

# IEEE Hyderabad Section Report - 2021

## Preamble:

The IEEE Hyderabad Section (IEEE HS) is one of the most active sections of IEEE in India. IEEE was formally introduced in Hyderabad, in June 1981, when a group of engineers in Hyderabad decided to form an IEEE sub-section here. This sub-section was rapidly elevated to a full section, in 1984. There are 12 Society Chapter/Joint Chapters representing 19 societies, 2 Councils, 3 Affinity Groups, 2 Sub Sections and 14 Coopted/Standing Committees. Three new society Chapters – Robotics and Automation, Reliability Society, Industrial Electronics Society included this year. Two new councils of Nanotechnology and Sensors Council were formed. Vizag Bay was earlier a sub section and has now been elevated to a full section. The current membership as on 30 October 2021 is 5176 which is an increase of 1110 members at the beginning of year which was 4066 member as on 25 January 2021. IEEE HS has received the outstanding large section award three times in the past and is consistently working to meet all the requirements of MGA and R10 so that it is vibrancy makes it eligible for this award, again.

## **PART A - SECTION SUMMARY**

### A.1 Executive Summary

#### A1.1 Section Executive Committee Member List

<b>Section Executive Committee</b>				
<b>Designation</b>	<b>Name</b>	<b>Organisation</b>	<b>E-mail</b>	<b>Membership No</b>
Chair	Sreenivas Jasti	TCS, Hyderabad	<a href="mailto:sreenivas.jasti@ieee.org">sreenivas.jasti@ieee.org</a>	M 41250549
ViceChair	R Balasubramaniam	IIT Delhi(Retd.)	<a href="mailto:balu@ieee.org">balu@ieee.org</a>	LSM 7600737
Secretary	Arifuddin Sohel	MJCET, Hyderabad	<a href="mailto:arif.sohel@ieee.org">arif.sohel@ieee.org</a>	SM 90871309
Treasurer	Bala Prasad Peddigari	TCS, Hyderabad	<a href="mailto:bala.peddigari@ieee.org">bala.peddigari@ieee.org</a>	SM 90578910
Member	D V S S Siva Sarma	NIT Warangal	<a href="mailto:sivasarma@gmail.com">sivasarma@gmail.com</a>	SM 41597317
Member	Nookala Srinivasa Rao	Mathrusri Engg College	<a href="mailto:srinivasa.nookala@gmail.com">srinivasa.nookala@gmail.com</a>	SM 85017068
Member	Rajagopalan Kannan	BHEL R&D (Retd.)	<a href="mailto:bhelkannan@gmail.com">bhelkannan@gmail.com</a>	SM 40159914
Additional Secretary (non-voting)	Vinit Gunjan	CMRIT	<a href="mailto:vinitkumargunjan@gmail.com">vinitkumargunjan@gmail.com</a>	SM 92020956
Additional Treasurer (non-voting)	Jose Reddypogu	TCS	<a href="mailto:jose.reddypogu@tcs.com">jose.reddypogu@tcs.com</a>	M 91129303
Immediate Past Chair	Amit Kumar	BioAxis DNA Res Centre (P) Ltd	<a href="mailto:amitkr@ieee.org">amitkr@ieee.org</a>	SM 90732008
<b>Society Chapters, Affinity Groups and Sub Sections</b>				
Chair(Computer Society)	MA Jabbar	Vardhaman College of Engg	<a href="mailto:jabbar.meerja@gmail.com">jabbar.meerja@gmail.com</a>	SM 91119906

Chair(Communication Society)	Abhinav Kumar	IIT Hyderabad	Abhinav.kumar.sharma@gmail.com	SM 80358261
Chair(CIS/GRSS Society)	Mousmi Ajay Chaurasia	MJ CET	mousmi.ksu@ieee.org	M 91191414
Chair (CAS/ ED Society)	P. Chandrasekhar	Prof. ECE, OUCE	sekharpaidimarry@gmail.com	M 93163567
Chair(Education Society)	Y Vijayalata	Professor, CSE Department, GRIET	vijaya@ieee.org	SM 91091196
Chair(MTT/AP/EMC Socety)	Sandeep Kumar Chaturvedi	GAETEC, DRDO	sandeep@gattec.org	SM80693373
Chair(PES/PELS/IAS) Society	C Harinatha Reddy	GPREC	c.h.r@ieee.org	SM 92368254
Chair(Photonics Society)	Kasyapa Balemarthy	OFS Optics	kbalemarthy@ofsoptics.com	M 90286547
Chair(TEMS Society)	Surendra Tipparaju	Microsoft	tipparaju@hotmail.com	M 95812126
Interim Chair( Robotics and Automation Society)	Mohammed Arifuddin Sohel	MJCET, Hyderabad	<a href="mailto:arif.sohel@ieee.org">arif.sohel@ieee.org</a>	SM 90871309
Chair(Signal Processing Society)	Lalitha Vadlamani	IIIT Hyderabad	lalitha.v@iiit.ac.in	
Chair( Reliability Society)	Somnath Pal	IRSET( Retd.)	snpal@rediffmail.com	
Chair(Industrial Electronics Society)	Madhav Negi	DXC Technologies	mjnegi@ieee.org	
Sensors Council Chair	Amit Kumar	BioAxis DNA Res Centre (P) Ltd	amitkr@ieee.org	SM 90732008
Nanotechnology Council Chair	Santhosh Siva Subramani	IIT Hyderabad	ragansanthosh@ieee.org	
Chair(WIE AG)	Y. Padma Sai	VNRVJIT	ypadmasai@gmail.com	SM 92531133
Chair(YP AG)	Vamsi Krishna J	TIE Hyderabad	vamshikrishnaj@ieee.org	M 92210741
Chair(LMAG)	Prof K M M Rao	NRSC(Retd.)	<a href="mailto:kundammrao@gmail.com">kundammrao@gmail.com</a> ,	LM 04388351
Chair(Guntur Subsection)	Lalitha S V N L	K L University	<a href="mailto:svnlalitha@gmail.com">svnlalitha@gmail.com</a>	M 90306032
Chair(Ananthapuramu Sub Section)	Y.V.Siva Reddy	GPREC, Kurnool	<a href="mailto:siva7005@rediffmail.com">siva7005@rediffmail.com</a>	SM 91204289

### Co-opted Standing Committees

Industrial Relations Committee - Chair	P.V. Rajagopal	BHEL R&D (Retd.)	rajgopal3e@gma	
Student Activities Committee Chair	T Vidyasagar	TCS	sagarvt@ieee.org	
Membership Development Chair	Saurabh Jain	Broadcomm	saurabh.jain.1988@ieee.org	
Educational Activities / Skill Connect/ SDLP Chair	K Anita Sheela	JNTUH	kanithasheela@gmail.com	
Entrepreneurship and	N. Venkatesh	Silicon	nvenkatesh@ieee.org	

Startup Development Chair		Systems		
Awards and recognition Chair	G. Sreelakshmi	CVR	s_sreelakshmi@yahoo.com	
Conferences Chair	Atul Negi	UoH	atul.negi@ieee.org	
ECIM Chair	Narendra Ramya	amazon	narendramya@ieee.org	
SIGHT Chair	Suresh Merugu	CMRIT	msuresh@ieee.org	
Mentorship Program Chair	A. Kavitha	JNTUH	athotakavitha@ieee.org	
Quantum SIG Chair	Reena Dayal	Microsoft	reenadayal@ieee.org	
CoE for Industrial IoT Chair	Gopalakrishna Kuppa	ABB(Retd)	gopalakrishna.kuppa.2005@ieee.org	
Newsletter Editor-in-chief	G.Sreelakshmi	CVR	s_sreelakshmi@yahoo.com	
Chapters/Sub Section Coordinator	DVSS Sivarsarma	NIT Warangal	sivasarma@ieee.org	SM 41597317
Section Student Representative	M Sai Prashanth	Vardhman College of Engineering	saiprashanth08@ieee.org	

### A.1.2 Section Highlights

- The IEEE Hyderabad Section has **over 7121 members, it is represented by 13 Chapter and 19 Technical Societies, 2 Subsections 3 Affinity Groups and 2 Councils, 125 plus Student Branches, 100 plus Student Branch Chapters.**
- The key highlight for 2021 is that the section membership has increased from 4066 in January 2020 to 7121 in January 2021. This is the first time the section membership has crossed the seven thousand mark. Another important point to be noted it that the section has reached 6126 members in 2018, but at that time there were about 1500 members from Vizag Bay sub section which is now elevated to a full section in January 2020.
- Section Volunteers were instrumental in collectively **organizing 1576 Technical, Professional, Non-technical, Humanitarian and Administrative Events. These events covered over 120,107 attendees in 2021.** This demonstrates IEEE Hyderabad Section Leadership commitment to make it one of the most vibrant sections in this Region. The below table gives comprehensive view towards scale of the events

**Table 1: Section Activities Spread**

Sl. No	Organizational Unit	Administrative	Humanitarian	Non Technical	Professional	Technical	Grand Total	Attendees
1	Hyderabad Section	27	3	7	37	39	114	11048
2	Guntur Subsection	2	-	5	5	10	20	2847
3	Ananthapuramu Subsection	2	3	-	4	4	14	2462
4	Computer Society	12	-	3	19	13	47	6003
5	CIS GRSS Joint Chapter	2	-	4	-	32	38	4340
6	MTT APS EMC Joint Chapter	5	1	-	3	27	36	2331
7	Education Society	8	-	1	19	7	35	2563
8	ComSoc chapter	3	-	1	2	7	13	1132

9	PES IAS PELS Joint Chapter	3	-	-	10	12	25	2732
10	CAS EDS Joint Chapter	-	-	-	2	8	10	1200
11	Life Members Affinity Group	-	-	-	-	11	11	826
12	Women in Engineering Affinity Group	8	4	5	18	7	42	4317
13	Young Professionals Affinity Group	5	-	-	2	-	7	250
14	Signal Processing Chapter	-	-	-	1	1	2	165
15	Robotics and Automation Society	1			1	3	5	149
16	Reliability Society	1			1	7	9	283
17	Industrial Electronics Society	3	-	-	-	-	3	9
18	Sensors Council Chair	5	-	-	5	3	13	332
19	Nanotechnology Council	3	-	-	4	11	18	2261
20	TEMS Society							
21	Photonics Society	1	-	-	-	2	3	217
22	Student Branches	203	23	169	154	562	1111	74640
<b>Grand Total</b>		<b>294</b>	<b>34</b>	<b>195</b>	<b>287</b>	<b>766</b>	<b>1576</b>	<b>120107</b>

### A1.3 Major Events (International, National)

- R10 Section Chapter Symposium was held from 13- 14 November 2021 with representatives from various chapter attending in physical and online mode.
- R10 Mini POCO was held on 2-3 October with experience conference organisers from across the Asia pacific region.
- For the improvement of student engagement the section has established Skill Connect – IoT program as a part of which 20 colleges were selected to take part at a pilot level for offering training in the area of IoT for Edge Computing in a phased manner. The Section procured 120 low cost IoT starter kits based on ESP32 and sensor packs and each of these colleges were given 5 kits to start their IoT lab and provide students an opportunity to have hands on learning. A train the trainer program was conducted in physical mode and two faculty from each college were trained on ten experiments in this domain and they would go back with the kits to repeat the experiments with their students.
- International Conference on Sustainable Energy and Future Electric Transportation (SeFeT)", 21-23 Jan 2021. with IEEE Industry Application Society (USA). •
- International Conference on Emerging Techniques in Computational Intelligence – ICETCI-2021, August 25 to 27, 2021. TCS by IEEE Computational Intelligence Society <http://ietcint.com/>

- 5th International Conference on Information and Communication Technology -2021 (CICT-2021), 10-12 December 2021
- Conference on IoT for Rural Healthcare (CIRH2021), 16-18 December 2021
- R10 HTC 2022 will be hosted by Hyderabad Section
- APCCAS 2023 bid by IEEE CAS Chapter is successful. India will host this flagship circuits and systems society conference for the first time in Hyderabad in 2022.

#### A1.4 Major Chapter Activities

The various chapters of Hyderabad section have conducted 25 DL talks in 2021. One was conducted in physical mode by sensors council and remaining all were conducted in online mode during pandemic. The list of DL conducted by various chapters is given below.

Sl.NO	Event Title	Event Date
	CAS/EDS Chapter	
1	EDS DL on State-of-the-Art Silicon VLSI: Industrial Face of Nanotechnology : Hyderabad Section Chapter, CAS04/ED15	6/1/2021 18:30
2	Milli-bits to Tera-bits per second and Beyond - Over 60 years of Innovation : Hyderabad Section Chapter, CAS04/ED15	7/24/2021 19:30
	CIS/GRSS Chapter	
3	IEEE HYDERABAD SECTION: CIS DL WEBINAR ON 10 April 2021 : Hyderabad Section Jt. Chapter, CIS11/GRS29	4/10/2021 18:00
4	IEEE HYDERABAD SECTION: CIS DL WEBINAR ON 15 May 2021 : Hyderabad Section Jt. Chapter, CIS11/GRS29	5/15/2021 18:30
5	IEEE GRSS Bangalore: Distinguished Lecture (DL) by Prof Mihai Datchu on "Artificial Intelligence for EO" : Bangalore Section Chapter, GRS29	7/30/2021 18:00
6	IEEE CIS/GRSS Jt. Chapter Hyderabad: GRSS DISTINGUISHED LECTURE's Talk (DL) BY DR MIHAI DATCHU ON "ARTIFICIAL INTELLIGENCE FOR EO" : Hyderabad Section Jt. Chapter, CIS11/GRS29	7/30/2021 18:00
7	IEEE CIS/GRSS JT. CHAPTER HYDERABAD in association with IEEE Guntur Subsection: GRSS DL's talk BY DR B. S. Daya Sagar, ISI Bengaluru : Hyderabad Section Jt. Chapter, CIS11/GRS29	8/21/2021 18:00
8	IEEE GRSS Bangalore: Distinguished Lecture (DL) by Dr. Blackwell on "Overview of the NASA TROPICS CubeSat Constellation Mission" : Bangalore Section Chapter, GRS29	11/12/2021 18:30
9	IEEE CIS/GRSS JT. CHAPTER HYDERABAD: GRSS DISTINGUISHED LECTURE'S TALK (DL) BY William J. Blackwell on "Overview of the NASA TROPICS CubeSat" : Hyderabad Section Jt. Chapter, CIS11/GRS29	11/12/2021 18:30
	COMSOC Chapter	
10	IEEE Virtual Distinguished Lecturer (VDL) Talk: "Connecting Space Assets to the Internet: Challenges and Solutions" : New York Section Chapter, COM19	10/29/2021 20:00
	Computer Society Chapter	
11	IEEE CS Hyderabad Chapter   Distinguished Lecture on Reconfigurable Computing for Cyberphysical Systems : Hyderabad Section Chapter, C16	5/15/2021 18:00
12	IEEE CS Distinguished Lecture on Trends in Cyber Security : Hyderabad Section Chapter, C16	8/28/2021 18:00
13	Distinguished Lecturer on Wireless Sensor Network in Precision Agriculture Application : Hyderabad Section Chapter, C16	12/27/2021 19:00
	Edusoc Chapter	
14	A First Distinguished Lecture Talk on "Scholarship of Teaching and Learning: What it is. Why and How to do it" : Hyderabad Section Chapter, E25	7/24/2021 13:30

15	IEEE CIS/GRSS JT. CHAPTER HYDERABAD in association with IEEE Guntur Subsection: GRSS DL's talk BY DR B. S. Daya Sagar, ISI Bengaluru : Hyderabad Section Jt. Chapter, CIS11/GRS29	8/21/2021 18:00
	MTT/APS Chapter	
16	AP-S Distinguished Lecture (Webinar) On Additive Manufacturing for Antennas and Electronics From GHz to THz : Hyderabad Section Jt Chapter, AP03/MTT17/EMC27	8/14/2021 18:30
17	MTTS/APS/EMCS Distinguished Lecture on "Metamaterials – A Manipulation of Waves" : Hyderabad Section Jt Chapter, AP03/MTT17/EMC27	10/9/2021 18:30
18	MTTS/APS/EMCS DL on "Scalable Millimeter wave Phased Arrays: Challenges & Solutions" : Hyderabad Section Jt Chapter, AP03/MTT17/EMC27	11/6/2021 18:30
	Nanotechnology Council	
19	Inaugural IEEE Hyderabad NTC Distinguished Lecture Series – DL1; Advanced Nano-Sensors and IOT Systems for U-Health Care : Hyderabad Section Chapter,NANO42	9/25/2021 10:30
20	NTC Hyd SC DL2-Nano-Ultrasonic Devices for Monitoring Health of Old Age Patients Living in Remote Isolated Areas : Hyderabad Section Chapter,NANO42	10/16/2021 10:30
	PES Chapter	
21	PES-Jt. Chapter/ FREE PES Chapter DLP Webinar/ 2021-Faraday Memorial Lecture on "Using the Power of Data Analytics in Electric Utilities" / On 1-Oct-2021/ Friday/ Evening/ From 7.00 PM to 9.00 PM (IST) : Hyderabad Section Jt. Chapter, PE31/IA34/PEL35	10/1/2021 19:00
22	PES-Jt. Chapter/ FREE PES Chapter DLP Webinar on "SUBSTATION AUTOMATION" / On 18-Dec-2021/ Saturday/ Evening/ From 7.00 PM to 9.00 PM (IST) : Hyderabad Section Jt. Chapter, PE31/IA34/PEL35	12/18/2021 19:00
	RS Chapter	
23	Reliability Society Distinguished Lecture on Connecting Software Reliability Growth Models to Software Defect Tracking : Hyderabad Section Chapter,RL07	10/23/2021 18:30
	Sensors Council	
24	Distinguished Lecture:Wearable Magnetic Skins and Sensors : Hyderabad Section Chapter,SEN39	8/22/2021 11:30
25	Distinguished Lecture:Large Area Electronic Skin : Hyderabad Section Chapter,SEN39	11/27/2021 14:00

## A1.5 Major Student and Affinity Group Activities

### a. Women In Engineering Affinity Group Activities

IEEE WIE AG Hyderabad Section in association with IEEE-Bangalore Section WIE AG organised Networking Session Hyderabad Section Affinity Group, WIE
IEEE Hyderabad Section WIE AG and Education Society in association with IEEE Kolkata organised a webinar on the occasion of International Women's Day titled - From Learning to Deep Learning
IEEE VNR WIE, SPS in association with IEEE Hyderabad Section organizing a International women's Day and Talk on Edge Computing and it's Advantage
IEEE Hyderabad Section WIE AG in Association with IEEE Vardhaman WIE AG is Organizing a Webinar Titled "Women in Technology: Challenges and how to overcome them"
NAARI a coding competition for the women who code
IEEE Hyderabad Section WIE AG in association with CS Chapter and SAC organised a 3-day Program titled "Cyber Cherry Picking in Digital Era"
IEEE Hyderabad Section WIE AG and Education Society organised A Webinar on "REVISITING OUR

TEACHING PHILOSOPHIES IN ONLINE ENVIRONS" : Hyderabad Section Affinity Group, WIE
Returning Mothers Conference-2021
"Applications of Space Science & Technology in Medical arena : Our Initiatives"
AI at the Core of Microsoft products : Hyderabad Section Affinity Group, WIE
IEEE WIE Project Based Learning Camp (Learn - Collaborate - Innovate) - Part 1 : Singapore Section Affinity Group,WIE
IEEE WIE AG in association with IEEE-Hyderabad Section/Fourth Flagship event Lalitha Memorial Lecture (LML) on "SOC Design Challenges- Analogous to DSP Systems" on 20th November, 2021 from 2.00 PM to 3.30 PM (IST) : Hyderabad Section Affinity Group, WIE
IEEE WIE Project Based Learning Camp (Learn - Collaborate - Innovate) - Part 2 : Singapore Section Affinity Group,WIE
BHUVAN PORTAL OF ISRO - IEEE GRSS Hyderabad Chapter : Hyderabad Section Jt. Chapter, CIS11/GRS29

### b. Life Member Affinity Group

The following events were organized by IEEE LMAG , Hyderabad Section

LMAG Webinar on Collaborative and Interdisciplinary Research
CAREER OPPORTUNITIES, COLLABORATIVE AND INTERDISCIPLINARY RESEARCH IN SPACE SYSTEMS, HEALTHCARE SYSTEMS
Webinar Advances in Healthcare ,Challenges and Image Processing
LMAG Webinar on Past, Present and Future of Computer Aided Tomography
REMOTE SENSING,ADVANCES IN SATELLITE IMAGING, DATA PROCESSING AND APPLICATIONS.
All India seminar on Technological Advancements in Healthcare, Challenges: Role of Image processing in association with Institute of Engineers.
"Applications of Space Science & Technology in Medical arena : Our Initiatives"

### c. Young Professionals AG

Two events were organized by YP Hyderabad Section

STUDENT TRANSITION & ELEVATION PROGRAM (STEP)

Upskill 2021 – Sponsored event by R10

### A1.6 Awards

1. Winner of IEEE India Council Outstanding Volunteers, Narasimhan Venkatesh Silicon Labs
2. Winner of IEEE India Council Outstanding YP Volunteers, Vamsi Krishna Jadala TiE Hyderabad
3. Winner of IEEE India Council Outstanding WIE Volunteers - Yarlagadda Padma Sai VNR Vignana Jyothi Institute of Engineering and Technology, Hyderabad
4. Winner of IEEE India Council Outstanding WIE Volunteers - Akhilesh Sobilla Sri Venkateswara College of Engineering, Tirupati
5. Winner IEEE R10 Women in Engineering Outstanding Student Branch Affinity Group Award: VNR VJIT IEEE WIE Student Branch Affinity Group Award.
6. Winner IEEE R10 SAC Outstanding Volunteer Award:MallelluSaiPrashanth, SSR, IEEE Hyderabad Section
7. Winner IEEE R10 Educational Activities Outstanding Volunteer Award:MallelluSaiPrashanth
8. Winner IEEE R10 YP Revol 2021 Program Award:Mallellu Sai Prashanth,
9. Winner of IEEE Computer Society Richard E Merwin Scholarship Award: Mallellu Sai Prashanth, Section Student Representative, IEEE Hyderabad Section

SaiDivya, GPREC Kurnool  
 Manoj Kumar, Vaagdevi Engineering College Warangal.  
 Sai Kamal, VNR VJIT Hyderabad

10. Winner of IEEE Education Society Student Leadership Award 2021: MallelluSaiPrashanth,
11. Mr.Koti Reddy Member of IEEE PES chapter has written a book on “Electrical Equipment – A field guide”.
12. Dr.AftabHussain, IEEE CAS member published a book “Introduction to Flexible Electronics”.

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

### A.2.1 Summary (as per submitted on NetSuite)

Sl.No	Head of Account	Payments(INR)	Receipts(INR)	Payments(USD)*	Receipts(USD)*
1	Section Rebate from IEEE HQ	0.00	1,834,291.00	0	24,457
2	Meetings and Social Events	981,572.00	0.00	13,088	0
3	Conference	109,683.00	126,365.00	1,462	1,685
4	HAC/SIGHT	474,493.00	419,993.00	6,327	5,600
5	Professional Activities	1,648,357.00	15,914.00	21,978	212
6	Educational Activities	382,320.00	7,995.00	5,098	107
7	Student Activities	2,371,476.00	2,239,240.00	31,620	29,857
8	Mentorship Committee	55,002.00	0.00	733	0
9	Awards and Grants	0.00	2,529,175.00	0	33,722
10	Section Support to Students/Other Sections	97,864.00	0.00	1,305	0
11	Section Administration	752,625.00	0.00	10,035	0
12	Surplus	299,580.00		3,994	0
	<b>Grand Total</b>	<b>7,172,972.00</b>	<b>7,172,973.00</b>	<b>95,640</b>	<b>95,640</b>

\*Note: Conversion rate is taken as 1 USD = INR 75

### A.2.2 Any other financial activities - Nil

## PART B - ORGANIZATIONAL ACTIVITIES

### B.1 Membership Development Activities

B.1.1 Total number of active members in the past 3 years

Over the past three years, the Section has seen a steady increase in higher grade membership while also growing overall membership. The figures are below:

**Table 2: IEEE Hyderabad Section Membership Across 3 Years**

Year	Fellow/LM	Senior M.	Member	GSM	AM	Higher Grade subtotal	Student	TOTAL	Comments
2021	31	405	1583	544	25	2590	4531	7121	Hyderabad Section
2020	26	318	1123	365	28	1869	2197	4066	Hyderabad Section



<b>2019</b>	7	320	1557	479	48	2440	3572	<b>6012</b>	<b>Hyderabad Section and Vizag subsection</b>
<b>2018</b>	8	253	1671	487	45	2464	3629	<b>6126</b>	<b>Hyderabad Section and Vizag subsection</b>

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

The following activities were done by Hyderabad Section to improve value of membership and member growth and retention.

- TCS for six conferences organized by institutions under Hyderabad Section
- Skill Connect IoT Program Phase 1 – Pilot program for 20 colleges.
- Mentorship Program for Third year Engineering Students
- Entrepreneurship and startup development activities
- Collaboration with other sections and non government organizations.

## B.2 Chapter Activities

- Total number of Chapters in the Section  
13
- Number of Chapters formed in the current year -  
Five (Three society chapters of RAS, RS, IES, SP and two councils of Sensors and NTC)
- Number of active Chapters (Chapters who have reported required number of meetings during the year)  
10 (The newly formed chapters were given approval towards the year end and are planning good number of events in 2022.
- Summary of Chapter activities (Chapter wise with attachment table/information)

The chapter wise summary with complete details is available on this drive link. Kindly refer to the same.

<https://drive.google.com/drive/folders/1TU3pxrYs4if-JD1W2iET3dc97CXrfTnn?usp=sharing>

## 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

25 DL talks were organized in 2021 in Hyderabad section by various society chapters. Six conference were accorded TCS approval. Skill connect “Train The Trainer program” was organised and many more high impact events were held.

## B.4 Students Activities

### B.4.1 Total number of Student Branches in the Section :

159

### B.4.2 Number of Student Branches formed in the current year:

**B4.3 Section level student activities (student congress, paper and other contests, awards etc):**

- Section Student Congress is the Annual flagship event of IEEE Hyderabad Section. The Congress focuses on providing a platform for all the student branches to come together, share their thoughts, ideas, and best practices, to learn and gain knowledge from each other, improve the overall functioning of the branches, and also give students an opportunity to interact with people from various other colleges and share common ideas and goals to attain the aims and goals of IEEE.
- The theme of Section Student Congress '21 is "Unite & Celebrate." The annual flagship event is the first section-level congress organised physically after the COVID-19 pandemic to unite all the sections and celebrate the unity in diversity of the unique colosseum of enthusiastic professionals, visionary leaders, and energetic student network volunteers from all over the section. IEEE Hyderabad Section Invited to all the student members, branch counselors, and pioneers of the IEEE Hyderabad Section under one roof to promote and foster the mission and vision of the section and take steps towards achieving the goals of IEEE.
- Student Section Congress 2021, an Annual flagship congress of IEEE Hyderabad Section under the theme of Unite & Celebrate held on 4<sup>th</sup> December 2021 at The Plaza hotel, Begumpet, Hyderabad with 100 Participants (physically present), 1000+ (virtually).
- The day began brightly with the lightening of lamps by the IEEE IC SAC Chair, Dr Y Vijayalata, the IEEE Hyderabad Section Chair, Mr. Sreenivas Jasti, the Section Secretary, Dr ArifSohel, and a classical dance performance by Ms. Varshaswi B, a Student Network Representative from Stanley College of Engineering for Women. The IEEE Hyderabad Section SAC Chair, Mr. Vidyasagar T, delivered the welcoming remarks, which were followed by a photo session and a break. Later, an intriguing session was delivered by the Section Secretary, Dr.ArifSohel, on the theme, "Skill Connect-an Overview," which was primarily focused on bridging the gap and meeting industrial needs by collaborating with colleges and conducting programmes in several stages for skill enhancement amongst students.
- And then SAC Presentation of different zones, starting with the Anantapur zone, which was followed by a series of interactions as a part of the "INDUSTRY CONNECT" by Dr. Sriram B, CEO, CSCE, and DSCI.
- Later that, IEEE Celebrations session has started with a cake cutting by the dignitaries present and a lunch break. Post lunch, a Robo expo was conducted by the Section Secretary, Dr.ArifSohel, encouraging students to join the Robotics and Automation Society (RAS). Dr.

Satish from DruCare delivered a brief lecture on the activities of DruCare and offered opportunities to upcoming graduates.

- Section Student Congress 2021 concluded with prizes given to the most engaged student branches, student branch counsellors, and student network members. The event primarily aided Student Branches across the Section in networking and collaborating, and it fostered a feeling of community among the students.

**B4.4 Number of active Student Branches (Student Branches who have reported required number of meetings during the year):**

**108**

**B 4.5 Summary of Student Branch activities(Student Branch wise with attachment table/information):**

A total of 1,111 events were conducted by student branches that had an outreach of 74,000+ members and non members. This is a very crucial aspect for membership development inspite of the pandemic.

Please refer the drive link for complete details. [https://docs.google.com/spreadsheets/d/1AhcBygR-FduLIO7UAAu2dLxF\\_8XF3puF/edit?usp=sharing&ouid=110519075830130981449&rtpof=true&sd=true](https://docs.google.com/spreadsheets/d/1AhcBygR-FduLIO7UAAu2dLxF_8XF3puF/edit?usp=sharing&ouid=110519075830130981449&rtpof=true&sd=true)

**B.5 Affinity Group Activities**

- Young Professional(YP)  
The IEEE Hyderabad Section YP conducted 5 administrative meetings and the following two programs in the year 2021 - STUDENT TRANSITION & ELEVATION PROGRAM (STEP) and Upskill 2021 - Young Professionals IEEE Hyderabad Section.
- Women In Engineering (WIE)  
The IEEE WIE AG has given an award winning performance in 2021 with total 42 events spanning all categories. A total of seven new WIE AG at student branches were formed under the supervision of section WIE.

Life Member Affinity Group

The following events were organized by IEEE LMAG , Hyderabad Section

LMAG Webinar on Collaborative and Interdisciplinary Research
CAREER OPPORTUNITIES, COLLABORATIVE AND INTERDISCIPLINARY RESEARCH IN SPACE SYSTEMS, HEALTHCARE SYSTEMS
Webinar Advances in Healthcare ,Challenges and Image Processing
LMAG Webinar on Past, Present and Future of Computer Aided Tomography
REMOTE SENSING,ADVANCES IN SATELLITE IMAGING, DATA PROCESSING AND APPLICATIONS.
All India seminar on Technological Advancements in Healthcare, Challenges: Role of Image processing in association with Institute of Engineers.
"Applications of Space Science & Technology in Medical arena : Our Initiatives

**B.6 Awards & Recognition Activities**

- Award constituted by the Section  
The following awards were instituted by the section for the year 2021 and the same will be distributed during the AGM of 2022. The awards have not yet been announced, hence a comprehensive list of 2021 awardees is not available.



## IEEE Hyderabad Section Awards

● IEEE Hyderabad Section Society Chapter Award	- <a href="http://bit.ly/IEEEHYDAWARD1">http://bit.ly/IEEEHYDAWARD1</a>
● IEEE Hyderabad Section Corporate Innovator Award	- <a href="http://bit.ly/IEEEHYDAWARD2">http://bit.ly/IEEEHYDAWARD2</a>
● IEEE Hyderabad Humanitarian Technology Leadership Award	- <a href="http://bit.ly/IEEEHYDAWARD3">http://bit.ly/IEEEHYDAWARD3</a>
● IEEE Hyderabad Start up Award	- <a href="http://bit.ly/IEEEHYDAWARD4">http://bit.ly/IEEEHYDAWARD4</a>
● Outstanding Young Professional Award	- <a href="http://bit.ly/IEEEHYDAWARD5">http://bit.ly/IEEEHYDAWARD5</a>
● Outstanding WIE volunteer Award	- <a href="http://bit.ly/IEEEHYDAWARD6">http://bit.ly/IEEEHYDAWARD6</a>
● Outstanding Student Volunteer Award	- <a href="http://bit.ly/IEEEHYDAWARD7">http://bit.ly/IEEEHYDAWARD7</a>
● Outstanding Branch Counsellor Award	- <a href="http://bit.ly/IEEEHYDAWARD8">http://bit.ly/IEEEHYDAWARD8</a>
● Outstanding Student Branch	- <a href="http://bit.ly/IEEEHYDAWARD9">http://bit.ly/IEEEHYDAWARD9</a>
● Outstanding Student Branch Chapter Award	- <a href="http://bit.ly/IEEEHYDAWARD10">http://bit.ly/IEEEHYDAWARD10</a>
● Outstanding Advisor or Chair Award	- <a href="http://bit.ly/IEEEHYDAWARD11">http://bit.ly/IEEEHYDAWARD11</a>
● Outstanding Pre Engineering Leadership Award	- <a href="http://bit.ly/IEEEHYDAWARD12">http://bit.ly/IEEEHYDAWARD12</a>
● Outstanding Women in Engineering and Leadership Award	- <a href="http://bit.ly/IEEEHYDAWARD13">http://bit.ly/IEEEHYDAWARD13</a>
● Outstanding Leadership Award	- <a href="http://bit.ly/IEEEHYDAWARD14">http://bit.ly/IEEEHYDAWARD14</a>
● IEEE Hyderabad Section Life Member Outstanding Volunteer Award	- <a href="http://bit.ly/IEEEHYDAWARD15">http://bit.ly/IEEEHYDAWARD15</a>
● IEEE Hyderabad Section Educational Activities Outstanding Volunteer Award	- <a href="http://bit.ly/IEEEHYDAWARD16">http://bit.ly/IEEEHYDAWARD16</a>
● Outstanding Researcher Award	- <a href="http://bit.ly/IEEEHYDAWARD17">http://bit.ly/IEEEHYDAWARD17</a>
● Friend of IEEE Award	- <a href="http://bit.ly/IEEEHYDAWARD18">http://bit.ly/IEEEHYDAWARD18</a>
● Outstanding Volunteer Award	- <a href="http://bit.ly/IEEEHYDAWARD19">http://bit.ly/IEEEHYDAWARD19</a>
● Best Event of the year 2021	- <a href="http://bit.ly/IEEEHYDAWARD20">http://bit.ly/IEEEHYDAWARD20</a>

Last Date to apply : 17th October 2021

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[ieeehyd.org](http://ieeehyd.org)

- Please list all Awards and Recognitions received by the Section, and members in the Section, from R 10 and IEEE HQ during the year
  1. Winner of IEEE India Council Outstanding Volunteers, Narasimhan Venkatesh Silicon Labs
  2. Winner of IEEE India Council Outstanding YP Volunteers, Vamsi Krishna Jadala TiE Hyderabad
  3. Winner of IEEE India Council Outstanding WIE Volunteers - Yarlagadda Padma Sai VNR Vignana Jyothi Institute of Engineering and Technology, Hyderabad
  4. Winner of IEEE India Council Outstanding WIE Volunteers - Akhilesh Sobilla Sri Venkateswara College of Engineering, Tirupati
  5. Winner IEEE R10 Women in Engineering Outstanding Student Branch Affinity Group Award: VNR VJIT IEEE WIE Student Branch Affinity Group Award.
  6. Winner IEEE R10 SAC Outstanding Volunteer Award: Mallellu Sai Prashanth, SSR, IEEE Hyderabad Section
  7. Winner IEEE R10 Educational Activities Outstanding Volunteer Award: Mallellu Sai Prashanth
  8. Winner IEEE R10 YP Revol 2021 Program Award: Mallellu Sai Prashanth,
  9. Winner of IEEE Computer Society Richard E Merwin Scholarship Award:
    - a. Mallellu Sai Prashanth, Section Student Representative, IEEE Hyderabad Section
    - b. Sai Divya, GPREC Kurnool
    - c. Manoj Kumar, Vaagdevi Engineering College Warangal.
    - d. Sai Kamal, VNR VJIT Hyderabad
  10. Winner of IEEE Education Society Student Leadership Award 2021: Mallellu Sai Prashanth,

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

1. Newsletter (name and number of issues in the year)

Syanpse is the name of section newsletter, it is released in the digital format and two editions were released in 2021.

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

[www.ieeehyd.org](http://www.ieeehyd.org) is the section website and it is updated every 15 days.

### 3. Other means of contacts with Section members including social media

The section is having social media accounts on Twitter, LinkedIn, Instagram and Facebook and all events are publicized on these platforms with the help of ECIM chair who manages all the four accounts.

## B.8 Industry Relations

### 1. Membership growth and retention

The industry outreach has improved in 2021 with the students who have graduated in 2021 and joined the industry continuing with their IEEE membership as part of the STEP (Student transition and elevation program). Also industry leaders and well established industry representatives have come forward to join as members.

### 2. Activities for/with industrial members

The Industrial activities committee chair has conducted a few good programs to attract industry members in the area of power electronics, electric vehicles and solar power. The section already has a strong presence in the IT sector with a lot of members from software giant Tata Consultancy services (TCS). The sensors council conducted a sensors workshop with 70% of industry speakers. This was well received by the professional and student members.

## B.9 Humanitarian Technology Activities

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

The section has funded an amount of USD 2000 for the publication of a book written by Mr. C. Satish, SMIEEE and PES member titled " Digital Handbook for Earthing" which is available for free download on the section website. This book will be used by the Government Electricity department to train the farmers and industry labourers and electricians on the importance of earthing and prevent deaths and accidents caused due to improper earthing.

### 2. SIGHT Activities

The following projects received funding support from MGA and R10 for conduct of Humanitarian Activities in Hyderabad Section .

1	HAC/SIGHT COV Proj #21-COV1-061 (Mousmi Chaurasia, mousmi.ksu@ieee.org) - USD 5000	346,513.00
2	Handheld smart health monitoring system for COVID-19 patient using IOT - USD 300	18507.50
3	Deep Learning Based Approach for Face Mask Detection for Infection Spread Control of COVID-19 - USD 300	18507.50

## B.10 Community Activities

### 1. IEEE Social activities (Family day, IEEE day, Engineers Week)"

1. Award Ceremony and Social Get-together over Lunch during AGM 2021
2. Extended Family lunch time after Volunteer Orientation and Training Program
3. Inaugural of GRSS Summer School on AI applications in Remote Sensing Lunch get-together
4. Dinner Meeting with R10 Director
5. The IEEE Day was celebrated across the section by the Student Network and many student branches conducted events as part of the IEEE day program.
6. Womens day, Women in Engineering day and Teachers day were celebrated by the IEEE WIE Affinity group

## **PART C- OTHERS**

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

- Please briefly describe the importance of special events and the outcomes achieved also Funding secured from the IEEE and external sources including sponsorships

The IEEE Geoscience and Remote Sensing Society Hyderabad Chapter in collaboration with Muffakham Jah College of Engineering & Technology and Geethanjali College of Engineering and Technology, Hyderabad has organized 3-day GRSS Summer School on “Artificial Intelligence in Remote Sensing Applications”, 21-23 October 2021. The inauguration was held in hybrid mode and Mr. Deepak Mathur, Director, IEEE Region 10 was invited to be the Chief Guest of the function with a limited audience of 70 participants. The entire event was conducted through online mode and more than 1200 participants across the globe registered for the same. Naming a few countries like Malaysia, Australia, Mexico, Germany, Nigeria, Italy, Spain, Turkey. From India, reputed universities and renowned industries like IIT Kanpur, IIT Roorkee, ISI Kolkata, ISRO, Samsung.

The IEEE CAS Outreach program on "Train the Trainer" for IoT Skill Connect was held for one week in the physical mode at GRIET college. The section received funding of USD 4700 for conduct of this program from IEEE Circuits and Systems society. About 60 faculty members from 20 colleges across the section geography participated in this event and each college was given 5 IoT starter kits and 2 IoT sensor kits. The program was a great success as each of the faculty were requested to return to their respective colleges and repeat what they have learnt to the students of IEEE Student branch. This has led to an increase in the student membership levels in the respective colleges.

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

- Nature of relationship and details of any formal agreement signed  
No
- Details of joint activities  
Joint Activities were conducted with the following non government organisations and Industry bodies.
  - ✧ Institute of Engineerin
  - ✧ CSIR- Indian Institute of Chemical Tecnology ;
  - ✧ Data Security Council of India
  - ✧ Nascom.
- Benefit to IEEE members (for example discounts, access to technical information etc.)  
All events were free registration charges for money
- Benefit to Section(for example help in membership development, venue facilities, cost saving etc.)  
The events played crucial role in membership development in organisations with which IEEE Hyderabad section has collaborated.

### C3. Collaboration with other IEEE Sections

- Support extended to neighboring Sections

The IEEE CAS/ED Chapter has collaborated with IEEE CAS Kerala, Bangalore, Delhi and Kolkatta chapter to present a joint bid to host the Asia Pacific Conference on Circuits and Systems and with a combined effort the conference has been allotted to be held at Hyderabad in 2023.

- Joint activities with any other Section

IEEE Hyderabad Section WIE AG and Education Society in association with IEEE Kolkata Section is coming up with a webinar on the occasion of International Women's Day titled "From Learning to Deep Learnin"• : Hyderabad Section Affinity Group, WIE

IEEE WIE Project Based Learning Camp (Learn - Collaborate - Innovate) - Part 1 in collaboration with Singapore WIE Section Affinity Group

Leadership summit and Meet and Greet activities were organized in collaboration with IEEE Kolkotta and IEEE Bangalore section

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

- Support extended for organising technical, educational and professional activities

1. IEEE HS currently has two sub sections – Guntur Sub Section(formed in 2004) and Ananthapuramu Subsection(formed in 2017). Till recently, IEEE HS had jurisdiction of Vizag Bay Sub Section (formed in 2011) also, on 20 February 2021 Vizag Bay was elevated to a full section. The IEEE HS supports all the activities of both subsections professionally and financially.
2. At the beginning of every year based on the membership details a part of the section rebate is allotted to each sub section. In 2021, a budget of Rs. 75,000(USD 1000) was allotted to each sub section for regular activities and meetings.
3. Also an extra budget of 75,000(USD 1000) is allotted separately for the student activities and this is maintained by Student Activity Chair(SAC). This budget has been utilized to conduct SAC summer student congress for the students of both these subsections and same was titled SAC Parjanya (details on section website - <https://ieeehyd.org/sac/parjanya>).
4. Further, need based funding is also provided. The incentive funding is shared with both the section at the rate of 10% per section. This is based on membership numbers of each subsection.
5. The chairs of sub sections are permanent members of IEEE HS execom and attend all monthly SEC meetings.

- Joint activities for membership development

1. IEEE HS currently has two sub sections – Guntur Sub Section(formed in 2004) and Ananthapuramu Subsection(formed in 2017). Till recently, IEEE HS had jurisdiction of Vizag Bay Sub Section (formed in 2011) also, on 20 February 2021 Vizag Bay was elevated to a full section. The IEEE HS supports all the activities of both subsections professionally and financially.
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5. The chairs of sub sections are permanent members of IEEE HS execom and attend all monthly SEC meetings.

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

The IEEE Hyderabad Section has given full support for the elevation of IEEE Vizag bay sub section to a full section level. Currently there are two subsections and there is not enough member base to elevate them to full section.

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

**Skill Connect Program:** The IEEE HS has launched a Skill Connect – IoT Program as a part of which a pilot program for 20 active and upcoming student branches has been launched. The Skill connect committee has entered into an MoU with these 20 colleges and has provided training for Two faculty members in IoT with Edge Intelligence as part of Train the Trainer program. Further the section has procured custom designed IoT started boards based on ESP32 and sensor kits and each partner college will be issued 5 started kits and 2 sensor kits. This is a paid registration program in which the students are supposed to pay a nominal registration fees of 8-10 USD. The IEEE SB of that identified college should maintain its minimum numbers with basic membership and also society memberships for the chapters they have. This way it is ensured that the SB will also have decent memberships(between 30-40 is expected) and on completion of the SKILL connect IoT program the IEEE HS will conduct a roadshow of the demonstration of the IoT talent developed in this program. Industry representatives will be invited to this roadshow and it is proposed to get internships to the students successfully completing the training program. A budget of **USD 4000** is earmarked for this project in 2021 and it is proposed to extend to 20 more colleges in 2022 after the success of the pilot model. Similar skill development programs will be run for various courses like JAVA, Robotics, AI and ML etc.

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

With the section growing to have about 20 chapters presenting their activities in the SEC meeting is becoming a challenge and it takes about 4.30 hours. It can be mitigating by proposed two monthly meetings with all chair and the third month should be a strategical planning meeting.

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

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

The skill connect program of the Hyderabad section is a great success with student branches and is received very well by the SB. The first module in the domain of IOT was released in 2021. It is proposed to offer more modules in 2022 in the areas of software development, Robotics and Automation and Cybersecurity. The student membership have increased due to these hands-on programs being conducted by the section.

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



The year 2021 witnessed an unprecedented membership improvement due to student enrollment. The sections aims to conduct more programs for professionals from the Industry and academia and increase the professional memberships in 2022.

The section would like to strengthen YP committee with more members who can play an active role in the outreach activities to industry professionals and startups.

The section would like to revive/renovate/repair the IEEE Exhibits at the Birla Science Center, Hyderabad which houses more than ten exhibits made by IEEE members and is available to general public. A regular upkeep of the same is on the anvil and each student branch will be allotted the responsibility for maintenance of every exhibit.

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

The section has a great strength in terms of volunteer expertise in the area of Industrial IoT and has submitted a proposal to the IEEE New initiatives committee for establishment of Center of Excellence on IoT at industrial venue called Electronics Corporation of India limited(ECIL) which has in principal agreed to provide space and support for establishment of this center. This center will also be developed as a training place for all the hands on programs organized by various chapters of Hyderabad section as the venue will house the state of the art equipment in various domains. A physical presence of such a dedicated facility for training and R and D activities will be a great value add to the section and will lead to membership retention and recruitment.

The section intends to sign MoU with colleges having active student branches and provide the basic training and kits for establishing specialized labs like – IoT lab/Robotics lab/Cyber security lab. The skill connect program of the section aims to leverage expertise of its members in designing “Project Based Experiential Learning” labs, the colleges in turn will have to maintain a steady IEEE membership base with atleast ten faculty and 30 student members. The college management shall give a dedicated space for these advanced lab and provided signages indicating the support of IEEE Hyderabad section. This will help in section branding and membership recruitment.

The section is providing “Technical Co Sponsorship” to about six conferences every year and also hosting flagship conferences of R10 and society chapters. It is envisaged to have a membership development booth in all such conferences which will be manned by responsible section executive members to reach out the researchers and invite them to join IEEE on an immediate basis by helping them in the process of Challan payment in Indian Rupees, as a lot of people still think that credit card is the only process by which membership can be attained.

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

The section has seen a good amount of growth in student membership in 2021. The target for 2022 is to increase the professional memberships by atleast 25% by conducting outreach activities at venues of conferences/workshops/symposia in

collaboration with other professional and technical societies. For this it is proposed to enter into an agreement with bodies like Institute of Engineers, Computer Society of India, Cyber Security Council of India, FTCII, HYSEA, IESA for joint hosting of events with registration fees discount to members of both participating organization's.

In order to improve the financial stability, the section is encouraging its technical society chapters to conduct funded outreach program of their respective societies and organized good quality events with decent registration fees. They will be encouraged to financially plan the events to ascertain atleast 15% surplus which can be used for conduct of future programs of the same chapter.

A future directions committee of Hyderabad section was formed in 2017 which has given clear guidelines for the development of the Hyderabad section in terms of membership and financial strategy and the same is adhered to while organizing various events. The same are available at this link [www.ieeehyd.org/futuredirectioncommittee](http://www.ieeehyd.org/futuredirectioncommittee)

The proposed strategic plan for

1. **Section Level SIGHT program:** To Focus on Humanitarian Activity projects that are approved by the SIGHT chair of IEEE HS for funding to MGA and R10. If a few of such projects are not selected for funding by R10 or MGA, then it is proposed to provide funding upto USD500 per project and sponsor upto 6 such projects for a total amount of **USD 3000**.
2. **Skill Connect Program:** The IEEE HS has launched a Skill Connect – IoT Program as a part of which a pilot program for 20 active and upcoming student branches has been launched. The Skill connect committee has entered into an MoU with these 20 colleges and has provided training for Two faculty members in IoT with Edge Intelligence as part of Train the Trainer program. Further the section has procured custom designed IoT started boards based on ESP32 and sensor kits and each partner college will be issued 5 started kits and 2 sensor kits. This is a paid registration program in which the students are supposed to pay a nominal registration fees of 8-10 USD. The IEEE SB of that identified college should maintain its minimum numbers with basic membership and also society memberships for the chapters they have. This way it is ensured that the SB will also have decent memberships(between 30-40 is expected) and on completion of the SKILL connect IoT program the IEEE HS will conduct a roadshow of the demonstration of the IoT talent developed in this program. Industry representatives will be invited to this roadshow and it is proposed to get internships to the students successfully completing the training program. A budget of **USD 4000** is earmarked for this project in 2021 and it is proposed to extend to 20 more colleges in 2022 after the success of the pilot model. Similar skill development programs will be run for various courses like JAVA, Robotics, AI and ML etc.
3. **Encourage Entrepreneurship through a program titled Proposal to prototype to Product (EPPP):** The Standing Committee on Startup and Entrepreneurship headed by Mr. N. Venkatesh is in close contact with the start up ecosystem of federal government of state of Telangana. Through the IEEE Platform it is proposed to conduct an ideation contest and select the five most promising ones and support each project upto USD 500 to build an MVP(minimum viable product), this can be showcased by the innovator at various forums with a business plan and the innovator will try for funding from government programs and angel investors. Four such ideas will be supported with a funding support of **USD 2000**.
4. **Membership Elevation from student to YP:** The section proposed to identify active student volunteers who have graduated in June 2021 and their membership is valid till 31 December 2021. It has been observed that such students do not renew their membership as they have

joined companies as freshers and their salary may not be enough to manage the wide change in membership fee from student(USD27) to professional(USD 85). In this case the section plans to reach out to such Young professional through YP AG of the section and include them to get actively involved with volunteering at section level and also assist them by providing membership fee support of upto USD 50 per person. A maximum of 20 such YP will be supported and an amount of **USD 1000** from the R10 funding support will be utilized.

5. **Collaboration with Other national professional and technical societies:** The section proposes to enter into an MoU with professional societies of prominence like **Institute of Engineers, Computer Society of India, Data Security Council of India**, Institute of Electronics and Telecommunication Engineers(IETE), **Indian Institute of Chemical Technology** and others to conduct joint programs like workshops, symposiums and conferences so that the IEEE member can benefit from this collaborations in form of discounted registration fees. An amount of USD 500 per collaboration per event will be reserved and a total budget of **USD 3000** will be earmarked for this.
6. **Award for Best Academic performance:** The students form a strong membership base of the section. While the students dedicate their time to volunteering they should not neglect their academics. In this regard, The section is planning to award the top academic performers with section branded goodies of USD 20 each. It is proposed to present 50 such branding items for a budget of **USD 1000**.



A group photo from the event

