

REGION 10 MADRAS SECTION REPORT 2023

PART A - SECTION SUMMARY

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

- 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
- IEEE R10 - Madras Section Student Summit 2023**



The IEEE R10-Madras Section Student Summit 2023, held on October 14th, 2023, was a resounding success, providing a rich learning experience and fostering connections among approximately 150 participants, including students, professionals, and IEEE members. The day commenced with enthusiastic registration, as participants from diverse institutions gathered to embark on a day filled with learning and collaborative opportunities. The summit kicked off with an inspiring Inaugural Address by Dr. Sakthivel P, Vice Chair, IEEE Madras Section followed by Takako Hashimoto from Chiba University of Commerce, Japan, highlighting the paramount importance of international collaboration in the field of electrical and electronics engineering. Highlighting the Importance of Continuing IEEE Membership: Following this, Mr. Aravindhyan Anbazhagan, IEEE BoG, Professional Communication Society Past Chair, and IEEE MAS YP, expanded on the theme of "A Journey, Not a Destination: The Everlasting Value of IEEE Membership," emphasizing the global reach and impact of the IEEE community. A "Volunteers Networking Activity" offered an opportunity for participants to connect and collaborate, strengthening the IEEE community lead by Mr Abdul Halik M I, Secretary of IEEE Madras Young

Professionals. In closing, Dr. Sangeetha R.G., an Ex-Com Member of IEEE Madras Section, offered a vote of thanks to speakers, organizers, and participants, expressing gratitude for making the IEEE R10-Madras Section Student Summit 2023 an outstanding event. Dr. K. Porkumaran, Chair IEEE MAS delivered the closing note. The summit provided a comprehensive exploration of IEEE opportunities, innovation, sustainability, and leadership, leaving a lasting impact on all participants and further strengthening the IEEE community in the region.

Global Leadership Connect 2023 and IEEE HTB Global Workshop:

On 20.2.23, IEEE Madras section organized Global Leadership Connect 2023 and IEEE HTB Global Workshop. The speaker for the day was Mr. Sampathkumar Veeraraghavan, 2023 Global President, IEEE Eta Kappa Nu (HKN) and Global Chair 2023 IEEE HTB Partnership. Dr. K. Porkumaran, Chairman IEEE MAS delivered the welcome address and who also highlighted the section's accomplishments of the section. Mr. Sampathkumar focused on the importance of engaging students and technologists in humanitarian activities and sustainable innovations. He elaborated on the strategic areas of focus of HAC, which included raising awareness, providing training, supporting humanitarian technology and sustainable development activities, and building a sustainable development community. He also talked about SIGHT, Special interest group on Humanitarian Technology, and provided tips on approaching project context and writing proposals. Lastly, he discussed the global strategic plans and how HTB fits into this plan. Following the workshop, IEEE India Council prize winners and Madras Section REM scholars were honored. Dr. R. Hariprakash, Secretary, IEEE MAS delivered vote of thanks. Around 75 Participants attended the event.

IEEE Madras Section Hub Congress - Coimbatore

IEEE Madras Section Hub Congress - Coimbatore was held in Sri Krishna College of Engineering and Technology, Coimbatore on 18th March 2023 at 09.00 am in the Convention Center. Dr. K. Porkumaran, Chairman, IEEE Madras Section welcomed the gathering and Dr. R. Hariprakash, Secretary, IEEE Madras Section briefed the gathering about the significance of IEEE Madras Section Hub Congress. Dr. J. Janet, Principal, Sri Krishna College of Engineering and Technology delivered the felicitation address and motivated the participants to rightly assimilate knowledge, channelize their ideas and explore cutting-edge technologies that will shape the future of our field. Dr. S. Radha, Treasurer, IEEE Madras Section introduced the eminent speakers of this event. Shri. Tom Coughlin, 2023 IEEE President-Elect. delivered the presidential address and gave the insights of the importance of IEEE membership and the madras section. Dr. Chun Che Lance Fung, Director, IEEE Region 10, Emeritus Professor, Murdoch University delivered the inaugural address of this congress and spoke on the importance and benefits of IEEE membership and the plethora of activities planned under IEEE. Dr. S. Joseph Gladwin, Vice Chairman – Industry, IEEE Madras Section introduced the chief guest of the event. Commodore. B Balasundaram, Director, Centre for Indigenisation and Self Reliance CISR, Indian Navy, Govt. of India delivered the chief guest address. In his address, he proudly stated that the Indian Navy has responded effectively to the clarion call of our Hon'ble Prime Minister for Aatma Nirbhar Bharat and have successfully built indigenous warships like INS Vikrant. More than 250 young and energetic students participated in this event to enhance their knowledge and to explore the opportunities available. He addressed about the Defence innovation organization and the DISC level events. Dr. S. Brindha, IEEE Madras Section SAC, Sub-Committee Chair proposed the vote of thanks for the Inaugural Ceremony. During the day, several eminent personalities enlightened the gathering on various topics. Special panel discussions were held for IEEE Young Professionals and IEEE Women in Engineering. Team of people like Mr. Maharajan, L M Maria Shirley John, Ms. Manju, Mr. Balasai, Mr. Niranjana Kumar, Mr. Adithiya, Mr. Alwyn Samuel, Mr. Harry Jakin S Volunteered Ice Breaker and Activity. Dr. S. Brindha, IEEE Madras Section SAC, Sub-Committee Chair addressed the gathering and unveiling the IEEE potential. Dr. Takako Hashimoto, IEEE R10 Director Elect, Vice President, Chiba University of Commerce, Japan shared the main idea and seven habits to develop global career.

Mr. Pramod Kumar P, Manager - Education, IEEE India shared their views on IEEE blended learning program and other educational initiatives. Dr. D. Nirmal, Ex-Com Member, IEEE Madras Section, gave the insights for the students on the IEEE Awards & Scholarships Recognize Outstanding Achievements. 4 Best IEEE Student Branch Practices and Activities Moderator - Mr. M. Arun, Ex-Com Member, IEEE Madras Section Dr. Jayarama Pradeep V R, Exe-Com Member IEEE WIE, MAS Prof. & Head EEE, St. Joseph's College of Engineering gave their thoughts and views on Best Practices for IEEE Student Branch Interactions. Team of people includes Dr. S. Sasikala, Associate Professor, Kumaraguru College of Technology Dr. S.K. Uma Maheswaran, Professor - Mathematics Coordinator | Unnat Bharath Abhiyan (UBA), Chapter Advisor, Senior member - IEEE SSIT SBC, Sri Sairam Engineering College Dr. Soma Prathibha, Associate Professor, IT, Sri Sairam Engineering College, Vice-chair, IEEE MAS WIE Dr. Alagumeenaakshi M, Associate Professor, Kumaraguru College of Technology discussed the Empowering Communities through Technology: The Role of IEEE SIGHT & HAC. There are three main sessions conducted. One was with the team of Mr. Ramesh Ananthavijayan, Technology Director, Automotive Steering, Bosch Global Software company, Coimbatore Dr. Divyanashu Verma, CEO, Redinent Innovations, a cyber security Start up, Co-Founder of Redinent Innovations and KareKeBa Investment Platform

Mr.Navaneetha Krishnan, Chairman, IEEE, SSIT Madras Section Dr. S. Joseph Gladwin,Vice Chairman – Industry, IEEE MAS Moderator- Dr. Prashant R. Nair, Associate Professor, Vice-Chairman,Internal Quality Assurance Cell (IQAC), Amrita Vishwa Vidyapeetham, Coimbatore, jointly shared their thoughts and views on the power of industry interaction towards the collaborating for success.Mr. M. Arun, Chairman, IEEE MAS YP, Ex-Com Member, IEEE Madras Section Mr. Aravindhnan Anbazhagan, Board of Governor, IEEE ProfessionalCommunication Society, Past Chair, IEEE MAS YP Mr. Abdul Halik, Secretary, IEEE MAS YP Mr. G P Mithresh, Voulnteer, IEEE MAS Moderator: Dr.Elangovan Sankaranarayanan,Vice Principal, Head - Corporate Relations, Jansons Institute of Technology , they gave the insight about the YP theme where the Work-Life-Alumni Balance: Finding Harmony in Your Professional Journey. Dr. Ramalatha Marimuthu, Director, iExplore FoundationOmbudsman, IEEE Computer Society 2022 Dr. S. Radha, Treasurer, IEEE Madras Section Dr. T. Sree Sharmila, Chairperson, IEEE Madras Section, WIE Ms. Nandhitha Kalyanasundaram , Secretary, IEEE MAS WIE Dr. J. Janet , Principal,Sri Krishna College of Engineering and TechnologyDr. S. Sophiya, Dean,R&D, Ranking & Accreditation,Sri Krishna College of Engineering and Technology Moderator:Ms. Indhumathi G,Treasurer, IEEE MAS YP, gave insight into the WIE Theme where it has Diversity Inclusions. Prof. Dr. S.N. Sivanandam, Former Emeritus Professor, PSG College of technology, Coimbatore, addressed the gathering and shared his views on the importance and benefits of IEEE membership and Hub Congress. The Congress came to an end by 05.30 pm.



IEEE Madras Industry Forum 2023 (MASIF 2023)

IEEE Madras Section & IEEE MAS Young Professionals hosted ‘IEEE Industry Forum - 2023’ on 01.04.23, at VIT Chennai Campus. In today's rapidly evolving business landscape, the integration of technology and business practices is crucial for success across various industries. The event aimed to foster collaboration and bridge the gap between industry and academia. The event was sponsored by the IEEE Madras Section, IEEE Madras Young Professionals and IEEE Madras Women in Engineering. Dr. K. Porkumaran, Chairman of IEEE Madras Section and Principal/Senior Professor at Sri Sairam Engineering College, initiated the session with a Welcome address. Respected Chief guest, Mr. George Koshi, Director of Learning & Development at Sify Technologies Ltd and a Leadership Coach and Design Thinker, took part in the event. Event’s Special address was given by Dr. Kanchana Bhaaskaran V. S, Pro-Vice Chancellor at VIT Chennai Campus; Keynote address was given by Dr. S. Joseph Gladwin, Vice Chairman - Industry at IEEE MAS and associated with Big Cat Wireless Pvt Ltd in Chennai and Dr. Vydeki Vijayakumar, Counsellor at IEEE VIT Chennai SB. The thanking note for the inaugural session given by Mr. Ashvanth B, ExCom Member, IEEE Madras Section, Vice Chair, IEEE Madras YP.

The event was filled with exceptional speakers who shared their expertise and inspired the participants. Mr. Vinod Sharma, the Area Sales Manager, Key Accounts at Siemens, delivered a talk on the promising career path of product management. He provided a clear vision of this field and offered valuable insights and ideas for success. Ms. Radha Rengachari, the Founder & CEO of Spikra Pvt Ltd, discussed the transformation of passion projects into real businesses. She shared practical strategies and entrepreneurial ideas, encouraging the budding minds in the audience. Mr. S. Princely Samuel, a Senior Associate in Learning & Development at Infosys, shed light on the crucial role of human resource management. He explored both fundamental and advanced concepts necessary for thriving in rapidly evolving industries, emphasizing the importance of understanding people to comprehend the world. Overall, these speakers contributed to an enlightening and engaging event, leaving participants inspired and equipped with valuable knowledge.

A Panel discussion was also held during the forum with a focus on the topic "Equip Yourself As Per The Industry Standards. Mr. Ashvanth B, ExCom Member, IEEE Madras Section, Vice Chair, IEEE Madras YP, served as the moderator for the panel discussion. The panel discussion featured industry experts from Infosys who shared their insights and experiences regarding the current scenario in IT fields and offered advice on how to equip oneself as per industry standards. The panelists were as follows: Mr. Srini Murali, Lead BPHR, Infosys, discussed the prevailing trends and challenges in the IT industry. He emphasized the importance of aligning one's skills and knowledge with the dynamic IT environment. He provided valuable insights on how professionals can adapt and stay relevant in the rapidly changing IT landscape. Ms. Hepzibah T, Lead BPHR, Infosys, focused on the analysis of major industry trends and highlighted strategies to navigate the IT environment successfully. She shared valuable advice on how professionals can handle the challenges and complexities of the IT industry while ensuring personal and professional growth. Mr. Arun Prashanth, Business Partner HR, Infosys Mr. Arun Prashanth shed light on the recruitment process in the IT fields. He discussed the essential skills and qualities that recruiters look for in candidates and provided valuable tips on how to crack the recruitment process. His insights aimed to help aspiring professionals in their journey towards securing employment in the IT industry. Overall, these panelists contributed to an informative and engaging session.

IEEE Day 2022:

IEEE Madras section Hosted IEEE DAY 23 Celebration on 14.10.2023 at Tag auditorium, CEG, Anna University. Dr. Debabrata Das, Chair, IEEE India Council, Director, IITB, Bangalore was the Guest of Honor & Dr. Pavanthan Arumugam, Director (R&D), Ernet India, Department of Electronics & IT (DEITY), MC&IT, Govt. of India was the chief guest for IEEE Day celebration. Dr. K. Porkumaran, Chair IEEE MAS delivered the welcome address and elaborated the initiatives taken by IEEE Madras section for the development of scientific community. Dr. Debabrata Das joined virtually and shared his experience and appreciated the efforts of IEEE Mas. Dr. Pavanthan Arumugam spoke on importance of IEEE Membership and also shared on IEEE Standards. IEEE DAY23 witnessed a cake cutting by senior members & guest. Active volunteers of section were awarded with certificated and shield. 300 participants attended the celebration.



Student Project Funding:

In order to encourage technology advancements, Creativity, and innovation project proposals were invited from all the Student branches of the Madras Section. 59 different project proposals were received and the proposals were scrutinized by the member review committee of the relevant specialization based on the recommendation by the committee, 32 project proposals were shortlisted. The presentation and demonstration of these projects were held in the month of April and the following best projects have been funded.

Technical Sponsorships and Financial Assistance to the student branches:

IEEE Madras Section provides Financial Assistance to the activities such as, Conferences, Workshops, Seminars, Symposia, etc., organized by the student branches. The norms that have been defined for such Financial Assistance are based on the budget and number of members available in each branch. During the year 2022, 3 such programs have been extended financial support to the tune of Rs. 50,000/-

Faculty Development Program (FDP)

In order to enhance the quality of teaching-learning Section is actively conducting the Faculty Development Programs in the relevant technical areas in various Engineering Institutions located in Tamil Nadu. During the year 2022, 4 such programs were organized.

Section Technical Chapter:

IEEE Madras Section has 29 Technical Society Chapters and 3 Affinity Groups. The tables below indicate the Technical Society Chapters, Affinity groups Chairpersons:

Technical Society Chapters:

Si.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.Bhuvaneshwari
8	Engineering in Medicine & Biology (EMBS)	Dr. K. B. Jayanthi
9	Electron Devices (EDS)	Dr. S. Charles Raja
10	Education (ES)	Mr. R. Navaneethakrishnan
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. S Albert Alexander
21	Product Safety Engineering (PSES)	Dr. R.Dhanasekaran
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)	Prof. M. Ramalatha
26	Signal Processing (SP)	Dr. N. Venkateswaran
27.	Technology and Management (TEMS)	Dr. Kulanthaivel
28.	Oceanic Engineering (OES)	Prof. V. Sriram
29.	Vehicular Technology Society(VTS)	Dr. S. Brindha

Affinity Groups

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

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)	3
2.	Control System (CS)	16
3.	Communications (COMSOC)	5
4.	Engineering in Medicine and Biology	2
5.	Education (ES)	8
6.	Industrial Applications (IAS)	9
7.	Power and Energy (PES)	10
8.	Power Electronics (PELS)	17
9.	Professional Communication (PCS)	6
10.	Photonics (PS)	8
11.	Robotics and Automation(RAS)	33
12.	Social Implications of Technology (SITS)	3
13.	Signal Processing (SP)	19
14.	Technology and Management (TEMS)	6
15.	Oceanic Engineering (OES)	8
16.	Vehicular Technology (VTS)	8

• **Major Student and Affinity Group Activities**

Major Student Activities:

- Student Branch officer meet.
- Technical Lectures/Webinars 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.

Major Affinity Group Activities:

Young Professionals:

SPECTRAFEST'23

IEEE Young Professionals hosted SPECTRAFEST'23- A Magazine presentation for students on 19.02.23. There were two Tracks in the Event, AUTHENTICA and SPIRA. In the track of AUTHENTICA the team should pick an article from the IEEE SPECTRUM Magazines and should present it before the juries, and in the track of SPIRA the article's title were given on spot from IEEE SPECTRUM Magazines and specific time was provided for preparation and then the team presented it. Mr. M. Arun, Chairman, IEEE MAS YP, delivered the welcome address and motivated students to use IEEE for upskilling their skill set. The event's instructions were presented by Mr. R. Sreekanth, Executive Committee Member IEEE MAS YP and IEEE Student Branch Counselor at St. Joseph's College of Engineering. Mr. M I. Abdul Halik, Secretary, IEEE MAS YP, Dr. Prem Kumar, Dr. P. Velmurugan, and Dr. M. Ramesh Babu evaluated the presentation. Around 110 students participated in this contest. The event was Hosted & Coordinated by St. Joseph's College of Engineering IEEE SB.

WINNERS(Spira):

S.NO	NAME	COLLEGE	PRIZE
1	PRIYANKHA J & KAMALESH V	St. Joseph's Institute of Technology	I
2	SATHISH KUMAR J	St. Joseph's Institute of Technology	II

3	AAKAASH V S	Sri Krishna College of Engineering and Technology	III
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WINNERS(Authentica):

S. NO	NAME	COLLEGE	PRIZE
1	ANGELIN SIMON	Sri Krishna College of Engineering and Technology	I
2	VIBESHA & YUVASHREE	KPR Institute of Engineering and Technology	II
3	SRI SHAMNATH.RK & SRI SAIRAM.RK	KPR Institute of Engineering and Technology	III

CONOCITHON 2.0 – Hackathon

IEEE Madras Young Professionals organized “CONOCITHON 2.0 - It’s not a Bug, It’s a Feature”. The inaugural ceremony for both 10-hour and 24-hour tracks was initiated at 6:30 PM on 10-03-2023 with Mr. Arun, Chairman, IEEE Madras Young Professionals, as the Guest of Honour who shared the Importance of organizing Hackathons and insisted students to utilize the platform to showcase their talent. The event's instructions were presented by Mr. R. Sreekanth, Executive Committee Member IEEE MAS YP and IEEE Student Branch Counselor at St. Joseph's College of Engineering. The common themes for both the 10 hrs and 24 hrs tracks were Artificial Intelligence & ML, Medical Emergencies, Iot & Cyber security, Women's Welfare, Industrialization, Marketing Strategies, Transport Advancements and Safety, and Education. The Spot Theme for 24 hr track was Agriculture and Pollution and its effects. The 10 hours track started sharply at 09.30 AM on March 11, 2023. The Spot theme for 10 hr track was Natural Disaster Protection and Technologies for rural development. Both the track participants were instructed to report to the coordinators every 2 hours. The participants were requested to submit their presentation and the prototype or a software model at 8.00 PM on March 11, 2023. The participants had their validation session with the juries for their respective themes at 10.00 AM on March 12, 2023. The Participants were judged based on innovation, time management, selection of problem statements, presentation, and queries session by the juries. The Valedictory Ceremony started on March 26, 2023. The chairman of IEEE Madras Young Professionals, Mr. Arun, and juries addressed our student branch and appreciated all the work and efforts to conduct such large-scale events. The winners of the Conocithon 2.0 were announced at the meeting. The event was Hosted & Coordinated by St. Joseph’s College of Engineering IEEE Student Branch.

Winners Details – 24 Hrs. Track

S. No	NAME OF THE COLLEGE	PARTICIPANTS NAME	POSITION SECURED	Cash Prizes
1	PSNA COLLEGE OF ENGINEERING AND TECHNOLOGY	CATHERINE BRIJITH.J, CHONALIKA DOSS.P, CYRIL GERARD .A, DHIVAGARAN.K	FIRST	3000/-
2	SRM INSTITUTE OF SCIENCE AND TECHNOLOGY	MD SAMEER, VATSAL JOSHI, MODHWADIA, AMIT RAMBHAI, GOUTAM GORAI	SECOND	2000/-
3	ST. JOSEPH'S INSTITUTE OF TECHNOLOGY	LEGIN M L, KHALUSHANKAR A, JOEL STAINES J M, ADAMS ISSAC RAJ T	THIRD	1000/-
4	ST. JOSEPH'S INSTITUTE OF TECHNOLOGY	LEMI SOLOMON SURESH, MAKIZHNA MANI, MUTHUKUMARAN S, KALIMUTHU C	CONSOLATION	500 /-
5	RAJALAKSHMI ENGINEERING COLLEGE	SHIVARAJ S, SHIVESH PR, SAMUEL JOSEPH, SANTHOSH, KUMARAN M	CONSOLATION	500 /-
6	PSNA COLLEGE OF ENGINEERING AND TECHNOLOGY	DIVYA K M, RAHINI S, ELAKIYA E, HARSHINI K	CONSOLATION	500 /-

Winners Details – 10 Hrs. Track

S. No	NAME OF THE COLLEGE	PARTICIPANTS NAME	POSITION SECURED	Cash Prizes
1	SIR C R R COLLEGE OF ENGINEERING	VENKATA SAI MURALINADH ROMPICHARLA, HEMA SREE SWARNA, BHAVYA BONI	FIRST	3000/-
2	PUDUCHERRY TECHNOLOGICAL UNIVERSITY	MADESH VARADHAN, FARVESH, KAMALESH KUMAR K, ARJUN KRISHNA G	SECOND	2000/-
3	DR. MGR EDUCATIONAL AND RESEARCH INSTITUTE	SAMIULLAH KHAN, RAVITEJA REDDY	THIRD	1000/-
4	RAJALAKSHMI ENGINEERING COLLEGE	V RISHABH, J SHARON STEVE, A SUDANTH DURAIRAJ	CONSOLATION	500 /-
5	ST. JOSEPH'S INSTITUTE OF TECHNOLOGY	ABISHEK M, ANNLYN BRIGHT A, DHANUSH KUMAR R, BENNY ISRAEL J	CONSOLATION	500 /-
6	SRI SAI RAM ENGINEERING COLLEGE	DHINESH BABBU A, ESHWAR BALAJI J, DIVAKAR K	CONSOLATION	500 /-

WIE :

WIE Connecting the Dots 2.0

The IEEE Women in Engineering Madras Section organized "Connecting the Dots 2.0" to celebrate Women in Engineering Day 2023 at the College of Engineering Guindy, Anna University, Chennai, on July 1, 2023. The event was sponsored by IEEE Women in Engineering Global, IEEE Photonics Society Madras Chapter, IEEE Young Professionals Madras Chapter and IEEE Signal Processing Society Madras Chapter. The inauguration commenced with Dr. T. Sree Sharmila, Chair, IEEE WIE AG, Madras Section, expressed her gratitude to the attendees and highlighted the significance of the event in bridging the gap between women studying engineering and those pursuing actual engineering careers. She emphasized the importance of empowering women in engineering to create a more sustainable future and urged the audience to make the most of the networking and learning opportunities provided by the event; Dr. Soma Prathibha, Vice Chair addressed the gathering, providing an overview of the event. Additionally, the event was graced by the presence of esteemed guest speakers, Dr. S. Radha, Treasurer, IEEE Madras Section, and Ms. Deepa Vijayaraghavan, Director of PMO at PayPal. Their participation added value to the event and provided unique insights from their respective areas of expertise. Dr. Radha shared her thoughts on the importance of women's participation in engineering and the role of professional organizations in supporting their growth. She highlighted the various initiatives undertaken by the Madras Section to encourage and empower women in the field of engineering.

Ms. Deepa Vijayaraghavan, Director of PMO at PayPal and Founder of "Shevolve" addressed the gathering about setting a career for oneself. Her knowledge and insights on career development in the engineering industry made her a valuable resource for the attendees. The session on "Career Readiness" focused on key elements crucial for career success and growth. Ms. Deepa emphasized key elements such as self-reflection, branding, communication, networking, and confidence. After her talk, the following student branch chapters demonstrated their dedication and commitment to the betterment of the Women in Engineering Affinity Group through their diverse projects, initiatives, and events: St. Joseph's College of Engineering, Sri Sivasubramaniya Nadar College of Engineering, Sri Sairam Engineering College, Panimalar Institute of Technology, Jeppiar Engineering College, Sri Sairam Institute of Technology, and St. Joseph's Institute of Technology. Their collective efforts showcased the positive impact that student branches can have in empowering women in engineering and inspiring future generations to pursue engineering careers.

As part of CTD 2.0, we conducted "WIE Talk". Six student speakers and a young professional were selected for WIE Talk. The following are the speakers and their titles: Ms. Abhinaya Sri T - Journey and opportunities for IEEE WIE, Ms. Supraja Vaidhyanathan - Women in R&D, Ms. Mrithula KL - Women in Technology, Mr. Abhijay Gopal S - Opportunities for women in Volunteering & Leadership, Ms. Keerthana S - Women in Literature, Mr. Manish - Opportunities for Women in Entrepreneurship, and Dharini V - Journey in WIE. This WIE Talk was a highly anticipated event where we gained a unique opportunity to have a lasting impact. Then, Dr. N. Bhalaji, Coordinator, SSN iFound, SSN College of Engineering,

shared interesting points about startups. He briefly discussed starting a startup and the involvement of individuals with considerations. Finally, a networking event was conducted to expand the professional network, explore new opportunities, and interact and enjoy within the gathering. This session was led by the volunteers Harry and Sathyapriya and consisted of quizzes, tongue twisters, songs, and connections. Furthermore, the closing ceremony began with the announcement of the winners of the student branch presentation, followed by presenting appreciation certificates to all the student speakers and young professionals. Finally, the vote of thanks was presented by Mr. Niranjana Kumar S, WIE Student Exe-com member, thanking everyone for making this a memorable day. A total of 52 participants and 12 volunteers benefited from this event.

IEEE WIE MAS Leadership Conclave 2023

The IEEE WIE MAS Leadership Conclave 2023 was a highly successful event organized by the IEEE Madras Section Women in Engineering Affinity Group. It took place on 19th August, 2023 at Sri Sairam Engineering College Chennai. The event was sponsored by IEEE Region 10 Educational Activities, IEEE Madras Section, IEEE Young Professionals Madras Chapter. The conclave aimed to bring students together for a day of knowledge sharing and networking. The event featured distinguished guests Ms. Padmini Janaki, Founder & CEO, Mind&Mom, Ms. Smitha Ganesh, Consultant, Teach for All & CEGIS. Guest of Honour, Dr. K. Porkumaran, Chairman, IEEE Madras Section, Dr. Sree Sharmila T, Chairman, IEEE WIE Madras Section AG, Dr. Soma Prathibha, Vice Chairman, WIE MAS AG, Mr. Arun M, Chairman, IEEE Young Professionals Madras Chapter, Mr. Sreekanth, Execom member, IEEE Young Professionals Madras Chapter, Dr. Brindha Saminathan, Chair SAC, IEEE Madras Section, and Dr. B. Meenakshi, Faculty Advisor, Sri Sairam Engineering College WIE AG. Their presence added prestige to the event and inspired attendees with their leadership and expertise. The session aimed to guide students in leveraging their volunteer experiences. The first event of the meetup was a talk by Ms. Padmini Janaki, who took the stage to deliver a talk titled "Women and Technology Empowerment". She made the session very interesting by sharing informative news. She shared her own experience and she described the way she faced struggles, and how she overcame them. She also covered the Women leadership. Next session was by Ms. Smitha Ganesh, who delivered an enlightening talk on the topic "Leadership within you". She increased interaction in the meeting. She imparted to us four key leadership tenets. She also taught us several clapping techniques and asked the students some questions to get them more engaged. Followed by this there is an event named Her Story Makers: Women Leaders Unveiled (A Case-Study based Competition) where participants are required to provide a 5-minute motivational speech outlining the experiences of outstanding female leaders. They were eager to take part in this presentation, and they skillfully displayed their talents. After the above mentioned session, 3 breakout sessions happened simultaneously in 3 different locations. The one by Mr. Mithresh GP explained a lot about digital marketing and PR. It covered crucial subjects like selecting target markets, creating interesting content, maximizing social media engagement, using data analytics for measurement, putting paid advertising into practice, and mastering SEO tactics. Another session led by Mr. Jagadeeswaran K, were given an introduction to the field of creative design. The significance of user-centered design, the role of creativity in problem-solving, and the use of emerging technologies in design processes were among the major takeaways. The other session taught by Mr. Niranjana Kumar S learned important tips for writing an effective IEEE proposal. Participants gained knowledge on how to successfully structure a proposal, show a workable approach, and emphasize the expected contributions of the research. The IEEE WIE MAS Leadership Conclave, organized by the IEEE Madras Section Women in Engineering Affinity Group, proved to be an inspiring and empowering event. The conclave brought together accomplished women in engineering from diverse fields, fostering a platform for valuable discussions, networking, and skill-building. The event witnessed a diverse 65 participants in total from corners of Madras Section, and successfully addressed crucial topics related to leadership, career advancement, and overcoming challenges in the tech industry. Attendees gained insights from insightful keynote speakers, interactive panel discussions, and practical workshops.

Living Empowerment: Women's Mentorship Gala by Life Members

It was a momentous occasion on 15 December 2023 as the IEEE Madras Section Women In Engineering, in collaboration with IEEE MAS Computer Society, IEEE MAS YP, and IEEE LM AG, hosted a special event titled "Living Empowerment: Women's Mentorship Gala by Life Members". The event, proudly facilitated by the IEEE Life Members Madras Section, aimed to celebrate empowerment, mentorship, and the remarkable contributions of esteemed speakers.

The event commenced with a warm welcome by Dr. T. Sree Sharmila, Chair of IEEE Women in Engineering, Madras Section, and Associate Professor at the Department of Computer Science and Engineering, College of Engineering Guindy, Anna University, Chennai. Her opening remarks set the tone for an event dedicated to learning, empowerment, and collaboration. The distinguished speakers for the event included: Shri. C.R. Sasi: IEEE Life Senior Member, Past Chair of IEEE Madras Section, and a prominent BYST Mentor, Shri. T.S. Rangarajan, IEEE Life Senior Member, Director of Rangarajan Consulting and Shri. K. Krishnamurthy, IEEE Life Senior Member and an active Office Bearer of the Life Member Affinity Group in IEEE Madras Section.

The Mentoring Session was not just an event but a celebration of the invaluable contributions of the speakers. Each of them had excelled in their respective fields, and the audience was fortunate to have the opportunity to absorb their knowledge and experiences. The speakers delved into their personal and professional journeys, highlighting key milestones and sharing the wisdom gained along the way. The event was designed to be interactive, with encouragement for active participation, questions, and engaging discussions. This collaborative approach aimed to create an environment fostering growth, mentorship, and professional connections. The event concluded with a vote of thanks delivered by Mr. Arun, Chair of IEEE Madras Young Professionals. His expressions of gratitude extended to the speakers, organizers, and attendees

encapsulated the collective appreciation for the event's success. A total of 65 student and professional members benefitted by the event. This mentoring session proved to be a resounding success, leaving attendees inspired and motivated. The collaboration of IEEE sections and the active participation of the audience contributed to the creation of a dynamic platform for learning, mentorship, and empowerment.

- **Awards**

During Annual Meet (AM), every year, Cash awards and appreciation certificates are awarded to the active and dynamic student branches based on the performance of the student chapters and society units. The Student Branches having a maximum number of members are also honored during the AM. During the last year, appreciation certificates were given to the top 3 best performing Student Branches and societies chapters of the section. These awards were distributed during the Annual Meetings, to motivate the student branches to perform better. It resulted in the enhancement of the higher-level performance of the student branches.

The following awards were given to Student Branches to Motivate the Members:

- ❖ Student Branches conducting more number activities
- ❖ The Student Branch having a maximum number of members, an award given to top three colleges

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

PART B - ORGANIZATIONAL ACTIVITIES

B.1 Membership Development Activities

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

The details of Membership as of 31st Dec 2021, 2022, and 2023 are given below:

	<u>31st Dec 2021</u>	<u>31st Dec 2022</u>	<u>31st Dec 2023</u>
• Life Fellow	1	1	1
• Fellow	4	5	5
• Life Senior	22	22	25
• Senior Members	440	606	767
• Life Members	10	12	10
• Members	2266	2250	2701
• Affiliate Members	16	29	16
• Associate Members	54	57	74
• Graduate Student Members	540	453	498
• Student Members	4754	6036	9569

Total Membership	8104	9471	13649

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

Section Membership Development Committee (MDC) has prioritized supporting and addressing the requirements of members, as well as IEEE membership recruiting and retention tactics. In 2022, the MDC team worked on a variety of initiatives to keep, improve, and assist IEEE members throughout the Student Branches. With the effort taken by MDC team Membership of the section increased.

B.2 Chapter Activities

- Total number of Chapters in the Section - 29
- Number of Chapters formed in the current year -1
- Number of active Chapters - 15
- Summary of Chapter activities :150

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

Faculty Development Program (FDP)

No.	Topic	Venue
1.	The Art of Research and Development”	S.A. Engineering College
2.	Integrating Generative AI and Prompt Engineering in Academia”	Sri Sairam Engineering College
3.	“Recent Trends and Developments in AI for Autonomous EV”	S.A. Engineering College
4.	“Revolutionizing Agriculture: Harnessing Drone Technology for Precision Farming”	Kongu Engineering College, Erode
5.	"Applications of Digital Technologies in Agriculture"	SRM Institute of science and Technology

B.4 Students Activities

- Total number of Student Branches in the Section - 165
- Number of Student Branches formed in the current year – 1
 - Rohini College of Engineering and Technology
- Section level student activities
 - The IEEE R10-Madras Section Student Summit 2023, held on October 14th, 2023
- Number of active Student Branches - 86
- Summary of Student Branch activities

B.5 Affinity Group Activities (see pg 7-10)

- Young Professional (YP)
- Women In Engineering (WIE)
- **Life Member (LM)**
IEEE LMAG organized a webinar on Indian Knowledge Systems by Dr. M. E. Paramasivam, Associate Professor - ECE & DY Controller of Examinations, Sona College of Technology (Autonomous), Salem on 28.10.23 at 6 PM IST.

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

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

INDIVIDUAL AWARD WINNERS			
1	Dr.R. Hariprakash	Bharath Institute Of Higher Education And Research	MGA Achievement Award
2	Mr. M. Arun	Panimalar Engineering College	MGA Young Professionals Achievement Award
3	Mr. H R. Mohan	Ict Consultant	IEEE CS T Michael Elliot Distinguished Service Certificate
4	Dr. Brindha Saminathan	Sri Sai Ram Engineering College	IEEE R10 SAC Outstanding Volunteer Award - Special Recognition
SB AWARDS			
1	Mr. Sreekanth R	St. Joseph's College Of Engineering	IEEE Regional Exemplary Student Branch Award The Darrel Chong Student Activity Award [Gold]
2	Dr.G.Saritha	Sri Sai Ram Institute Of Technology	IEEE Regional Exemplary Student Branch Award The Darrel Chong Student Activity Award [Gold]
3	Mr. M. Arun	Panimalar Institute Of Technology	The Darrel Chong Student Activity Award [Gold]
4	Dr.J.Jebastine	Jeppiaar Engineering College	The Darrel Chong Student Activity Award [Silver]
5	Dr. Brindha Saminathan	Sri Sai Ram Engineering College	IEEE R10 SAC Outstanding Student Branch Award
GLOBAL ROLES			
1	Dr. Brindha Saminathan	Sri Sai Ram Engineering College	Global Strategy Representative-India [2024-2026] -IEEE Photonics Society ,USA
2	Mr. Prasanth M	Questionpro	Board of Goverenor, IEEE Computer Society
3	Ms. Pooja Sharma		Vice Chair, IEEE Region 10 Women In Engineering
4	Mr. ABHIJAY GOPAL S	Sri Sai Ram Engineering College	IEEE REGION 10 LEAD, IEEE DAY

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://ieeemadras.org/news-letter-2/>
 - Email ID: ieemaslink@gmail.com
- Home Page of the Section : <https://ieeemadras.org>
 - Other means of contacts with Section members including social media:
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

- Membership growth and retention:
This year, there has been a continuous increase in the number of professional members, and industrial contributions. We have requested
- Activities for/with industrial members: This year we have conducted Industry forum conclave (see pg.no.3)

B.9 Humanitarian Technology Activities

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

3 Days NATIONAL CONCLAVE ON HUMANITARIAN TECHNOLOGIES' 2023

- The 'National Conclave on Humanitarian Technologies 2023' commenced with a pre-inaugural session that set the stage for an enlightening and thought-provoking event. The session was graced by notable guests, including Mr. RajendranDhandapani, Director Engineering at Zoho Corporation, and Dr. K Porkumaran, Chairman, IEEE Madras Section, Principal of Sri Sairam Engineering College. Dr. K Porkumaran, an esteemed academician, Chairman of IEEE Madras Section and the Principal, Sri Sairam Engineering College, delivered the welcome address. He shared his extensive experience and commitment to advancing engineering education and research in India. His words set the tone for the event, emphasizing the importance of innovation and mentorship in academia. In his address, Mr. Dhandapani shared his insights on technology and innovation. He stressed the need for practical knowledge and encouraged attendees to embrace a holistic approach to learning. His unconventional perspective as a "contra-academician" challenged traditional norms and inspired the audience. The cheque of Rs. 25,00,000 towards encouraging student community to work on social innovation projects .

- **Workshop on Humanitarian Technologies Board:**

IEEE Humanitarian technology Board is at the forefront of addressing global challenges. Through innovative solutions, IEEE leverages its expertise to create impactful advancements that improve lives, enhance disaster response, and promote equitable access to essential services. Likewise the IEEE Student Branch of Sairam Institutions play a pivotal role in shaping a more equitable and humanitarian future through technology.

- **Parallel sessions**

Parallel sessions with different sets of students as audiences in 6 different venues from 2pm to 4pm. The remarkable speakers of the event was Mr. sampathkumarveeraraghavan(USA), Global president, 2023 IEEE Eta kappa Nu & 2023 IEEE HTB partnership Chair and Mr. HerbertLwanga(Uganda), 2023 chairman, IEEE humanitarian technologies Board . Both of them offered an enlightening speech to the students regarding IEEE HTB. The workshop was really informative to the Students. Simultaneously, Mr. ThirukumaranRanganathan, Talent acquisition partner-Nokia gave an informative speech to the students in the Alpha Hall then Mr. Rtn. Madhu GN, chief Growth officer Garuda Aerospace Pvt Ltd offered a thoughtful speech to the students in the SSR hall. Mr. Ashok Balasubramanian, Chief Executive Officer in Open weaver presented an illuminating speech to the students in VRR hall then Dr. M. Manivannan, Professor, Touch Lab - IIT Madras presented an revealing speech to the students. Mr. Suresh Venugopal, President of Cambridge Mobile Telematics delivered his insightful speech to the students in Beta hall. Mr. Stanley George ,Vice President - Human Resources Hexaware Technologies Ltd delivered an explanatory speech to the students.

- **Day 2(28.09.2023) Global IEEE Day Celebration 2023**

The day 2 of National Conclave on Humanitarian Technologies was based on Global IEEE Day Celebration 2023. On remarking this, an awareness campaign on IEEE and 39 societies of Sri Sairam Engineering College was initiated for first, second, and third year students. MAGIC members of respective societies went to their allocated classes and canvassed about their society, its benefits, key features, and achievements done by the students with

the help of IEEE. As a result of this massive awareness program, more than 3700+ students were benefited by knowing about IEEE and its perks. The below mentioned table listed out the department along with the canvassed societies in their respective departments. The IEEE HKN Nu Eta Founding Members Induction Ceremony was a momentous event that celebrated excellence in engineering and technology. Dr. Sai Prakash LeoMuthu, Chairman & CEO of Sairam Institutions, welcomed the esteemed guests, dignitaries, and participants. His address was inspiring and highlighted the significance of the event. Mr. Sampathkumar Veeraraghavan, Global President of 2023 IEEE Eta Kappa Nu and 2023 IEEE HTB Partnership Chair (USA), delivered a captivating keynote address. He shared insights on the role of IEEE HKN in shaping the future of technology and its impact on global innovation. Dr. Prokumaran, Chairman IEEE Madras Section and Principal, Sri Sairam Engineering College conveyed his joy and mentioned that he felt a sense of accomplishment in establishing the IEEE HKN Nu Eta chapter at Sri Sairam Engineering College and shared insights on importance of establishing HKN chapter. Induction of the IEEE HKN Nu Eta Founding Members. The highlight of the ceremony was the induction of the IEEE HKN Nu Eta Founding Members. This prestigious moment marked the beginning of a journey towards excellence in engineering and technology. The discussion covered a wide range of topics, including the role of IEEE in advancing technology for the betterment of society, the challenges and opportunities in the field of engineering, and the importance of global collaboration in technological advancement.

- SIGHT Activities

- **IEEE Madras Section SIGHT**

“HYGIENE HYDRO A RO WATER TREATMENT PLANT – LAUNCH”

HYGIENE HYDRO is a Humanitarian project proposed and implemented by a student team of Sri Sairam Engineering College with a fund amount of 3500 USD from IEEE HAC/SIGHT. Our project focuses on providing clean drinking water to the general public of the village Pudhunallur. Our project aims to provide potable water by purifying impure water from nearby water bodies and making it fit for consumption.

The RO Water Plant HYGIENE HYDRO was launched on June 23, 2023 at Pudhunallur in the presence of multiple dignitaries such as CEO of Sairam Institutions, Dr. Sai Prakash LeoMuthu, Our Principal and IEEE Madras Section Chairman, Dr. Prokumaran, Principal investigator of our project, Dr. Umamaheswaran, Poonthandalam village President Mr. Gnana Prakash, and Village Union Councillor Ms. Malarvizhi Murugan, Project Leads, Mr. Niranjana Kumar, S and Mr. Kharthick Rham, along with the team members, Ms. Buvana C, Mr. Gnana Padmesh C K, and Mr. Ramkumar L. The project was kickstarted with a laying of the first stone on January 06, 2023 in the presence of our Team with village president and members and it was implemented in three stages. Firstly, the civil construction of the building and water tanks was carried out. After which the whole RO plant was constructed along with the integration of pumps, Sediment filter, Carbon filter, and Polish filter for the purpose of filtration. Our project’s implementation came to an end after the electrical and plumbing works were done. Project Impact and Outcome Reducing water scarcity, improving rural people’s health and reducing water pollution to a greater extent. Our project also promotes sustainable development by recycling and reusing waste water, communities can reduce their dependence on non-renewable resources. This can help to reduce the cost of providing clean drinking water to community of 300 people and can also help to reduce the cost of treating and disposing of waste water rather than building new sources of freshwater.

B.10 Community Activities

- IEEE Social activities : IEEE Day: (See pg 4.)

PART C - OTHERS

C.1 Special Events

- Please briefly describe the importance of special events and the outcomes achieved:
- **First IEEE India Council Day Celebration – 2023** - IEEE Madras Section, IEEE Madras Young Professionals cordially invites you to attend the Webinars as a part of the First IEEE India Council Day Celebration.
- **Webinar on Powering Critical Applications on Earth Moon and Beyond**
IEEE Madras Young Professionals and IEEE Madras Section organized a webinar on Powering Critical Applications on Earth, Moon and Beyond by Harish Sarma Krishnamoorthy, Assistant Professor(Power & Energy), University of Houston on the occasion of First IEEE India Council Day Celebration 2023 on 22.04.23. Speaker discussed on the following topics Grids and Microgrids, Electric Grid Transformation, Subsea & Renewable Energy Interface, Offshore Operations, Artemis Base, Electrochemical Power, and Energy Storage. He discussed how this application might be used in the future. Almost 40+ participants attended.
- **Webinar on Complete Roadmap of Machine Learning**

IEEE Madras Young Professionals and IEEE Madras Section organized a webinar on Complete Roadmap on Machine Learning by Ms. Geeta Kakrani, Data Scientist, CEO, Kanishka Information Technology Private Limited & Ambassador, WTM Gwalior on the occasion of First IEEE India Council Day Celebration 2023 on 23.04.23. She provided an overview of machine learning and showed some examples of novel concepts. She also suggest some machine learning software. She carried out several programmes and provided project ideas. Almost 40 participants attended.

- Funding secured from the IEEE and external sources including sponsorships - nil

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.
- **Benefit to IEEE members :** Discounts are given for IEEE Members for the programs conducted like FDP and Technical events
- **Benefit to Section :** nil

C3. Collaboration with other IEEE Sections

- Support extended to neighboring Sections : Sponsored Rs.25000/- to organize AISYWL Congress 2023.
- Joint activities with any other Section - nil

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 : nil
- 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

- 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 and for PG Student project funding.
- 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.6 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.

1. To conduct more membership awareness programs.
2. 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.
3. Recognition of outstanding professionals and volunteers
4. To conduct the Membership drives in industries.
5. 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