

## IEEE MADRAS SECTION

### Secretary's Report for the Year 2016

#### PART- A: SECTION SUMMARY

##### A.1. Executive Summary:

##### Executive Committee:

Sl.No.	Name	Position
1	Dr. M.A. Atmanand	Chairman
2	Dr. N.R. Alamelu	Immediate Past Chair
3	Mr. H.R. Mohan	Vice Chairman
4	Dr. N. Kumarappan	Vice Chairman
5	Dr. P. Sakthivel	Secretary & Treasurer
6	Dr. S. Elangovan	Member
7	Dr. B. Paramasivan	Member
8	Dr. R. Hariprakash	Member
9	Dr. S. Koteeswaran	Member
10	Mr. P. Subramanian	Member
11	Mr. Pandian Gurusamy	Member
12	Dr. S. Radha	Member
13	Dr. R. Dhanasekaran	Member
14	Mr. D. Maheswaran	Member
15	Mr. C.R. Sasi	Ombudsman

##### Various Sub-Committees:

Sl.No.	Committee	Chair	Co- Chair
1	Publications	Prof. Prashant R. Nair	Mr.H.R. Mohan
2	Web	Dr. S. Radha	Dr.S. Elangovan
3	Building	Dr. N.R. Alamelu	Office Bearers (OBs)
4	Education	Mr. P. Subramanian	Dr.N. Kumarappan
5	Technical Meetings	Dr. B. Paramasivan	Mr.P. Subramanian
6	Student Activities	Mr. H.R. Mohan	Dr.S. Koteeswaran
7	Finance	Dr. P. Sakthivel	Mr. H. R. Mohan
8	Member Elevation & Awards	Dr.N. Kumarappan	Dr.P.A. Manoharan
9	Membership Development	Mr. D. Maheshwaran	Dr.S. Radha
10	Student Projects	Dr. S. Elangovan	Dr. P. A. Manoharan
11	SIGHT	Mr. Vincent Jain	Dr.R.Dhanasekaran
12	Paper Contest	Dr. S. Koteeswaran	Dr. B. Paramasivan

Sl.No.	Committee	Chair	Co- Chair
13	Conferences	Chairman, OBs	Mr. Nivas Ravichandaran
14	Young Professionals	Mr. Prashant Mohan	Dr.P. Sakthivel
15	WIE	Dr.S. Radha	Dr.D. Vydeki
16	Entrepreneurship	Mr. Nivas Ravichandaran	Mr. H. R. Mohan
17	Ethics	Dr. P. Suresh Chander Pal	-

### Society Chapters:

IEEE Madras Section has 25 Technical Society Chapters and 4 Affinity Groups. The table below indicate the Technical Society Chapters, Affinity groups and their respective Chairpersons.

### Technical Society Chapters

Sl.No.	Society Name	Chairperson
1	Aerospace and Electronic Systems (AES)	Dr. A. Nagappan
2	Antennas and Propagation (APS)	Dr. S. Joseph Gladwin
3	Computer Society (CS)	Dr. P. Sakthivel
4	Communications (COMSOC)	Mr. P. Subramanian
5	Computational Intelligence (CIS)	Dr. N. Kumarappan
6	Control Systems (CSS)	Dr. R. Hariprakash
7	Engineering in Medicine & Biology (EMBS)	Dr. B. Santhanaraj
8	Education (ES)	Prof. M. Ramalatha
9	Electromagnetic Compatibility(EMCS)	Dr. Subbarao Bandaru
10	Industrial Applications (IAS)	Dr. S. Rajavel
11	Information Theory (ITS)	Dr. B. Paramasivan
12	Instrumentation and Measurement (IMS)	Dr. U. Ramachandraiah
13	Microwave Theory and Techniques (MTTS)	Dr. S. Salivahanan
14	Nano Technology Council (NTC)	Dr. R. Devanathan
15	Power and Energy (PES)	Dr. R. Sarathi
16	Power Electronics (PELS)	Dr. V.T. Sreedevi
17	Product Safety Engineering (PSES)	Mr. V. Jayaprakasan
18	Professional Communication (PCS)	Mr. H.R. Mohan
19	Photonics (PS)	Mr. T.N. Subash
20	Robotics and Automation (RAS)	Dr. P.A. Manoharan
21	SIPCICOM	Dr. Krishnan Nallaperumal
22	Social Implications of Technology (SITS)	Mr. C. Jinesh
23	Technology and Engineering Management Society (TEMS)	Mr. S. Sundaresh
24	Electron Devices – Chennai	
25	Electron Devices – Coimbatore	Dr. Nirmal Kumar

## Affinity Groups:

SI.No.	Affinity group Name	Chairperson
1	WIE Affinity Group	Dr.V. Vydeki
2	Young Professional	Dr.S. Elangovan
3	SIGHT	Mr. Vincent Jain
4	ADSF SIGHT	Mr. Vincent Jain

## Section Highlights:

### 1. 2016 IEEE MINI POCO (Panel of Conference Organizers):

IEEE Madras Section organized an one day 2016 IEEE Mini POCO (Panel of Conference Organizers) meet, on 28<sup>th</sup> February 2016 at Hotel Deccan Plaza, Chennai, Tamilnadu, INDIA, jointly sponsored by IEEE Madras section and IEEE Region 10 (Asia Pacific Region). In this mini POCO over 100 attendees from different parts of India had opportunity to acquire knowledge, network and exchange ideas related to conduct of conference, preparation of paper, their review etc. among them. The event attendees included IEEE members, Non-Members, Members of other professional organizations, faculties and researchers representing various engineering and technology institutions across the country.

Dr. R. Hariprakash, the Organizing Chairman of this event -2016 IEEE Mini POCO, delivered the welcome address insisted the need of such conference organizers meet and the importance of creating awareness about the quality and global standards to be followed by conference organizing institutions. Shri.K.Ramakrishna, IEEE R10 (Asia Pacific Region) Director, While delivering the inaugural address, stressed the importance of IEEE and the future projects of IEEE. He also briefed the superiority of the IEEE over other professional organizations. Dr.M.A.Atmanand Chairman IEEE Madras section in his address emphasized on the importance of quality of the research papers and appreciated the efforts taken by the organizing committee. He also shared his views on the interest shown by the participants and the plan to have one more Mini POCO by Madras section in the months to come. Mr.H.R.Mohan, Vice Chair IEEE Madras section in his felicitation address stated that Conferences are the best platform for exchange of ideas and for networking. There is a great expectation from our community to know the various avenues available for sponsorships for organizing a conference. Dr. P.Sakthivel, Treasurer offered formal vote of thanks, which concluded the Inaugural function of mini POCO 2016.

The technical sessions followed with first session by Dr.T.Thyagarajan, Director, Center for University Industry Collaboration, Anna University who delivered a presentation on "Strategic Planning and Quality aspects for a good conference". He emphasized the needs for conference event planning, timeline management, implementation and execution, the importance of team work for a successful conference with high quality. After the tea break, the second session was on "Challenges in Peer Review and Scholarly Publications" by Dr.M.A.Atmanand, Chair, IEEE Madras Section and Former Director, National Institute of Ocean Technology, Chennai. He highlighted on Impact factor, H-Index, Citation Index (CI), Eigen Factor (EF) and the system to be developed for peer review process.

The next session on "Plagiarism screening with Cross Check – Innovative Tools" was presented by Shri.T.S.Rangarajan, Principal Consultant ,Tata Consultancy Services. He presented the insight view of Plagiarism-cross check tool and the after effects of detecting plagiarism publications. He advised the researches to leverage the Intellectual Property Rights (IPR) team and staff of IEEE for assistance. The attendees after the lunch break had a presentation on "How to write a good Journal Paper " by Prof. V. Jagadeesh Kumar, Professor, Indian Institute of Technology (IIT), Madras. In his, presentation, he briefed the concepts and characters of good paper, literature survey, research survey, journal selection etc.; He shared his experience on the expectations of a Technical Program Committees for selection/acceptance of journal papers.

Prof.R.Hariprakash, Dean (E & T) Meenakshi Group of Institutions and organizing chairman of this event Mini POCO, presented on "IEEE Conferences Best Practices in Key Areas". In his presentation he insisted the importance of best practices to be followed for a quality and standard conference. The best practices to be followed in key areas namely the conference formation, finance management; Technical program committee, Sponsorship and Approval process, Publications and marketing were presented. The availability of webinar series, e-learning modules and the IEEE MCE leadership of excellence and its operations were highlighted by him. Mr. Harish Mysore, Director IEEE India Operations presented on the "Formats, Funding procedures for IEEE Conferences". Mr.Harish Mysore also presented the steps involved in preparation of application and submission of proposals for funding from IEEE. He informed the attendees the initiatives taken by IEEE for development of materials by IEEE MCE, and requested all to utilize the services of his office for any assistance.

The 2016 IEEE mini POCO concluded with formal vote of thanks by the Dr.R.Hariprakash, Organising Chair. He

Madras section and R10 office bearers & members. The attendees represented by Prof. Aaditya Lohana, Director of Universal Education, Mumbai conveyed thanks for the organizers for meticulously organizing this event, the speakers for the event and wished more such programs are conducted for the betterment of teaching community. There was unanimous opinion and desire among the participants to have many such Mini POCOs and appreciation were lauded to the organizers for this initiative to organize this event.

More than 100 participants from various educational institutions from Uttarakhand, Kerala, Punjab, Karnataka, Mumbai, Andhra Pradesh, Telangana and Tamilnadu attended this 2016 IEEE Mini POCO.

## **2. IEEE Chennai Hub Congress:**

The two-days, IEEE Chennai Hub Congress 2016 (CHC-2016) was hosted by the Jeppiaar Institute of Technology SB on 8<sup>th</sup> and 9<sup>th</sup> Apr 2016. The objective of this congress was to create awareness on IEEE and how the membership in IEEE can be leveraged for advancement. Students from colleges like Sri Muthukumar Institute of Technology, Sastra University, Sri Sai Ram Engineering College, Sri Sairam Institute of Technology, SSN College of Engineering, Panimalar Institute of Technology, College of Engineering Guindy and Velammal Engineering College registered enthusiastically for this grand event. Various speakers at the congress and panel discussion included:

- Dr. MA Atmanand, Chair - IEEE Madras Section,
- Mr. HR Mohan, Chair - IEEE Madras Section SAC.
- Dr. Celia Shahnaz, IEEE R10 WIE Coordinator,
- Mrs. Vydeki Vijayakumar, Chair - IEEE WIE Madras Section.
- Mr. Ashwin & Ms. Niveditha, Students from VIT.
- Ms. Vishakha Khona, Developer at TCS.
- Mr. Santhosh Karnananda, Director Strategy at ICARE.
- Dr. Ulhas J Vasave, CEO, J V Gokul Charity Trust.
- Mr. Issac John Wesley, CEO, Ink monk.
- Mr. Shreyas, Mozilla Ambassador
- Ms. Kamala Tamilvanan, Business Development Executive, School of Excellence.
- Mr. Sanju Sony Kurian, Technical Lead, Kings Learning.
- Mr. Sasi Kumar, AP, Jeppiaar Institute of Technology.
- Mr. Chelliah Ramachandran, Regional Student Ambassador.
- Mr. Vijay Srinivas, IEEE R10 ECIM.
- Mr. A Aravindhan, Regional Student Ambassador.

College Director Dr. N. Marie Wilson and Principal, Dr. V. Kannan participated in the inaugural, which was presided by Dr. M.A. Atmanand. Mr. H R Mohan pointed out that this is the first Hub Congress in Madras. He appreciated the works of Mr. Jamal Mohamed and Mr. Susheel, Organizers of the IEEE Chennai Hub Congress 2016 as well as Mrs. Benisha M, SBC and Mr. Selvin Pradeep Kumar, SB Mentor. Dr. Celia Shahnaz, IEEE R10 WIE coordinator opened the Student Branch Activity Center.

Various sessions during the congress included presentations on: Ocean Observation; WIE Awareness; Nuclear Plasma Science and Society; IEEE and Membership Retention; IEEE Technical Society Chapters & Best Practices; How to think about your career; Social Entrepreneurship, Establishing & Survival of Start-up; Mozilla Learning Networks and Mozilla Clubs; 7 Streaks to Win Corporate World; Being an Young Professional; How to lead a happy life; IEEE SB Administration. A panel of experience sharing by volunteers and fun activities were also held. IEEE PCS supported ICT Quiz was conducted by Mr. H.R. Mohan, Chair, IEEE PCS and cash prizes were given to those answered the questions.

At the valedictory on the 2<sup>nd</sup> day, after a brief feedback session by the participants, the prizes and certificates were distributed by Mr. H.R. Mohan, Vice-Chair, IEEE Madras Section and the Director Dr. N. Marie Wilson.

## **3. IEEE Coimbatore Hub Congress cum India Strategic Initiative:**

The IEEE Madras Section Young Professionals with IEEE MAS Students Activities Committee, Jansons Institute of Technology IEEE Student branch and IEEE Women In Engineering conducted a two days Coimbatore Hub Congress 2016 (CBEHC – 2016) on 30<sup>th</sup> and 31<sup>st</sup> July 2016 at Sivaganga Auditorium, Jansons Institute of Technology, Karumathampatti, Coimbatore. This Hub Congress 2016 (CBEHC - 2016), served as a meetup of all the student and professional IEEE members to share their experience and volunteerism with each other. This Coimbatore Hub Congress 2016 included the second edition of India Strategic Initiative of IEEE MCA, which includes sessions on

supported by IEEE Region 10, IEEE Madras Section, IEEE MAS Young Professionals and IEEE Women in Engineering. Totally 102 participants registered, out of which 56 were IEEE members and 46 were non IEEE members. The participants were from all the districts of Tamilnadu and Pondicherry.

This two day event was highly informative and served as a field for networking among various student branches not only under Coimbatore hub, but across the section. Some of the inactive student branch officers were enthused with the activities going on at various student branches and assured to revamp their student branches in terms of number of memberships and activities. Some Institutes which does not have IEEE student branch were attracted well and assured to start and keep live of their IEEE student branch.

#### **4. IEEE Day Celebration:**

IEEE Madras Section celebrated the IEEE DAY on 15<sup>th</sup> October 2016 in a grand manner. The Branch Officer Bearers and IEEE Members from various colleges participated in the function. The Function was attended by around 150 members. Dr. M. Anandkrishnan, Former VC, Anna University & Former Chairman, Board of Governors, IIT Kanpur inaugurated the IEEE Day Celebration. The celebration started with a welcome note followed by Presidential Address. Keynote Address was given by the Chief Guest Dr.M.Anandkrishnan.

The Member Achievement Certificates were presented. A Networking Session was organized which began with cutting of IEEE cake. The session was filled with joy and excitement throughout. At the end of this session, gifts were presented to the best networker. A quiz program was conducted on "Know Your IEEE" by Mr.H.R.Mohan. Video Clips on the theme "Leveraging Technology for a Better Tomorrow". The celebrations continued with honouring of the student branches present, and was invited to give a presentation from the selected student branches on the working of their student branches. The importance and credit on elevation of member to Sr. Member presentation was delivered by the IEEE Madras Section Vice-Chair Dr. N Kumarappan.. The presentation on IEEE India Strategic Initiatives on Innovation, Entrepreneurship given by Mr. Nivas Ravichandran. The details about IEEE Xtreme Programming Competition was given by Mr. Prasanth Mohan.

The audience appreciated the usefulness of the program. The event was a grand success with participation of over 150 members who benefited through various events including - presentations, interactions and fun activity.

#### **5. Student Paper Contest 2016:**

In order to encourage and bring together the students talent, technological advancement and learn the latest trends in the area of Electrical Sciences, the IEEE Madras Section in association with IEEE Student Branch of Veltech University organized IEEE Madras Section Student Paper Contest (IEEE MAS-SPC2016) during 21 & 22 October, 2016 at Veltech Dr. RR & Dr. SR University, Chennai. This contest had Oral Paper Presentation sessions to showcase the original contributions and innovations of Under Graduate Students, Post Graduate Students and Research Scholars from various institutions all over the nation. In addition to the student's contribution, few key-note talks on the area of Computing & Information Technology, Electrical, Electronics & Communication Engineering and Mechanical & Construction Engineering was arranged to give exposure to students and participants on latest trends.

IEEE MAS SPC 2016 was an effort to bring together students across the nation with distinguished dignitaries to provide the view of the potential of the research works being carried out. It was aimed to creating opportunities for collaboration to conceive and execute ideas. The paper contest was divided into three technical tracks. Prizes were awarded for the best three papers in each technical track. In this contest, totally 63 members presented their papers. Papers were divided in to three following tracks TRACK 1: Computing & Information Technology, TRACK 2: Electrical, Electronics & Communication Engineering and TRACK 3: Mechanical & Construction Engineering.

Inauguration function started with prayer song and lighting the kuthuvilakku. The Inaugural function was presided by Col. Prof. Dr. R. Rangarajan, Founder Chancellor & President, Vel Tech Dr.RR & Dr.SR Technical University. Welcome address given by Dr. N. Malarvizhi, Professor & HoD, CSE. Prof. Beela Satynarayana, Vice Chancellor, Vel Tech University delivered a Presidential address and then felicitated the delegates.

Dr. M. A. Atmanand, Chairman, IEEE Madras Section chief guest during the inaugural speech encouraged to publish papers in various international conferences followed by publishing papers in journals and to reach out to high quality journals. He advised to choose tough path rather than going easy publishing journals Dr. N. Kumarappan, Vice Chairman, IEEE Madras Section was the Guest of Honor at the inaugural function. In this contest supported by IEEE Madras section, around 63 delegates presented 35 technical papers. The delegates were from leading universities and colleges across India. Twelve technical sessions were organized with 8 Session Chairs from various institutions across the Tamil Nadu. At the valedictory function, Registrar Prof. Dr. E. Kannan, felicitated the Chief Guest Mr. H. R. Mohan, Vice Chairman, IEEE Madras Section and Prof. E. Kamalanaban, CSE, VTU felicitated Guest of Honour Dr. P. Sakthivel. Secretary cum Treasurer. IEEE Madras Section.

Mr. H. R. Mohan, in his valedictory address, stressed the need to update the knowledge and skills and highlighted the impact on research for the benefit of society at large. Dr. P. Sakthivel, stressed about the need for publications, projects and patents. Chief Guest Mr. H. R. Mohan and Guest of Honor Dr. P. Sakthivel presented the best paper awards, cash prizes and certificates to all the delegates. The programme ended the vote of thanks by Dr. N.Malarvizhi, Chair, SPC 2016 / Professor & HoD, CSE. It was one of the successful events of the Section.

## **6. IEEE Xtreme Programming Competition:**

The IEEE Madras Section in association with IEEE SB organized IEEE Xtreme Programming Competition on 22nd Oct 2016 in which over 50 teams from various colleges participated. This programme was coordinated by Mr. Prasanth Mohan, Coordinator, IEEE Xtreme Programming Competition & a team from Vel Tech Univ., consisting of Dr. E. Kannan, Dr. N. Malarvizhi, Dr. S. Koteeswaran, Dr. T. SenthilMurugan, Mr. R. Vinoth Kumar, Mr. N. Raj Kumar, Mr. P. R. Joe Dhanith, Ms. G. Tamilmani, Mr. S. Vinoth John Prakash from the university. The competition was graced by Mr. H. R. Mohan, Dr. P. Sakthivel, Secretary cum Treasurer and Dr. S. Radha, EC Member

## **7. ICT Quiz:**

The Section joined the IEEE Computer Society and IEEE Professional Communication Society in organizing the ICT Quiz as a part of the celebrations of the 70<sup>th</sup> Anniversary of IEEE Computer Society. The ICT Quiz attracted 598 participants of 299 teams. The prelims were held online to select the teams for the Regional Orals which were held in five centers, namely KSRCT – Tiruchengode, PIT -- Chennai, SJCE – Chennai, SIT – Trichy and KLNCE – Madurai. The top three regional winners were given cash prizes of Rs. 2500,1500,1000 and the rest Rs. 500. The top winning teams of these five Regional Orals participated in the Finals held at Anna University. The top three winners were given cash prizes of Rs. 10000, 6000, 4000 and the rest Rs. 1000 apart from travel and hospitality for the outstation teams. The top three team members are also received 2017 edition of GK book from Pearson. This event received a funding of USD 1000 from IEEE CS HQ and sponsorship of Rs. 20,000 each from Anjana Soft, Orbit Innovations and Kalpathi Investments.

## **IEEE Section Newsletter:**

MAS LINK, the newsletter of Madras Section is being published monthly as a eNewsletter and quarterly in print. Both the monthly eNewsletter and the soft copy of the quarterly print newsletter is circulated to all the members of the section including student members. The print quarterly newsletter is sent to all professional members, all IEEE SBs and also to various engineering colleges in TN who are not SBs of IEEE. Each issue of every month is uploaded in the IEEE Madras Section web site in order to reach more number of members around and to add more information. The newsletter includes the following:

1. Chairman's Message
2. Editor's Column
3. Activities reported by the various branches of the section to encourage for better performance.
4. Activities reported by the various Society Chapters.
5. Announcements and reporting regarding the Conferences, Workshops, Seminars, Symposia, etc., coordinated by the Technical Society Chapters and student branches functioning in various institutions.
6. Achievements of professional members.

## **PART- B: SECTION ACTIVITIES**

### **Executive Committee Meetings:**

The Executive Committee Meetings are regularly held for every month headed by the section chair to plan the section activities and to sort out the administration activities of the section.

### **Section Technical Meetings:**

- Technical talk on "Visual Cryptography" by Dr. R. S. Bhuvaneshwaran on 27th Feb 2016.
- Technical talk on "Life as Software Engineer and Final year CS Projects: How to select a meaningful final year project?" on 14th Mar 2016
- Technical lecture on "Digital India, Make in India, Skill India & Startup India" by Mr. H.R. Mohan on 29th Mar 2016
- Technical Talk on "Easy ways to save the Planet - Starting with Your Little Corner of It" by Dr.V. Jayaprakasan on 9th May 2016.

- Technical talk on “Communication Systems in Indian Railways: Today and Tomorrow” by Mr. R. Baskaran on 11th May 2016.
- Technical Talk on “Wireless Sensor Networks” by Dr Kirupa Ganapathy on 20th August 2016.
- Technical Talk on "System Design Technologies" by Mr. S. Janarthanam on 24th June 2016.
- Technical Talk on “The NASA-ISRO SAR (NISAR) Mission: An India – US partnership for monitoring a dynamic planet by Mr.Paul Rosen on 15<sup>th</sup> Nov 2016.

### **Faculty Development Program and Student Skill Development Program**

Madras Section is actively conducting the Faculty Development Programs in the relevant technical areas in various Engineering Institutions located at different parts of Tamilnadu. During the year 2016, such programs were organized in “Energy Efficiency and Energy saving using New Technologies” at Madurai, “Medical Informatics Extraction using Soft Computing Techniques” at Salem and Antenna Design and Measurement Techniques at Chennai, through which about 83 faculty members have been benefited.

### **Student Project Proposal from Student Branches:**

Project proposals were invited from all the Student branches of the Madras Section. 50 different project proposals were received from different colleges by the section. The proposals were scrutinized by the IEEE members in the relevant specialization and based on the recommendation by the members the projects were short listed by the IEEE Madras Section. The final stage of the project is under process. The respective student branches will be awarded by holding a mega function after successful completion of project and submission of the reports.

### **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 have been defined for such financial assistance which is based on the number of student members available in each student Branch. During the year 2016, 26 such programs have been extended financial support by the section to the tune of Rs.2, 20,000. The Section has also approved for 16 more student branches in-principle.

### **Motivational Awards**

During the annual meeting, every year, Cash awards and appreciation certificates are announced based on the performance of the student chapters and society chapters. The student chapters having maximum number of members are also honoured. During the last year, appreciation certificates were given to top 3 best performing Student Branches and 24 society chapters of the section.

### **Student Branch Revamping:**

IEEE Madras Section is one of the largest sections in the globe. There are totally 204 IEEE student branches under IEEE Madras section. Out of these, only 74 SBs are active in terms of the required 12 student members. The remaining SBs are classified as defunct. The IEEE MAS SAC is continuously interacting with the student branches to activate the defunct SBs and to have more activities in the active student branches. In this regard, Region 10 SAC has taken an initiative to close down the student branches which are not active for the last two years and are having zero student members and to revamp the SBs having less than 12 members.

IEEE Madras Section has appointed Dr.S. Elangovan, Member, SAC as in-charge for IEEE MAS Student Branch Revamping project 2016. As an initiative, a mail and a hard copy letter was sent to all the defunct student branches on 04.04.2016 requesting the student branch counselors / head of the institution to revive their student branches. We have received responses from 7 student branches that they have revived their student branches. The details of the same are given below. Another mail is planned to send on 19.05.2016. The defunct student branches are advised / instructed to revive their SB on or before 15.07.2016. A list of defunct student branches district-wise is identified. One / two active student branches were identified to revamp their surrounding student branches.

Region 10 SAC is also taking an initiative to identify volunteers from team of young professional members to revamp the defunct IEEE student branches

### Details of Student Branches Revived:

SI.No.	Student Branch Name
1.	Sethu Institute of Tech.
2.	Park College of Engineering & Tech.
3.	Bharath Inst. of Science and Tech.
4.	Valliammai Engineering College
5.	Akshaya College of Engineering
6.	C.K. College of Engineering. & Technology
7.	Jansons Institute of Technology

### Website Re-Structuring

IEEE Madras section website was initially hosted using Drupal web platform. This year as per the advice received from IEEE headquarters the section website is revamped using WordPress. It is an open source **Content Management System (CMS)**, which allows the users to build dynamic websites and blog. It is one of the popular blogging system on the web and allows updating, customizing and managing the website from its back-end CMS and components. The Madras section website has been updated on the new platform and the URL is: <http://sites.ieee.org/madras/>

### R10 SWYL Congress Sponsorship:

The 2016 SYWL Congress was held in Bangalore in August 2016. It began with the welcome address by Mr. Ravikiran, SYWLC Chair, followed by an address by Professor Howard Michel, 2015 IEEE President. The Inaugural address was delivered by Dr. G. Sateesh Reddy, who spoke about the relevance of technology for the security of a nation, Dr. Vipin Tyagi, CDOT also gave a talk on the revolution in telecommunication. The opening session of SYWL Congress concluded with a vote of thanks. IEEE Madras section has sponsored members and students for this congress every year. This year also the section has sponsored the following members

SI No.	Member
1	Mr. Mohan HR
2	Dr. Sakthivel P
3	Dr. Koteeswaran Seerangan
4	Dr.S. Radha
5	Mr. M. Arun
6	Mr. Aravindhnan
7	Mr. Sujith Roy S
8	Mr. Sunil Kumar Prabhakar
9	Ms. Nivetha S
10	Mr. D Jim Isaac
11.	Ms. Krishna Priya.S.N
12.	Ms. Sanjana Mallya
13.	Ms. Gayathri Gopal
14.	Ms. Rithu Baran

### Chapter Activities

SI.No.	Society Name	Meetings Conducted
1.	Aerospace and Electronic Systems (AES)	9



SI.No.	Society Name	Meetings Conducted
3.	Computer Society (CS)	36
4.	Communications (COMSOC)	6
5.	Computational Intelligence (CIS)	15
6.	Control Systems (CSS)	5
7.	Engineering in Medicine & Biology (EMBS)	-
8.	Electron Devices (EDS)	-
9.	Education (ES)	9
10.	Electromagnetic Compatibility(EMCS)	1
11.	Industrial Applications (IAS)	-
12.	Information Theory (ITS)	19
13.	Instrumentation and Measurement (IMS)	7
14.	Microwave Theory and Techniques (MTTS)	2
15.	Nano Technology Council (NTC)	-
16.	Power and Energy (PES)	5
17.	Power Electronics (PELS)	9
18.	Product Safety Engineering (PSES)	18
19.	Professional Communication (PCS)	22
20.	Photonics (PS)	10
21.	Robotics and Automation (RAS)	12
22.	SIPCICOM	12
23.	Social Implications of Technology (SITS)	4
24.	Technology and Engineering Management Society (TMC)	9

### Major Student and Affinity Group Activities

#### Student Activity

- Entrepreneurship Awareness Camp (EAC)
- IEEE Hub Congress

#### Affinity Group Activities

SI.No.	Affinity group Name	No. of Activities
1.	WIE Affinity Group	8
2.	Young Professional	16
3.	SIGHT	
4.	ASDF	

### Financial Report

- **Summary (See the Treasurer's Report)**
- **Major Activities of the Section**

✓ IEEE Day Celebrations

- ✓ IEEE Authorship Workshop in India
- ✓ IEEE India Internship Entrepreneurship Program
- ✓ 26 National/International Conferences/Workshop/Seminars organized by the Student Branches in different Engineering Colleges and Chapters of the IEEE Societies were co-sponsored by the Madras Section.
- ✓ Faculty Development Program (FDP)
- ✓ Technical Lectures
- ✓ Funding for R10 SWYL Congress Sponsorship

## PART C: ORGANIZATIONAL ACTIVITIES

### Membership Development Activities

The Section takes lot of initiatives to enhance the membership of the section. The Membership advancement committee have taken initiative for the enhancement of membership to elevate from members to senior members. With these initiatives 69 new members has been referred for the elevation as Senior member with section having 196 Senior members during 2016. The following activities have been conducted during 2016 for the enhancement of the members including the student membership:

- a. Faculty Development Programs
  - b. Project funding for the students
  - c. Sponsorship for the conferences , Workshop , Seminars, Symposiums
  - d. Recognition and awards to student branches having good number of members and conducting good number of activities.
  - e. Student Branch Revamping
- **Total number of active members in the past 3 years.**

The details of Membership as on 31<sup>st</sup> Dec 2014, 2015 and 2016 are given below:

	<u>31<sup>st</sup> Dec 2014</u>	<u>31<sup>st</sup> Dec 2015</u>	<u>31<sup>st</sup> Dec 2016</u>
➤ Life Fellow	1	5	0
➤ Fellow	3	4	4
➤ Life Seniors	13	13	12
➤ Senior Members	127	127	196
➤ Life Members	5	5	7
➤ Members	2416	2191	2246
➤ Affiliate Members	25	19	21
➤ Associate Members	107	92	55
➤ Graduate Student Members	1399	962	818
➤ Student Members	6219	5119	5188
<b>TOTAL MEMBERSHIP</b>	<b>10315</b>	<b>8537</b>	<b>8547</b>

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

### DETAILS OF NEW STUDENT BRANCHES STARTED DURING 2016

Sl. No.	Name of the Student Branch	Date of approval	Branch code
1.	Karpagam University	08.05.2016	STB1032
2.	Vaigai College of Engineering	11.07.2016	STB64290
3.	Christ College of Engineering & Technology	16.11.2016	STB10008
4.	Vetri Vinayaha College of Engineering and Technology	21.11.2016	STB100124
5.	R.M.K. College of Engineering and Technology	11.03.2016	STB20131
6.	Hindusthan Institute of Technology	20.04.2016	STB15122
7.	Bharathiar University	29.06.2016	STB1020
8.	JCT College of Engineering and Technology	22.09.2016	STB64275
9.	PPG Institute of Technology	22.09.2016	STB64274
10.	SCAD College of Engineering And Technology	22.09.2016	STB64274
11.	Surya Engineering College	22.09.2016	STB64273
12.	Indian Institute of information Technology Design & Manufacturing	07.10.2016	STB64286
13.	RVS Technology Campus	07.10.2016	STB64283

#### DETAILS OF NEW STUDENT BRANCH CHAPTERS / AFFINITY GROUPS STARTED DURING 2016

Sl. No.	Name of the student branch chapter	Date of approval	Branch code
1.	Kongu Engineering College - Power & Energy Society	26.04.2016	SBC29741A
2.	Kongu Engineering College -Robotics and Automation	21.04.2016	SBC29741B
3.	St. Joseph's Institute of Technology - Women in Engineering	04.04.2016	SBA16181
4.	Vellore Institute of Technology - Circuits and Systems	20.04.2016	SBC33311L
5.	Jeppiaar Institute of Technology - Computer Society	22.06.2016	SBC10731
6.	Panimalar Institute of Technology - Information Theory	21.07.2016	SBC15181N
7.	Jeppiaar Institute of Technology Robotics and Automation	06.07.2016	SBC10731A
8.	Thiagarajar College of Engineering - Circuits and Systems Society	25.07.2016	SBC28141
9.	St. Joseph's College of Engineering - Control Systems Society	03.08.2016	SBC60101J
10.	Jansons Institute of Technology-Women In Engineering	01.08.2016	SBA09271.
11.	CK College of Engineering and Technology - Control Systems	01.08.2016	SBC18141A
12.	Sastra University - Power & Energy Society	28.10.2016	SBC10171A
13.	Sastra University- Women In Engineering	11.07.2016	SBA10171
14.	Panimalar Institute of Technology – Antennas and Propagation Society	29.04.2016	SBC1581E
15.	KCG College of Technology -Women in Engineering	16.11.2016	SBA09281
16.	Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science & Technology - Professional Communication	7.12.2016	SBC15921C
17.	Dr N G P Institute of Technology- Computer Society	14.12.2016	SBC05511A
18.	Sastra University - Computer Society	14.12.2016	SBC10171B
19.	Sri Sviasubramaniya Nadar College of Engineering – Communication Society	21.03.2016	SBC60551A

Sl. No.	Name of the student branch chapter	Date of approval	Branch code
20.	Vellore Institute of Technology – Communications Society	28.03.2016	SBC33311K
21.	Arulmigu Kalasalingam College of Engineering - Computational Intelligence Society	16.02.2016	SBC34451
22.	Panimalar Institute of Technology- Computational Intelligence Society	09.05.2016	SBC15181J
23.	St. Joseph's College of Engineering - Computational Intelligence Society	27.06.2016	SBC60101I
24.	Kongu Engineering College – Computer Society	30.30.2016	SBC29741
25.	Panimalar Institute of Technology - Computer Society	13.05.2016	SBC15181M
26.	Velammal Engineering College - Computer Society	20.06.2016	SBC60661
27.	St. Joseph's College of Engineering – Computer society	27.06.2016	SBC60101H
28.	Vel Tech Dr. RR & Dr.SR R&D Institute of Sci & Tech – Computer Society	28.09.2016	SBC15921B
29.	Panimalar Institute of Technology – Electron Devices	09.05.2016	SBC15181H
30.	PSG college of Tech – Engineering and Medicine and Biology	13.05.2016	SBC12951A
31.	Amirta School of Engineering - Industry Applications	11.04.2016	SBC66161
32.	Panimalar Institute of Technology – Instrumentation and Measurement Society	13.05.2016	SBC15181K
33.	Karunya Institute of Technology - Instrumentation and Measurement Society	22.09.2016	SBC31061
34.	Panimalar Institute of Technology - Mocirowave Theory and Techniques Society	11.03.2016	SBC15181D
35.	Vellore Institute of Technology – Nanotechnology council	27.06.2016	SBC33311M
36.	Panimalar Institute of Technology – Oceanic Engineering society	13.05.2016	SBC15181L
37.	Panimalar Institute of Technology – Power electronics Society	09.05.2016	SBC15181F
38.	St. Joseph's Institute of Technology - Power Electronics Society	06.06.2016	SBC16181
39.	Panimalar Institute of Technology- Product Safety Engineering Society	20.05.2016	SBC15181
40.	St. Joseph's Institute of Technology- Robotics and Automation Society	19.04.2016	SBC16181A
41.	Vels University - Signal Processing Society	09.05.2016	SBC13871A
42.	Thiagarajar College of Engineering – Systems, Manand Cybernetics Society	16.02.2016	SBC28141D
43.	Vellore Institute of Technology – Technology and engineering Management Society	11.04.2016	SBC33311
44.	S.A. Engineering College – Women in Engineering	03.05.2016	SBA05661

### Chapter Activities

- Total number of Chapters in the Section: 25
- Details of new Societies Formed under IEEE Madras Section in 2016: Nil
- Number of Active Chapters : 23
- Society Chapters / Affinity Groups link to their Activities reports

Detailed reports of individual SCs/AGs, please visit:

<https://drive.google.com/drive/folders/0B5jxEnDN1CofcGx4aVktWWVoM2s?usp=sharing>

## Professional and Continuing Education Activities

The Madras Section is very keen in promoting professional and continuing education activities through different schemes. During the current year the following activities have been supported by the section for the enhancement of continuing education activities.

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

## Educational Activities

Educational Activities organized during the year 2016 furnished below:

- **Educational Activity – Chairperson: Mr. P. Subramanian.**
  - Faculty Development Program (FDP) – 3

Sl.No.	Topic	Venue	Participants
1	Energy Efficiency and Energy saving using New Technologies”.	K.L.N. College of Engineering, Pottapalayam	22
2	Medical Informatics Extraction using Soft Computing Techniques”	Knowledge Institute of Technology, Salem	27
3	Antenna Design and Measurement Techniques, Chennai	SSN College of Engineering, Chennai	34

## Sponsorship for Conferences to Student Branches (SBs) from Section

Sl.No:	Name of the college	Topic	Amount in (Rs.)
1	Prathyusha Institute of Technology	2nd International Conference on Advances in Electrical, Electronics Information, Communication and Bio- Informatics - AEEICB'16	15000
2	Hindustan College of Engineerig & Technology	Two days Workshop on "Service Oriented Architechture"	5000
3.	Ganadipathy Tulsi's Jain Engineering College	Digital India, Make in India and Skill India, 5S Concepts, Latest Trends in IT	5000
4.	Sri Krishna Engineering and Technology	National Level Technical Symposium on " KRISNECS 2K16	10000
5.	SSN college of Engineering	Wireless Communications, Signal Processing and Networking - WISPNET 2016	17500
6.	Dr. Sivanthi aditanar College of engineering	One Day National Seminar on " Trends in Antenna Design and Application	5000
7.	Rajalakshmi engineering College	International conference on Engineering Digital Green Era (EDGE - 2016)	5000
8.	Sri Ramakrishna Engineering College	National level Paper / Project Contest - TECHKSMOS 2016" & Workshop on MATLAB for Electrical & Electronics Engineers.	7500
9.	Kumaraguru College of Technology	Embedded system & Sensor Technology	10000
10.	KLN College of Engineering	National level Seminar on" Application of power Electronics in Polymer product manufacturing"	10000
11	National Engineering College	Two Day Hands on Training on Internet of things:	5000

Sl.No:	Name of the college	Topic	Amount in (Rs.)
12.	St. Peter's College of Engineering & Technology	Two Days Workshop on Software defined Radio and Cognitive Radio Technologies"	5000
13.	Kings college of Engineering	International Conference on " Emerging Trends in Engineering, Technology and Science	7500
14.	MIT	Seventh International Conference on Advanced Computing - (ICoAC2015)	5000
15.	Dr. M.G.R. Educational & Research Institute	Crossroads 2016, Innovations starts here ( National Level)	5000
16.	R.M.K. College of Engineering & Technology	Two days National Level Workshop on Embedded System Technologies	5000
17.	K.S. Rangasamy College of Technology	National Level Technical Symposium on " Embedded Systems and Communication Systems"	10000
18.	KIOT	National Level Technical Symposium on " Embedded Systems and Communication Systems"	7500
19.	B.S Abdur Rahman University	8th National Conference on " Recent Trends in VLSI, Information and Communication"	12500
20.	Sri Ramakrishna Engineering College	PCB Design for Engineering Applications	10000
21.	Dr. Sivanthi Aditanar College of Engineering	One Day National Workshop on Signal & Image Processing using Matlab	7500
22.	S.A. Engineering College	National Level Workshop on " Mathematical Modelling of Wireless Networks	5000
23.	St. Joseph's College of Engineering	Symposium - Jet Potential '16	17500
24.	K.S. Rangasamy College of Technology	Conference cum Scientific Meet on Industry - Institute Interaction	5000
25.	St. Xavier's College of Engineering	IEEE XTREME 10.0	10000
26.	Velammal Engineering College	Seminar on Human Computer Interaction	12500

#### Funding to SBs routed through Section:

Sl.No.	COLLEGE NAME	AMOUNT in (Rs.)	REMARKS
1	PSNA College of Engineering & Technology	62261	EMB Society funding
2	Sri Krishna College of Engineering and Technology	33235	RAS Start-Up Chapter Grant
3	Jeppiaar Engineering College	31573	PES High Performing Student Branch Chapter Program (HPSBCP)
4	Jeppiaar Engineering College	13554	R10 SB Web Contest 3rd Prize Award
5	K.S. Rangasamy College of Technology	67300	EMBS Chapter Activity Funding
6	Kongu Engineering College	49454	STB funding for 2015 (Rebate)
7	Panimalar Institute Of Technology	15554	STB funding for 2015 (Rebate)
8	Easwari Engineering College	8641	STB funding for 2015 (Rebate)
9	M Kumarasamy college of Engineering	34299	STB funding for 2015 (Rebate)
10	St. Joseph institute of f technology	17282	STB funding for 2015 (Rebate)
11	Thiagarajar College of Engineering	16485	STB funding for 2015 (Rebate)
12	St. Xavier Catholic College of Engineering	37622	STB funding for 2015 (Rebate)
13	Sri Sivasubramaniya Nadar College Of Engineering	33767	STB funding for 2015 (Rebate)
14	Sri Muthukumaran Institute of Technology	17016	STB funding for 2015 (Rebate)

<b>Sl.No.</b>	<b>COLLEGE NAME</b>	<b>AMOUNT in (Rs.)</b>	<b>REMARKS</b>
16	St. Joseph College of Engineering	20872	STB funding for 2015 (Rebate)
17	Jeppiaar Engineering College	33900	STB funding for 2015 (Rebate)
18	Karpagam College of Engineering	63412	STB funding for 2015 (Rebate)
19	Karpagam College of Engineering	7268	STB funding for 2013 (Rebate)
20	VIT University, Vellore	50475	2016 EDS Chapter subsidy for the ED Vellore Inst. of Technology SBC
21	VIT University, Vellore	33650	IEEE IAS starting subsidy - VIT University Chapter
22	VIT University, Vellore	100950	MTT-S Chapter Funding - VIT University - IEEE MTTs SBC
23	Jeppiaar Institute of Technology	13460	WIE Funding for student branch
24	Saveetha School of Engineering	10095	R10 WIE Support Fund
25	St. Joseph College of Engineering	87490	APS Annual Support for 2016
26	Dr. Sivanthi Aditanar College of Engineering	16147	STB Funding - 2015
27	S.A. Engineering College	13456	Initiative Funding for WIE
28	St. Joseph's Institute of Tech.	13456	Initiative Funding for WIE
29	St. Joseph's Institute of Technology	33640	Fund for RAS chapter Inauguration & Technical events
30	Sri Ramakrishna Engineering College	16820	IEEE WIE student branch Affinity Group Award
31	Jeppiaar Institute of Technology	25701	STB funding for 2015 (Rebate)
32	Knowledge Institute of Technology	8343	STB funding for 2015 (Rebate)
33	Prathyusha Institute of Tech. & Management	9285	STB funding for 2015 (Rebate)
34	Sri Ramakrishna Engineering College	25028	STB funding for 2015 (Rebate)
35	Sri Sairam Engineering College	41041	STB funding for 2015 (Rebate)
36	Kumaraguru College of Technology	33340	Sponsorship for SS12 Project competition and Make Fair
37	Kumaraguru College of Technology	200040	IEEE HAC event funding for SS12 Asia Innovation for all project contest and Maker Conference
38	K.S. Rangasamy College of Technology	66380	EMBS Chapter Funding
39	Kumaraguru College of Technology	33190	Special project support From IEEE APS HQ for organizing Maker Fair
40	Sri Krishna College of Engineering and Technology	33190	R10 AIYEHUM 2016 Project Funding
41	Kalasalingam University	33190	R10 AIYEHUM 2016 Project Funding
42	St. Xavier's Catholic College of Engg.	33190	R10 AIYEHUM 2016 Project Funding
43	Velammal College of Engineering & Technology	33190	R10 AIYEHUM 2016 Project Funding
44	IFET College of Engineering	33190	R10 AIYEHUM 2016 Project Funding
45	Annai Vailankannai College of Engineering	33190	R10 AIYEHUM 2016 Project Funding
46	Kalasalingam University	341600	CSS Outreach Grant for IEEE CSS winter school on Cyber - Physical systems
47	National Engineering College	524402	EPICS in IEEE funding for project CasTalk: A smart platform for casual talk between normal and deaf people.

### Funding to Society Chapters /Affinity Groups routed through Section

SI.No.	SOCIETY NAME	DESCRIPTION	AMOUNT in (Rs.)
1	WIE	IEEE STEP 2014 Funding for Young Professionals Madras Section	33235
2	WIE	R10 WIE Support Fund (WIE2015-6) c/o Dr. Vydeki Vijayakumar	27108
3	SIGHT	MGA Achievement award - Mr. Vincent jain	16943
4	EDS, Coimbatore	Subsidy to EDS Coimbatore	50828
5	WIE	IAS - \$500; Support for WIE event; Madras IEEE WIE Affinity Group, Vydeki Vijayakumar, dvydeki@yahoo.co.in	33885
6	WIE	IEEE STEP event funding (special funding for WIE)	67300
7	APS	Annual support from H.Q. \$1300	87490
8	EDS Madras	EDS Subsidy for 2016 \$750	50475
9	Photonics society	PHO - \$1000 Chapter Education Funding	66680
10	COMSOC	2016 Chapter Funding from Comsoc h.q.	46676
11	APS	Special Project funding from APS H.Q.	66680
12	CS	Support from CS hq. for ICT quiz	66380

### Funding for Travel Support from Section

SI. No.	Name	Conference Title	Paper Title	Venue	Amount in (Rs.)
1.	Dr. M.A. Atmanand	OCEAN'16 MTS/IEEE Monterey	Indigenous drifting buoys for the Indian Ocean Observation, OCEAN'16 MTS/IEEE MONTEREY	California,USA	10000
2.	Dr.N. Kumarappan	IEEE WCCI 2016 – CEC 2016	Optimal Installation of Multiple DG Units Using Competitive Swarm Optimizer (CSO) Algorithm	Vancouver, Canada	10000
3	Dr. B. Paramasivan	POCO	To attend POCO	Canada	10000

### Project Funding to SBs - Student Project Funding (SPF 2015-16)

SI. No.	Project Title	Name of the Student	Name of the College	Amount (Rs)
1.	Life Protector Robot For Child In The Borehole	Mr.A.S.Hemnath Kowshick Mr.G.Barath Vignesh Mr.A.Balachandran Miss.R.Gayathri	Knowledge Institute Of Technology	5000
2.	"Evaluation of anti-cancer properties of Lichens using experimental rats as an animal model for biomedical applications"	Vishnu Priyan, V. Gayathri, G Yoka Barrathi, N.S Dheenadhayalan, K	K.S.Rangasamy College of Technology	15000



Sl. No.	Project Title	Name of the Student	Name of the College	Amount (Rs)
3.	Automatic Fall Detection for the Elderly People using Motion Sensing	Sharmila D. Lukeman Hakkim S	Sri Ramakrishna Engineering College	7000
4.	Torque Ripple and Harmonics Reduction In BLDC drive using SVPWM Cascaded Multilevel Inverter	Ms. K. Haripriya Ms. R. Jeevabharati Ms. G. Nandini Ms. S. Piyanga	Dr.N.G.P. Institute of Technology	5000
5.	Development of Biomedical Remote Data Logging System With Raspberry Pi Based Embedded Webserver.	Ranjith.S Poopal.T	Jeppiaar Institute of Technology	3000
6.	Automated Wheel Chair Using Sensor Networks	N. Srividya V. Soniya	SSN College of Engineering	15000
7.	Intelligent Accident Alert And Safety System Using GSM.	Premihaar.M N.P. Ria	Panimalar Institute of Technology	2000
8.	Realtime Public Road Transport Information & Monitoring System	Kiran.R Sathya.M Surendran.S Vikram.M	Dr.N.G.P. Institute of Technology	5000
9.	Internet Of E&E Appliances	M.S.Saravanan Mohammed Burhanuddin Dadni	Panimalar Institute of Technology	10000

### Students Activities

- Total number of Student branches in the Section : 258
- Number of Student branches formed in the current year: 13 Student Branches
- Number of Active Student branches : 84

### Summary of active Student branch

Sl. No.	College
1.	Aarupadai Veedu Institute of Technology
2.	Adhiparasakthi Engineering College
3.	Akshaya College of Engineering and Technology
4.	Amrita School of Engineering
5.	Anna University
6.	Anna University Regional Centre Coimbatore
7.	Annai Vailankanni College of Engineering
8.	Arulmigu Kalasalingam College of Eng
9.	Bannari Amman Institute of Technology
10.	Bharathiar University
11.	...

<b>Sl. No.</b>	<b>College</b>
12.	CK College of Engineering and Technology
13.	Coimbatore Institute of Engineering and Information Technology
14.	Crescent Engineering College
15.	DMI College of Engineering
16.	Dr. M G R Educational and Research Institute
17.	Dr. Mahalingam College Of Engineering & Technology
18.	Dr. N G P Institute of Technology
19.	Dr. Sivanthi Aditanar Coll of Engineering
20.	Easwari Engineering College
21.	Francis Xavier Engineering College
22.	Government College of Technology Coimbatore
23.	Hindusthan College of Engineering and Technology
24.	Indian Institute of Technology-Madras
25.	Jansons Institute of Technology
26.	Jeppiaar Engineering College
27.	Jeppiaar Institute of Technology
28.	K S Rangasamy College of Technology
29.	Karpagam College of Engineering
30.	Karpagam University
31.	Karunya Institute of Technology
32.	KLN College of Engineering
33.	Knowledge Institute of Technology
34.	Kongu Engineering College
35.	KPR Institute of Engineering and Technology
36.	Kumaraguru College of Technology
37.	Loyola-ICAM College of Engineering and Technology
38.	M Kumarasamy College of Engineering
39.	Mar Ephraem College of Engineering & Technology
40.	Mepco Schlenk Engineering College
41.	Misrimal Navajee Munoth Jain Engineering College
42.	National Engineering College
43.	Natl Institute of Technology-Trichy
44.	Panimalar Institute of Technology
45.	Periyar Maniammai University
46.	PET Engineering College
47.	Prathyusha Institute of Tecnology and Management
48.	PSG College Of Technology
49.	PSNA College Of Engineering and Technology
50.	R M K Engineering College
51.	Rajalakshmi Engineering College
52.	Rajalakshni Institute of Technology
53.	Ranganathan Engineering College
54.	S. A. Engineering College

Sl. No.	College
56.	Sathyabama University
57.	Scad College of Engineering and Tech
58.	Sethu Institute of Technology
59.	SNS College of Technology
60.	Sona College Of Technology
61.	Sri Eshwar College of Engineering
62.	Sri Krishna College Of Engineering & Technology
63.	Sri Krishna College of Technology
64.	Sri Muthukumaran Inst Of Technology
65.	Sri Ramakrishna Engineering College
66.	Sri Sairam Engineering College
67.	Sri Shakthi Inst Of Engineering & Technology
68.	Sri Sivasubramaniya Nadar College Of Engineering
69.	SRM University – Kattankulathur
70.	SRM University, Vadapalani
71.	St Joseph College Of Engineering
72.	St Peter'S Engineering College
73.	St Xavier's Catholic College Of Engineering
74.	St. Joseph's College of Engineering
75.	St. Joseph's College of Engineering & Technology
76.	St. Joseph's Institute of Technology
77.	St. Peter's College of Engineering and Technology
78.	SVS College of Engineering
79.	Thiagarajar College Of Engineering-Madurai
80.	Vel Tech Dr. RR Dr. SR R&D Institute of Science and Technology
81.	Velalar College Of Engineering & Technology
82.	Velammal Engineering College
83.	Vellore Inst of Technology
84.	VELS University

### Awards & Recognition Activities

- Award constituted by the section:**

To encourage the student branches & societies to conduct more activities the cash awards & certificates of appreciation are being distributed every year at the Annual Meeting. The selection of awards is based on the activities published in the MAS-LINK- Newsletter.

- 1) The Student Branch having maximum number of members
- 2) Student Branches conducting good number of activities.
- 3) Technical Chapter of the section awarded based on the number of event conducted.

**IEEE MAS SC-AG Awards - 2016**  
**Based on the Activities Report submitted for the year 2016**

SC/AG Name	Grade	Award	Certificate	Rank
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**IEEE MAS SC-AG Awards - 2016**  
Based on the Activities Report submitted for the year 2016

SC/AG Name	Grade	Award	Certificate	Rank
Computer Society	S	10000	Yes	First
Professional Communication Society	S	7500	Yes	Second
Information Theory Society	S	5000	Yes	Third
Computational Intelligence Society	A	3000	Yes	
Product Safety Engineering	A	3000	Yes	
Young Professionals	A	3000	Yes	
Robotics and Automation society	A	3000	Yes	
Antennas and Propagation Society,	B	2000	Yes	
Communication Society	B	2000	yes	
Education Society	B	2000	yes	
Technology and Engineering Management Society	B	2000	yes	
Women in Engineering	B	2000	yes	
Photonics Society	B	2000	yes	
SIPCICOM	B	2000	yes	
Instrumentation and Measurement	C	1000	yes	
Power Electronics Society	C	1000	yes	
Control System Society	C	1000	yes	
Aerospace and Electronic systems Society	C	1000	yes	
Power & Energy Society	C	1000	yes	
Social Implications of Technology		0	no	
Microwave Theory and Techniques society		0	no	
Electromagnetic Compatibility		0	no	
Electronic Devices Society				
Engineering in Medicine and Biology Society				
Industrial Applications Society				
Nanotechnology Council				
SIGHT (Solar)				
SIGHT (ADSF)				

For detailed reports of individual SCs/AGs, please visit

<https://drive.google.com/drive/folders/0B5jxEnDN1CofcGx4aVktWWVoM2s?usp=sharing>

**IEEE MAS SB Awards - 2016**

Based on the Activities Report submitted for the year 2016

Sl. No.	SB Code	SB Name	Grade	Cash	Cert Y/N	Rank
1	STB15181	Panimalar Institute of Technology	S	10000	Y	First
2	STB64291	Karpagam College of Engineering	S	7500	Y	Second
3	STB08101	Knowledge Institute of Technology	S	5000	Y	Third
4	STB64491	Bannari Amman Institute of Technology	A	3000	Y	
5	STB60551	Sri Sivasubramaniva Nadar (SSN) College of	A	3000	v	

**IEEE MAS SB Awards - 2016**

**Based on the Activities Report submitted for the year 2016**

<b>Sl. No.</b>	<b>SB Code</b>	<b>SB Name</b>	<b>Grade</b>	<b>Cash</b>	<b>Cert Y/N</b>	<b>Rank</b>
		Engineering				
6	STB10731	Jeppiaar Institute of Technology	A	3000	Y	
7	STB60891	KS Rangasamy College of Technology	A	3000	Y	
8	STB62851	St. Xavier's Catholic College of Engineering	A	3000	Y	
9	STB60101	St. Joseph's College of Engineering	A	3000	Y	
10	STB61491	Sri Ramakrishna Engineering College	A	3000	Y	
11	STB09271	Jansons Institute of Technology	A	3000	Y	
12	STB60791	KLN College of Engineering	A	3000	Y	
13	STB29741	Kongu Engineering College	A	3000	Y	
14	STB33311	Vellore Institute of Technology	B	2000	Y	
15	STB15921	Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology	B	2000	Y	
16	STB64691	Jeppiaar Engineering College	B	2000	Y	
17	STB60661	Velammal Engineering College	B	2000	Y	
18	STB05511	Dr.NGP Institute of Technology	B	2000	Y	
19	STB28141	Thiagarajar College of Engineering	B	2000	Y	
20	STB08081	PSNA College of Engineering and Technology	B	2000	Y	
21	STB61871	RMK Engineering College	B	2000	Y	
22	STB16181	St. Joseph's Institute of Technology	B	2000	Y	
23	STB65101	M Kumarasamy College of Engineering	B	2000	Y	
24	STB05661	SA Engineering College	B	2000	Y	
25	STB61401	Dr. Sivanthi Aditanar College of Engineering	B	2000	Y	
26	STB61261	Sri Krishna College of Engineering and Technology	B	2000	Y	
27	STB08171	Cape Institute of Technology	B	2000	Y	
28	STB61471	Rajalakshmi Engineering College	B	2000	Y	
29	STB63431	Aarupadai veedu Institute of Technology	B	2000	Y	
30	STB04311	Prathyusha Engineering College	B	2000	Y	
31	STB31061	Karunya University	B	2000	Y	
32	STB17131	St. Peter's College of Engineering and Technology	B	2000	Y	
33	STB10171	Sastra University	B	2000	Y	
34	34451	Kalasalingam University	C	1000	Y	
35	STB16621	Kings College of Engineering	C	1000	Y	
36	STB60991	Sri Sairam Engineering College	C	1000	Y	

## IEEE MAS SB Awards - 2016

### Based on the Activities Report submitted for the year 2016

Sl. No.	SB Code	SB Name	Grade	Cash	Cert Y/N	Rank
37	2529751	Kumaraguru College of Technology	C	1000	Y	
38	STB13131	Sri Krishna College of Technology	C	1000	Y	
39	STB29861	Mepco Schlenk Engineering College	C	1000	Y	
40	STB62731	IFET College of Engineering	C	1000	Y	
41	STB20131	RMK College of Engineering and Technology	C	1000	Y	
42	STB35301	Sathyabama University	C	1000	Y	
43	STB09591	VIT University	C	1000	Y	
44	STB09151	Akshaya College of Engineering and Technology	D	0	N	
45	STB61631	Dr. Mahalingam College of Engineering and Technology	D	0	N	
46	STB12951	PSG College of Technology	D	0	N	
47	STB03961	Sri Eshwar College of Engineering	D	0	N	
48	STB12871	Arulmigu Meenakshi Amman College of Engineering	D	0	N	
49	STB14561	Annai Vailankanni college of Engineering	D	0	N	
50	STB09281	KCG College of Technology	D	0	N	
51	STB61311	Easwari Engineering College	D	0	N	
52	STB28851	Sri Venkateswara College of Engineering	D	0	N	
53	STB61411	Sri Muthukumarar Institute of Technology	D	0	N	

For detailed reports of individual SBs, please visit

<https://drive.google.com/drive/folders/0B5jxEnDN1CofZ0RUdFZjZnM2QUk?usp=sharing>

#### • Award(s) received from IEEE HQ

- Prof. M. Ramalatha has received the 2016 WIE Inspiring Member of the Year Award. to recognize a professional member of IEEE Women in Engineering
- IEEE Foundation has sanctioned a grant of \$18, 263 for the project on "Smart Agriculture for Sustainable Food Production" on December 16th. The project involves development of website and mobile app for smart agriculture and conducting awareness workshops on it. The project Period is Jan - December of 2017.
- IEEE Computational Intelligence Society – Madras Section Chapter has received the Outstanding Chapter Award for the year 2015 under the Chairmanship of Dr.N. Kumarappan.
- Certificate of Recognition: The IEEE Member Recruitment and recovery committee recognizes Mr. H.R. Mohan & Dr. N. Kumarappan for outstanding achievement in member retention for the Madras Section during the 2016.
- IEEE Computer Society Madras Chapter of the Madras Section has won the Outstanding Chapter Award for 2015 under the Chairmanship of Mr. H. R. Mohan
- Dr. M.A. Atmanand, Chair, Madras Section was awarded with IEEE Oceanic Engineering Society's (OES) Presidential Award for his outstanding services to the IEEE Oceanic Engineering Society.

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

- Newsletter
  - Name: IEEE Mas-Link
  - Number of issues in the year: 11 issues as eNewsletter 4 Quarterly issues in print
- Home Page of the section at the URL <http://sites.ieee.org/madras/> gets regularly updated with the announcements and reports on various activities held in the Section.
- **Other means of contacts with section members**

IEEE Madras Section office is in regular touch with all the members through mail and by creating List serv 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.

The IEEE Madras Section also has a presence on Facebook and the events and other announcements are posted at: <https://www.facebook.com/IEEEMadrassection/>

## B.7. Community Activities

Sl.No.	Date	Topic	Speaker
1.	16 <sup>th</sup> Mar.2016	Outreach Program - Outreach, Village visit, Needs identification	Dr.Vydeki Vijayakumar, Chair, Madras IEEE WIE and WIE Volunteers
2.	9 <sup>th</sup> – 10 <sup>th</sup> Nov 2016	Cleanliness, Sanitation and Hygiene in any community	Multiple

**Dr. P. Sakthivel**  
**Secretary & Treasurer**  
**IEEE Madras Section**