

Region 10 Section Report Format

PART A - SECTION SUMMARY

A.1 Executive Summary

- Section Executive Committee Member List

IEEE Delhi Execom 2020						
	Name	Position	Cell No	Alternate Cell No	Email Id	Institution
1	Prof. Prerna Gaur	Chairperson	9810906245		prernagaur@yahoo.com	NSUT
2	Prof. Rachana Garg	Executive Vice Chair	9971991063		rachana16100@yahoo.co.in	DTU
3	Prof. Abdul Q. Ansari	Vice Chair	9873824597		aqansari62@yahoo.com	JMI
4	Mr Ravindra Joshi	Secretary	9818100743		ravindra.joshi@tatapower-ddl.com	
5	Dr Shabana Urooj	Joint Secretary (UP Segment)	9818868044		shabanabilal@gmail.com	GBU (Greater NOIDA)
6	Dr Sneha Kabra	Treasurer	9868847325		snehakabra@ieee.org	DU
7	Prof. K. Subramanian	Past Chair	9818065948		ksmanian@gmail.com	Ex NIC
8	Prof. M. N. Hoda	Member	9212022066		mca@bvicam.a c.in	(BVICAM, New Delhi)
9	Mr Ajay Goel	Member	9811884030		ajay.goel@altran.com	ALTRAN, Gurugram
10	Prof. Mahesh M Bundele	Member	9828999440		maheshbundele@poornima.org	Poornima University, Jaipur
11	Dr Rajnish Sharma	Member	9779450706		rajnish@ieee.org	Chitkara
12	Vijay K. Dutt	Member	9810961348		vijaydutt@gmail.com	Ex Railways
13	Dr Shruti Jain	Member (HP-J&K)	9318039036		jain.shruti15@gmail.com	Jaypee University, Wagnaghat
14	Dr Rashmi Agarwal	Member (Haryana)	9891595209		rashmiagarwal404@gmail.com	YMCA, Faridabad

15	Prof. Meenu Khurana	Member (Punjab)	9501105619		meenu.khurana@chitkara.edu.in	Chitkara, Rajpura
16	Ms Jyoti Jain	Member (NCR Delhi)	9899503602		jyotijain_in@yahoo.com	MSIT, ND
17	Prof Neena Gupta	Chandigarh Sub Section Chair	9815503245		ng65@rediffmail.com	
18	Dr Rohit Bhakar	Rajasthan Sub Section Chair	9468585161	9549650318	rbhakar.ee@mnit.ac.in	
19	Dr Mohit Gambhir	Member (Coopted)	9810341200		mohitgambhir@gmail.com	MHRD
20	Prof. Manoj Kumar	Member (Coopted)	9717124559		manojgaur@yahoo.com	AIACTR
21	Dr. Jasdeep Kaur Dhanoa	Member (Coopted)	9968485100		jasdeepkaur@yahoo.com	IGDTUW
22	Mr. S. R. Narasimhan	Member (Coopted)	9971117022		srnarasimhan@gmail.com	POSOCO
23	Mr. Sanjay Singh	Member	8630823692		sanjaysingh@ieee.org	

- **Section highlights**

IEEE Delhi Section has as per latest (January 04, 2021) statistics 4034 active Members (including 23 Society Affiliates), consisting of 0 Honorary Member, 7 Life Fellow, 7 Fellow, 33 Life Senior, 434 Senior Member, 7 Life Member, 1330 Member, 25 Associate Member, 681 Graduate Student Member, 1486 Student Member, 1 SA.

- **Major Events (International, National)**

- 3rd International Conference on Emerging Technologies in Computer Engineering: Machine learning and Internet of Things (ICETCE-2020) (https://conferences.ieee.org/conferences_events/conferences/conferencedetails/46199) held during February 7-8, 2020 (Friday-Saturday) by the Department of Computer Science & Engineering and Information Technology. Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT), Ramnagar, Jagatpura, Jaipur-302017, Rajasthan, India (having Conference website: <http://www.icetce.in/2020>)
- Indo – Taiwan 2nd International Conference on Computing, Analytics and Networks (Indo-Taiwan ICAN2020)
- (https://conferences.ieee.org/conferences_events/conferences/conferencedetails/48429) jointly organized by Chitkara University, India & National Chung Cheng University, Taiwan during February 7-8, 2020 at National Chung Cheng University, Taiwan No. 168, Section 1, Daxue Road, Minxiong Township, Chiayi County, Taiwan 62102 & on February 14-15, 2020 at Chitkara University, Punjab, India Chandigarh-Patiala National Highway (NH- 64), Rajpura, Punjab 140401, India (having Conference website: <https://www.chitkara.edu.in/cse-can>)

- 1st International Conference on Emerging Trends in Communication, Control and Computing (ICONC3)
- (https://conferences.ieee.org/conferences_events/conferences/conferencedetails/45789) held during February 21-22, 2020 (Friday – Saturday), as re-scheduled, at Mody University of Science & Technology (MUST), Lakshmangarh, Rajasthan, India (having Conference Website : <http://www.muconference.in/>)
- 9th IEEE Power India International Conference (PIICON2020)
- (https://conferences.ieee.org/conferences_events/conferences/conferencedetails/49524) held during February 28 - March 01, 2020 in the Department of Electrical Engineering, Deenbandhu Chhotu Ram University of Science & Technology (DCRUST), Murthal, National Capital Region, Haryana, India (having Conference website: <http://PIICON2019.in>)
- 14th edition of INDIACom, i.e. INDIACom – 2020; 2020 07th International Conference on Computing for Sustainable Global Development (https://conferences.ieee.org/conferences_events/conferences/conferencedetails/49435) held during March 12-14, 2020 at BVICAM, Bharati Vidyapeeth, New Delhi, India (having Conference website: <http://www.bvicam.ac.in/indiacom/>)
- 2020 First IEEE international conference on Measurement, Instrumentation, Control and Automation (ICMICA 2020) (https://conferences.ieee.org/conferences_events/conferences/conferencedetails/48462) during June 24-26, 2020 in virtual mode at National Institute of Technology Kurukshetra, Kurukshetra (having Conference website: <http://www.icmica2020.com/>)
- 2020 Sixth International Conference on Parallel, Distributed and Grid Computing (PDGC-2020) (https://conferences.ieee.org/conferences_events/conferences/conferencedetails/50313) during November 6-8, 2020 in virtual mode at Jaypee University of Information Technology, Waknaghat, near Solan, HP, India (having Conference website: <http://www.juit.ac.in/pdgc-2020/index1.php>)
- 15th IEEE International Conference on Industrial & Information Systems (IEEE – ICIIS) – 2020
- (https://conferences.ieee.org/conferences_events/conferences/conferencedetails/51140) during November 26-28, 2020 in virtual mode at Indian Institute of Technology Ropar, Punjab – 140001, India (having Conference website: <http://www.iitrpr.ac.in/iciis2020/>)
- 4th International Conference and Workshops on Recent Advances and Innovations in Engineering (ICRAIE 2020)
- (https://conferences.ieee.org/conferences_events/conferences/conferencedetails/51050) during December 1-3, 2020 at Poornima College of Engineering, ISI 6, RIICO Institutional Area, Goner Road Sitapura, Jaipur, Rajasthan 302022, India and Indian Institute of Technology, NH 65, Surpura Bypass Road, Karwar, Jodhpur, Rajasthan 342037, India (having Conference website: <http://www.icraie.poornima.org/index.html>)
- 2020 IEEE Seventeenth India International Conference (INDICON 2020) (https://conferences.ieee.org/conferences_events/conferences/conferencedetails/49873) during December 11-13, 2020 in virtual mode at Netaji Subhas University of Technology, Sector-3, Dwarka, New Delhi-110078, India (having Conference website: <http://www.indicon2020.in/>)
- All India Student, Young Professional, Women-in-Engineering & Life Members Congress 2020 (AISYWLC) is the annual flagship event of IEEE India Council which administers a platform to young professionals, academicians, scholars, entrepreneurs and technocrats from divergent fields

and careers to show up together and share a common podium. The Congress provides a path to connect with industry experts, successful business professionals and experts working on latest technologies. Various workshops, seminars led by ace professionals contribute to the diverse opportunities for business networking, professional development and personal growth. This year, AISYWLC was hosted by IEEE Delhi Section at Chitkara University in a unique hybrid mode from 19th to 20th December and 26th to 27th December, 2020. The theme of AISYWLC this year was “Erase The Boundaries”. The theme revolves around how India Cultures, Sciences and Methods are being used around the world.

- **Major Chapter Activities**

- 285 events across 14 different sections were organized by IEEE Delhi Section.

- **Major Student and Affinity Group Activities:**

- IEEE Delhi Section comprises of four Student and Affinity Groups:
- Life Member Affinity Group organized 47 events
- Consultants Network Affinity Group organized 30 events
- Women in Engineering Affinity Group organized 12 events
- Young Professionals Affinity Group organized 9 events.

A.2 Financial Report

- **Summary**

- IEEE Delhi Section disbursed an amount of INR 3,80,000 for conducting AISYWLC 2020 (All India Students, Young professionals, Life members, Women in Engineering Congress) held in Dec 2020. INR 8,00,000 were utilized for organizing INDICON 2020. An amount of INR 1,00,000 was disbursed to IEEE Rajasthan sub section for conducting technical activities. INR 30,46,940 have been disbursed to various chapters, affinity groups and standing committees for conducting various technical activities. INR 100,000 was provided to NIT Kurukshetra as seed money for organizing first IEEE International Conference on Measurement, Instrumentation, Control and Automation (ICMICA).

- **Any other financial activities**

- Utilization certificate for the financial year 2019-20 was submitted in June 2020. The funds received for various chapters, societies and affinity groups were disbursed for conducting technical activities, workshops and seminars.

PART B - ORGANIZATIONAL ACTIVITIES

B.1 Membership Development Activities

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

In the year 2018, a total membership of 4423 was recorded. In the year 2019, a total membership of 4686 was recorded. In the year of 2020, till October, 3718 membership were recorded. It is a phenomenon count since the year 2020 was in lockdown. Above data has been gathered from

<https://mga.ieee.org/resources/annual-statistics>. It is evident, the total membership count in the IEEE Delhi Section has been on the rise steadily, count of Fellows and Members has not been affected even though there was a global pandemic. There is an increase in the number of Student Members. On the overall a healthy ratio of Higher-Grade Members and Student Members is maintained, former being higher in the range of 17 to 25%, thus creating opportunities for holding events at appropriate levels for all the categories abundantly. Delhi Section is committed to increasing the membership of IEEE. Events that provide various avenues in terms of enhancing the interaction, service to humanity are also planned.

The Student Branches are encouraged to organize the membership drives in their Institutes to increase the membership count. The Student Branches are also encouraged to hold IEEE Day in their Institutes to increase their visibility by providing funds for organizing these activities.

To retain the Students Members, the Section gives various incentives to Student Members like partial funding to attend All India Student/YP/WIE Congress (AISYWC) and R10 Student Congress. Also, Section has initiated three awards viz, J K Pal Memorial Award, Outstanding Student Volunteer Award and Outstanding WIE Volunteer Award. One of the criteria for these Awards is the duration of their student membership. There were the following categories under which awards were given to each Student Branch:

1. J K Pal Memorial Award (To final year students)
2. Outstanding Student Volunteer (To second/third-year students)
3. Outstanding WIE volunteer (To second/third-year students)

Branch Counsellor Awards were also given to selected counsellors for their commendable contribution during the ceremony. Awards help in spreading a strong positive message to the Members and also helps in the retention of membership for longer durations of time.

B.2 Chapter Activities

- **Total number of Chapters in the Section : 19**
- **Number of Chapters formed in the current year : 1 Society Chapter, 11 student branch chapter**
- **Number of active Chapters : 14 Chapters are currently active in the Section**
- **Summary of Chapter activities : 254 events reported including technical, non-technical, administrative, humanitarian and professional activities**

B.3 Professional and Continuing Education Activities

- Status of conferences: 2020 Sixth International Conference on Parallel, Distributed and Grid Computing (PDGC-2020) to be held *in VIRTUAL MODE* during 6th - 8th November 2020 from Jaypee University of Information Technology, Wanknaghat, HP, India (having Conference website: <http://www.juit.ac.in/pdgc-2020/index1.php>). (*Financially Co-Sponsored along with Indian Institute of Technology (IIT) Ropar*) 15th IEEE International Conference on Industrial & Information Systems (IEEE – ICIIS) - 2020 to be held *in VIRTUAL MODE* during November 26-28, 2020 *with revised budget* at Indian Institute of Technology Ropar, Punjab – 140001, India (having Conference website: <http://www.iitrpr.ac.in/iciis2020/>)- (*Financially Co-Sponsored along with Poornima College of Engineering, Jaipur, Rajasthan*) 5th International Conference and Workshops on Recent Advances and Innovations in Engineering (ICRAIE 2020) to be held *in VIRTUAL MODE* during December 1-3, 2020 at Poornima College of Engineering, ISI 6, RIICO Institutional Area, Goner Road Sitapura, Jaipur 302022 and Indian Institute of Technology, NH 65, Surpura Bypass Rd, Karwar, Jodhpur, Rajasthan 342037, India (having Conference website: <http://www.icraie.poornima.org/index.html>) (*Financially Co-Sponsored along with IEEE India Council*) 2020 IEEE Seventeenth India International Conference (INDICON 2020) to be held *in VIRTUAL MODE* during 11-13 December, 2020 at Netaji Subhas University of Technology, Sector-3, Dwarka, New Delhi-110078, India (having Conference website: <http://www.indicon2020.in>).(Financially Co-Sponsored along with NIT Kurukshetra) 2020 First IEEE international conference on Measurement, Instrumentation, Control and Automation (ICMICA 2020) held *in VIRTUAL MODE* during June 24 to 26, 2020, after postponing due to COVID-19 Pandemic, at National Institute of Technology Kurukshetra, Kurukshetra (having Conference website: <http://www.icmica2020.com/>)
- 14th edition of INDIACom i.e. INDIACom – 2020; 2020 07th International Conference on “Computing for Sustainable Global Development” held during 12th - 14th March 2020 at BVICAM, Bharati Vidyapeeth, New Delhi, India (having Conference website: <http://bvicam.ac.in/indiacom/>) (*Financially Sponsored*) 9th IEEE Power India International Conference (PIICON2020) held during February 28 - March 01, 2020, in the Department of Electrical Engineering, Deenbandhu Chhotu Ram University of Science & Technology (DCRUST), Murthal, National Capital Region, Haryana, India (having Conference website: <http://piicon2020.in/>) 1st International Conference on Emerging Trends in Communication, Control and Computing (ICONC3) held during February 21-22, 2020 (Friday – Saturday), after re-scheduling, at Mody University of Science & Technology (MUST), Lakshmanagarh, Rajasthan, India (having Conference Website: <http://www.muconference.in/>). Indo – Taiwan 2nd International Conference on Computing, Analytics and Networks (Indo-Taiwan ICAN2020) jointly organized by Chitkara University, India & National Chung Cheng University, Taiwan held during February 7-8, 2020 at National Chung Cheng University, Taiwan No. 168, Section 1, Daxue Road, Minxiong Township, Chiayi County, Taiwan 62102, and during February 14-15, 2020 at Chitkara University, Punjab, India Chandigarh-Patiala National Highway (NH- 64), Rajpura, Punjab 140401, India (having Conference website: <https://www.chitkara.edu.in/cse-can>)

B.4 Students Activities

- **Total number of Student Branches in the Section:** 100+
- **Number of Student Branches formed in the current year:**
 - Two student branches, SIX Student branch Affinity Groups
- **Number of active Student Branches:** 100+
- **Summary of Student Branch activities:** around 900 events have been reported on vtools

B.5 Affinity Group Activities

- **Young Professional (YP)**
 - ARTIFICIAL INTELLIGENCE & MACHINE LEARNING: POWERFUL SOLUTION
 - Google Assistant based Smart Home using Raspberry Pi, Applications of IoT
 - WEBINAR ON 3D Printing
 - Leveraging Clean Energy and Humanitarian Technologies : Delhi Section Affinity Group, YP
 - First Virtual Meet - IEEE Delhi Section YP AG Executive Committee(2020-21)
 - Industry Outlook Webinar on Embedded system in Automobiles
 - Student Transition and Elevation Partnership (STEP) Initiative (Webinar + Panel discussion)
 - YP Speaks: Podcast series, Episode-1 themed on Honing Leadership & Communication skill
 - YP SPEAKS: PODCAST SERIES, EPISODE-2 THEMED ON BAGGING SCHOLARSHIPS THROUGH IEEE

- **Women In Engineering (WIE)**
 - A Talk on "IEEE WIE Affinity Groups and Student Branch Affinity Groups"
 - Fourth IEEE WIE AG EXECOM Meeting : Delhi Section Affinity Group, WIE
 - WIEmpower 2.0 : Delhi Section Affinity Group, WIE
 - Webinar: Accelerating Learning & Technical Knowledge Development during Corona Crisis
 - IEEE WIE Expressions 2020 : The Northcap University, WIE
 - Cyber Security #Webinar Series: Technologies that make a difference
 - WIEInquizitive: Online Quiz Competition
 - WIEsionaries
 - Webinar: Prevention of Sexual Harassment at Workspace and cyberspace
 - Webinar: Pitching – 7 Mistakes to avoid on Stage
 - Webinar : Exploring the Uncharted Territory: Space Entrepreneurship
 - Career Counseling : Delhi Section Affinity Group, WIE

- **Life Member (LM)**
 - Seventh BHU Engineers Alumni Annual Meeting : Delhi Section Affinity Group, LM
 - R.K.Vir Memorial Lecture 2020 : Delhi Section Affinity Group, LM
 - Talk on "ICT in Agriculture - World Water Day Celebration :
 - Talk on Robotics in Instrumentation : Delhi Section Affinity Group, LM
 - Annual General Meeting 2020 of LMAG DELHI : Delhi Section Affinity Group, LM
 - First E-EXECOM 2020 of LMAG Delhi : Delhi Section Affinity Group, LM
 - 'Ultrasonic Transducer Modelling" : Delhi Section Affinity Group, LM
 - Two Weeks Online Faculty Development Programme (FDP) on "Emerging Research Trends in CS & IT" : Delhi Section Affinity Group, LM
 - Webinar on "Research in Digital Age – Problems and Opportunities"
 - Two Weeks Online Faculty Development Programme (FDP) on "Emerging Research Trends in CS & IT" : Delhi Section Affinity Group, LM
 - Webinar on "IT Project: The Key Management Areas for Success"
 - Webinar on "Impact of COVID-19 on Physical and Mental Health"
 - Webinar on "5G – Myth busters and benefits for Indian environment"
 - Webinar on "Internet of Things (IoT) – Industrial Perspective"
 - Webinar on "BlockChain – Technological Perspective" : Delhi Section Affinity Group, LM
 - Webinar on "Filing Simplifying IPR and Patent" : Delhi Section Affinity Group, LM
 - Webinar on "COVID-19: Threat or Opportunity?" : Delhi Section Affinity Group, LM

- Webinar on “Data Science and AI” : Delhi Section Affinity Group, LM
- Second EXECOM 2020 of LMAG DELHI : Delhi Section Affinity Group, LM
- Webinar on “Citations and Reference Management using Mendeley”
- Webinar on “Is Edge Computing, the savior of IoT?” : Delhi Section Affinity Group, LM
- Webinar on “How to Write Technical Books?” : Delhi Section Affinity Group, LM
- ‘Virtual Discussen on MicroIrrigation System” by Dr VR Singh
- Keynote on “Role of IEEE Editors” by Dr VR Singh : Delhi Section Chapter,IM09/EMB18
- Webinar on “Research Methodology” : Delhi Section Affinity Group, LM
- Webinar on “Robotics and Automation Processes” : Delhi Section Affinity Group, LM
- Webinar on “Robotics and Automation Processes” : Delhi Section Affinity Group, LM
- ‘Virtual Discussion on ‘Sustainable Energy’ by Dr VR Singh Others= 27
- Webinar on “Cyber Warfare, Cyber Security and Cyber Citizenship”
- Remarks on New Digital India,by AVM (Dr) Ajit Tyagi : Delhi Section Chapter,IM09/EMB18
- IEEE DAY CELEBRATION by PDMU-SB students and Chapters
- Webinar on “The Art of Writing Quality Research Papers” : Delhi Section Affinity Group, LM
- Webinar on “Virtual Reality and Augmentation” : Delhi Section Affinity Group, LM
- Webinar on “National Education Policy (NEP) - 2020” : Delhi Section Affinity Group, LM
- Webinar on “Publication Ethics and Plagiarism” : Delhi Section Affinity Group, LM
- Webinar on “Robotics in Everyday Life – Threat or Opportunity
- Webinar on "Software Defined Networking (SDN)" : Delhi Section Affinity Group, LM
- Webinar on "Optimization and AI Techniques" : Delhi Section Affinity Group, LM
- Webinar on "Value of IPR in Academic Researches" : Delhi Section Affinity Group, LM
- Webinar on "Digital Twin: Technology for post COVID-19”
- Webinar on "AI in Everyday Life “ Threat or Opportunity
- Webinar on "Digital inclusion of underserved communities"
- LM TRACK 1 AISYWL CONGRESS 2020 : Delhi Section Affinity Group, LM
- LM Track2 AISYWL Congress 2020 : Delhi Section Affinity Group, LM
- LM Track 3 AISYWL Congress 2020 : Delhi Section Affinity Group, LM
- Third EXECOM 2020 of LMAG DELHI : Delhi Section Affinity Group, LM

B.6 Awards & Recognition Activities

Following members of section were nominated for awards by IEEE India council –

- IEEE Outstanding Volunteer (Age greater than 35) – Prof. Jasdeep Dhanoa
- Outstanding Student – Mr Sidhant Benyal
- Outstanding WIE Student – Ms Hershita Tully
- IEEE IC Technologist of the Year 2020 – Mr S R Narsimhan, POSOCO
- IEEE LTA award (section chairs) – Prof. Subrata Mukhopadhyay*

Out of all the above nominations, Prof Mukhopadhyay was bestowed with IEEE LTA award in category of section chairs.

B.7 Communication Activities

A lot of communication with members is through emails and social media. Hardcopy communication as to when required is sent through India Post, under exceptional circumstances only (Keeping in mind the global pandemic). In the year 2020, efforts were to provide social media visibility to activities of Delhi Section. There was the launch of a Facebook Group and Page. A separate Twitter handle is launched for increasing the outreach of the Section. IEEE Delhi Section is extremely regular in sending across the

information about important IEEE events happening across the globe to its members. The E-Newsletter is quarterly released and circulated to all members in the Delhi Section covering information about meetings held, conferences, important upcoming events, achievements and statistics of membership growth. The website is updated twice weekly.

- **Newsletter**
 - ✧ IEEE DELHI SECTION NEWSLETTER-vol 20 no 04-10 April-October 2020
- **Home Page of the Section:**
 - ✧ <https://ewh.ieee.org/r10/delhi/>
- **Other means of contacts with Section members including social media**
 - ✧ ieeedelhissection@ieee.org
 - ✧ Facebook Page <https://www.facebook.com/groups/delhi.ieee/>
 - ✧ <https://www.facebook.com/groups/delhissn/>
 - ✧ https://www.facebook.com/search/top/?q=ieee%20delhi%20section%20student%20network&ep_a=SEARCH_BOX

B.8 Industry Relations

- Enabled Industry sessions at various Colleges, Institutions & Events
- Due to Pandemic & enhanced delivery through Webinars, Collaborated with Prof MN Hoda to deliver 15+ IEEE Webinar (& Faculty Development Programs) – inviting Industry experts on Topics like – 5G, IOT, Security, AI in Healthcare, Industry 4.0, AI & its applications, Digital Twins, SDN etc
- Bring in Industry perspective, connect – as needed – including during the AGM session by Industry expert
- **Membership growth and retention**

2018 Membership Statistics: IEEE Delhi Section has as per latest (November 2018) statistics 4250 active Members (excluding 21 Society Affiliates), consisting of 0 Honorary Member, 5 Life Fellow, 8 Fellow, 33 Life Senior, 309 Senior Member, 7 Life Member, 1412 Member, 53 Associate Member, 575 Graduate Student Member, 1848 Student Member.
- **Activities for/with industrial members**

Under the aegis of Institution of Railway Electrical Engineers, The Institution of Engineering and Technology, Institute of Electrical and Electronics Engineers, The Institution of Engineers (India) (Delhi State Center), the 5th R. K. VIR MEMORIAL LECTURE entitled "Creating Visionary Management Along with Professionalism" was held on Thursday, January 4, 2019, at 1900 hrs. at Institution of Engineers (India) Delhi.

B.9 Humanitarian Technology Activities

- **SIGHT Activities**
 - In line with IEEE vision of penetration of technology across humanity, IEEE Delhi Section, through its SIGHT wing, is actively involved in reaching to the underprivileged and deprived section of the society. It is aimed at bringing overall life in their daily routine, which not only facilitates to connect them closer to the technology but also helps them, to the extent possible, to be closer to the mainstream. As a Community Service, SIGHT volunteers keep on choosing selected clusters of such sections of the

society in and around the jurisdiction of the Delhi Section and undertake a variety of the activities/events for their overall welfare, upliftment and betterment.

B.10 Community Activities

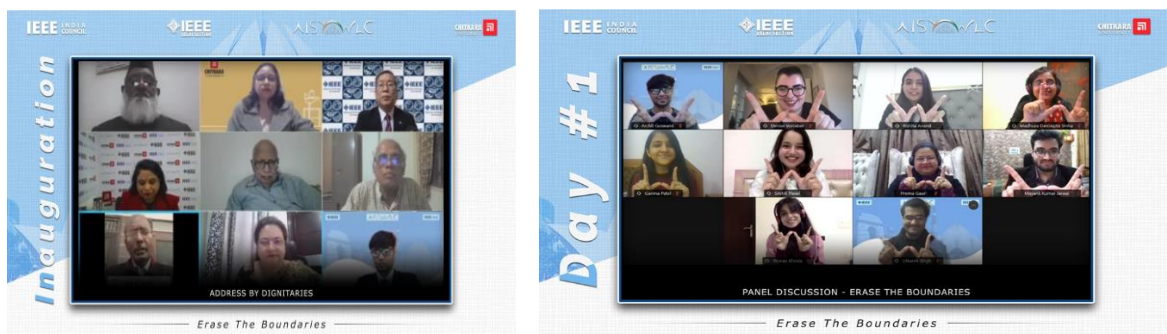
- **IEEE Social activities**

- On the occasion of IEEE Day several colleges celebrate the occasion by organizing a series of events which last from two days to over a week.

PART C - OTHERS

C.1 Special Events

All India Student, Young Professional, Women-in-Engineering & Life Members Congress 2020 (AISYWLC) is the annual flagship event of IEEE India Council which administers a platform to young professionals, academicians, scholars, entrepreneurs and technocrats from divergent fields and careers to show up together and share a common podium. The Congress provides a path to connect with industry experts, successful business professionals and experts working on latest technologies. Various workshops, seminars led by ace professionals contribute to the diverse opportunities for business networking, professional development and personal growth. This year, AISYWLC was hosted by IEEE Delhi Section at Chitkara University in a unique hybrid mode from 19th to 20th December and 26th to 27th December, 2020. The theme of AISYWLC this year was “Erase The Boundaries”. The theme revolves around how India Cultures, Sciences and Methods are being used around the world.



As part of AISYWLC'20, the Annual Hallmark event of IEEE India Council, a Panel Discussion was held on the Role of next-generation in Space, Technology & Exploration AISYWLC'20. The event was conducted on 20th December 2020, at 8:30 PM IST. The moderator of the discussion was Mr Puneet Mishra, who is also the secretary of IEEE India Council and advisory board member of AISYWLC 2020. The Panelists for the Panel Discussion were Dr Goutam Chattopadhyay, Senior Scientist NASA – JPL, Mr. Shreyansh Daftry, AI Research Scientist - NASA – JPL, Mr. Rajeev Jyoti, Deputy Director – Space Applications Centre, ISRO. The panel discussion included different perspectives on what is on the horizon for space exploration to inspire the next generation of space scientists. The audience, primarily students, were also encouraged to raise queries to know how space technology can enhance further the quality of life of world citizens, by discussing all the innovative ideas for space exploration, including exciting aspects like space colonies, search for extraterrestrial intelligence, and

planetary exploration. Panelists mentioned how important the younger generation is for science exploration and bringing innovation. They ended the note with a message to dream big, and stay creative in each field we work on. There is a lot to explore and unfold in the universe. They also shed some light on the importance of gender rateration at work. They highlighted the point that there is a need for more women scientists and that makes the work environment more disciplined and innovative. The discussion was concluded with a group photograph of all the panelists and dignitaries along with mementos as a token of appreciation.



Through his presentation he shared some of the leadership lessons that he learned through volunteering in IEEE, lessons which are not learned in class rather learned in a team. He emphasized the major takeaways that he learned in IEEE was we learn from success and failure both, importance of initiative is a must for one's progress, goals and objectives are important not in professional life but also personal life, think out of the box and solve problems innovatively, and finally, teamwork is important for success. As part of AISYWLC, the annual flagship event of IEEE India Council, the keynote address was conducted on Managing Disruption In A Post Covid World. The session was taken by the very honourable Mr Seenivasan Balasubramanian, Chief Executive Officer - IAMPL, Rolls-Royce, on 26th of December 2020 from 5:30pm to 6:30pm. As part of AISYWLC'20, on the last day of the event, a Panel Discussion was held on 5G. The event was held on 27th December 2020, from 01:00 PM. The panel discussion was centred on the journey of 5G Technology. The 3 panellists for the discussion was Dr Debabrata Das , IEEE India Council Chair-Elect 2021. He is currently serving as Professor at IIIT Bangalore (IIITB), Ms. Soma Panday - General manager at jio – Senior Executive with over 20 years' experience in wireless R&D, Design and Development, Subhas Mondal , IEEE SA Board of Governors Member-at-Large, 2021-2022. Subhas Sir is Fellow and the Chief Architect of 5G at Wipro. The panelists discussed the 5G Technology, the scalability of 5G and its impacts on the World of sensors. The discussion reflected some insights into the major challenges of 5G and how these prime industries are working to get them in place. One of the major questions that were raised for the discussion was 'how is 5G going to be all that different, to an average user who already enjoys quick downloads and smooth HD video streaming on 4G LTE'.

The 17th IEEE India Council International Conference INDICON2020 is the one of the biggest virtual conferences ever organized by IEEE India council. Even in the time of a pandemic participants could have get together and celebrated the power of research and technology on an international level. The most awaited time of IEEE INDICON was on 11th to 13th Dec, where around 500 researchers of IEEE India and all over the world showcased innovative contributions. The 17th edition of IEEE INDICON started successfully with tutorials on 10th December, 2020 starting at 10 AM. Chief guest, of the inauguration was Dr Radhakrishnan, former chief ISRO, keynote speaker Prof. Toshio Fukuda, Guest of honour, Er. Rajeev Sharma, CMD EESL, R10 Director, Akinori Nishihara, Chief Patron, Hon'ble Vice chancellor, Prof. J. P. Saini , Patron INDICON2020, Prof. S. N. Singh, and Prof Bhim Singh, Prof. Prerna Gaur, General Chair INDICON 2020, Dr Puneet Mishra, Awardees of India Council, other dignitaries from IEEE Region 10, EXECOM members and Participants from around 10 countries attended the Conference. INDICON 2020 started with three Tutorials of Prof. J. R. Saini, Director Symbiosis Pune, on "Natural language processing", Dr. C. P. Ravikumar from Texas Instruments on "Changing role of Semiconductor verification and Test in modern times" and Dr. Aman Jha, from S T Microelectronics on "Electric Vehicles and

Smart Semiconductor Lighting” on 10th Dec. In all 12 Plenary Sessions were successfully conducted. The Speakers were R 10 Director, Dr Lance Fung, Chair Elect India Council, Dr Suresh Nair, Prof Shibhan Koul, IIT Delhi, Prof Bhim Singh IIT Delhi, Dr Meenu Sibngal, Vice President Schneider Electric, Dr Preeti Bajaj, Vice Chancellor, Galgotia University, Dr Puneet Mishra, ISRO, Prof Supavadee, Prof Takako Hashimoto, Prof K Subhramanian, Prof Celia Shehnaz from Bangladesh Section. M V Chauhan paper contest was organized successfully on 10th Dec at 3 PM in which a large number of participants was seen this year. The papers were reviewed by the reviewers of INDICON2020 only. We received 850 papers out of which 411 registrations were accepted finally after rigorous review work at least by three reviewers from leading institutions and industry. The papers were presented in 57 sessions in three days in which three WIE paper tracks were successfully organized. A panel discussion on the emerging topic was organized, on 13th Dec’2020 at 3 PM in which leading women from Industry, start-ups, DRDO, Indian Railways Academia participated from India and abroad, Prof Takako, Prof Celia Shehnaz, Aishwarya, Chair WIE Singapore, Prof Preeti Bajaj, Prof Prerna Gaur, Prof Rachana Garg, Dr Manpreet Kaur, Dr Rashmi Agarwal, Dr Sapna Gambhir were amongst the Panelists.



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

• Nature of relationship and details of any formal agreement signed—

- ✧ IEEE Delhi Section supports and participates in the activities jointly organized by IEEE IETE and IEI. Chair and many EXECOM members attended the meetings of IETE and IEI and provided financial assistance for IEI activities on 4th Jan 2020

• Benefit to IEEE members

- ✧ The entry was free to nominated IEEE members in all Technical seminars jointly organized at various grand venues like five-star Hotels and IITs.

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

- ✧ All the events after March 2020 were organized free of cost keeping in mind the COVID situation.

C3. Collaboration with other IEEE Sections

• Support extended to neighboring Sections

- Provided INR.20,000/- Financial Assistance to Bangalore Section in organizing and attending WIE ILS by WIR Chair, Secretary and Vice-Chair Delhi Section, Provided INR 20,000/- to Hyderabad Section in organizing AISWYC-2019 and attending it by Chair and 12 Students from the Delhi Section. Attended Sir J C Bose lecture by Chair and Vice-Chair of Delhi Section in Bangalore.

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

- **Support extended for organizing technical, educational and professional activities**
 - Spreading awareness to organize IEEE Day celebration and as a result, a record number of activities registered and finally organized in section and Sub Section. (Organized two Expert Lectures and awareness Lectures about IEEE by Chair and Executive Vice-Chair in Punjab Engineering College and University Institute of Engineering and Technology-Chandigarh Sub Section in September and October 2019)(Organized Rajasthan Student Congress by providing funding from Section in which 250 students participated)(Both the subsections were provided yearly financial assistance of Rs 100,000/- each from Delhi Section to organize regular activities)
- **Joint activities for membership development**
 - Organized Rajasthan Student Congress by providing funding from the Section in which 250 students participated) IEEE Conference at MNIT Jaipur and also in Chandigarh Sub Section where it was organized in PEC.
- **Support extended for the formation of a Sub-section or transition of a Sub-section into a full Section:**
 - By Organizing Rajasthan Student Congress in Manipal Univ, Jaipur and IEEE Conference in MNIT Jaipur.

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

- Started Delhi Section Industry Awards. It will encourage IEEE and Industry relationship too.
- In spite of COVID Pandemic 2 large conferences and focused to Professional Members and Student Members were organized. Both conferences INDICON 2000 and AISWYC-2020 were highly successful and attended by professional members and student members.
- Webex meetings (even when there was no pandemic) for cost effective meetings
- Support for Industrial tours for students
- To support sub-sections, every year atleast one exec com meeting is held in any one of the subsection.
- To get back dropped members, a new process started, where every Execom member will call at least 10 dropped members to motivate them to join membership of IEEE again.

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

- Drop in Membership from Student Member to Member. As a solution it is planned in Delhi Section that every Execom Member will talk to 10 dropped out members and motivate to join membership again.

- Membership development and member retention is a problem area. Also getting YPs and Industry personals involved in IEEE activities is also difficult.

PART D - GOALS AND PLANS

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

- IEEE Industry awards in Section, started in 2020, plan to mature in 2021
- Affiliation with NGO
- Every year HTC, SIGHT and WIE are doing activities for the uplifting of weaker sections of the society. The section would definitely like to continue with these activities.
- The Delhi section is approving conferences only after due considerations and are following the norms strictly. In future also we will be judiciously giving approval to the conferences.

D.2 Goals and Future Plans

- 15th Edition of INDIACom (https://conferences.ieee.org/conferences_events/conferences/conferencedetails/51348) during March 17-19, 2021 at BVICAM, Bharati Vidyapeeth, New Delhi, India (having Conference website: <http://bvicam.ac.in/indiacom/>)
- Second International Conference on Secure Cyber Computing and Communications (ICSCCC), 2021 (https://conferences.ieee.org/conferences_events/conferences/conferencedetails/51823) during May 21-23, 2021 at Dr. B R Ambedkar National Institute of Technology Jalandhar, Punjab, India (having Conference website: <https://www.nitj.ac.in/icsc2021/>)
- 2021 IEEE Indian Conference on Antennas and Propagation (InCAP 2021), the 4th edition of IEEE Indian Conference on Antennas and Propagation launched and organized by AP-S chapters of India, (https://conferences.ieee.org/conferences_events/conferences/conferencedetails/52216) during December 16-19, 2021 at Malaviya National Institute of Technology, Jaipur (MNIT Jaipur), Rajasthan, India (having Conference website: <http://jaipur.incapindia.in>)

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

- Every year Section tries to requisition the Membership Development Material from the IEEE HQs, viz., brochures, pamphlets, booklets, posters, flags, coat-pins, pens, pencils, stickers application forms, etc.
- Section is reimbursing the Renewal membership fees of all senior citizens who do not have any source of income. IEEE PES-IAS Delhi Chapter reimburses the student membership for the second year.
- It tries to reach every conference or seminar venue happening in the the geographic region of the IEEE Delhi Section and put up a stall there with banners and posters displayed prominently.
- Volunteers would be present in those stalls, especially during the Registration time, tea breaks and lunchtime. The volunteers would speak to the delegates about the benefits of joining IEEE and distribute the promotional material. The attendees would also be encouraged to apply online for the membership.
- While the conferences would be in progress, the volunteers would also visit the departments and meet the students as well as the faculty members and tell them the benefit of joining the IEEE and the online process thereof.

- For those conferences which are held with the Technical Sponsorship of the Delhi Section, the organizers are approached for a slot in the plenary sessions or keynote sessions to speak about the IEEE. That helps in propagating the membership instantly among a larger audience.
- E-Campaigning about the IEEE Day Celebrations throughout the Section and Efforts of Membership Development there.
- Membership Development Meeting along with the Chandigarh Subsection, like Exec Com Meeting, at PEC, Chandigarh.
- All the members of the Standing Committee put a very good effort in retaining the Membership of the Section and also in promoting the membership perse.
- Special efforts are made for the elevation of eligible Members to Senior Members by approaching the eligible Members individually and encouraging them to apply for up-gradation of their membership. This has led to the Senior Membership largest among various Sections in India.