz
8.	13 March 2024	Webinar on Strategies for Women in Engineering Leadership	Ms. Gresha Samarakkody

9.	14 March 2024	Webinar on 2024 Technology Trends	Ms. Jyotika Athavale
10.	18 March 2024	Webinar on Fierce and Fearless: Women Making Waves	Dr. Brindha Saminathan
11.	13 April 2024	Webinar on A Day in the life of a deep learning compiler Engineer	Ms. Pavani Majety
12.	23 June 2024	Video Podcast Series on Impact of Artificial Intelligence (AI) on the 4R technologies: Reduce, Reuse, Recycle, and Recover	Ms. Raisa fahiba
13.	23 June 2024	Video Podcast Series on Challenges: Women in Engineering	Dr. Jacinta Lamontagne
14.	23 June 2024	Video Podcast Series on Impact of Artificial Intelligence (AI) on the 4R technologies: Reduce, Reuse, Recycle, and Recover	Dr. Leena Chandrasekar
15.	23 June 2024	Video Podcast Series on Vital Role of Women in AI and Industry 4.0	Dr. Agnes Irwanti
16.	October 3-5, 2024	IEEE Women in Engineering International Leadership Summit Chennai 2024, October 3-5, 2024	Ms. Jinu George Ms. Lakshmi Balakrishnan Mr. Victor Sundararaj Dr. Ramalatha Marimuthu Meenakshi Subramanian Ms. Preethi Sankkari Mr. Arun M Multiple speaker
17.	December 6-7, 2024	10th IEEE International Women in Engineering (WIE) Conference on Electrical and Computer Engineering 2024 (IEEE WIECON-ECE 2024)	Prof. Celia Shahnaz Prof. Shaikh A. Fattah Prof. Mohammed Moshul Hoque Prof. K. Porkumaran Prof. P. Sakthivel Multiple speakers

#### Special Interest Group on Humanitarian Technology(SIGHT)

Sl. No.	Event Date	Topic	Speaker Name
1.	7 March 2024	IEEE SJCE SIGHT AG Inauguration	Mr. M.Arun
2.	25 April 2024	Webinar on Implementing IEEE SIGHT Project	Dr. Soma Prathibha, M. Manish M. Krithika Abhijay Gopal S
3.	25 May 2024	Panel Discussion on “Uses and Applications of Solar Energy in Agriculture and Fisheries	Dr. C. Sharmeela
4.	1 May	Webinar on Key factors behind planning a Quality Humanitarian Technology Project	Dr. Hussain Mahdi
5.	28 April 2024	Webinar on Delving into IEEE	Mr. Abhinav R
6.	24 April 2024	Webinar on Beginning your SIGHT Journey	Mr. Dhiraj Mani Chaurasia Mr. Dhiraj Mani Chaurasia

7.	27 April 2024	Special Celebration on IEEE SIGHT and Education Week	Mr. Prasanna V B Mr. Arun M Mr. Niranjana Kumar S Mr. Ashvanth Mr. Abdul Halik
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### Young Professionals(YP)

S. No	Date	Event Title	Speaker Name
1	08 Feb 2024	IEEE Region10 Robotics Competition Alumni Talk	Mr. Akarsh Ashok
2	11 Jan 2024	Research Convergence Conclave: Unleashing Internship Initiatives	Dr. Paventhan Arumugam
3	05 Feb 2024	"EcoRev' 24" Cycle Rally - "Pedal for a Sustainable Future"	Dr. Vaddi Seshagiri Rao, Dr. K. Porkumaran and Multiple Speakers
4	26 Feb 2024	Technical Talk on Electrical Vehicle Charging Infrastructure	Er. Sivaraman P
5	02 Mar 2024	IEEE Madras - Singapore Young Professionals Connect 2024	Dr. Shoeb Shaikh, Dr. Ramalatha Marimuthu, Mr. Arun M and Multiple Speakers
6	13 Jan 2024	IEEE Madras Young Professionals Execom Meeting 15 (Virtual)	Mr. M. Arun
7	17 Feb 2024	IEEE Madras Young Professionals Execom Meeting 16 (Virtual)	Mr. M. Arun
8	17 Mar 2024	IEEE MADRAS YOUNG PROFESSIONALS EXECOM MEETING 17 (VIRTUAL)	Mr. M. Arun
9	13 Apr 2024	IEEE MADRAS YOUNG PROFESSIONALS EXECOM MEETING 18 (VIRTUAL)	Mr. M. Arun
10	09 Mar 2024	"From Ambition to Action: Cultivating Female Leadership"	Dr. Vijayalaxmi Biradar
11	15 Mar 2024	Unlocking Insights With Data Visualization: A Guide to Tableau and Power BI	Mr. Thilakesh Raj
12	16 Mar 2024	From Zero to Data Hero - Your Roadmap to Mastering Data Analytics	Mr. Muhammad Auwal Yahaya
13	16 Mar 2024	Awareness Webinar on IEEE Outstanding Branch Counselor and Branch Chapter Advisor Award	Dr. T. SREE SHARMILA
14	18 Mar 2024	Awareness Webinar on IEEE MGA SAC Awards	Dr. D. NIRMAL
15	20 Mar 2024	Awareness Webinar on The Darrel Chong Student Activity Award	Dr. S. BRINDHA
16	18 Mar 2024	Fierce and Fearless: Women Making Waves in Stem Fields	Dr. S. BRINDHA
17	24 Mar 2024	Awareness Webinar on IEEE Regional Exemplary Student Branch Award	Mr. Arun M

18	30 Mar 2024	ElevateYP	Mr. Shone Jose and Multiple Speakers
19	06 Apr 2024	MASYPreneur	Mr. Shyam Siddarth and Multiple Speakers
20	17 Apr 2024	Photonics for National Defense	Dr. Naresh Chand
21	19 May 2024	IEEE Madras Young Professionals Execom Meeting 19 (Virtual)	Mr. Abdul Halik M I
22	23 Jun 2024	IEEE Madras Young Professionals Execom Meeting 20 (Virtual)	Mr. Abdul Halik M I
23	23 Jul 2024	IEEE Madras Young Professionals Execom Meeting 21 (Physical)	Mr. Abdul Halik M I
24	31 Aug 2024	IEEE Madras Young Professionals Execom Meeting 22 (Virtual)	Mr. Abdul Halik M I
25	6 Oct 2024	IEEE Madras Young Professionals Execom Meeting 23 (Virtual)	Mr. Abdul Halik M I
26	28 Sep 2024	IEEE REGION 10 YOUNG PROFESSIONALS UPSKILL 2024 - MADRAS	Ms. Indhumathi Gunasekaran, Dr. D. Nirmal and Multiple Speakers
27	3 Oct 2024	IEEE Madras Young Professionals Meetup 2024	Mr. Arun M and Madras Section Young Professionals Team
28	19 Sep 2024	AeroModCon 2024 supported by IEEE Region 10 Industry Relations Committee	Ms. Reshmaja Ramesh and Multiple Speakers
29	27 Sep 2024	IEEE Madras Young Professionals STEP 2024	Mr. Navaneetha Krishnan and Multiple Speakers
30	12 Oct 2024	Workshop on vTools Reporting	Mr. Prasanth Mohan
31	19 Oct 2024	IEEE Madras YP - Volunteer Leadership Training Program 2024	Mr. Ashvanth B and Multiple Speakers
32	10 Sep 2024	TechX JIT Madras	Ms. Indhumathi Gunasekaran and Multiple Speakers
33	4 Jul 2024	Winning with WIE: Opportunities and Benefits	Dr. S. Harivardhagini
34	11 Jul 2024	Semiconductor technology: India roadmap	Dr. Usha Mehta
35	9 Jul 2024	"Women in Smart Cities"	Dr. Surekha Deshmukh
36	8 Jul 2024	"Engineering Leadership and the Future of Work"	Mrs. Leslie Martinich
37	6 Jul 2024	AI and deep learning for 4IR Technologies	Dr. Celia Shahnaz
38	30 Jun 2024	"Power Electronics: Driving Efficiency and Innovation in everyday devices"	Mr. Sivaprasad
39	28 Jun 2024	"Power Electronics - The Key Technology for Grid Integration"	Dr. Frede Blaabjerg
40	12 Jun 2024	Mastering the Art of Cracking Interviews	Mr. Kingsly Rajkumar
41	26 Apr 2024	Design of Power Converters	Dr.P.Elangovan
42	25 Apr 2024	Insights on Implementing IEEE SIGHT Project	Soma Prathibha



43	28 Apr 2024	Delving into IEEE SIGHT	Abhinav R
44	24 Apr 2024	Beginning your SIGHT	Mr. Dhiraj Mani Chaurasia,
45	27 Apr 2024	Robothon 2024	Mr. Akarsh Ashok
46	22 Apr 2024	Elevate IEEE your journey with PES	Mr. Gaurav Pathak
47	19 Apr 2024	Delve into the world of Robotics	Mr. Aditya Kameswara Rao Nandula
48	7 Dec 2024	IEEE Madras Young Professionals Meetup at AISYWLC 2024	Mr. Arun M and Madras Section Young Professionals Team
49	22 Dec 2024	IEEE MGA Rebate Funding Tips for Student Branches	Mr. Prasanth Mohan
50	9 Nov 2024	IEEE RELIABILITY SOCIETY MADRAS SUMMIT	Mr. Aravindhnan Anbazhagan and Multiple Speakers

### Life Member (LM)

Sl. No.	Event Date	Topic	Speaker Name
1	19 March 2024	How To think Like an Engineer?	Dr. Timothy

## B.6 Awards & Recognition Activities

### Award constituted by the Section

Various awards have been distributed to encourage the student branches & societies to conduct more activities, cash awards & certificates of appreciation are being distributed every year at the Annual Meet.

The selection of SBs for the awards is based on the parameters such as activities conducted, membership strength, reporting in the newsletter, website maintenance, society chapters in the SBs, awards, funding received, etc., Similarly, the Society Chapters and Affinity Groups are awarded based on their activity level, accounts submission, website maintenance, etc.

Awards will be given to different categories like Best Student Branch Counselor, Best Researcher, Best YP, Best WIE, Best Student Volunteer, Best Student Branch, Best Society Award, Life Time Achievement Award. 160 applications received.

#### Best Researcher Award (Age 40 and Below)

1. Dr. M. Gulam Nabi Alsath, College of Engineering Guindy
2. Dr. Nirmal D, Karunya Institute of Technology and Sciences
3. Dr. N. Sivakumar, Sri Sai Ram Engineering College, Chennai

#### Best Researcher Award (Above 40 and Below 50)

1. Dr. S.Albert Alexander, Vellore Institute of Technology, Vellore
2. Dr. C.Bharatiraja, SRM Institute of Science and Technology, Chengalpattu
3. Dr. U.Snehalatha, SRM Institute of Science and Technology
4. Dr.Nagarajan V ,Pondicherry Central University

#### Best Researcher Award - Above 50

1. Dr. P. Partheeban, Chennai Institute of Technology, Chennai
2. Dr. S. Malarvizhi, SRM Institute of Science and Technology, Chennai
3. Dr.T.Thyagarajan, Former Dean, MIT Campus, Anna University

**Publication Awards**

1. Dr.C. Bharatiraja,,SRM Institute of Science and Technology
2. Gunasekaran Raja,Anna University, Chennai
3. Anisha Natarajan,SRMIST
4. Kumar Prasannajit Pradhan,IIITDM Kancheepuram
5. Rameez Raja Shaik,IIITDM Kancheepuram
6. Jagabar Sathik M,SRM Institute of Science and Technology
7. Dr. N. Prabakaran,SASTRA Deemed University
8. Soumyaranjan Routray,SRM Institute of Science and Technology
9. Dr. Suchetha M,VIT University
10. Dr.U.Snehalatha,SRM Institute of Science and Technology
11. Dr.J.Divya Navamani,SRM institute of Science and Technology
12. Nrusingha Charan Pradhan,
13. Dr. C.K. Sundarabalan,SASTRA Deemed University
14. Dr. Pandiyarasan Veluswamy,IIITDM Kancheepuram
15. Senthilkumar M,PSG College of Technology
16. Rajakumari V,IIITDM Kancheepuram
17. Dr. Vijayalakshmi Dhinakaran,SRM Institute of Science & Technology
18. Dr. Sandeep Kumar Palaniswamy,SRM Institute of Science and Technology
19. Nirmal D.,Karunya Institute of Technology and Sciences
20. Srilekha M K,SRM Institute of Science and Technology
21. Vasuki A
22. Dr. Varshini Karthik,SRMIST
23. P. Vijayakumar,SRMIST
24. Dr.K.Sakthidasan Sankaran,Hindustan Institute of Technology and Science,
25. S. J. Jebasingh Kirubakaran, Vel Tech Multitech Dr.Rangarajan Dr.Sakunthala Engineering College
26. Rajesh Agarwal,SRMIST
27. Dr. S.Albert Alexander,VIT, Vellore
28. Dr.M.Anto Bennet

**Patent Awards**

1. Mohammed Gulam Nabi Alsath,College of Engineering Guindy
2. Dr.S.Balakrishnan, SKCET
3. Dr Ramprabhu S, Anna University
4. Dr.U.Snehalatha,SRM Institute of Science and Technology
5. Dr. G. Puthilibai, SAI RAM
6. Anitha G
7. Dr.C. Bharatiraja,,SRM Institute of Science and Technology
8. Dr. Varshini Karthik, SRMIST
9. Jayanthi Thiruvengadam
10. Padmini S
11. Dr. S. Kirubaveni
12. Dr. Harigovindan V P, National Institute of Technology Puducherry
13. R. G. Sangeetha, VIT
14. Dr. K. Porkumaran, Sri Sai Ram Engineering College
15. Dr. Sandeep Kumar Palaniswamy, SRM Institute of Science and Technology

**Student Branch Counsellor**

1. Dr. S. Malathi,Panimalar Engineering College
2. R. Sreekanth, St.Joseph's College of Engineering
3. Dr.V.Nandalal,Sri Krishna College of Engineering and Technology

**WIE Volunteer Award**

1. Dharani, St.Joseph's College of Engineering
2. Reshma, Panimalar Institute of Technology
3. Soumya M

**Student Volunteer Award**

1. Sushmitha M, Panimalar Institute of Technology

2. Reshma B, Panimalar Institute of Technology
3. Arisudan TH, St. Joseph's College of Engineering

#### **Young Professionals**

1. Heyram, Zoho Corporations
2. Mithresh GP, Prodapt Solutions
3. Nandhitha K, Bosch, Coimbatore

#### **Society Chapter LS.**

1. Dr. Soma Prathibha, Sri Sairam Engineering College
2. Mr. Kanagaraj venusamy, Rajalakshmi Engineering College
3. Rajaram Krishnamoorthy, Velalar college of Engineering and Technology
4. Dr. Kumar Prasannajit Pradhan, IIITDM Kancheepuram

#### **Student Branch Award**

1. Jeppiar Engineering College
2. SA Engineering College
3. Sri Sai Ram Institute of Technology
4. Thiagarajar College of Engineering

#### **IEEEEXTREME 17.0**

1. Sri Sai Ram Engineering College

#### **Special Awards**

1. MGA Achievement Award, Dr. R. HARIPRAKASH, Bharath Institute Of Higher Education And Research
2. MGA Young Professionals Achievement Award, Mr. M. Arun, Panimalar Engineering College
3. IEEE CS T Michael Elliot Distinguished Service Certificate, Mr. H R. Mohan , ICT Consultant
4. IEEE R10 SAC Outstanding Volunteer Award - Special Recognition, Sri Sai Ram Engineering College
5. IEEE Regional Exemplary Student Branch Award The Darrel Chong Student Activity Award [Gold] -St. Joseph's College of Engineering
6. IEEE Regional Exemplary Student Branch Award The Darrel Chong Student Activity Award [Gold] - Sri Sai Ram Institute of Technology
7. IEEE Regional Exemplary Student Branch Award The Darrel Chong Student Activity Award [Gold] - Panimalar Institute of Technology
8. IEEE Regional Exemplary Student Branch Award The Darrel Chong Student Activity Award [Silver] - Jeppiaar Engineering College
9. IEEE R10 SAC Outstanding Student Branch Award- Sri Sai Ram Engineering College
10. Global Strategy Representative-India [2024-2026] -IEEE Photonics Society ,USA, Dr. Brindha Saminathan, Sri Sai Ram Engineering College
11. Board of Governor, IEEE Computer Society, Mr. Prasanth M, QuestionPro
12. Vice Chair, IEEE Region 10 Women In Engineering, Ms. Pooja Sharma
13. IEEE REGION 10 Lead, IEEE DAY, Mr. ABHIJAY GOPAL S, Sri Sai Ram Engineering College

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

- Newsletter (name and number of issues in the year)
  - Name: IEEE Mas-Link
  - Number of issues in the year: 6 issues (Two months once)
  - Web Link for Newsletter: <https://www.ieemadras.org/news-letter-2/>
  - Email ID: [ieemaslink@gmail.com](mailto:ieemaslink@gmail.com)
- Home Page of the Section : <https://ieemadras.org>

Other means of contacts with Section members including social media : IEEE Madras Section office is in regular touch with all the members through the mail and by creating Listserv IDs for Members, Students, and other

Student Branches. - The IEEE Madras Section website has been upgraded. There are login credentials for different modules set up in this system.

## B.8 Industry Relations:

1. **IEEE MAS Industry Forum** hosted in **VIT Chennai, April 1, 2023** with the participants of 80+ to create awareness about the Industry 4.0 and current business trends among the student community.
  2. **IEEE MAS YP UPSKILL** hosted in St. Joseph Engineering College, Chennai, **July 23, 2023**, with the participants of 100+ to enhance the individual portfolios and visibility.
  3. **IEEE MASYPRENEUR** hosted in Rajalakshmi Engineering College, **April 6, 2024** with the participants of 50+ to create the awareness about entrepreneurship and to create the entrepreneurship community in Madras Section.
  4. **IEEE MAS Global Leadership Summit**, hosted in **Le Royal Meridien, July 2024** with the participants of 100+ to have network with Global IEEE Leaders.
  5. **IEEE VOLT** hosted in **Grootan Technologies, October 19, 2024**, with the participants of 75+ to train the section volunteers.
- Membership growth and retention : Nil
  - Activities for/with industrial members: Nil

## B.9 Humanitarian Technology Activities

- **Humanitarian Technology related activities supported by the Section including collaboration with other OUs.**

### **IEEE WIE PROJECT-BASED LEARNING SCHOOL CAMP 3.0**

A Collaborative Initiative by Ramneek Kalra (IEEE Impact Creator), WIE Madras Section, WIE Gujarat Section, WIE UP Section, and WIE Bombay Section AGs in association with IEEE TryEngineering Stem Portal, Youth for Sustainability, Junior Einstein Track (IEEE YESIST12-2022), Raspberry Pi, Bhumi Foundation and Infinite Engineers with utmost support of the Host Partner - Manav Rachna University, Haryana, India. In order to provide knowledge of the importance of pre-university education in the school students from Grade 8th to 12th, for the first time ever IEEE Women in Engineering Project Based Learning School Camp 3.0 is organized in Hybrid mode at Manav Rachna University, Faridabad, Haryana, India was held from 18th -25th June 2022 concentrating on the theme of “Sustainability Technology for Humanity”.

- SIGHT Activities: 05

## B.10 Community Activities

- **IEEE Social activities**
  - **Video Podcast Series**

The IEEE Madras Section, IEEE Madras Section Women in Engineering Affinity Group, IEEE Madras Young Professionals AG, Panimalar Engineering College and Panimalar Institute of Technology collaboratively organized a Video Podcast Series in celebration of WIE Day 2024, honoring International Women in Engineering Day 2024. This series featured distinguished speakers who shared insights on various aspects of engineering, sustainability, and gender inclusivity in the field. Ms. Raisa Fahiba, IEEE WIE Day 2024 Chair and IEEE WIE Co-Chair, discussed the impact of Artificial Intelligence (AI) on 4R Technologies (Reduce, Reuse, Recycle, and Recover), highlighting AI's role in optimizing waste

management and sustainability efforts. Dr. Jacinta Lamontagne, Executive Coach, Consultant, Dentist, and CEO of Excite Excellence, addressed the challenges women face in engineering and emphasized the importance of fostering inclusive environments to empower future generations of female engineers. Dr. Leena Chandrasekar, Assistant Professor at RNSIT and Exe-Com Member of IEEE SPS, EMBS, and WIE Bangalore Chapter, shared her experiences and insights on women's contributions to engineering, inspiring participants through interactive discussions. Dr. Agnes Irwanti, IEEE R10 WIE Committee Chair and TVRI Supervisory Board Member, delivered an insightful talk on the role of women in AI and Industry 4.0, discussing advancements in cyber-physical systems, IoT, and intelligent data analytics. With the guidance of staff coordinator Mr. M. Arun, this series provided an enriching platform for knowledge exchange and empowerment, celebrating the contributions of women in engineering and inspiring future leaders. The event successfully attracted students, professionals, and educators, leaving a lasting impact on all attendees.

## **PART C - OTHERS**

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

- Please briefly describe the importance of special events and the outcomes achieved
- Funding secured from the IEEE and external sources including sponsorships –
- **Summary (as per submitted on NetSuite) – Accounts Submitted via Next gen**
- **Any other financial activities:**
  - Financial support for the student branches
  - Project funding for students
  - Incentive awards to student branches and society chapters
  - Funding given to organizing Faculty Development Programs
  - Funding given to conduct Technical Lectures
  - Sponsorship of Rs. 5,00,000 given to AISYWC 2024, Madras section
  - Funding given to organizing Student's Development Programs
  - Travel grand fund Member's, Student's and LM

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

**Nature of relationship and details of any formal agreement signed:**

- IEEE Madras Section works in close collaboration with other Professional Society Chapters in Chennai. World Telecommunication Day was organized by the IETE center, Chennai, and was co-sponsored by IEEE Madras Section.
- IEEE Madras Section also co-sponsored the programs organized by the Institution of Engineers (India), Chennai Centre.
- Rupees 5000 have been distributed to perform various collaborative events within and outside the section

### **Details of joint activities:**

IEEE Madras Section, IEEE Computer Society, and Computer Society of India, which is a National Professional Society jointly, organize programs of common interest like Object Computing.

**The benefit to IEEE members (for example discounts, access to technical information, etc.)** – Discounts are given for IEEE Members for the programs conducted like FDP and Technical events

Benefit to Section (for example help in membership development, venue facilities, cost-saving, etc.)- Nil

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

- **Hosted AISYWLC**
- Joint activities with any other Section - 3

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

- **Support extended for organising technical, educational and professional activities**
  - ✓ Funds provided to society chapters & affinity groups
  - ✓ Several collaborative events conducted within society chapters & affinity groups.
  - ✓ During Annual Meet (AM), every year, cash awards and appreciation certificates are awarded to the active Society Chapter based on the activities conducted.
  - ✓ Appreciation certificates were given to Societies Chapters of the section. These awards were distributed during the Annual Meeting, to motivate the Section societies to perform better. It resulted in the enhancement of Society Chapter performance.
- **Joint activities for membership development**

The Membership Development Committee of IEEE Madras Section organized a Membership Development Contest in May 2024 to recognize student branches for their efforts in membership growth and engagement. Nearly 20 student branches participated, showcasing their initiatives in recruitment, retention, and outreach.

After careful evaluation, Panimalar Institute of Technology emerged as the winner, receiving a cash prize of ₹15,000, while KPR Institute of Engineering and Technology secured the runner-up position with a cash prize of ₹10,000. The contest successfully fostered innovation in membership development, encouraging student branches to adopt impactful engagement strategies. IEEE Madras Section congratulates the winners and all participants for their dedication to strengthening the IEEE community.

- **Support extended for the formation of a Sub-section or transition of a Sub-section into a full Section: Nil**

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

- For students, engagement, and to progress their knowledge, UpSkill and MAS-E tech symposium was accomplished.
- Conducted student Training programs for students' community and enhanced the student membership of the section.
- Regular Faculty Development programs in different locations in the state to benefit a good number of faculty members.
- The Student project funding for undergraduate students.
- Technical Support and sponsorship by the section to the student branches for various technical programs like Conferences, Workshops, Seminars, Symposia, etc., for the improvement of Quality of the technical activity in the student branches.
- Community outreach program to mold better youth of the country.
- Technical Lecture series organized by the technical society chapters.
- Communication and personality development programs are organized by the section.
- Recognition & Awards during Annual Meet to active student chapter and technical societies.
- Award to the authors who have published papers in IEEE Journals.

### **C.5 Problems anticipated and suggestions for solutions, if any**

- Retention of Student members is one of the major issues faced by the section,
- Steps have been taken in the form of organizing webinars on IEEE Membership benefits and by enhancing the Student branches to conduct more technical events.
- To increase in professional members on account of increase in members subscription

## **PART D - GOALS AND PLANS**

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

1. The funding for the student project proposal is continuous every year in order to enhance the technical competencies of the students.
2. To conduct more membership development programs to improve student and professional memberships.
3. A Project exhibition contest is planned to identify creative and innovative proposals and implement of strategy for further improvement.
4. Planning to organize more Faculty Development Programs in order to increase the number of beneficiaries. This will improve the quality of teachers and improve the teaching-learning process as a whole.
5. More Student Training Programs based on the demand from members.
6. Organization of conference organizers workshop **to equip** the institution leadership to organize good clarity conference.
7. To conduct Industry related and Entrepreneurship programs.

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

1. To geographically spread the technical activity organized by the section, the society chapters, and affinity groups.

2. Plan to organize the Membership awareness programs in the connected places.
3. To make the activity more student-centric such that the future Engineers are more competent in all Endeavors.
4. To take the technical knowledge and state-of-the-art technology to the rural parts as well. To create awareness about Science and Technology at the school level.
5. To organize workshops on advanced health care for a better quality of life.
6. To increase the chapter membership and senior membership Programs
7. To coordinate with industries for a better student branches industry connect.
8. Organize industrial visits for IEEE student members.
9. Organizing webinars on emerging technologies.

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

- To conduct more membership awareness programs.
- Planning to circulate IEEE months newsletter to all the educational institutions who are not part of IEEE even if no IEEE Student Branch is functioning.
- Recognition of outstanding professionals and volunteers
- To conduct the Membership drive in industries.
- Student Branch Leadership Enhancement & Development Drive has been conducted to make inactive SBs into dynamic SB.

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