IEEE Islamabad Section

PART A - SECTION SUMMARY

A.1 Executive Summary

- Section Executive Committee Member List

Position	Member Name
Chairperson	Dr. Muhammad Uzair Khan
Vice Chair Islamabad Section	Dr. Gulistan Raja
Treasurer Islamabad Section	Dr. Muhammad Arshad Islam
Secretary Islamabad Section	Mr. Ahsan Farooqui
Chair Publications	Dr. Haider Abbas
Chair Awards and Recognitions	Dr. Muhammad Haroon Yousaf
Chair Conference Activities	Dr. Muhammad Tariq
Chair Educational Activities	Dr. Nosherwan Shoaib
Chair Professional Activities	Dr. Haroon ur Rashid
Industrial Relations Coordinator	Dr. Waheed ullah
Chair Peshawar Subsection	Dr. Salman Ahmed
SSR Islamabad Section	Mr. Umair Ashraf Toor
SSR Peshawar Subsection	Mr. Usman Haider
YP Chair	Mr. Muzamil Mehmood

- Section Highlights
  - Statistics
    - 7 society chapters (4 joint chapters) in section
    - 501 Student Members
    - 265 Members
    - 85 Graduate Student Members
    - 109 Senior Members
    - 3 Life Senior Members
    - 1 Life Member
    - 31 Student branches
    - 19 student branch society chapters
    - 17 student WIE Affinity groups
- Major Events (International, National)
  - **9 conferences were arranged**
    IEEE Islamabad Section technically sponsored 9 conferences in the year 2022
  1. 2022 International Conference on Cyber Warfare and Security (ICCWS)
  2. 2022 International Conference on Frontiers of Information Technology (FIT)
  3. 2022 International Conference on Recent Advances in Electrical Engineering & Computer Sciences (RAEE & CS)
  4. 2022 24th International Multitopic Conference (INMIC)
  5. 2022 2nd International Conference on Artificial Intelligence (ICAI)
  6. 2022 19th International Bhurban Conference on Applied Sciences and Technology (IBCAST)
  7. 2022 2nd International Conference on Digital Futures and Transformative Technologies (ICoDT2)
  8. 2022 14th International Conference on Software Knowledge Information Management and Applications (SKIMA)
  9. 2022 17th International Conference on Emerging Technologies (ICET)

- Major Chapter Activities
  - Computational Intelligence Society won grants of $6400 for summer school and other initiatives and $1500 for chapter project.
  - IEEE AP/MTTS/AP/EMC/CAS won grants over PKR 1M to arrange conferences, webinars and other activities
  - Detailed activities are mentioned in fields below
- Major Student and Affinity Group Activities
  - Islamabad Section Leadership Summit
  - Islamabad Section congress
  - Detailed activities are mentioned in fields below

- Awards:
  - Region 10 Outstanding Medium Section Award
  - IEEE Riphah University FC Student branch has won the IEEE R10 Exemplary Student Branch Award 2022

Type of Event	Number of Events
Excom Meetings	4
SAC Team Meet	4
Society Chapter Excom Meetings	4
Section AGM	1

Administrative Reports

Event Title	Event Date	Number of Attendance
IEEE Islamabad Section Excom Meeting March 2022 : Islamabad Section	03-03-22 18:00	23
IEEE CSS Pakistan Chapter - Executive Committee Meeting : Islamabad Lahore Karachi Jt. Sections Chapter CS23	17-03-22 13:30	9
IEEE AP03/MTT17/EMC27/CAS04 ADMINISTRATIVE COMMITTEE (ADCOM) MEETING March 2022 : Islamabad Sect Jt. Chapter,AP03/MTT17/EMC27/CAS04	21-03-22 15:00	10
IEEE Islamabad Section Excom Meeting June 2022 : Islamabad Section	17-06-22 18:00	30
IEEE AP03/MTT17/EMC27/CAS04 ADMINISTRATIVE COMMITTEE (ADCOM) MEETING July 2022 : Islamabad Sect Jt. Chapter,AP03/MTT17/EMC27/CAS04	18-07-22 14:00	10
IEEE Islamabad Section Excom Meeting September 2022 : Islamabad Section	02-09-22 18:00	21
IEEE AP03/MTT17/EMC27/CAS04 ADMINISTRATIVE COMMITTEE (ADCOM) MEETING September 2022 : Islamabad Sect Jt. Chapter,AP03/MTT17/EMC27/CAS04	26-09-22 11:00	10
IEEE AP03/MTT17/EMC27/CAS04 ADMINISTRATIVE COMMITTEE (ADCOM) MEETING Nov 2022 : Islamabad Sect Jt. Chapter,AP03/MTT17/EMC27/CAS04	07-11-22 11:00	10
IEEE Islamabad Section Excom Meeting November 2022 : Islamabad Section	18-11-22 18:00	23

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

Task Number | Task Name	Sum
4.85.000 | 000 Grants & Awards	1255250
4.70.000 | 000 Professional Activities	107250
4.80.040 | 040 Student Awards	87850
6.20.000 | 000 Other	340211
5.30.000 | 000 Salaries	112000
3.70.000 | 000 Other	1650962
6.31.000 | 000 Student Branch Rebate Disbursement	156400
2.50.000 | 000 Conference Revenue	698000
Total (In Pakistan Rupees)	4407923

PART B - ORGANIZATIONAL ACTIVITIES

B.1 Membership Development Activities

- Total number of active members in the past 3 years.
- Summary and evidence of work done to improve the value of membership, which leads to retention and growth of members

Student Member	501
Graduate Student Member	85
Member	265
Senior Member	109
Associate Member	7
Life Senior	3
Affiliate	5
Life Member	1

- **MD Activities in 2022:**
    - Membership Development collocated with SAC and other events
    - Supervised Internships Program through IEEE R10 MDC Project
        a. 16th June 2022 to 31st August 2022 (10 participants)

- **SWOT Analysis:**
    - Won R10 MDC Project "An Initiative for Skill Development, Membership Development and Retention in IEEE Islamabad Section" in 2022.
    - Won IEEE SPS Seasonal School "CVAR" under Membership Drive Initiative.
    - Low IEEE membership count at R10 Level
    - Low trend of promotion to Senior Member
    - Engage different technical societies on-board under IEEE umbrella.
- **MD Activities Plan for 2023:**
    - Membership Recruitment Drive (on-site + Online)
    - Promotion of Professional Members to Senior Members (Online)
    - Student Transition Elevation Program (STEP) (On-site + Online)

B.2 Chapter Activities

- Total number of Chapters in the Section

OU Type	Counts
Chapters	3
Joint Chapters	4

- Number of Chapters formed in the current year

OU Name OU Type	OU Type
Islamabad Section Computational Intelligence Society	Society Chapter
Ghulam Ishaq Khan Inst of Eng Power & Energy Society	Student Branch Technical Chapter
Riphah University FC CIS	Student Branch Technical Chapter

- Number of active Chapters (Chapters who have reported required number of meetings during the year)
- Summary of Chapter activities (Chapter wise with attachment table/information)

- The summary on the activities held by chapters/joint chapters is given as follows:

Event Title	Event Date	Number of Attendance
Webinar on Software Testing & Quality Assurance : Islamabad Section Chapter, C16	06-01-22 10:30	10
Webinar on Technical Writing : Islamabad Section Chapter, C16	16-02-22 10:00	9
Invited Talk on Interpreting Quantum Mechanics• : Islamabad Sect Jt. Chapter,AP03/MTT17/EMC27/CAS04	09-03-22 11:00	45
Technical Talk: Resilient Predictive Control for Cyber-Physical Systems under Denial-of-Service Attacks : Islamabad Lahore Karachi Jt. Sections Chapter CS23	16-03-22 13:30	12
Technical Talk: LMI-Based Hâˆž Control of Quadrotor and its Implementation : Islamabad Lahore Karachi Jt. Sections Chapter CS23	16-03-22 15:00	9
IEEE CSS Pakistan Chapter - Executive Committee Meeting : Islamabad Lahore Karachi Jt. Sections Chapter CS23	17-03-22 13:30	9
IEEE AP03/MTT17/EMC27/CAS04 ADMINISTRATIVE COMMITTEE (ADCOM) MEETING " March 2022 : Islamabad Sect Jt. Chapter,AP03/MTT17/EMC27/CAS04	21-03-22 15:00	10
IEEE CIS Summer School 2021 : Islamabad Section Chapter,CIS11	25-03-22 10:00	131
Interaction with Local Industry : Islamabad Section Chapter,CIS11	25-03-22 10:00	101
Technical Talk: AI-Based Anomaly Detection Mechanism for Detection of Energy Theft and Malfunctioning : Islamabad Lahore Karachi Jt. Sections Chapter CS23	29-03-22 13:30	8
Interactive Session on Robotics : Islamabad Lahore Karachi Jt. Sections Chapter CS23	30-03-22 15:30	20
Technical Talk: Security Analysis of Adam-5630 Programmable Logic Controller : Islamabad Lahore Karachi Jt. Sections Chapter CS23	05-04-22 11:30	9
Velocity and Route Optimization for Fleet of EVs : Islamabad Lahore Karachi Jt. Sections Chapter CS23	06-04-22 14:00	6
Design and Development of a Threat Intelligence Platform for Security of Industrial Control Systems : Islamabad Lahore Karachi Jt. Sections Chapter CS23	12-04-22 11:30	7
Freelancing and Self Study : Islamabad Lahore Karachi Jt. Sections Chapter CS23	13-04-22 14:00	12

Detection of Cyber-Attacks on SCADA Systems Using the Kalman Filter : Islamabad Lahore Karachi Jt. Sections Chapter CS23	19-04-22 11:30	6
Range Maximization of Subsonic Unpowered Gliding Vehicle using DS Simulia iSight : Islamabad Lahore Karachi Jt. Sections Chapter CS23	20-04-22 14:00	6
Technical Talk: Secure control of cyber physical systems under arbitrary denial-of-service attacks : Islamabad Lahore Karachi Jt. Sections Chapter CS23	26-04-22 11:30	7
Resilience and Safety in Task Execution by a Multi Agent System : Islamabad Lahore Karachi Jt. Sections Chapter CS23	27-04-22 14:00	7
Technical Talk: Sampled-Data H2 and Hâˆž Control under Non-uniform Sampling and Variable Communication Delay : Islamabad Lahore Karachi Jt. Sections Chapter CS23	10-05-22 13:30	7
IEEE Seminar on HEC Policies for Enhancing Higher Education in Pakistan : Islamabad Sect Jt. Chapter,AP03/MTT17/EMC27/CAS04	11-05-22 11:00	270
Switching Control of Non-Uniformly Sampled Systems using the Youla-Kucera Parameterization : Islamabad Lahore Karachi Jt. Sections Chapter CS23	17-05-22 13:30	10
Interactive Session on Robotics : Islamabad Lahore Karachi Jt. Sections Chapter CS23	18-05-22 15:30	14
Web It : Islamabad Section Chapter, C16	20-05-22 8:00	157
Software Analysis & Design Challenge : Islamabad Section Chapter, C16	20-05-22 9:00	47
UI/UX Mobile Design Contest : Islamabad Section Chapter, C16	20-05-22 9:30	45
IEEE Seminar on Design & Applications of Oscilloscope : Islamabad Sect Jt. Chapter,AP03/MTT17/EMC27/CAS04	20-05-22 9:30	37
TechEd Event Report : Islamabad Section Chapter, C16	20-05-22 11:00	57
Mobile App Development : Islamabad Section Chapter, C16	20-05-22 11:02	122
Game Jam (Unity 2D/3D) : Islamabad Section Chapter, C16	21-05-22 8:00	17
Capture the Flag : Islamabad Section Chapter, C16	21-05-22 11:00	36
Code Studio Event Report : Islamabad Section Chapter, C16	21-05-22 11:00	77
2022 IEEE Instrumentation & Measurements Competition : Islamabad Sect Jt. Chapter,AP03/MTT17/EMC27/CAS04	23-05-22 14:00	37
An Industrial IoT framework for overall equipment effectiveness (OEE) Monitoring : Islamabad Lahore Karachi Jt. Sections Chapter CS23	01-06-22 13:30	10
An Evaluation of 10 KW on Grid Solar System : Islamabad Lahore Karachi Jt. Sections Chapter CS23	01-06-22 15:30	11
Non-Linear MHD Jeffery Hamel Model using the Artificial Neural Network Approach : Islamabad Lahore Karachi Jt. Sections Chapter CS23	08-06-22 15:30	10
Introduction to Cloud Computing and DevOps : Islamabad Lahore Karachi Jt. Sections Chapter CS23	15-06-22 15:30	7
Demonstration of Crazy Flies Swarm Implementation : Islamabad Lahore Karachi Jt. Sections Chapter CS23	22-06-22 15:30	12
1st One day workshop on Digital Chip Design Using Cadence Design Tools : Islamabad Sect Jt. Chapter,AP03/MTT17/EMC27/CAS04	23-06-22 10:00	40
Analysis and Forecasting of Stock Time Series Data using CNN, RNN and LSTM based Deep Learning Model : Islamabad Lahore Karachi Jt. Sections Chapter CS23	29-06-22 15:30	6
UCG Simulator Integration with MATLAB For Control Purpose : Islamabad Lahore Karachi Jt. Sections Chapter CS23	06-07-22 15:30	5

IEEE AP03/MTT17/EMC27/CAS04 ADMINISTRATIVE COMMITTEE (ADCOM) MEETING " July 2022 : Islamabad Sect Jt. Chapter,AP03/MTT17/EMC27/CAS04	18-07-22 14:00	10
2nd One day workshop on Digital Chip Design Using Cadence Design Tools : Islamabad Sect Jt. Chapter,AP03/MTT17/EMC27/CAS04	19-07-22 9:00	35
Sampled-data H2 and Hâˆ control under non-uniform sampling and variable communication delay - Part2 : Islamabad Lahore Karachi Jt. Sections Chapter CS23	26-07-22 13:30	15
Secure Control of Cyber Physical Systems Under an Arbitrary Denial of Service Attack : Islamabad Lahore Karachi Jt. Sections Chapter CS23	02-08-22 13:30	13
Implementation of LMI based Robust Control for Quadroter with Payload : Islamabad Lahore Karachi Jt. Sections Chapter CS23	03-08-22 15:00	8
Demonstration of Vacuum Cleaner Robot : Islamabad Lahore Karachi Jt. Sections Chapter CS23	10-08-22 15:00	11
Deep Reinforcement Learning based Multi-Agent Pursuit-Evasion Scheme : Islamabad Lahore Karachi Jt. Sections Chapter CS23	16-08-22 13:30	10
Analysis and Forecasting of Stock Time Series Data using CNN, RNN and LSTM based Deep Learning Model : Islamabad Lahore Karachi Jt. Sections Chapter CS23	17-08-22 15:00	9
IEEE AP-S & HAC Workshop on Engage Orphans via Technology• : Islamabad Sect Jt. Chapter,AP03/MTT17/EMC27/CAS04	22-08-22 9:00	45
Analysis of Nonlinear Systems : Islamabad Lahore Karachi Jt. Sections Chapter CS23	24-08-22 15:00	7
Terraform and Docker : Islamabad Lahore Karachi Jt. Sections Chapter CS23	31-08-22 15:00	9
IEEE MTT-S Distinguished Microwave Lecturer Talk on Distributed Phased Arrays: Challenges and Recent Progress• : Islamabad Sect Jt. Chapter,AP03/MTT17/EMC27/CAS04	07-09-22 16:00	35
IEEE Workshop on Electromagnetic Compatibility and Interference (EMC/I) : Islamabad Sect Jt. Chapter,AP03/MTT17/EMC27/CAS04	21-09-22 9:00	30
IEEE AP03/MTT17/EMC27/CAS04 ADMINISTRATIVE COMMITTEE (ADCOM) MEETING " September 2022 : Islamabad Sect Jt. Chapter,AP03/MTT17/EMC27/CAS04	26-09-22 11:00	10
WordPress and Shopify : Islamabad Lahore Karachi Jt. Sections Chapter CS23	28-09-22 15:00	10
Invited Talk on Pakistan-Italy Diplomacy : Islamabad Sect Jt. Chapter,AP03/MTT17/EMC27/CAS04	06-10-22 10:00	75
Optimal trajectory of Gliding Vehicle : Islamabad Lahore Karachi Jt. Sections Chapter CS23	06-10-22 15:00	6
Introduction to Sequential Quadratic Programming : Islamabad Lahore Karachi Jt. Sections Chapter CS23	13-10-22 15:00	8
Interior-point methods : Islamabad Lahore Karachi Jt. Sections Chapter CS23	20-10-22 15:00	5
IEEE MTT-S Distinguished Microwave Lecturer Talk on Portable Radar Systems for Life Activity Sensing, Anomaly Detection and Human Tracking• : Islamabad Sect Jt. Chapter,AP03/MTT17/EMC27/CAS04	22-10-22 11:00	40
Basics of Optimization Techniques : Islamabad Lahore Karachi Jt. Sections Chapter CS23	27-10-22 15:00	10
IEEE AP03/MTT17/EMC27/CAS04 ADMINISTRATIVE COMMITTEE (ADCOM) MEETING " Nov 2022 : Islamabad Sect Jt. Chapter,AP03/MTT17/EMC27/CAS04	07-11-22 11:00	10

IEEE Seminar on Innovation & Entrepreneurship : Islamabad Sect Jt. Chapter,AP03/MTT17/EMC27/CAS04	28-11-22 11:00	20
IEEE MTT-S Distinguished Microwave Lecturer Talk on Fundamentals of RF and mm-Wave Power Amplifier Designs• : Islamabad Sect Jt. Chapter,AP03/MTT17/EMC27/CAS04	01-12-22 15:00	20
2022 IEEE International Seminar on Women in Circuits & Systems (WiCAS) : Islamabad Sect Jt. Chapter,AP03/MTT17/EMC27/CAS04	15-12-22 10:00	70
Campaign'2 "ROLE OF IEEE IN PROFESSIONAL & PERSONAL GROWTH" : Karachi Section Chapter,IE13	17-12-22 10:00	110
Beyond 5G Beamformers: Lean towards Smart Radio Environment : Islamabad Sect Jt. Chapter,AP03/MTT17/EMC27/CAS04	19-12-22 14:00	15
Eco-driving Control of Electric Vehicle with Realistic Constraints : Islamabad Lahore Karachi Jt. Sections Chapter CS23	22-12-22 15:00	4
Multi-Agent Systems: Application and Challenges in Control Domain : Islamabad Lahore Karachi Jt. Sections Chapter CS23	29-12-22 16:00	10
Nonlinear System Identifications of Underground Coal Gasification (UCG) Process : Islamabad Lahore Karachi Jt. Sections Chapter CS23	12-01-23 15:00	12

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

OU type	Technical Activities Count
Chapter/Joint Chapter	26
Student Branch Chapter	37
Student Branch	56
WIE	43
Section	3

Budget:

- Section approved a sum of PKR 50,000 (USD 300) for newly made IEEE computational intelligence society chapter as the seed amount. The chapter also received fundings for summer schools

Technical Activities Count by OU

Organizational Unit	Count of Events	Sum of Attendees in total
Islamabad Sect Jt. Chapter,AP03/MTT17/EMC27/CAS04	14	760
Islamabad Section Chapter,CIS11	8	283
Islamabad Lahore Karachi Jt. Section Chapter,RA24	1	50

Islamabad Section	11	271
Islamabad Section Chapter, C16	11	150
Islamabad Section Chapter, GRS29	2	20
Islamabad Lahore Karachi Jt. Sections Chapter CS23	1	15

B.4 Students Activities

- Total number of Student Branches in the Section = 36
- Number of Student Branches formed in the current year = 4
- Section level student activities (student congress, paper and other contests, awards etc)

Activities
- SAC Leadership Summit 2022 at FAST Peshawar (Jun 2022)
- SAC Leadership Dialogue at COMSATS Islamabad (Aug 2022)
- IEEE Islamabad Section Joint Venture 2022 at UET Taxila (Sep 2022)
- ISYWSC-22 at FAST Islamabad (Dec 2022)

Meetings
- Peshawar Sub-Section Branch Chairs Meeting at FAST Peshawar (Jun 2022)
- Branch Chair and Branch Counselor Meeting 2022 at FAST ISB (Jul 2022)
- Branch Chairs Meeting. at Comsats Islamabad (Aug 2022)
- Virtual Peshawar Sub-Section Branch Chairs Meeting (Sep 22)
- Branch Chairs Meeting. at FAST ISB on ISYWSC 2022 (Dec 2022)

Membership Development - **IEEE Introductory Sessions at**

- COMSATS Attock (August 2022)
- FAST Peshawar (Sep 2022)
- Abdul Wali Khan University Mardan (Dec 2022)
- COMSATS Wah (Dec 2022)

- Number of active Student Branches (Student Branches who have reported required number of meetings during the year)

Serial Number	School Name
1	Capital University of Science & Technology
2	National University of Science & Technology (NUST)
3	COMSATS University Islamabad
4	Pakistan Institute of Engineering & Applied Sciences
5	Sir Syed Center for Advanced Studies in Engg Inst of Tech
6	National University of Modern Languages – Rawalpindi
7	Bahria University Islamabad
8	Riphah University FC
9	Riphah University Islamabad
10	COMSATS University Islamabad Wah Campus
11	Taxila University of Engg & Tech
12	Univ of Engg & Tech Peshawar
13	Mirpur University of Science & Technology
14	Ghulam Ishaq Khan Inst of Eng. Sciences
15	Military College of Signals
16	National Univ Computer & emerging Sci – Islamabad

	17	Shaheed Zulfiqar Ali Bhutto Ins of S&T - Islamabad

- Summary of Student Branch activities (Student Branch wise with attachment table/information)

NAMAL MIANWALI

SR No	Event Name	Date	Description
1	UI/UX Workshop	OCT 07,2022	The scope of web development and UI/UX designing is marked high in Pakistan as well as in foreign countries and there's a huge opportunity for the students to engage themselves in these kinds of workshops to enhance their skills. IEEE always aims to arrange technical and career-building events for students.
2	E-Gamming Competition	NOV 10,2022	IEEE continuing its legacy for online games competition arranged a gaming festival. The two most famous games PUBG and Call of Duty were part of this event. Students from different departments brought their teams and got registered for this amazing gaming fest.
3	IEEE Orientation NSB	NOV 19,2022	IEEE feels very pleasure to welcome new talented faces in our society. The society arranged an orientation session for the general body to give them the core norms of our society and how it works under the supervision of our Patrons. The general body 2022-23 was given a warm salutation by the chairperson, Mr. Tariq, with a very welcoming speech. Mr. Chairperson gave briefing regarding the future plans and also discussed the norms and working of the society.
4	Speed programming competition	DEC 12,2022	Speed Programming is a competitive programming competition in which one has to solve different logical problems using multiple programming languages. IEEE-NSB is very famous in arranging technical contests to polish the skills of the students so in order to provide the facilities to the students to polish their skills.
5	Full Stack web development	JAN 05,2023	The workshop was basically arranged to cover all the basic utilities and frameworks for Frontend and back end. Students learnt how to create a website from the ground up, as well as how to use popular web development tool. In this workshop the importance of web development was discussed and made the students vigilant that how it could help them in their career.

NUST IEEE SEECS:

SR No	Event Name	Date	Description
1	Research Art & Science	Feb 28,2022	Art is a delight to experience, from the intricacy of detail to the ideas that can be expressed through the simplest of words and visuals. As beautiful as art is, it is an avenue of human existence that gets overshadowed by the practical, objective and life-changing advances of science. Science, the objective, and art, the subjective, two seemingly different worlds that have little connection to one another. But the relationship between science and art goes deep to the core. To explore and bring awareness to the intertwined nature of the two, IEEE-SEECS hosted a seminar on the topic "Research: Art and Science" on Monday, 28th February 2022 in SEECS Seminar Hall, with Dr. Syed Muhammad Kazmi as the speaker, one of Pakistan's finest Academics.
2	Speed Wiring	March 5th,2022	---------------------
3	Talk On Quantum Mechanics	March 9th,2022	The escalation of technology in contemporary times has ameliorated the world and has enabled us to bring life to the notions which once seemed impossible. In the plethora of such

			technologies, Quantum Mechanics emerges as a leading-edge technology which is heading the world towards the new paths of astounding innovations. Keeping up with the tradition of enhancing the fellow young minds, IEEE-SEECS hosted the esteemed and well-known nuclear scientist of Pakistan, Prof. Pervez Hoodhood to introduce us to the mystical world of 'quantum
4	Seminar On Industrial IOT	April 14th,2022	----------------------
5	Talk On HEC Policies	May 11th,2022	----------------------
6	Seminar on Happier Healthy life	May 30th,2022	----------------------
7	NUST IEEE Recruitment Drive	Oct 26th,2022	----------------------
8	Meeting For CLUB Orientation Meeting	Nov 2nd,2022	----------------------
9	NUST IEEE EXCOM MEETING	Nov 9th,2022	----------------------
10	NUST IEEE CLUB ORIENTATION	Nov 23rd,2022	----------------------
11	Seminars On Women's	Dec 15th,2022	----------------------
12	AL TECH INT CONFERENCE	FEB 21ST-23RD,2023	----------------------

FAST NUCES ISLAMABAD

SR No	Event Name	Date
1	PCB WORKSHOP	Oct 5th,2022
2	MRS TECH SEMINAR	Oct 13th,2022
3	24th INMIC Conference	Oct 19th,2022
4	Robotics Seminar	Oct 26th,2022
5	Huawei Roadshow	Oct-Nov 30,1 ,2022
6	ISYWSC	3rd-5th Dec,2022
7	Industrial Visit	17th, Feb

Wah Engineering College

SR No	Event Name	Date
1	Inauguration Ceremony of IEEE	April 22,2022
2	Trip To Malam Jabba	Mar 19,2022
3	Techno Fest 22	May 31,2022
4	Carrier Professional Development	Mar 30,2022
5	Introduction to Machine Webinar	Nov 1,2022
6	Card Ceremony	Dec 5,2022
7	CPD	Dec 6,2022
8	CPD	Dec 30,2022
9	Welcome Party	Jan 03,2023

CASE University

SR No	Event Name	Date
1	Industrial Visit	07-01-22
2	Photoshop Workshop	28-12-22
3	Workshop How to Design Mobile Robot	20-3-22
4	In it to Win it	15-3-22
5	Alumni Market Experience	16-03-22
6	Freelancing & Communication Skills	
7	After Effects & Basic Animations	26-10-22
8	Flutter Development	12-10-22
9	CASEMUN	05,06-1-23

IIUI SB:

SR No	Event Name	Date
1	Workshop Wireless Communication	16-3-22
2	Hactoberfest	3-10-22
3	Machine Learning	23-11-22
4	Raspberry PI	2-12-22
5	Seminar On Future of EVs	3-12-2022

B.5 Affinity Group Activities

- Young Professional (YP)
- Women In Engineering (WIE)

Organizational Unit	Number of Events	Number of Attendees
Taxila Univ Of Engineering And Tech, WIE	35	3000
Capital University of Science & Technology,WIE	1	175
COMSATS University Islamabad, WIE	13	255
Riphah International University WIE	4	760
Riphah University FC,WIE	3	106
Pakistan Inst of Engineering&Applied Sciences,WIE	2	115

B.6 Awards & Recognition Activities

- Award constituted by the Section
  BEST STUDENT BRANCH: IEEE COMSATS ISB
  BEST STUDENT VOLUNTEER: UMAIR ASHRAF TOOR
  BEST WIE AG: WIE AG UET TAXILA
  BEST WIE AG VOLUNTEER: AYESHA ASGHAR
  BEST STUDENT TECHNICAL CHAPTER: PES UET TAXILA
  BEST STUDENT BRANCH (PESHAWAR SUBSECTION): COMSATS ABBOTTABAD
  BEST STUDENT VOLUNTEER (PESHAWAR SUBSECTION): USMAN HAIDER
- Special award given to IEEE FAST SB for organizing Islamabad Section congress
- Two special awards were given to Dr. Yasar Ayaz and Dr. Aamer Iqbal Bhatti for their long term services to IEEE and the field of engineering.
- Certificates were also awarded to SAC team and outgoing Excom.

Education Activities:

- IEEE AP-S & HAC Workshop on "Engage Orphans via Technology" 22-31 Aug. 2022 - NUST H-12 Campus. Approved Grant: USD $ 3000
- IEEE Capacity Building Workshop for School Teachers, 10th September 2022 - Riphah International University, Islamabad. Approved Grant USD 350
- Elderly People Fall Detection System Using Radar Technology - EPICS in IEEE, 31st October 2022. Approved Grant: USD $ 5400

- IEEE Women in Circuits & Systems Workshop, 15th Dec. 2022 - NUST H-12 Campus. Approved Grant: USD $ 2000
- Invited Talk on Pak-Italy Diplomacy by Italian Ambassador to Pakistan, H.E. Ambassador Andreas Ferrarese, 6th October 2022 - NUST H-12 Campus

- Please list all Awards and Recognitions received by the Section, and members in the Section, from R 10 and IEEE HQ during the year

Key Achievements:
▸ Islamabad Section won IEEE Region 10 Medium Section Award ▸ Won multiple Region 10 Grants in Educational Activities, SAC Activities and Membership Development Activities ▸ Won IEEE SPS Seasonal School on Computer Vision Applications in Robotics. ▸ IEEE Riphah University FC Student Branch has won the IEEE R10 Exemplary Student Branch Award 2022
Grants won:
▸ IEEE AP-S & HAC Workshop on "Engage Orphans via Technology" 22-31 Aug. 2022 - NUST H-12 Campus. Approved Grant: USD $ 3000 ▸ IEEE Capacity Building Workshop for School Teachers, 10th September 2022 - Riphah International University, Islamabad. Approved Grant USD 350 ▸ Elderly People Fall Detection System Using Radar Technology - EPICS in IEEE, 31st October 2022. Approved Grant: USD $ 5400 ▸ IEEE Women in Circuits & Systems Workshop, 15th Dec. 2022 - NUST H-12 Campus. Approved Grant: USD $ 2000 ▸ CIS Won USD $6400 for Summer School and USD $1500 for chapter project ▸

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

- Newsletter (name and number of issues in the year)
▸ **Activities : IEEE Newsletter Published**
 (Bi Annual)
-**July – December 2022 (In Progress)**
-**January – June 2022**

- Home page of Section: www.ieeeislamabad.org
- Islamabad Section has an active Facebook page and a Facebook Group.

B.8 Industry Relations

- Islamabad created a consortium between industry, academia and IEEE on its AGM. The consortium with work to bring industry personnel to university for 2 lectures in the regular semester per course.

- The consortium will work in this year and a pilot project will be run in first quarter.

B.9 Humanitarian Technology Activities

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

Event Title	Event Date	Organizational Unit
How to make a good CV & Resume : Taxila Univ of Engineering and Tech,PE31	02-01-22 17:00	Taxila Univ of Engineering and Tech,PE31
K-Electric Orientation, Job Opportunities and 7/11 Innovation Challenge : Taxila Univ of Engineering and Tech,PE31	14-03-22 13:10	Taxila Univ of Engineering and Tech,PE31
IEEE Ehsaas Drive 2.0 CUI : COMSATS University Islamabad	05-04-22 9:10	COMSATS University Islamabad
Visit of IEEE Student Branch CUI to Orphanage Home : COMSATS University Islamabad	23-04-22 10:00	COMSATS University Islamabad
Visit of IEEE Student Branch CUI to Old Age Home : COMSATS University Islamabad	24-04-22 10:30	COMSATS University Islamabad
Tree Plantation : National University of Modern Languages-Rawalpindi	11-05-22 9:00	National University of Modern Languages-Rawalpindi
Flood Relief Program : COMSATS University Islamabad, WIE	28-08-22 9:00	COMSATS University Islamabad, WIE
Breast Cancer Awareness Day '22 : Pakistan Inst of Engineering&Applied Sciences,WIE	13-10-22 11:00	Pakistan Inst of Engineering&Applied Sciences,WIE

B.10 Community Activities

- IEEE Social activities (Family day, IEEE day, Engineers Week)"

Event Title	Event Date	Organizational Unit
IEEE RAS CUI SP'22 Ice Breaking Session : COMSATS University Islamabad, RA24	11-03-22 13:45	COMSATS University Islamabad, RA24
IEEE RAS CUI SP'22 Ice Breaking Session : COMSATS University Islamabad, RA24	11-03-22 13:45	COMSATS University Islamabad, RA24
Chess Competition : COMSATS University Islamabad,PE31	20-03-22 10:00	COMSATS University Islamabad,PE31
Trip to Muskhpuri Top : COMSATS University Islamabad, WIE	28-05-22 8:40	COMSATS University Islamabad, WIE
The IEEE Day : Taxila Univ of Engineering and Tech	31-08-22 11:00	Taxila Univ of Engineering and Tech
IEEE CS CUI - Ice Breaking Session Fall 2022 : COMSATS University Islamabad,C16	30-09-22 15:00	COMSATS University Islamabad,C16
IEEE RAS CUI FA'22 Ice Breaking session : COMSATS University Islamabad, RA24	06-10-22 11:45	COMSATS University Islamabad, RA24
IEEE EMBS Ice Breaking Ceremony FAâ€™22. : COMSATS University Islamabad,EMB18	10-10-22 10:00	COMSATS University Islamabad,EMB18

IEEE Day : National University of Modern Languages-Rawalpindi	11-10-22 8:12	National University of Modern Languages-Rawalpindi
IEEE DAY 2022 : Pakistan Inst of Engineering & Applied Sciences	18-10-22 16:00	Pakistan Inst of Engineering & Applied Sciences

PART C - OTHERS

C.1 Special Events

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

- National Organization called CESAT (Centre of Excellence in Science & Applied Technologies) organizes a conference with IEEE Islamabad Section on yearly basis.
- A company called DICE Analytics provides trainings in field of AI and Big Data. IEEE Islamabad signed MOU with them to provide discounted trainings to IEEE Islamabad Section members.

C3. Collaboration with other IEEE Sections

- Islamabad Section participated in Pakistan Student/WIE/YP/Sight congress in Lahore Section. Islamabad section funded 30 students to attend the event and also helped section in promotions of the event
- A WhatsApp group is created with all 3 sections of Pakistan to better communicate with each other

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

Chair Peshawar subsection is the member of IEEE Islamabad Section Executive Committee. Our subsection is at the brink of getting enough resources to move to section. We will try to have more activities in subsection to enable it to move it towards being a full section. The following things are planned:
   o Promotion of student activities in the sub-section
   o Arranging membership development seminars in sub-section with focus on professional memberships.
   o Create value addition to engage professional and senior members in IEEE activities

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

- We use enotices to reach out to all members for all announcements
- We have also made several listserv mailing lists that help us communicate more effectively

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- Secretary is available to all members and interacts with most of them to ensure they are motivated.
- We made it compulsory for conference organizers to connect with a society chapter and should have a student branch in university.

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

PART D - GOALS AND PLANS

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

Please see response of D2.
s
D.2 Goals and Future Plans

Subsection:
- Our subsection is at the brink of getting enough resources to move to section. We will try to have more activities in subsection to enable it to move it towards being a full section. The following things are planned:
  - Promotion of student activities in the sub-section
  - Arranging membership development seminars in sub-section with focus on professional memberships.
  - Create value addition to engage professional and senior members in IEEE activities

Technical:
- Opening new society chapters:
  - A petition for IEEE AESS is submitted already and in process of getting votes. We will support new chapter their first year of work
- Workshops and seminar series to equip IEEE members with latest technologies are planned and will be executed in this year.

Humanitarian:
- We will allocate some funds dedicated to humanitarian activities both as students and at section level.

Membership Development:
- 4-5 membership development seminars are planned as our membership numbers almost bounced back to pre-covid numbers, now want to promote more.

Social:
- An annual social interaction event is under discussion to improve networking among IEEE members. The event will be at FAST University Islamabad.

Educational Activities:
- We conducted two activities with the help of IEEE R10. Now, we will move our TISP events to the other cities and especially rural areas where there is most need of these activities.

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

- Create a framework for local benefits. IEEE should provide SOP and details on how to incorporate and validate local benefits.

D.4 Business Plan for Sustainable Growth and Financial Stability.
- Engage more and more volunteers
- Work with National and Private organizations and try to resolve their pain points