

Section Report

IEEE Islamabad Section (R00091) 2020



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Part A: SECTION SUMMARY

A1: Executive Summary

Section Executive Committee Member List

Name	Position
Dr. Amir Qayyum	Chair
Dr. Muhammad Uzair Khan	Vice Chair
Dr. Muhammad Arshad Islam	Secretary
Dr. Muhammad Tahir Awan	Treasurer
Dr. Muhammad Tariq Khan	Chair Peshawar Subsection
Dr. Naveed Ikram	Electronic Communications Coordinator
Dr. Haroon Rasheed	Educational Activities
Dr. Najam ul Islam	Conference Chair
Mr. Mansoor Malik	Nominations and Appointment Chair
Dr. Sajjad Ahmed Madani	Membership Development Chair
Dr. Abdul Khaliq	Publications Chair
Dr. Gulistan Raja	Awards and Recognition Committee Chair
	Education Activities
Dr. Muhammad Zubair	Student Activities Chair
Mr. Ahsan Farooqui	Industry Relation Coordinator
Ms. Mukhtiar Bano	WIE Chair
Mr. Ahsan	SIGHT Coordinator
Engr. Muzamil Mahmood	SSR
Mr. Moeiz Chaudhary	YP Coordinator
Dr. Abdul Khaliq	Chair Power Electronics Power Engineering Society
Dr. Abdul Qayyum	Chair Control Systems Society Pakistan
Dr. Zohaib Iqbal	Chair Computer Society Pakistan
Dr. Yasar Ayaz	Chair Robotics and Automation Society Pakistan
Dr. Noshawan Khan	Chair Microwave Theory and Techniques and Antenna Propagation and Electromagnetic Compatibility
Dr. Muhammad Zubair	Computational Intelligence Society Chair

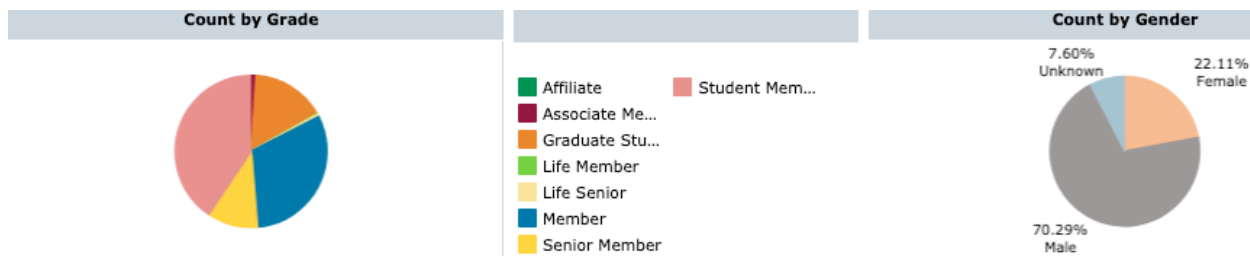
Section Activities Highlights

ExCom Meeting	5
Conferences	5
Annual General Meeting	✓
ExCom Elections	Being held in Feb 2021
Student Activities	>50

Section Membership Statistics

Islamabad Section	736
Peshawar Subsection	145
Others	157
Total	1038

Graduate Student Members	84
Members	228
Student Membership	336
Senior Members	91
Life Seniors	4
Associate Members	5



Society Chapter Membership Count

Computer Society	112
Control Systems Society	25
MTT/AP/EMC Society	58
Robotics and Automation Society	64
Computation Intelligence Society	35
Geo Science and Remote Sensing Society	4

Affinity Group member Count

YP	232
WIE	192

Major Events (International, National)

Annual General meeting was held on 26th of February 2020

Grants and Programs Availed by IEEE Islamabad Section in 2019

Sr. No.	Program Name	Sponsoring Body
1	MD incentive grant received in recognition of recruitment and retention goals.	R-10 Membership Development Committee
2	Section incentive in recognition of performance based on various activities	R-10 awards and recognition committee
4	Membership Development and Leadership Training	R10 SAC

Major Chapter activities

- All activities are mentioned in Section B2

Major Student and Affinity Group Activities

- All activities are mentioned in Section B3 and B4

Awards

Islamabad Section Awards	Winner
Best Student Branch	CUST Student Branch
Best Student Volunteer	Mr. Saad Anwer
Best Student Technical Chapter	IEEE PES UET Taxila
Best WIE Affinity Group	IEEE UET WiE AG
Best WIE Affinity Group Volunteer	Ms. Farah Ilyas
Best Technical Chapter	IEEE MTT/APS/EMC/CAS Joint Chapter

A2: Financial Report

Complete Financial report are available at NetSuite

Part B Organizational Activities

B1: Membership Development Activities

Year	Membership Count
Dec 2020	1048
Dec 2019	1073
Dec 2018	1150
Dec 2017	1197
Dec 2016	1017
Dec 2015	950
Dec 2014	735
Dec 2013	836
Dec 2012	541
Dec 2011	544
Dec 2010	475

B2: Chapter Activities

Activities by GRS29

INTRODUCTION TO PYTHON

It was a workshop organized for introducing programming skills to students of undergraduate level on 11 Feb 2020.

Activities by C16

EXCOM MEETING

In this meeting on 10th of Feb 2020, we discussed the challenges confronted by industry professionals.

MEETING OF IEEE CS ISLAMABAD CHAPTER WITH IEEE CS RIPHAH STUDENT CHAPTER

A meeting of IEEE Computer Society Islamabad Chapter with IEEE Computer Society Riphah Student Chapter was quickly arranged on 15th of April 2020 on Zoom (an Online Video Calling/Meeting/Chating Platform) to discuss the progress of the newly formed IEEE CS Student Chapter. In the meeting, future online events like webinars and online competitions were discussed. Not only events, but also all student scholarship awards by IEEE Computer Society were also discussed, more prominently the prestigious Richard E. Merwin Student Scholarship. As most of the students were applying from IEEE CS Riphah Student Chapter, so there queries were also answered by the Representative (SSR) of IEEE CS Islamabad Chapter during the meeting raised by the Chairperson Mr. Muhammad Qaisar as he was also applying for Richard E. Merwin Student Scholarship.

MEETING OF IEEE CS ISLAMABAD CHAPTER WITH IEEE CS CUI WAH STUDENT CHAPTER

A meeting of IEEE Computer Society Islamabad Chapter with IEEE Computer Society COMSATS University Islamabad (CUI), Wah Campus Student Chapter was quickly arranged on 25th of April 2020 on Zoom (an Online Video Calling/Meeting/Chating Platform) to discuss the progress of the IEEE CS Student Chapter. In the meeting, future online events like webinars and online competitions were discussed. Not only events but also all student scholarship awards by IEEE Computer Society were also discussed, more prominently the prestigious Richard E. Merwin Student Scholarship as its deadline was approaching (i.e. 30th April 2020). As most of the students were applying from IEEE CS CUI Wah Student Chapter, so their queries were also answered by the Representative (SSR) of IEEE CS Islamabad Chapter during the meeting raised by the Chairperson Mr. Uzair Farhan as he was also applying for Richard E. Merwin Student Scholarship.

RICHARD E. MERWIN -REM HELP DESK LIVE SESSION BY IEEE CS ISLAMABAD CHAPTER

A quick detailed session on IEEE CS Scholarship: Richard E. Merwin Student Scholarship by Student Representative of IEEE CS Islamabad Chapter, Mr. Waqas Ahmad and REM Scholar Mr. Muhammad Ammar Qureshi. The session was delivered online on 27th of April 2020 via ZOOM

(an Online Meeting/Calling platform). This session was arranged for IEEE Islamabad Section (most prominently focusing on IEEE CS Student Members). The event was successfully done with the collaboration of one of the active IEEE CS Student Chapters i.e. IEEE CS COMSATS University Islamabad, Wah Campus Student Chapter. Approximately 20+ IEEE Computer Society Student Members joined the online session. The major session was delivered by Mr. Waqas as he is serving as REM Help Desk Mentor as well as Student Outreach Initiative for this year and he mentored more than 15 IEEE CS Student Members. Recently he is also appointed as Outreach Lead (Member), IEEE CS Students & Young Professionals MGAB (Region-10).

EXCOM MEETING

This meeting on 22nd May 2020 focused on how quality assurance practices need to scale to cope with increased automation.

MEETING OF IEEE CS ISLAMABAD CHAPTER WITH CHAIR IEEE YP ISLAMABAD SECTION & CHAIR IEEE SIGHT ISLAMABAD SECTION

A meeting of IEEE Computer Society Islamabad Chapter with IEEE YP and IEEE SIGHT Islamabad Section was quickly arranged on 18th of June 2020 on Zoom (an Online Video Calling/Meeting/Chating Platform) to discuss the future online collaborative events. In the meeting, future online events like webinars and online competitions were discussed. Soon, a new series of informative and technical webinars and sessions will be introduced in IEEE Islamabad Section with the combined efforts of the IEEE Computer Society Islamabad Chapter and IEEE YP & IEEE SIGHT Islamabad Section.

MEETING WITH IEEE CS SYP MGAB GLOBAL COMMITTEE

A quick online meeting of IEEE CS Islamabad Chapter(C16) was conducted with IEEE Computer Society Students & Young Professional MGAB Global Committee on 1st of July 2020 to discuss the progress of last 6 months of the year 2020 of IEEE CS Islamabad Chapter. Also, many other opportunities for IEEE CS Members (especially for IEEE CS Members) were discussed and starting of new initiatives in local sections was also on agenda. Meeting was done by student representative (Mr. Waqas Ahmad) and Chair, IEEE CS SYP Committee (Ms. Megha Ben). ZOOM online video calling platform was being used for the meeting.

EXCOM MEETING

Discussed briefly regarding the challenges in the growth of IT industry in Pakistan and their solutions on 20th of July 2020.

EXCOM MEETING

Guidance on software testing and automated testing for industry professions on 10th of September 2020.

Activities by RA24

ARTIFICIAL INTELLIGENCE IN INDUSTRY

The event was held in University of South Asia, Lahore on 7th February 2020 in collaborations of ACM Lahore Chapter and IEEE Student Branch University of South Asia, Lahore. The aim of the

event was to present the applications of AI & Robotics in industry. The application in Germany were discussed and the similar opportunities in Pakistan were highlighted.

ARTIFICIAL INTELLIGENCE & ROBOTICS (AIR) DAY

The event was held in University of South Asia, Lahore on 12th of February 2020 in collaborations of ACM Lahore Chapter and IEEE Student Branch University of South Asia, Lahore. The aim of the event was to expose attendees to following questions. How A.I. is different from tradition computing system. The association between various discipline of computer science and artificial intelligence. That artificial intelligence is at the core of modern and advanced computing systems. Different artificial intelligence approaches to machine intelligence.

ARTIFICIAL INTELLIGENCE & EMERGING TECHNOLOGIES

The event was held on 16th February 2020 in National College of Business Administration & Economics (NCBAE) Main Campus in collaborations of ACM Lahore Chapter and National Initiative for Artificial Intelligence & Information Security. The aim of the event was to present the applications of AI & Robotics in Academia and Industry. The speaker shared his experience of Online Learning in UK for High School students.

ROBOTICS ON THE R.I.S.E.

The event was held on 10th of July 2020 online in collaborations of Lahore ACM Chapter, IEEE Lahore Section and University of South Asia, Lahore. The aim of the event was to highlight the progress of Robotics research at RISE Lab, NUST and rest of Pakistan.

CYBER SECURITY (BEYOND IMAGINATION)

The event was held online on 18th of July 2020 in collaborations of Lahore ACM Chapter, IEEE Industry Application Society, IEEE Lahore Section and University of South Asia, Lahore. The aim of the event was to discuss the opportunities in information and cyber security. In this talk he briefly explained some of the biggest cyber-attacks in the recent past that changed the paradigm of national security.

ARTIFICIAL INTELLIGENCE & ROBOTICS (AIR) DAY -II (DECEMBER)

IEEE RAS organized the online session with Dr. Andrew Ware, Dr. Roberts Bishop, Dr. Wajaht Qazi and Dr. Atif Mehdi on Friday, December 18, 2020.

Activities by AP03 / MTT17 / EMC27

IEEE AP03/MTT17/EMC27 ADMINISTRATIVE COMMITTEE (ADCOM) MEETING - FEB 2020

The IEEE AP03/MTT17/EMC27 Administrative Committee (AdCom) Meeting was held on 12th Feb 2020 at Research Institute for Microwave and Millimeter-Wave Studies (RIMMS), National University of Sciences and Technology (NUST), H-12, Islamabad, Pakistan. This meeting was chaired by Dr. Noshawan Shoaib (current chair) and it was the first AdCom meeting of the year 2020. The meeting was attended by chapter vice chair, secretary and treasurer along with few volunteers. Dr. Shoaib welcomed participants and discussed planning of current and future chapter activities as well as joint ventures. In particular, the organization of specialized RF & Microwave conference in Pakistan was deliberated. The meeting end with a note of thanks to participants.

RFIC DESIGN RULES FOR COMMERCIAL APPLICATIONS

The IEEE Islamabad Section Antennas & Propagation Society, Microwave Theory & Techniques Society and the Electromagnetic Compatibility Society (IEEE MTTS/APS/EMCS) joint chapter has organized a seminar on RFIC Design Rules for Commercial Applications at Information Technology University (ITU), Lahore on 28th Feb 2020. The invited speaker was Dr. Hammad M. Cheema from Research Institute for Microwave and Millimeter-Wave Studies (RIMMS), National University of Sciences and Technology (NUST), H-12, Islamabad, Pakistan. The speaker has highlighted the importance of RFIC design rules for agriculture, healthcare and IoT applications. The seminar was well attended by post graduate students and faculty members and concluded with a productive Q/A session.

IEEE AP03/MTT17/EMC27 ADMINISTRATIVE COMMITTEE (ADCOM) MEETING - APRIL 2020

The IEEE AP03/MTT17/EMC27 Administrative Committee (AdCom) Meeting was held online on 15th April 2020. This meeting was chaired by Dr. Noshawan Shoaib (current chair). The meeting was attended by chapter vice chair, secretary and treasurer along with few volunteers. Dr. Shoaib welcomed participants and discussed planning of current and future chapter activities. The preparations for specialized RF & Microwave conference in Pakistan were deliberated and updates on various administrative tasks were presented. The meeting ended with a note of thanks to participants.

VIRTUAL LEARNING OF RF EQUIPMENT & TEST FACILITIES

The COVID-19 pandemic has affected various sectors of life especially the education sector. The online education is widely adopted to cope this problem. In this context, the IEEE Islamabad Section MTTS/APS/EMCS Joint Chapter has created a YouTube channel titled “RIMMS-NUST”. Via this channel, the chapter aims to promote the detailed videos on sophisticated RF equipment and facilities available at Research Institute for Microwave and Millimeter-Wave Studies (RIMMS), NUST, Islamabad. These videos are useful for RF engineers and, in particular, the students who don't have access to specialized RF equipment during the pandemic. Two detailed videos titled “Vector Network Analyzer (VNA) Calibration and Device Characterization” and “Antenna Test and Characterization using Anechoic Chamber” are already posted.

TRANSCEIVER ARCHITECTURES FOR BEYOND-5G: CHALLENGES AND R&D OPPORTUNITIES

To continue the knowledge & learning momentum under the current pandemic situation, the IEEE MTT society has decided to create a series of distinguished microwave lecturer (DML) Virtual talks, where members can interact and discuss with experts on the microwave field.

ANTENNA DESIGN FOR 5G SYSTEMS AT SUB-6 GHZ AND MILLIMETER-WAVE BANDS

The IEEE MTT/AP/EMC Joint Chapter Islamabad has initiated a webinar series containing technical talks on RF & Microwave research area. The current talk title is “Antenna Design for 5G Systems at Sub-6 GHz and Millimeter-Wave Bands”. The guest speaker is Dr. Muhammad Umar Khan, Assistant Professor at Research Institute for Microwave and Millimeter-Wave Studies (RIMMS), NUST, Islamabad.

WEBINAR ON RECONFIGURABLE MIMO ANTENNA DESIGN – RECENT TRENDS AND DEVELOPMENT

The IEEE MTT/AP/EMC Joint Chapter Islamabad has initiated a webinar series containing technical talks on RF & Microwave research area. The current talk title is “Reconfigurable MIMO Antenna Design – Recent Trends and Development”. The guest speaker is Dr. Rifaqat Hussain, from King Fahd University of Petroleum and Minerals (KFUPM), Saudi Arabia.

WEBINAR ON HUMAN EXPOSURE TO RF FIELDS

The IEEE MTT/AP/EMC Joint Chapter Islamabad at Research Institute for Microwave and Millimeter-Wave Studies (RIMMS), NUST H-12 Campus has initiated a webinar series containing technical talks on RF & Microwave research area. The current talk title is “Human Exposure to RF Fields”. The guest speaker is Dr Masood Ur Rehman from University of Glasgow, UK.

WEBINAR ON PLASMONICS ENABLED SUPER-RESOLUTION MICROSCOPY TECHNIQUES

The IEEE MTT/AP/EMC Joint Chapter Islamabad at Research Institute for Microwave and Millimeter-Wave Studies (RIMMS), NUST H-12 Campus has initiated a webinar series containing technical talks on RF & Microwave research area. The current talk title is “Plasmonics enabled Super-resolution microscopy techniques”. The guest speaker is Dr Hasan Tahir Abbas from University of Glasgow, UK.

WEBINAR ON ADVANCES IN ANTENNA SYSTEMS FOR FUTURE WIRELESS TERMINALS

The IEEE MTT/AP/EMC Joint Chapter Islamabad at Research Institute for Microwave and Millimeter-Wave Studies (RIMMS), NUST H-12 Campus has initiated a webinar series containing technical talks on RF & Microwave research area. The current talk title is “Advances in Antenna Systems for Future Wireless Terminals”. The guest speaker is Prof. Mohammad S. Sharawi from Polytechnique Montréal, Montréal, Québec, Canada.

WEBINAR ON ‘ARE WE ALONE? NASA TECHNOLOGIES TO FIND LIFE BEYOND EARTH AND ANSWERS TO OTHER SCIENCE QUESTIONS’

The IEEE MTT/AP/EMC Joint Chapter Islamabad at Research Institute for Microwave and Millimeter-Wave Studies (RIMMS), NUST H-12 Campus has initiated a webinar series. The current talk title is “Are We Alone? NASA Technologies to Find Life Beyond Earth and Answers to Other Science Questions”. The guest speaker is Dr. Goutam Chattopadhyay from NASA-Jet Propulsion Laboratory, California, USA.

WEBINAR ON "ORGANIC ANTENNA-IN-PACKAGE DESIGNS FOR MILLIMETER WAVE APPLICATIONS"

The IEEE MTT/AP/EMC/CAS Joint Chapter Islamabad at Research Institute for Microwave and Millimeter-Wave Studies (RIMMS), NUST H-12 Campus has initiated a webinar series. The current talk title is “Organic Antenna-in-Package Designs for Millimeter Wave Applications”. The guest speaker is Dr. Duixian Liu from IBM T. J. Watson Research Center Yorktown Heights, NY, USA.

WEBINAR ON "DESIGN AND SIMULATION OF APERTURE ARRAYS FOR RADIO ASTRONOMY: THE SKA-LOW TELESCOPE"

In radio astronomy, an aperture array is a phased array with a direct view of the sky (as opposed to a phased array feed). Work towards the Square Kilometre Array (SKA)-LOW radio telescope, which covers much of the VHF radio band, has prompted extensive research on such systems over the last two decades, including the MWA and LOFAR telescopes. Design considerations and aspects of the SKA-LOW telescope, to be deployed in Western Australia, will be outlined. Presently, each of the 512 SKA-LOW “stations” is to comprise 256 dual-polarized log-periodic antennas. After discussing some general aspects of SKA, and SKA-Low, this presentation will describe in some detail the numerical modelling of station patterns using embedded element patterns, which fully capture the complex mutual coupling environment of each antenna. The implications for SKA-LOW will conclude the paper.

WEBINAR ON RECENT DEVELOPMENTS IN COMPUTATIONAL ELECTROMAGNETICS

This presentation will focus on recent developments in the finite difference time domain (FDTD) method for electromagnetics and antenna applications. First a brief introduction to the method, its capabilities, and the type of lumped circuit elements, linear and non-linear, which can be integrated into an electromagnetic simulation will be presented. Several examples of designing, antennas, filters, and RFID tags will be demonstrated. Furthermore, the development of the cylindrical FDTD formulation, the body of revolution FDTD (BOR-FDTD) formulation to model rotationally invariant cylindrical structures, and the cylindrical-sectoral formulation to model partially rotational structures will be presented with special focus on integrating dispersive material analysis for real applications such as the oil and gas wireline logging. The speed up of the FDTD method using graphical processing gaming cards (GPUs) along with the use of different programming languages such as FORTRAN, MATLAB, CUDA, and OpenCL will be highlighted.

2020 IEEE INTERNATIONAL SEMINAR ON WOMEN IN CIRCUITS & SYSTEMS (WICAS)

IEEE Microwave Theory & Techniques (MTT) /Antennas & Propagation (AP)/ Electromagnetic Compatibility (EMC)/ Circuits & Systems Society (CAS) Joint Chapter Islamabad at NUST Research Institute for Microwave & Millimetre-Wave Studies (RIMMS-NUST), Islamabad-Pakistan has arranged a webinar on the topic 'Women in Circuits & Systems (WiCAS)'. The session will be on December 23, 2020, from 02:00 pm to 07:00 pm PST.

B3: Professional and Continuing Education Activities

B4: Student Activities

Number of Student Branches	27
Number of SB formed in Current Year	1
Number of Activities	115

Summary of Student Activities

Sr	Title	Date
1	C++ Problem Solving Competition	1 st of January 2020
2	Power' Soul Competition	3 rd of January 2020
3	Signal Generation Competition	5 th of January 2020
4	Observer Based Robust Sliding Mode Strategies for p53 Recovery	14 th of January 2020
5	Seminar on System Engineering and Project Management – A way forward for Engineering	15 th of January 2020
6	Velocity Profile Optimization of an EV with Inclusion of Traffic Signals	21 st of January 2020
7	First executive meeting regarding Annual plan 2k20	23 rd of January 2020
8	Arduino Workshop	27 th of January 2020
9	Data Flow in Electronic Warfare	28 th of January 2020
10	Presidential Initiative for Artificial Intelligence & Computing (PIAIC)	29 th of January 2020
11	CV and Resume Writing	3 rd of February 2020
12	Executive Committee meeting with Faculty Counselor	5 th of February 2020
13	Industrial Tour: Visit to RISE Lab NUST	6 th of February 2020
14	Machine Learning Workshop	10 th of February 2020
15	LQR (Linear Quadratic Regulator) based Control of 5 th Generation Aircraft	11 th of February 2020
16	International Day of Women and Girls in Science	11 th of February 2020
17	All Things Tech	12 th of February 2020
18	MATLAB Workshop	12 th of February 2020
19	All Council Meeting	15 th of February 2020
20	National Women's Day: Role of Youth in Raising the Demand for Police Reforms and Gender Sensitive Police	18 th of February 2020
21	Induction Drive 2k19-2k20	20 th of February 2020
22	Vision Management and Career Counseling	24 th February 2020
23	Hydro-Electric Power Management of Indus Basin: An optimization perspective	27 th of February 2020
24	IEEE Teacher In-Service Program (TISP), IEEE Islamabad Section	29 th of February 2020
25	Super-computing System Architectures and Trends	1 st of March 2020
26	All Council Meeting	2 nd of March 2020
27	“The Art of Speaking”: A Public Speaking Workshop	3 rd of March 2020
28	MOU Signing Ceremony between U.S. Embassy and FJWU	3 rd of March 2020
29	Arduino Workshop	5 th of March 2020
30	Modeling and Simulation of Agriculture drone	5 th of March 2020
31	International Women's Days 2020	8 th of March 2020
32	Discussion about future progress of society	10 th of March 2020
33	Girls can STEM	10 th of March 2020
34	IEEE Riphah Computer chapter Registration Desk	11 th of March 2020

35	Seminar on ‘Overcoming Mental Stress’	11 th of March 2020
36	Coronavirus Outbreak: Preventions and Precautions	12 th of March 2020
37	System Verilog for Verification	12 th of March 2020
38	Awareness Session on IEEE	13 th of March 2020
39	Women Can STEM	13 th of March 2020
40	CUST and CUI Student Branch Meeting	13 th March 2020
41	Consensus Control of Nonlinear Multiagent Systems using Communication Topologies	13 th March 2020
42	IEEE CSS Ex-Com Meeting	17 th of March 2020
43	Branch Meeting	18 th of March 2020
44	PICSION – Virtual Infographics Competition	11 th of April 2020
45	Webinar on Hazards of Confined Space in Industries	16 th of April 2020
46	Webinar on Modern Industry Trends	23 rd of April 2020
47	Webinar on Scientific Writing for Impact Factor Journals	25 th of April 2020
48	Webinar on Powerful Strategies for Your Best Future Self	25 th of April 2020
49	Webinar on Powerful Strategies for Your Best Future Self	7 th of May 2020
50	Essay Writing Competition	19 th of May 2020
51	The Science of wellbeing: How to be Happy?	23 rd of May 2020
52	IEEE Islamabad Section Webinar	10 th of June 2020
53	The 5 levels of leadership	19 th of June 2020
54	Carrier Opportunities for Engineers in USA	27 th of June 2020
55	Membership Drive Spring 2020	6 th of July 2020
56	Dexamethasone: Cure for Corona?	12 th of July 2020
57	Introduction to GSM	12 th of July 2020
58	Oath Taking Ceremony for Mai Body IEEE-SB CUI Abbottabad	16 th of July 2020
59	General Body Meeting 2020	17 th of July 2020
60	Fundamentals of SQL Injection	17 th of July 2020
61	Annual General Body Meeting	19 th of July 2020
62	Final Year Project Guidelines	19 th of July 2020
63	Annual General Meeting	19 th of July 2020
64	IEEE Membership Drive Spring 2K20 (Phase II)	20 th of July 2020
65	Python for Beginners	20 th of July 2020
66	Session on vTools	24 th of July 2020
67	How to FYP?	25 th of July 2020
68	Volunteer Training on IEEE Tools	26 th of July 2020
69	Career Counselling for Study Abroad Scholarships	27 th of July 2020
70	Awareness Session on COVID-19	29 th of July 2020
71	Digital Design Road Show	6 th of August 2020
72	How to switch your career to design	6 th of August 2020
73	Transitions from Student to Worker-Key skills	7 th of August 2020
74	Resolving User Challenges using Design	7 th of August 2020
75	UI Design and Visual Elements	8 th of August 2020

76	Digital Design Roadshow	8 th of August 2020
77	Modern Design Tools	9 th of August 2020
78	Prototyping, Testing and Feedback	13 th of August 2020
79	Design System and Microsoft Fluent Design	14 th of August 2020
80	Exploring Pakistan Design Industry	15 th of August 2020
81	Webinar on FYP Guidelines for Software Engineering Students	27 th of August 2020
82	Embedded Systems in Modern World	28 th of August 2020
83	Internet of Things	31 st of August 2020
84	PLC and HMI Basic Training for Beginners	3 rd of September 2020
85	Introduction to Application Development through Flutter	12 th of September 2020
86	IEEE Promotional Session at ECE Department Orientation Fall 2020	14 th of September 2020
87	Leaders Hackathon	17 th of September 2020
88	How freelancing and outsourcing works	19 th of September 2020
89	Branch Meeting for discussing SYWLC Cultural Contest Video	22 nd September 2020
90	IEEE Membership and its Benefits	24 th of September 2020
91	Digital Transformation	26 th of September 2020
92	Attended SYWLC2020 IEEE Region 10 SYWLC Virtual Congress 2020	1 st of October 2020
93	IEEE Day Games	6 th of October 2020
94	Less Code, More Power	7 th of October 2020
95	CPD Activity: Hands on Workshop on the Internet of Things (IoT) using Arduino	10 th of October 2020
96	Android Application Development using JAVA	10 th of October 2020
97	Mentoring the Mentee	11 th of October 2020
98	CSS Chit Chat with Rao Aftab Azeem	17 th of October 2020
99	CYBER CRIMES: Is it possible to guarantee privacy and security?	17 th of October 2020
100	Reset to Rise: Empowering women in STEM	18 th of October 2020
101	Immersing into Microsoft Power Automate – Local Hack Day	18 th of October 2020
102	IEEE Day Celebration	4 th of November 2020
103	Partnership with Astral Technologies	5 th of November 2020
104	Orientation 2020	7 th of November 2002
105	Post-Pandemic Transition	10 th of November 2020
106	Webinar on IoT	19 th of November 2020
107	Python for Everyone	19 th of November 2020
108	Inductions 2020	30 th of November 2020
109	Webinar: Modern Trend in GRS	2 nd of December 2020
110	Learning JavaScript from scratch	5 th of December 2020
111	General Body Meeting 2020	11 th of December 2020
112	Graduate Mentoring Programme	21 st of December 2020
113	Webinar on Industrial Automation	24 th of December 2020

114	Innovative Conference in Electrical and Electronic Engineers	27 th of December 2020
115	Hult Prize	27 th of December 2020

B5: Affinity Group Activities

Young Professionals

IEEE YP TEAM PARTICIPATED IN IEEE YOUNG PROFESSIONALS LEADERSHIP CONFERENCE 2020 18 JANUARY 2020

It was IEEE Pakistan YP Event in which IEEE YP members from all over Pakistan participated. During 2-days event there was a number of technical and nontechnical eventer for YP members. IEEE YP Islamabad section team fully participated in this event.

IEEE YP TEAM MEETUP 15 FEBRUARY 2020

The event was about the IEEE YP Islamabad team meeting. In this meetup, IEEE Islamabad YP team was called for planning and discussion for future events.

IEEE YP AND IEEE GRSS EXECUTIVE MEETUP 14 MARCH, 2020

An IEEE YP and IEEE GRSS Executive meeting to explore the opportunities that we can avail in collaboration.

IEEE YP TEAM MEETUP 1ST JULY 2020

It was a follow-up meeting to discuss the progress activities in of IEEE YP Islamabad.

IEEE CAREER OPPORTUNITIES FOR ENGINEERS IN GERMANY WITH INDUSTRIAL RELATIONS 11 JULY 2020

It was an online event to spread awareness about the opportunities in Germany that students can avail who live in Pakistan e.g. scholarships, career opportunities, etc

ATTENDED SYWLC2020 IEEE REGION 10 SYWLC VIRTUAL CONGRESS 2020

SYWLC2020 ended successfully @ Region 10 SYWLC 2020 Closing Ceremony on the 4th October 2020 (Sunday): 3:00 PM – 4:30 PM (Bangkok Time, GMT+7).

Marvellous Work and Great Appreciation to all Participants, Organizers, Moderators, Speakers, Panelists, Team Leads & finally ALL IEEE MEMBERS.

IEEE YP, IEEE SIGHT, SSR MEETUP 11 NOV 2020

In this meeting IEEE YP ISB and IEEE Sight ISB discuss some humanitarian projects.

IEEE YP AND IEEE SIGHT MEETUP WITH MANSOOR MALIK 12 NOVEMBER, 2020

The event was with Mansoor Malik (IEEE Islamabad Section founding member). The purpose of the meeting to discuss entrepreneurial opportunities in Pakistan.

LEARN FROM THOSE WHO KNOW 7 DECEMBER 2020

It was an event that was called to spread awareness about freelancing. A brief introduction was delivered and explain how some start his career as a freelancer.

STUDENT TRANSITIONS ELEVATION PROGRAM 2020, 8 DECEMBER 2020

It was a freelancing workshop. In this session hand on experience of making a freelancing account and bidding was provided.

B10: Community Activities

C.1 Special Events

- Please briefly describe the importance of special events and the outcomes achieved
 - IEEE Leaders Hackathon
- Funding secured from the IEEE and external sources including sponsorships
 - IEEE Region 10 SAC

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

- Nature of relationship and details of any formal agreement signed
- Details of joint activities
- Benefit to IEEE members (for example discounts, access to technical information etc.)
- Benefit to Section (for example help in membership development, venue facilities, cost saving etc.)

C3. Collaboration with other IEEE Sections

- Support extended to neighboring Sections
 - IEEE Karachi Section
 - IEEE Bangladesh Section
 - IEEE Srilanka Section
- Joint activities with any other Section
 - Membership Development Webinars with Karachi Section

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

- Support extended for organising technical, educational and professional activities
 - Matching Fund of \$100_ IEEE Islamabad Section Leadership Summit 2019
 - Matching Fund of \$100_ IEEE SAC Joint Initiative Fund 2019

- Joint activities for membership development
 - COMSATS Wah Student Branch
 - Institute of Space and TEchnology
- Support extended for the formation of a Sub-section or transition of a Sub-section into a full Section

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

- Membership Development
- Meetings of SAC
- Meetings by YP

PART D - GOALS AND PLANS

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

Islamabad section is gradually maturing the process of conference approval and monitoring. As a result, the review quality of the conference has improved. The section is also formulating its SOP for financially supporting the selected conferences. Section provides jump start funding to newly formed society chapter during first year/

D.2 Goals and Future Plans

Section plans to acquire easychair registration to support the conferences sponsored by the section