Region 10 Section Report Format

IEEE Madras Section

PART A - SECTION SUMMARY

A.1 Executive Summary –

❖ **Section Executive Committee Member List**

Sl.No.	Name	Position
1	Dr. P. A. Manoharan	Chairman
2	Dr. M. A. Atmanand	Immediate Past Chair
3	Dr. S. Umashankar	Vice Chairman
4	Mr. S. Sundaresh	Vice Chairman
5	Dr. T. Micheal N Kumar	Secretary
6	Dr. V. Jayaprakasan	Treasurer
7	Dr. N. Kumarappan	Member
8	Dr. R. Venkatesan	Member
9	Mr. Nivas Ravichandran	Member
10	Dr. S. Joseph Gladwin	Member
11	Dr. M. Venkateshkumar	Member
12	Dr. D. Devaraj	Member
13	Dr. R. Hariprakash	Member
14	Dr. S. Salivahanan	Ombudsman

❖ **Section Highlights**

➢ **2018 IEEE MINI POCO (Panel of Conference Organizers)**

IEEE Madras Section has organised a Panel Of Conference Organizers (mini POCO)-2018 on 15/08/2018 at Heritage Hotel, Madurai. This event was conducted for the benefits of the IEEE Members, Volunteers, Academicians and Industrialists who are interested to organize quality IEEE Conference by understanding the IEEE Conference Policies. The Inaugural Function of mini POCO was conducted at 9:30 A.M. Dr. D. Devaraj, Excom. Member, IEEE Madras section welcomed the gathering. The event was inaugurated by Dr. Ramakrishna Kappagantu, Past Director IEEE Region -10(Asia-Pacific). In his inaugural address, Dr. Ramakrishna Kappagantu stressed the importance of adhering to the IEEE polices to maintain the quality of the IEEE conference. Dr. P.A. Manoharan during his presidential address briefed the audience about the steps taken by the IEEE Madras section to support the IEEE conference organizers.

The event had five sessions. The speaker for the first session was Dr. Ramakrishna Kappagantu and he gave a presentation in the title "Key issues and Challenges in organizing IEEE conference". The next session was handled by Dr. Amit kumar, Vice Chair, IEEE Hyderabad Section and the session title is "Heart of Conference-Focusing on Constituting a Technical Committee and creating peer review process". In his presentation, he highlighted the various steps to be followed in successfully organizing a conference. This was followed by Dr. B. Chitti Babu, Assistant professor, IIITDM Kancheepuram who gave a presentation on session titled "Publications in IEEE Conferences and Journals" In the afternoon Dr. Ramalatha Marimuthu, Past Vice Chair, WIE-Technical Activities, R-10 handled a session titled" The Good, The Bad and The Ugly : Organising a Conference ". She explained the various good practices which

can be adopted by the conference organizers. The session titled "e-processing of Conference Application" was handled by Dr. P.A Manoharan, Chairman, IEEE-Madras Section, in which he presented the details of the web-portal developed by IEEE Madras Section for the benefit of conference organizers. Finally, Dr. Michael. N. Kumar, Secretary, IEEE –Madras Section answered to the questions raised by the participants About eighty senior level faculty members from various parts of Tamilnadu attended the event and it provided a platform for them to gain the knowledge on how to conduct a good quality IEEE Conference. The Participants expressed satisfaction about this one day event. The Valedictory function was conducted at 4.30 P.M. Dr. D. Devaraj, thanked the gathering for their participation. Dr. P.A. Manoharan, distributed the certificates to the participants.

➢ IEEE Day 2018:

The IEEE Day 2018 was organized on 13th Oct 2018 at Koodal Hall, Anna University. About 140 members participated in the event. The event started with the welcome address and briefing on the section event highlights by Dr. P.A. Manoharan, Chair, IEEE Madras Section, Dr. M. Ponnavaikko, Director, GIEEE, Bangalore, Provost, Vinayaka Mission's University, Chief guest was present at the celebration. Mr. S. Sundaresh, Vice-Chair, IEEE Madras Section introduced the chief guest. Dr. M. Ponnavaikko gave the keynote address. In his speech he stressed about the importance of IEEE and benefits of the IEEE membership. He presented the certificate of appreciation to the contributors. The IEEE Day Cake cutting was done on continuation to that the Ice-Breaking & Introduction session took place. Following to this a brief quiz session on Know Your IEEE was conducted Mr. R. Nivas and Dr. M. Venkatesh Kumar, EC, Madras Section. IEEE Madras Section in which members enthusiastically participated and answered the various questions relating to IEEE and received the prizes. A talk on Membership Development was given by Dr. S. Elangovan, Past Student Activity Chair and Young Professionals, Madras Section and Dr. V. Vydegi, Chair, WIE, Madras Section. In the talk they informed about the various benefits of the membership, motivational awards and member - get- member offers. Ms. Angelin Indira, IEEE ADSF SIGHT shared her experience on R10 SYWL Congress 2018 held at Bally. Followed by this, the Student Branch presented their activities and shared the best practices followed at their Student Branches. A session was ended with vote of thanks. The group Photo was taken at the event. It has been shared at https://goo.gl/1xPJkV Pls find below the link for Photos of the events conducted above: https://drive.google.com/drive/folders/1n3tKdrHrMXAmEKNm6NRTl971UuqFpLFx?usp=sharing

➢ IEEE Student Branch Officers' Meet:

The IEEE student branch officers meeting was held on 22nd December 2018 at the National Institute of Technology, Tiruchirappalli. The meeting was organized for the student branch counselors and chairpersons of all the educational institutes under the IEEE Madras section. Representatives from various colleges which have active IEEE student branches participated in the meeting. The meeting was formally inaugurated by Dr. P. A. Manoharan, Chairman, Madras Section.Dr. P. A. Manoharan welcomed all the participants and the officials from the IEEE Madras section. The student branch activities were presented by Dr. T. Michael N. Kumar, Secretary, IEEE Madras section.

Dr. S. Sundaresh, Chairman, IEEE TEMS society, Madras chapter and Vice-Chairman, IEEE Madras section briefly addressed the gathering about 'entrepreneurship' opportunities for college graduates and extended support to organize a one-day workshop for students to promote young entrepreneurs. Prof. M. Ramalatha, Board of Governors, IEEE SSIT 2017 – 2019 presented the details about the financial support offered by the IEEE Madras section to the student branches of active institutes. Prof. M. Ramalathastressed the importance of WIE (Women in Engineering) and provided information about various funding procedures available in the form of sponsorship, partnership, grants and donations to IEEE student branches for organizing events such as workshops, conferences under IEEE.

Dr. D. Devaraj, EAC, Chair, Sub-committee, IEEE Madras presented the benefits of IEEE membership to students. He mentioned the fee reduction for IEEE student members for attending IEEE sponsored workshops and conferences. He also outlined the benefits for student members in the form of online resource centers, professional certificate programs through online learning, continuing education units (CEU). Dr. D. Devaraj also touched upon the various competitions available for IEEE student members such as Mobile Application Development Contest (MADC) and encouraged students and student branch counselors to submit humanitarian project proposals.

Finally, the student branch representatives from various institutes were requested to present the activities carried out under IEEE sponsorship in their parent institutes. Eleven institutions presented a brief account of the student branch activities which included workshops, conferences, short-term training programs (STP) and humanitarian out-reach activities in other schools. The humanitarian projects are targeted to provide solutions to problems faced by normal civilians in their day to day life. The Student Branch Officers meet – 2018 provided a platform for counsellors from various educational institutes to interact with each other and share their experiences as office bearers of the student branch. At the outset, the student branch meet provided encouragement, inspiration, and motivation for all the student branch

representatives to take back to their respective institutes and enhance the role of IEEE student branch in their parent institutes.

We thank each and every IEEE student branch representative for gracing the event with their presence and the lively interaction for sharing their experiences. We also thank the IEEE Madras section office bearers for their time and valuable inputs during the course of the meeting, which will be beneficial for the development of the IEEE student branches in every representing institute. The IEEE Student Brach Officers meeting – 2018 was held at National Institute of Technology, Tiruchirappalli. The event was coordinated by Dr. M. P. Selvan and Dr. P. Raja on behalf of the IEEE Student branch of NIT-T.

The snapshots of the event can be found in this link:

https://drive.google.com/drive/folders/1TbLXsuuetTXZ-AjVbTcuXiEzHPENMuwv

> **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. 66 different project proposals were received and the proposals were scrutinized by the member review committee of the relevant specialization and based on the recommendation by the committee, 31 project proposals were short listed. The presentation and demonstration of these projects will be held in the month of April and the best projects will be 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 have been defined for such Financial Assistance is based on the number of members available in each branch. During the year 2018, 13 such programs have been extended financial support to the tune of Rs. 71,450/-. The Section has also approved for 14 more student branches in-principle.

> **Faculty Development Program**

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 at different parts of Tamil Nadu. During the year 2018, 3 such Faculty Development programs were organized as below:

Sl.No.	Date	Topic	Venue	No. of participants
1.	16-17 Feb 2018	Practical Issues & Challenges In MM Wave Communication For 5G Applications	Jeppiaar Institute Of Technology, Chennai	31
2.	24-26 May 2018	Software Tools For Simulation And Analysis Of Power System	Kalasalingam Academy Of Research And Education, Krishnankoil	31
3.	25-27 July 2018	Microgrid And Grid Integration Issues Of Distributed Generation	SRM Institute Of Science And Technology, Kattankulathur, Chennai	55

✓ **Section Technical Chapter:**

IEEE Madras Section has 24 Technical Society Chapters and 3 Affinity Groups. The tables below indicate the Technical Society Chapters, Affinity groups Chairpersons:

Technical Society Chapters:

Sl.No.	Society Name	Chairperson
1.	Aerospace and Electronic Systems (AES)	Dr.A. Nagappan
2.	Antennas and Propagation (APS)	Dr. S.S. Karthikeyan
3.	Broadcast Society (BS)	Dr. B. Nagaraj
4.	Computer Society (CS)	Dr. P. Shakhivel
5.	Communications (COMSOC)	Mr. P. Subramanian
6.	Computational Intelligence (CIS)	Dr. N. Kumarappan
7.	Control Systems (CSS)	Dr. R. Hariprakash
8.	Engineering in Medicine & Biology (EMBS)	Dr. K. B. Jayanthi

9.	Electron Devices (EDS)	Dr. D. Nirmal Kumar
10.	Education (ES)	Mr. A. Darwin Jose Raju
11.	Electromagnetic Compatibility(EMCS)	Dr. P. Salil
12.	Industrial Applications (IAS)	Dr. S. Rajavel
13.	Information Theory (ITS)	Dr.B. Paramasivan
14.	Instrumentation and Measurement (IMS)	Dr. V. Jagadeesh Kumar
15.	Microwave Theory and Techniques (MTTS)	Dr. V. Abhaikumar
16.	Nano Technology Council (NTC)	Dr. R. Devanathan
17.	Power and Energy (PES)	Dr. R. Sarathi
18.	Power Electronics (PELS)	Dr.R.Seyezhai
19.	Product Safety Engineering (PSES)	Dr. R.Dhanasekaran
20.	Professional Communication (PCS)	Dr. E. Kannan
21.	Photonics (PS)	Mr.T.N. Subash
22.	Robotics and Automation (RAS)	Dr. T. Asokan
23.	SIPCICOM	Dr. Krishnan Nallaperumal
24.	Social Implications of Technology (SITS)	Mr. R. Navaneethakrishnan
25.	Signal Processing (SP)	Dr.S. Salivahanan
26.	Technology and Management Soceity (TEMS)	Mr. S. Sunderesh

Affinity Groups

Sl.No.	Affinity group Name	Chairperson
1.	WIE Affinity Group	Dr.V. Vydeki
2.	Young Professional	Dr. M. Venkatasen

✓ **Motivational Award**

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 maximum number of members are also honored during the AM. During the last year, appreciation certificates were given to top 3 best performing Student Branches and 25 society chapters of the section. These awards were distributed during the Annual Meetings, to motivate the student branches to perform better and it resulted in enhancement in the formation of student branches and also higher level of performance of the student branches.

✓
Below are the awards given to Student Branches to Motivate the Members:

✓
  ✓ R10 First Place MGM recruiter
✓   ✓ Student Branches conducting good number of activities.
  ✓ The Student Branch having maximum number of members, award given to top three colleges

➢ **Award received from HQ**

  ✓ IEEE Madras PSES & CIS got the IEEE best chapter awards for year
  ✓ Chapter of the Year Award and for Leadership in the IEEE PESE Madras

✓ **IEEE Section Newsletter**

MAS LINK, the newsletter of Madras Section is being published monthly as a eNewsletter is circulated to all the members of the section including student members. 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 Units.

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.

❖ Major Events (International, National)

✓ **Student Reach-out Program (SRP):** Fundamentals Aspects of Power Electronics, Power system, Power Quality and High Voltage Engineering

IEEE Madras Section comes out with a proposal of organizing named Student Reach-out Program (SRP) by eminent professors at different regions of Tamilnadu to teach the fundamentals. IEEE understands many professors are in need of professional service to reach out the students and to initiate faculties to provide lectures in the different geographical regions of Tamilnadu & Pondicherry. As you all aware that IEEE stands ahead and would like to collaborate with education institution. There are around 500(approximately) engineering colleges, in which the curriculum based regular classes are being organized, it is also essential to enrich the student's knowledge/conceptual understanding by interaction with eminent professors. Two days program is planned at Chennai and based on the feedback from the students next SRP will be organized at different regions of Tamilnadu.

Sl.No.	Date	Place	Topic	Speaker
1.	8-9 Sep 2018	IIT, Madras, Chennai	Fundamentals Aspects of Power Electronics, Power system, Power Quality and High Voltage Engineering	Prof. R. Sarathi, Prof. Mahesh Kumar, Prof. Lakshmi Narasamma

❖ Major Chapter Activities

✓ **Chapter Activities**

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

23.	SIPCICOM	
24.	Social Implications of Technology (SITS)	9
25.	Signal Processing (SP)	9
26.	Technology and Management Society(TEMS)	6

❖ **Major Student and Affinity Group Activities**

✓ **Student Activity:**

- Student Branch officer's meet
- Technical Lectures different region of section: In order to have more student centric participation, from technical lectures were conducted in different cities by the section, technical and student activities committee.
- Student Reach-out Program (SRP)
- Student Skill development

✓ **Affinity Group Activities:**

Sl.No	Affinity Group Name	No. Of Activities
1.	Young Professionals	8
2.	Women In Engineering	4

✓ **Awards : please see page 3**

A.2 Financial Report –

➢ **Summary (as per submitted L50)**
   (will be submitted by 15th Feb 2019 by online through netsuit to HQ)

➢ **Any other financial activities**

- ✓ Project funding for the students
- ✓ Faculty Development
- ✓ Technical Lectures
- ✓ IEEE Mini POCO
- ✓ Section gave the cash award for 7 students who has won for SS12 Project Competition and Maker Fair held at Sri Lanka.
- ✓ Travel Grant given to 3 delegates for presenting the paper in the International   Conference.
- ✓ Travel Support given for Execom Member for attending the INDICON 2018 & F2F
- ✓ Sponsorship Rs. 30,000 given to AISYWC, Bangalore.
- ✓ Travel support given for 4 participants to attend the R10 SYWL, Indonesia
- ✓ Registration and Travel support given for 3 delegate for attending the Women in Technology Summit, Mangalore.
- ✓ 13 National /International Conferences organized by the student Branches in different Engineering Colleges and Chapters of the IEEE Societies were co-sponsored by the Madras Section.

PART B - ORGANIZATIONAL ACTIVITIES

B.1 Membership Development Activities

➢ **Total number of active members in the past 3 years.**
   The details of Membership as on 31st Dec 2016, 2017 and 2018 are given below:

	31st Dec 2016	31st Dec 2017	31st Dec 2018
➢ Life Fellow	0	0	0
➢ Fellow	4	4	5
➢ Life Senior	12	15	15
➢ Senior Members	196	218	271
➢ Life Members	7	8	7
➢ Members	2246	2099	2092
➢ Affiliate Members	21	21	18
➢ Associate Members	55	68	70
➢ Graduate Student Members	818	683	647
➢ Student Members	5188	5654	5056
Total Membership	**8537**	**8770**	**8181**

➢ 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 / CHAPTERS STARTED DURING 2018

Sl. No.	Name of the Student Branch	Student Branch / Student Chapter	Date of approval
1	Dr Sivanthi Aditanar College Of Engineering	Photonics Society	17/3/2018
2.	St. Joseph's Institute of Technology	Antennas and Propagation Society	1/06/2018
3.	S A Engineering College Robotics and Automation Society Student Branch Chapter	Robotics and Automation Society	19/7/2018
4.	SRM Inst of Science & Tech - Kattankulathur	Power Electronics and Industry Applications	5/11/2018
5.	Prathyusha Inst of Tech & Mgmt College	Signal Processing Society	6/11/2018
6.	St. Joseph's Institute of Technology	Power & Energy Society	5/11/2018
7.	Vellore Institute of Technology - Chennai	Women in Engineering Student Branch Affinity Group	12/11/2018

B.2 Chapter Activities

➢ Total number of Chapters in the Section :26
➢ Number of Chapters formed in the current year : 1
➢ Number of active Chapters :

➢ **Summary of Chapter activities (Chapter wise with attachment table/information)**

Antennas and Propagation (APS)

Sl.No.	Date	Topic	Speaker Name

1	17.2.2018	Introduction to Research	Prof. Arun K Tangirala,
2	17.2.2018	Reflections on professional development for faculty and researchers	Dr. Krishnasamy T. Selvan,
3	17.2.2018	The art of writing technical papers	Dr. P. Hanumantha Rao,
4	27.4.2018	Fundamentals of antenna measurements	Dr. K.T. Selvan, SSNCE,
5	27.4.2018	Textile Antennas	Dr. Esther Florence, SSNCE,
6	27.4.2018	Advanced Antenna design for 5G Applications	Dr. P. Hanumantha Rao,
7	17.8.2018	5G Antenna technology for User devices by	Dr. Jayaprakash, Antenna
8	17.8.2018	Automotive Antennas	Dr. Gulam Nabi Alsath,
9	27.9.2018	Michael Faraday's Science, Life, and Legacy	Prof. R. David Koilpillai,
10	27.9.2018	Radio Astronomy: Techniques and Challenges	Prof. Avinash Deshpande,
11	27.9.2018	Bioelectromagnetics: Concepts and Applications	Prof. S. P. Singh,
12	28.9.2018	Reflections on Professional Development	by Dr. Uday Khankoje, & Prof. K.T. Selvan
13	28.9.2018	Electromagnetic Challenges in 5G	Dr. Uday Khankoje
14	28.9.2018	An Efficient Application of Electromagnetic Theory for Agriculture Monitoring	Prof. Dharmendra Singh
15	2.11.2018	Terminal antenna design for future wireless	Buon Kiong
16	2.11.2018	The IEEE AP Society: Up close and personal	Buon Kiong

Aerospace and Electronic Systems (AES)

Sl.No.	Date	Topic	Speaker Name
1	15.02.2018 & 16.02.2018	International Conference on Computing Methodologies and Communication , held at Surya Engineering College, Erode	Dr.A. Nagappan & .Dr.R.Harikumar,
2	04.04.2018	National Conference on Convergent Communication Technologies, Telemedicine Networking and Renewable Resources "NC^{2}CT^{2}NR^2–2018 at V.M.K.V Engineering College, Salem	.Er.SR.Saravanan, & Dr.S.Sangeetha
3	02.08.2018	Awareness Programme on Entrepreneurship ,at V.M.K.V Engineering College, Salem	Er.T.Palaniyappan,
4	05.09.2018	Teachers Day Celebration-Dr.Radhakrishnan Birthday Celebration at V.M.K.V Engineering College, Salem	Dr.A. Nagappan & Dr.T.Muthumanickam
5	17.09.2018	One day seminar on "Recent Trends in Embedded Systems related to Health Care" at V.M.K.V Engineering College, Salem	Mr.V.Thiyagu,
6	20.09.2018 & 21.09.2018	International conference on "Intelligent Computing and Sustainable System (ICICSS 2018)" held at Akshaya College of Engineering and Technology, Coimbatore.	Dr.A. Nagappan,
7	19.09.2018	One Day Seminar, Project Development & Panel Discussion on Digitization and Integration of any simple to complex Technical-Commercial Relation at V.M.K.V Engineering College, Salem	Er.SR.Saravanan,
8	04.10.2018	Emerging Trends in Medical Devices at V.M.K.V Engineering College, Salem	Er.M.Karthick,
9	15.10.2018 & 16.10.2018	Third IEEE International Conference on Inventive Computation Technologies (ICICT 2018)" at RVS Technical Campus, Coimbatore.	.Dr. A. Nagappan & .Dr. Abul Bashar

Broadcast Society (BCS)

Sl.No.	Date	Topic	Speaker Name
1	23.06.2018	Effective Project Implementation with MATLAB & SIMULINK	Mr. Arunkumar R,
2	16.10.2018	TechForum of the Week	Mr. Arunkumar R

		Session-1	
3	02.11.2018	TechForum of the Week Session-2	Mr. Arunkumar R
4	28.11.2018	Technical meeting on topic "Insight of Data Driven Technology"	by Mr. Manikandan Sundaram,
5	27.10.2018	Next - A Bootcamp for Passionate Entrepreneurs	Mr. Ebin Ephrem Elavathingal,

Computer Society (CS)

Sl.No.	Date	Topic	Speaker Name
1	24.01.2018	Digital Transformation in a Telecom Company for Enhancing Employee Experience	Mr. S. Sudeesh
2	16.02.2018	Smart Mobility as Key Enabler for the Smart City	Mr. Satya Narayanan
3	12.03.2018	Artificial Intelligence: Trends, Employability, Skill Development and Entrepreneurship	Mr. Kris Kumar
4	16.03.2018	IEEE CS ICT Quiz at VIT, Vellore	Mr. H. R. Mohan
5	17.03.2018	IEEE CS ICT Quiz at CSI ED, Chennai	Mr. H. R. Mohan
6	07.04.2018	A to Z of 3D Printing	Mr. Y. Kathiresan
7	09.04.2018	Challenges in Digital Circuits and Design	Dr. M. Anandakrishnan
8	29.06.2018	Technology Innovation	Mr. Haja Mohideen
9	02.08.2018	IEEE CS Awareness Programme at MAM College of Engineering and Technology, Trichy	Mr. H. R. Mohan and Dr. P. Sakthivel
10	30.08.2018	IEEE CS Awareness Programme at Saranathan College of Engineering, Trichy	Mr. H. R. Mohan
11	28.09.2018	Blooming Trends in Technical Challenges and Opportunities at National College, trichy	Mr. H. R. Mohan
12	10.12.2018	Digital Marketing and Website Design using WordPress	Mr. Barath Surendran
13	13.12.2018	Organizing and Funding IEEE CS Activities	Ms. Melissa Russell, Mr. Eric Berkowitz and Mr. Yathi Tarikere

Computational Intelligence Society

Sl.No.	Date	Topic	Speaker Name
1.	17.01.2018	M.S. – Mastering Science or Mastering the Self?	Mr. C. Arun Agoram
2.	20.02.2018	Neural networks: what did we learn from the theory and where are we going?	Prof. Cesare Alippi
3.	03.04.2018	Workshop on Soft Computing in Engineering	Dr. N. Kumarappan, Dr. V. Padmathilagam, Mr. R. Arulraj
4.	24.09.2018	Hands on training session in Aurdino environment	Mr. R. Mohamed In Amul Hassan
5.	20.12.2018 & 21.12.2018	Evolutionary Algorithms for Engineering Optimization Problems	Multiple

Communications Society

Sl.No.	Date	Topic	Speaker Name
1	17.02.2018	Recent Trends and Challenges in Communication and Networking Using Cisco Packet Tracer	Dr V Jayaprakasan,
2	20.08.2018	Role of Routers and Switches in Data Communication & Networking and Importance of E-waste Management	Dr V Jayaprakasan,
3	14.09.2018	Operations of Routers and Switches in Communication and Networking & Challenges and Importance of E-waste Management	Dr V Jayaprakasan
4	5.10.2018	Hands-on Tutorials / Workshop on IoT	Multiple Speakers
5	15 -16 .10.2018	Workshop on RF and Microwave Circuits	Mr Jeyanand,
6	25.10.2018	One Day Seminar on 5G Massive MIMO for Healthcare Industries	Er. V. Vivek
7	Dec 20 2018	One day Workshop on Newgeneration Communication Technologies	Dr. Albert Alexander & Mr.Ramesh Krishnan Narayanan,

Control Systems (CSS)

Sl.No.	Date	Topic	Speaker Name
1	1-3.02.2018	"Basics Robotics workshop"	Dr.N.S.Buvaneshwari & Dr.Sharmila
2	10.10.2018	Guest lecture on "Control System and Signals'	Mrs.Mariammal –
3	24.09.2018	Technical lecture on "An introduction and New Trends Research Scope in Control Systems"	Dr.Giovanni Palmieri,

Education Society(ES)

Sl.No.	Date	Topic	Speaker Name
1	28-11-2018	Online Competitions- IEEE Day 2018	Volunteers Conducted Competitions Online
2	12-10-2018	Workshop On Arduino	Mr. R. Abishake
3	15-09-2018	Engineer's Day	Er. P. R. Vishnu & Er. B. Sharath,
4	08-09-2018 & 09-09-2018	IEEE SS12 International Project Competition And Maker Fair 2018	Multiple
5.	10-08-2018	IEEE SS12 Junior Einstein Track Prelims: Topic: Creativity And Innovation	Sivappriya.S.N

Engineering in Medicine and Biology

Sl.No.	Date	Topic	Speaker Name
1.	22.01.2018 & 23.01.2018	Technical Quiz on "Advance Electronics"	-

2.	01.02.2018	Distinguished Lecture on "How To Become A Medical Innovator- Needs Development, Empathy, And Tips & Tricks Involving Reverse Innovation And Exponential Technologies"	Dr.Michael Friebe
3.	20.02.2018	Arduino III Contest	-
4.	03.03.2018	Soft Skills Training For Placement	K. Muthukumaran
5.	21.06.2018	Awareness Program on Breast Cancer	Dr. Murugesan, Jansons & Dr. Shahul Hameed,
6.	09.07.2018	One Day Technical Seminar on "Trends in Biomedical Engineering"	Dr Raghavan & Dr Udayakumar
7.	27.09.2018	Inauguration of IEEE-Engineering in Medicine and Biology Society	Dr.B.Banu Rekha, Dr.B.Balasubramanian,
8.	03.12.2018	IEEE EMBS Distinguished Lecture's Talk on "Computational Modeling and Digital Dysmorphology for Diverse Populations with Genetic Syndromes"	Dr. Marius George

Nano Technology

Sl.No.	Date	Topic	Speaker Name
1	18.9.2018	Molecular Communication and the Future Perspectives on the Internet of Bio-Nano Things	Dr. Sasitharan Balasubramaniam
2	23.11.2018	Wireless Optogenetic Nano networks for Brain Stimulation	Dr. Sasitharan Balasubramaniam

Product Safety Engineering Society

Sl.No.	Date	Topic	Speaker Name
1.	12.01.2018	Growing Trends in Medical Electronics and Safety Aspects at SNS College of Technology	Shri.N.Nandakumar,
2.	23.01.2018	Recent Innovations in Medical Physics and Career Opportunities at Arignar Anna Government College, Namakkal	Shri.N.Nandakumar,
3.	07/02/2018 to 08/02/2018	Two Days workshop On "Brain Machine Interface" at Aarupadai Veedu Institute of Technology, VInayaka Mission's Research Foundation	Dr Vijay K Varadan,
4.	16/02/2018	One-day Workshop on "Importance of Switching and Routing in Computer Networks Using Cisco Packet Tracer at Shanmuganathan Engineering College	Dr.V.Jayaprakasan Dr.R.Dhanasekaran
5.	17/02/2018	One-day hands-on workshop On Recent Trends and Challenges in Communication and Networking Using Cisco Packet Tracer at SAEC	Dr.V.Jayaprakasan Dr.R.Dhanasekaran
6.	27/02/2018	National level Project Design Contest – PDCON-2018 & Key Note Talk on "E-Waste Management and Pollution Control at Mahendra Engineering College	Dr.S.Vijayakumar,
7.	10/03/2018	Scope of Electronics & Communication Engineering at GTEC	Dr. A. Manimegalai,
8.	04/08/2018	One day National Level Workshop on How to Write Good Scientific Proposals at SAEC	Dr. V. Bhujanga Rao, & Dr.R.Dhanasekaran
9.	18/08/2018	Challenges & Importance of E-waste Management at Vivekanandha College of Engineering for Women Trichengode, Namakkal, Tamilnadu	Dr.V.Jayaprakasan

10.	20/08/2018	One Day hands-on workshop on "Role of Routers and Switches in Data Communication & Networking and Importance of E-waste Management at sasurie Engineering College	Dr.V.Jayaprakasan
11.	14/09/2018	One-day Workshop on "Operations of Routers and Switches in Communication and Networking & Challenges and Importance of E-waste Management at sudarson Engineering College	Dr.V.Jayaprakasan Dr.R.Dhanasekaran
12.	21/09/2018	IEEE Product Safety Engineering Society, VIT Student Chapter was inaugurated	Prof.VincenzoPiuri
13.	24/09/2018	Workshop on Internet of Things using Arduino at GTEC	Mr. S. Raj Kumar, Mr. K. R. Elavarasan
14.	24/12/2018	Importance of Codes and Standards & Standards and Concepts involved in Data Communications and Networking - SAEC	Dr.V.Jayaprakasan

Photonics Society

Sl.No.	Date	Topic	Speaker Name
1.	5.03.2018	DA Win Competition @ Kumaraguru College of Engineering, Coimbatore	Project Expo
2.	9. 03.2018	IEEE Photonics Society Student Chapter Inaugural function @ Panimalar Institute of Technology, Chennai, Tamilnadu, India.	Dr. T.D.Subash,
3.	12 - 13 .04. 2018	"IEEE International Conference on Photonics & High Speed Optical Networks" (**ICPHON - 2K18**) @ S.A Engineering College, Chennai, Tamilnadu, India.	Dr. T.D.Subash Dr.Manoharan
4.	10.08. 2018	"Importance of Engineering Education" @ M.E.T Engineering College, Nagercoil, Tamilnadu, India.	Dr. T.D.Subash,
5.	26 . 08.2018	"Professional Development using IEEE" @ St. Xaviers College of Engineering, Nagercoil, Tamilnadu, India.	Dr. T.D.Subash
6.	27.08.2018	IEEE Photonics Society Student Chapter Inaugural function & Guest Lecture on "Importance of Photonics on Industrial Application" @ Prathyusha Engineering College, Chennai, Tamilnadu, India.	Dr. T.D.Subash,
7.	29 – 31. 08.2018	Mini Colloquium on Advancements in Photonics and Optical Networks @ S.A Engineering College, Chennai, Tamilnadu, India.	Dr.Srinivas, , Dr. T.D.Subash, Dr.Manoharan,
8.	12.10. 2018	"Importance of IEEE and its benefits" @ Stella Mary's College of Engineering, Nagercoil, Tamilnadu, India.	Dr. T.D.Subash,
9.	15.10. 2018	IEEEDAY 2018 Online Competitions	Dr.Darwin Jose Raju

Power Electronics Society (PELS)

Sl.No.	Date	Topic	Speaker Name
1	7-9..02. 2018	4th International Conference on Electrical Energy Systems (ICEES 2018) SSN College of Engineering, Kalavakkam.	.Prof. Dr. Saad Mekhilef, .Prof. Diego Bellan, . Dr. K. Sudhakar,
2	3.10.2018	Hands on Training on "Gate Pulse Generation for Power Electronic Converters" SSN College of Engineering	Dr.R.Seyezhai & D.Umarani

Signal Processing Society (SPS)

Sl.No.	Date	Topic	Speaker Name
1	20. 03 2018	Guest Lecture On "Introduction To Computer Vision"	**Mr. Mohanraj V**
2	6.04. 2018	Technical Talk On, "An Introduction To Matlab And Simulink"	**Dr. Riddhi Ghosh,**
3	25. 07. 2018	Orientation Program For IEEE SPS Students	Prof. Rani Alex,
4	16.08.2018	Online Quiz On Python	
5	3103. 2018	Sps Ignite	VIT University students Chapter
6	16 -18 . 08 2018	Workshop On Conventional Machine Learning To Deep Learning For Speech, Image, And Text Processing	Dr.P.Vijayalakshmi, Dr. M. Anbuselvi
7	4.12. 2018	Lecture On Computational Imaging With Few Photons, Electrons, Or Ions	Prof. Vivek K. Goyal,
8	6.07 2018	Distinguished Lecture Program On ,"Cyber Attacks On Internet Of Things Sensor Systems For Inference"	Rick S. Blum
9	4.12. 2018	Distinguished Lecture Program On ,"Computational Imaging With Few Photons, Electrons, Or Ions"	Prof. Vivek K. Goyal,

Social Implications of Technology (SITS)

S.No	Date	Topic	Speaker Name
1	07.08.2018	Are gadgets supporting or replacing parents?	Mr.Divyanshu Verma,
2	19.07.2018	Role of IEEE SSIT and its functions	Greg Adamson
3	28.07.2018	Reviving SSIT local Chapter	Dr.Kalyan Sen,
4	01.09.2018	Reviving SSIT local Chapter - repeat session	Dr.Kalyan Sen,
5	31.07.2018	IEEE Membership drive	Dr.Ramalatha marimuthu, Mr.Navaneethakrishnan,
6	10.08.2018	IEEE SS12 Junior Einstien track prelims	Dr.Ramalatha marimuthu, , Mr.Navaneethakrishnan, , Dr.Alagumeenakshi,
7	11.08.2018	IEEE SSIT Sponsored One day National workshop on Embedded System design using PSoC - 4	Dr.P.A.Manoharan, Mr.Navaneethakrishnan,
8	15.09.2018	Innovators day 2018 - National level project contest	Navaneethakrishnan R,
9	06.09.2018	Research Talk on "Abstraction for getting Knowledge-Social Situation Considering Topic Diversity" and Cross Border Interactions on "How Culture Impacts Parenting and Value Education"	Dr. Takako Hashimoto,

Technology and Management Society

Sl.No.	Date	Topic	Speaker Name
1	24.01.2018	Technical talk on " Digital transformation in a Telecom Company for estimating employees; experience	Mr.Sudeesh
2	16.02.2018	Talk on "Smart mobility as key enabler for the Smart City"	Mr.Satyanarayanan
3	12.03.2018	Talk on " " Artificial Intelligence Trends, Employability, Skill development and Entrepreneurship	Mr. Kris Kumar
4	02.05.2018	Talk on " Innovations in all steps of Product development" and Talk on "Membership benefits of TEMS Society"	Mr.Dilip Kotak,
5	09.05.2018	Rebooting Software & Change management	Mr.Venkatrangan Thirumalai
6	11.05.2018	Three Talks: 1. IoT in Industrty 4.0 2. IoT in construction 3. IoT in smart Cities	Mr.Lokesh Payik, Mr.Ananthasayana Mr.Madhuka sriivatsava,

B.3 Professional and Continuing Education Activities

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

Educational Activities: Dr. D. Devaraj

> **Faculty Development Program (FDP) – 3**

Sl.No.	Date	Topic	Venue	No. of participants
1.	16-17 Feb 2018	Practical Issues & Challenges In MM Wave Communication For 5G Applications	Jeppiaar Institute Of Technology, Chennai	31
2.	24-26 May 2018	Software Tools For Simulation And Analysis Of Power System	Kalasalingam Academy Of Research And Education, Krishnankoil	31
3.	25-27 July 2018	Microgrid And Grid Integration Issues Of Distributed Generation	Srm Institute Of Science And Technology, Kattankulathur, Chennai	55

> **Technical Activities**

Sl.No.	Date	Topic	No. of EC & Invitees Present
1.	8th Feb 2018	"MEMS and Smart Devices and Systems in Engineering and Medicine	Dr. Vijay K. Varadan
2.	14th July 2018	Building Solar/Electric Trikes for material handling applications	Mr.Visakh Sasikumar
3.	2nd May 2018	Innovation in Every Stage of Product Development	Mr. Dilip Kotak
4.	8-9 Sep 2018	Fundamentals Aspects of Power Electronics, Power system, Power Quality and High Voltage Engineering	Prof. R. Sarathi, Prof. Mahesh Kumar Prof. Lakshmi Narasimma
5.	28th Nov 2018	Insight of Data Driven Technology	Mr. Manikandan Sundaram
6.	29th Dec 2018	Industrial Drives	Er. Ponnuswamy

B.4 Students Activities

- Total number of Student Branches in the Section - 282
- Number of Student Branches formed in the current year – Nil

- Section level student activities (student congress, paper and other contests, awards etc)

Sl.No.	Date	Venue	Time	Topic	Resources Person	No. of participants
1.	20-21 Jan 2019	Room No. ESB 350, Dept. of Electrical Engineering, IIT Madras, Chennai 600 036.	20th Jan : 8.30am – 5.00pm 30th Sep: 9.00am – 5.00pm	Student reach-out Program Workshop - Fundamentals Aspects of Power Electronics, Power system, Power Quality and High Voltage Engineering	Prof. R. Sarathi, Prof. Mahesh Kumar and Prof.Lakshmi Narasamma	47

- Number of active Student Branches - 51
- Summary of Student Branch activities (Student Branch wise with attachment table/information)

Sl.No.	St. Br. Name	Topic	Amount in (Rs.)
1	St. Joseph's College of Engineering	Symposium - Kernel 2017	7500
2	Sri Krishna College of Engineering and Technology	International Conference on Recent Advances in Engineering and Technology (ICRAET - 2017)	2500
3.	S.A. Engineering College	One day Seminar on Multi-Body Design and State Flow Using MARLAB-Advancements	6450
4.	Sri Sairam engineering College	Workshop on emerging Trends and Future Perspective in image Processing and Computer Vision	5200
5.	Sriram Engineering College	One day National Level IEEE Workshop on New Gen Technologies	2500
6.	Prathusha Engineering College	4th International Conference on Advances Electrical, Electronics information, Communication and Bio - Informatics - AEEICB'18	2550
7.	SREC	10th National Conference on Emerging Trends in Instrimentation Systems for Green Energy, Waste Management and IoT	6450
8.	B.S. Abdur Rahman Crescent Institute of Science & Technology	International Conference on Recent Trends in electrical, control and Communication(RTECC-18)	12100
9.	Panimalar Engineering College	International conference for Phoenixes on Emerging Current Trends in Engineering And Management	7600
10.	Ganadipaty Tulsi's Jain Engineering college	Workshop on " Arduino Based System Design	2500
11.	St. Joseph's Institute of Technology	Three days National level Workshop on Internet of Things (IoT) for Real Time Applications - Case Study Approach	9850
12.	Dr. Sivanthi Aditanar College of Engineering	Two Days National Workshop on Research Avenues for Electronics and Communication Engineers	3750
13.	KLN College of Engineering	International Conference on Innovations	2500

Sl. No.		in Engineering and Industrial Applications (ICIEIA)	

> Travel Support given to 3 delegates (2 students and 1 Execom Members from Section)

Sl. No.	Delegate Name	Institution Name	Amount in (Rs.)
1.	Kavyashree Prakashan	St.Xavier's Catholic College of Engineering	10,000
2.	Dr. N. Kumarappan	Execom Member	10,000
3.	Shreyas Ramachandran S	Sri Sairam Engineering College	10,000

B.5 Affinity Group Activities

> **Young Professional (YP)**

Sl.No.	Date	Topic	Resources Person
1	22nd Sept 2018	Distinguished Lecture on " Artificial Intelligence for Industry and Environment"	Dr.Vincenzo Piuri,
2	8th and 9th Sept 2018	SS12	Many
3	10th and 11th Aug 2018	Workshop " Smart Renewable Energy technology and its challenges	Dr.M.Venkateshkumar Dr. Umashankar
4	4th Aug 2018	Techloop	Dr.M.Venkateshkumar
5	24.01.2018	Application of Neural Networks In Engineering field	Dr.M.Venkateshkumar
6	22.02.2018	IEEE"International Conference on Power, Energy, Control and Transmission systems	Dr.Chin
7	27.02.2018	IEEE Fourth International Conference on Advances in Electrical, Electronics, Information, Communication and Bio-Informatics (AEEICB)	Dr.D.Senthil Kumar, DRDO, Bangalore Dr.M.Venkateshkumar
8	08th Feb 2018	"MEMS and Smart Devices and Systems in Engineering and Medicine"	Dr.Vijay K Varathan

> **Women In Engineering (WIE)**

Sl.No.	Date	Topic	Resource Person
1.	10.03.18	International Women's Day Celebration	Dr.D.Vydeki & Yuvashakthi Organization Volunteers
2.	24.08.18	Industry Mentoring Program	Mr.Abilash Praveen
3.	07.09.18	SS12 Junior Einstein Track	Dr.Ramalatha Marimuthu & Mrs.Alagu Meenakshi

	4.	28.12.18	Python Programming	GirlScript

➢ **Life Member**

The Section has 7 life members

B.6 Awards & Recognition Activities

➢ **Award constituted by the section:**

To encourage the student branches & societies to conduct more activities, cash awards & certificates of appreciation are being distributed every year at the AGM. 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.

➢ **List of all Awards and Recognitions by the Section to SBs:**

S. No.	SB Code	SB Name	Cash Amount
1	STB15181	Panimalar Institute Of Technology	10000
2	STB60551	Sri Sivasubramaniya Nadar College Of Engineering	7500
3	STB 29741	Kongu Engineering College	5000
4	STB10084	K.Ramakrishnan College Of Engineering	3000
5	STB8101	Knowledge Institute Of Technology	3000
6	STB 04311	Prathyusha Engineering College	3000
7	STB16181	St. Joseph's Institute Of Technology	3000
8	STB33311	Vellore Institute Of Technology, Vellore	3000
9	STB 28841	B.S.Abdur Rahman Crescent Institute Of Science And Technology	2000
10	STB61401	Dr.Sivanthi Aditanar College Of Engineering	2000
11	STB64691	Jeppiaar Engineering College	2000
12	STB10731	Jeppiaar Institute Of Technology	2000
13	STB10084	K.Ramakrishnan College Of Technology	2000
14	STB34451	Kalasalingam Academy Of Research And Education	2000
15	STB18861	KPR Institute Of Engineering And Technology	2000
16	STB14231	Panimalar Engineering College	2000
17	STB61491	Sri Ramakrishna Engineering College	2000
18	STB-03961	Sri Eshwar College Of Engineering	2000
19	STB16011	SRM Institute Of Technology	2000
20	STB60101	St. Joseph's College Of Engineering	2000
21	STB62851	St. Xavier's Catholic College Of Engineering	2000
22	STB28141	Thiagarajar College Of Engineering	2000
23	STB09151	Akshaya College Of Engineering And Technology	1000
24	STB88501	Annamalai University	1000
25	STB14661	Dr.M.G.R. Educational & Research Institute	1000
26	STB 61631	Dr.Mahalingam College Of Engineering And Technology	1000
27	STB64181	Francis Xavier Engineering College	1000
28	STB64911	Ganadipathy Tulsi's Jain Engineering College	1000
29	STB64275	JCT College Of Engineering And Technology	1000
30	STB60891	K.S.Rangasamy College Of Technology	1000

31	STB 64291	Karpagam College Of Engineering	1000
32	STB60791	K.L.N. College Of Engineering	1000
33	STB65101	M.Kumarasamy College Of Engineering	1000
34	STB 29861	Mepco Schlenk Engineering College	1000
35	STB99061	National Institute Of Technology	1000
36	STB64274	PPG Institute Of Technology	1000
37	STB61471	Rajalakshmi Engineering College	1000
38	STB64283	Rvs Technical Campus	1000
39	STB-10171	Sastra Deemed University	1000
40	STB-36301	Sathyabama Institute Of Science And Technology	1000
41	STB-11081	Saveetha Engineering College	1000
42	STB-13211	Scad College Of Engineering And Technology	1000
43	STB64268	Scad Institute Of Technology	1000
44	STB61261	Sri Krishna College Of Engineering And Technology	1000
45	STB01081	SNS College Of Technology	1000
46	STB10070	Sri Ramakrishna Institute Of Technology	1000
47	STB60981	Sri Sairam Engineering College	1000
48	STB17131	St. Peter's College Of Engineering And Technology	1000
49	STB64273	Surya Engineering College	1000
50	STB64290	Vaigai College Of Engineering	1000
51	STB66651	Valliammai Engineering College	1000
52	STB60661	Velammal Engineering College,Chennai	1000
53	STB09591	VIT Chennai	1000
54	STB14241	P.A. College Of Engineering And Technology	1000
55	STB12951	PSG College Of Technology	1000
56	STB09271	Jansons Institute Of Technology	1000

> **List of all awards received by all the societies**:

S. No.	SB Name	Cash Award
1	Computer Society	10000
2	Antennas and Propagation Society	7500
3	Engineering in Medicine and Biology Society	5000
4	Aerospace and Electronics System Society	3000
5	Broadcast society	3000
6	Photonics Society	3000
7	Professional Communication Society	3000
8	COMMUNICATIONS SOCIETY	2000
9	Power Electronics Society	2000
10	Society on Social Implications	2000
11	signal Processing Society	2000

➤ **Awards given to Student Branches having Large Membership by the section**

Sl.No.	Student Branch Name	Total No. of members	Position
1.	Sri Sivasubramaniya Nadar College of Engineering	307	I
2.	St. Joseph's Institute of Technology	232	II
3.	Kongu Engineering College - ERODE	206	III

➤ **Awards given to Student Branches for winning the Student Project funding:**

Sl.N.	Name of the College	Project Title	Amount in (Rs.)
1	R.M.K Engineering College Chennai – 601206	Wearable Companion Device For Autistic Patients	15,000
2	S.A. Engineering College, Chennai – 600 077.	Development of Robo Hydro-Jetter Cum Cutter For Replacement Of Manual Scavenging	15,000
3	Sri Ramakrishna Engineering College Coimbatore- 641022.	IoT Based Smart Monitoring And Control of Temperature and Ph of Coolant Liquid In Power Plant Industries	10,000
4	St. Joseph Institute Of Technology Chennai – 600 119	Smart Kitchen With Inventory Managing And Monitoring Using IoT	10,000
5	Sri Venkateswara College of Engineering Chennai- 602 117	Adaptive Protection Control	10,000
6	Kongu Engineering College Erode - 638 060	A Self Induced Warning System For Wild Animal Trespassing Using Machine Vision	5,000
7	Rajalakshmi Institute of Technology Chennai-602107	Smart Accident Tracking And Assistive System	5,000
8	St. Xavier's Catholic College Of Engineering Nagercoil-629003	IoT Based Smart Water Management System For Daily Life	5,000

➤ **Awards received from R10:**

➤ **Award(s) received from IEEE HQ**

- 2017 Chapter of the Year Award and for Leadership in the IEEE PESE Madras.

- Certificate of Appreciation' received from IEEE, for 'Notable Services and Contributions towards advancement of IEEE and Engineering Professions' to Chair of IEEE AP-S Madras Chapter during 2016 and 2017.

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: 12 issues

- Web Link for Newsletter: https://www.ieeemadras.org/news-letter-2/

➢ Home Page of the Section (give the URL and how often it is updated)

- URL: https://ieeemadras.org

➢ Other means of contacts with Section members including social media: - 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.

B. 8 Industry Relations

➢ **Membership growth and retention**:

B. 9 Humanitarian Technology Activities

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

- The interactive session on " Relavance of IEEE Special Interested Group on Humanitarian Technology for the Underserved" by Shri. Paul Cunningham, Chair-IEEE Humanitarian Activities Committee held on 2nd December 2018 at DMI Engineering College, Aralvaimozhi, Nagercoil.

➢ **SIGHT Activities**

- IEEE ADSF SIGHT-Madras Section jointly with IEEE Student Branch of AVCE is organizing a seminar on "Applications of Magnetic Design" on 03-10-2018. Mr.Daniel Lottis, Chairman, IEEE SIGHT delivered the talk on the subject at Department of ECE, Annai Vailankanni College of Engineering, Kanyakumari.

- IEEE ADSF SIGHT sea visit with Volunteers to bring in the upgraded Technology to the harbour held on 2nd October, 2018 at Kasimedu Fishing Harbour.

B. 10 Community Activities

➢ **IEEE Social activities (Family day, IEEE day, Engineers Week)"**

- IEEE day (Pls see pg no.2)

- Awareness Program on Cyber Crime and Harmful Gaming held on 5-6 July 2018. at Corpus   Christi School, Nagercoil, Kanyakumari District.

- Interactive session on ADSF SIGHT Activities at DMI Engineering College, Aralvaimozhi, Nagercoil.

PART C   - OTHERS

C.1 Special Events

➢ **Please briefly describe the importance of special events and the outcomes achieved :**

For details - Please see pg. 4

Sl.No.	Date	Place	Topic	Speaker
1.	8-9 Sep 2018	IIT, Madras, Chennai	Fundamentals Aspects of Power Electronics, Power system, Power Quality and High Voltage	Prof. R. Sarathi, Prof. Mahesh Kumar, Prof. Lakshmi Narasamma

			Engineering	

Outcomes

a) A networking opportunity to identify and contact others was given.

b) A basement for future directions for the forum was constructed.

c) Known about the funding for organizing activities.

d) Updated about the funds available for student chapters.

➢ **Funding secured from the IEEE and external sources including sponsorships**

- Funding secured from the IEEE - $2000/-
- 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 IETE centre, Chennai and was co-sponsored by IEEE Madras Section.

• IEEE Madras Section also co-sponsored the programs organized by Institution of Engineers (India), Chennai Centre.

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

• Details of joint activities

• Benefit to IEEE members (for example discounts, access to technical information etc.)

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

C.3. Collaboration with other IEEE Sections : Nil

• Support extended to neighboring Sections
• Joint activities with any other Section

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

• Support extended for organizing technical, educational and professional activities
• 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 (which you would like to share with other Sections for the benefits of members)

1. Regular Faculty Development programs in different locations in the state to benefit good number of faculty members.

2. Travel grant for members whose papers are accepted in International Conferences

3. Funding for the student projects submitted by the student branches of the section to motivate student membership and also to improve the quality of the student Projects at undergraduate level.

4. Technical Support and sponsorship by the section to the student branches for various technical programs – Conferences, Workshops, Seminars, Symposia etc., for the improvement of Quality Technical Program increasing the technical activity in the student branches.

5. Community out reach program to mold better youth of the country.

6. Technical Lecture series organized by the technical Society chapters .

7. Communication and personality development programs organized by the section.

8. Recognition & Awards during Annual Meet to dynamic student chapter technical societies, good performance in Xtrem contest encouraging the awards & R10 and IEEE Head Quarters'

9. Entrepreneurship programs were also conducted

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

- Retention of Student members
- 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 of the student projects to continue every year in order to constantly improve the quality of the projects.

2. A project exhibition contest to identify creative and innovative proposals and implementation of strategy for further improvement.

3. To plan more Faculty Development Programs in different parts in order to increase the number of beneficiaries. This will improve the quality of teachers and improve the teaching learning process as a whole.

4. More Skills Development Programs and Teacher-in- service programs based on popular demand from members.

5. More conference technical co-sponsorships to create critical mass of competencies in organizing world class conferences

6. More HUB congress to be conducted at different districts for the benefits of students.

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 and Recognition of outstanding student branch and outstanding student volunteer and Branch counselor.

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 in school level.

5. To organize workshop of hands on training on advanced health care for better quality of life.

6. To increase the chapter membership and senior membership Programs

7. To coordinate with student branches for good industry connect.

8. Organize industrial visit for IEEE student members.

9. Organizing Lectures on emerging technologies.

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

• Planning to circulate IEEE months newsletter to all the educational Institution who are not part of IEEE even if no IEEE Student Branch in order to enhance the member base both Student Member and Student Graduate Member and Professional Member.

• Recognition of outstanding   student branch and outstanding student volunteer and Branch counselor.

• To conduct the Membership elevation programs.