

Annual Report

2022-2023



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Annexure A: IEEE Lahore Section Summary

A.1: Executive Summary

IEEE Lahore Section was formed as a full-fledged Section in 1964. Currently, it has five society chapters,

- IEEE Communication Society
- IEEE Power & Energy Society
- IEEE Industry Applications Society
- IEEE Computer Society
- Antennas and Propagation, Circuits and Systems, Microwave Theory and Techniques and Solid-State Circuits Joint Societies Chapter

And two joint chapters,

- IEEE Robotics & Automation Society
- IEEE Control System Society

There are 44 active student branches and 42 Active Student Branch Chapters in this section besides Young Professionals and WIE groups. IEEE Lahore Section have 4 Affinity Groups namely,

- IEEE Women in Engineering
- IEEE Young Professionals
- IEEE Consultant Network
- IEEE SIGHT

Student branches remained vibrant throughout the year 2021 and organized many activities.

The objectives of IEEE Lahore Section have been defined as under:

- To Provide a Platform for Networking
- To help in sharing knowledge and expertise at Local level
- To strengthen Industry-Academia Links
- To encourage and guide Student Activities
- To represent Lahore Section at international IEEE Forums

The affinity groups of Lahore Section namely YP, WIE and SIGHT were quite active and organized several activities.

The section membership is 795 in January 2022, much higher as compared to the last year's total of 757.

During the year 2022, Ten (10) Executive Committee meetings were held besides a few administrative meetings and technical events. In 2021, IEEE Lahore Section organized 7 international conferences

This year 12 awards and 3 Recognitions were announced for Lahore section by IEEE global committees and three Awards by IEEE Region-10 (Asia & Pacific).

A.2: Financial Report

Will be provided separately.

A.3: List of Executive Members

IEEE Lahore Section Executive Committee Members List.

Sr. No.	Name of Section Officer	Position
1	Dr. Amjad Hussain	Chair
2	Mr. Kashif Bashir	Vice-Chair
3	Dr. Muhammad Adnan Siddique	Gen. Secretary
4	Engr. Shahid Zulfiqar	Treasurer
5	Engr. Muhammad Hamza Ihtisham	SAC Chair, (Students Activity Committee)
Past Chair		
6	Engr. Shahzeb Rathore	Past Chair

IEEE Lahore Section Extended Committee Members List.

Sr. No.	Name of Section Officer	Position
7	Dr. Waqar Mahmood	Chair, IEEE Computer Society
8	Mr. Kashif Bashir	Chair, IEEE Communication Society
9	Mr. Shahid Zulfiqar	V.Chair, IEEE Power and Energy Society
10	Ms. Faiza Nasir	Chair, IEEE Industrial Application Society
11	Dr. Wajahat M. Qazi	V.Chair, IEEE RAS Pakistan
12	Dr. Wasif Tanweer	Interim Chair, Antennas and Propagation, Circuits and Systems, Microwave Theory and Techniques and Solid-State Circuits Joint Societies Chapter
13	Mr. Aftab ur Rehman	Chair, IEEE YP Lahore Section Affinity Group
14	Ms. Safoora Saleem	Chair, IEEE WIE Lahore Section Affinity Group
15	Dr. Muhammad Ghufraan	Chair, IEEE Consultant Network Lahore Section Affinity Group
16	Dr. Muhammad Ghufraan	Chair, IEEE Faisalabad Sub-Section
17	Dr. Ali Qureshi	Chair, IEEE Bahawalpur Subsection
18	Mr. Abdul Rehman	Section Student Representative 2021-2022

IEEE Lahore Section Additional Committee Members List.

Sr. No.	Name of Section Officer	Position
19	Dr. Adeel Pasha	Chair, Membership Development (MD) Committee
20	Dr. S. Waqar-ul-Quonain	Chair, Conferences Committee
21	Dr. Ali Afzal Malik	Chair, Awards and Recognition Committee
22	Dr. M. Atif	Chair, Professional Activities Committee

23	Mr. Ali Raza	Chair, Educational Activities Committee
24	Ms. Asma Basharat	Section Website Coordinator
25	Ms. Safoora Saleem	Facebook Admin
26	Dr. Sobia Baig	Member
27	Dr. Shafay Shamil	Member
28	Mr. Tanweer Bukhari	Member
29	Dr. Aasia Khanum	Member
30	Engr. M. Arslan Shahid	Member
31	Dr. Adnan Abid	Member
32	Dr. S. Atif Mehdi	Member
33	Dr. S. Aun Abbas	Member
34	Dr. Yasir Niaz Khan	Member

A.4: Memberships Statistics

IEEE Lahore Section's Past 10 Years Membership Statistics

Membership Grade	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013
Affiliate	3	-	1	-	1	3	4	-	-	-
Associate Member	9	4	-	10	23	8	8	13	7	18
Fellow Member	-	-	-	-	-	-	-	-	-	-
Graduate Student Member	99	124	95	88	78	70	66	64	47	33
Life Member	1	1	1	-	-	1	-	-	-	-
Life Senior	4	5	5	5	5	4	1	1	1	1
Member	323	240	161	266	346	263	258	260	254	236
Senior Member	61	49	46	39	28	13	11	11	10	12
Student Member	295	334	148	263	347	348	379	520	441	328
Total	795	757	457	671	852	710	728	869	760	628

A.5: IEEE Section's OU Statistics

IEEE Lahore Section OUs Count.

IEEE Lahore OUs	Count
IEEE Subsections <ul style="list-style-type: none">• IEEE Faisalabad Subsection• IEEE Bahawalpur Subsection	2
IEEE Lahore Section Technical Chapters <ul style="list-style-type: none">• IEEE Communication Society• IEEE Power & Energy Society• IEEE Industry Applications Society• IEEE Computer Society• Antennas and Propagation, Circuits and Systems, Microwave Theory and Techniques and Solid-State Circuits Joint Societies Chapter	5
IEEE Lahore Section Technical Joint Chapter <ul style="list-style-type: none">• IEEE Robotics & Automation Society• IEEE Control System Society	2
IEEE Lahore Section Affinity Groups <ul style="list-style-type: none">• IEEE Women in Engineering• IEEE Young Professionals• IEEE Consultant Network• IEEE SIGHT	4
IEEE Lahore Section Student Branches	44
IEEE Lahore Section Student Chapters	42
IEEE Lahore Section Student Affinity Groups	18
Total	117

A.6: Financial Report

Summary (as per submitted on NetSuite)

Expenses				
Sr	Office Name	Details	Allocated	Utilized
1.	SAC	For Student Activities Branch Events and OU Trainings	100,000	132,000
2.	MDC	Membership Development Activities	80,000	30,000
3.	COMSOC	COMSOC Society Budget	292,500	25,000
4.	YP	Young Professionals Activities	105,300	225,300
5.	WIE	Women in Engineering Activites	20,000	70,000
6.	Congress	Student/YP/WIE Congress IEEE FYP Competition	80,000	80,000
7.	AGM	Annual General Meeting 2021	70,000	74,946
8.	Meetings Entertainment	Section's Meetings	60,000	108,000
9.	Domains & Hosting		15,000	0
10.	Printing & Stationary		20,000	14,000
11.	Travel Support	Student Training & Meeting Travel Support Funds *R10 Congress or Section Congress other(Per Person : 50000)	50,000	442,000
12.	Travel Support	Sections Congress(triennial) & or any other Professional Traning per year cost	50,000	0
13.		Pakistan (ISB+KHI) average per year cost	80,000	150,000
14.	Shields		30,000	0
15.	Misc.		360,000	0
16.	Sub-Section Funds	Faisalabad Sub-section	180,000	180,000
		Total	1,969,380	1,531,246

Any other financial activities

Proposed Budget for Year 2023			
Sr.	Items	Details	Total
1	SAC	For Student Activities Branch Events and OU Trainings	100,000
2	MGA Rebate Through SAC	For Student Activities Branch Events and OU Trainings	108,240
3	MDC	Membership Development Activities	80,000
4	COMSOC	COMSOC Society Budget	150,000

5	PES	PES Activities	36,520
6	HAC	Humanitarian Activities Meetings & Trainings	49,500
7	YP	Young Professionals Activities	27,400
8	WIE	Women in Engineering Activities	20,000
9	Congress	Student/YP/WIE Congress IEEE FYP Competition	200,000
10	AGM	Annual General Meeting 2021	150,000
11	Meetings Entertainment	Section's Meetings	120,000
12	Domains & Hosting	IEEE Lahore Section Website	15,000
13	Printing & Stationary	Finance Office	20,000
14	Audit	Section Local Account	30,000
15	Travel Support	Sections Congress(triennial) & or any other Professional Training per year cost	15,000
16	INMIC 2023		200,000
17	IEEE Foundation Formation Expense		50,000
18	IEEE Lahore Section Office @UET		50,000
Total			1,421,660

Annexure B: IEEE Lahore Section Organizational Activities

B.1: IEEE Membership Development Activities

Membership Grade	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013
Affiliate	3	-	1	-	1	3	4	-	-	-
Associate Member	9	4	-	10	23	8	8	13	7	18
Fellow Member	-	-	-	-	-	-	-	-	-	-
Graduate Student Member	99	124	95	88	78	70	66	64	47	33
Life Member	1	1	1	-	-	1	-	-	-	-
Life Senior	4	5	5	5	5	4	1	1	1	1
Member	323	240	161	266	346	263	258	260	254	236

Senior Member	61	49	46	39	28	13	11	11	10	12
Student Member	295	334	148	263	347	348	379	520	441	328
Total	795	757	457	671	852	710	728	869	760	628

Summary and evidence of work done to improve the value of membership, which leads to retention and growth of members. During the year there were continual efforts to increase the membership and retain existing members. The student branches organized several introductory sessions for new students. Student volunteers have conducted motivational seminars and presented talks on the benefits of joining IEEE and establishing student chapters. A few new student branches were revived in the Lahore Section during the year 2022 IEEE FAST NU Student Branch, IEEE Lahore College of Women University and IEEE Government College University Lahore. Many new society chapters in student branches were established. IEEE Industrial Application Society (IAS) Chapter in Section and many chapters of IAS in student branches were established. IEEE Power and Energy Society (PES) Chapter in Section and many chapters of PES in student branches were established.

B.2: Chapter Activities

- Total number of Chapters in the Section: 7
- Number of Chapters formed in the current year: 1 (GRSS Petition Filed)
- Number of active Chapters (Chapters who have reported required number of meetings during the year): 4
- Summary of Chapter activities (Chapter wise with attachment table/information)

Chapter Name	Number of Activities
IEEE COMSOC Lahore Section Chapter	10
IEEE IAS Lahore Section Chapter	07
IEEE PES Lahore Section Chapter	06
IEEE Computer Society Lahore Section Chapter	02

B.3: Professional and Continuing Education Activities

B.3.1: IEEE SPS Seasonal School on Video Surveillance and Monitoring

IEEE Bahawalpur Subsection and IEEE SPS UCET IUB Student Branch organized IEEE SPS seasonal school at Islamia University Bahawalpur on 5-6 September 2022. The Theme of summer school was Video Surveillance and Monitoring. The event was inaugurated by Dr. Muhammad Ali Qureshi, Chair IEEE Bahawalpur Subsection, Mr. Kashif Bashir, Vice Chair IEEE Lahore Section and Chair IEEE ComSoc Lahore Chapter in presence of Dr. Asif Naveed Ranjha, Director Board of Advanced Studies & Research, The Islamia University of Bahawalpur (IUB), Pakistan, Dr. Faheem Mushtaq, Chairman Department of Artificial Intelligence, IUB, Mr. Shahid Durrani, Director Career Counseling and Placement Center, IUB other respected faculty members, and IEEE office bearers. The speakers and their talk topics during 2 days of summer school are as follow: Prof. Dr. Muhammad Haroon Yousaf explained different modern Computer Vision techniques and their use in video Monitoring. Prof. Dr. Usman Ghani Director National Centre of AI explain the deployment of innovative technology in surveillance cameras. Prof. Dr. Yasar explained a number of his projects and research topics on video surveillance for military and civil use. Drone video surveillance and monitoring during natural disaster management. Abdul Waheed Deputy Director (IT & Security) The Islamia university of Bahawalpur explained the importance of video surveillance by digital smart cameras. Dr. Faisal Bashir Senior Technical Team Leader Computer Vision, USA talked about computer vision & machine learning in video surveillance. Dr. Suryo Adhi Wibowo from Indonesia talked about object detection in several research fields like autonomous vehicle and drone. Dr. Mohib Ullah (Member, IEEE) is a Postdoctoral Research Fellow from Norway talked about Video scene analysis and understanding.

The city tour includes visit to the famous Lal Suhanra National Park Bahawalpur and historical Noor Mahal Palace.

The two-day seasonal school was concluded with award distribution ceremony and a group photo of the guests and participants. Dr. Muhammad Ali Qureshi, Chair IEEE Bahawalpur Subsection awarded the

shield of honor to the distinguished keynote speakers. The speakers were also presented cultural Siraiki Ajrak.



B.3.2: International Conference on Emerging Trends in Electrical, Control and Telecommunication Engineering (ETECTE)”

IEEE UOL organized first International Conference on Emerging Trends in Electrical, Control and Telecommunication Engineering (ETECTE) 2022” on 2-4 December 2022. The main purpose of the Conference to provide a platform for the researcher and faculty around the globe to share their ideas in the field of electrical, control and telecommunication. The ETECTE-2022 received 128 Research articles from different countries. Around 56 research articles presented in ETECTE-2022 by national and international authors. The Invited speakers were from Canada, Romania, China and Denmark. 3 tutorials were also part of the conference. Almost 200 plus student, faculty members, industry members from all over the world joined the Conference.

B.3.3: International Conference on Electrical Engineering and Sustainable Technologies (ICEEST 2022)

IEEE Communication Society Lahore Chapter with the technical collaboration of UOL organized first International Conference on Electrical Engineering and Sustainable Technologies (ICEEST 2022) on 14-15 December 2022. The ICEEST 2022 received 98 Research articles from different countries. Around 37 research articles presented in ETECTE-2022 by national and international authors. Speakers were invited from prestigious universities of Pakistan and other countries like US UK etc. Almost 290 plus student, faculty members, industry members from all over the world joined the Conference.

B.3.4: 16th International Conference on Open-Source Systems and Technologies (ICOSST) 2022

IEEE COMSOC Lahore Chapter in collaboration with Al-Khawarizmi Institute of Computer Science UET Lahore organized the 16th International Conference on Open-Source system and technologies ICOSST' 2022 on 14-15 December 2022. The Chief Guest of the opening ceremony was Chairman Punjab Higher Education Commission, Prof. Dr. Shahid Munir. Other distinguished guests included Chairman Higher Education Commission Dr. Mukhtar Ahmad, Chairman of PM Task Force on Science & Technology Dr. Atta Ur Rehman, CEO Netsole Technologies Pakistan Mr. Saleem Ghauri, Senior Vice Chairman PASHA CEO FRAG Games Ali Ihsan and also ISDB Partner from University of the Gambia Dr. Mbemba Hydera 71 research articles were received from various countries; only a handful top quality 18 papers were accepted by the Technical Evaluation Committee qualifying the merit-based criteria. Speakers were invited from prestigious universities of Pakistan and other countries like China, Australia, United Kingdom and Germany to deliver talks in the areas of Artificial Intelligence, Cyber Security, Big data & Cloud computing, Swam Robotics. The industrial exposition and recruitment drive were also arranged in ICOSST 2022. A panel discussion was also held '**Catching the Web 3.0 wave for Pakistan**. The distinguished panel comprised **Ahmed Muzammil, Fakhar Khan, Prof. Dr. Shoab Khan Prof. Dr. Usman Ghani Khan and Mr. Ahmed Baseer**.

The Chief Guest of the closing ceremony was VC UET Lahore. The prize money was distributed among the winners of Brainiac student competition. Almost 1000 plus student, faculty members, industry members from all over the world joined the.

B.4: Students Activities

- Total number of Student Branches in the Section: 42
- Number of Student Branches formed in the current year: 00
- Section level student activities (student congress, paper and other contests, awards etc)
 - IEEE Pakistan Student/Young Professional/Women in Engineering/SIGHT Congress 2022.
 - IEEE BRAINAC (Technical Poster Competition)
 - IEEE Lahore Section AGM Awards.
 - IEEE Pakistan Congress Awards.
- Number of active Student Branches (Student Branches who have reported required number of meetings during the year): 15

Summary of Student Branch activities

LEARN TO EARN FROM ALIBABA AS A FREELANCER

Superior University' in collaboration with Web Excels, Computer Science Club, Information Technology Club & Software Engineering Department is organizing a training session titled Learn to Eran from Alibaba as a Freelancer at Lab 5, Superior University Gold Campus on Wednesday , 23rd November 2022.

Mr. Shahbaz Siddique, CEO Web Excels will be the speaker for this training session.

He will apprise the students and faculty about working on Alibaba and how to earn from it. Web Excels will also giveaway 30,000 RS for the participants for this training session.

This training session is being organized in compliance with the United Nations Sustainable Development Goals especially Goal No. 8 - Decent Work & Economic Growth and Goal No. 17 - Partnerships for the Goals.

BLOCKCHAIN TRAINING SESSION

Superior IEEE CS chapter is going to organise a highly informative training session on "Blockchain". This training will be delivered by the renowned Blockchain Instructor "Mr. Ahmad Manzoor" CEO, Pakistan Block Chain Institute & Research Center.

Blockchain helps in the verification and traceability of multistep transactions. It can provide secure transactions, reduce compliance costs, and speed up data transfer processing. Blockchain technology can help contract management and audit the origin of a product.

Information Security Training Session

Superior IEEE CS chapter is organising a much needed training session on Information Security. This training will be delivered by the renowned Cyber Security Analysts Mr. Sajjid Hussain Raza (Senior Cyber Security and Digital Forensic & Consultant, Ethical Hacker & Pentester, Entrepreneur) and Mr. Muhammad Husnain Sarwar (Cyber Security Analyst, Ethical Hacker, Python Developer, Red Team Operator, Future Evangelist)

Information security is a set of practices designed to keep personal data secure from unauthorized access and alteration during storing or transmitting from one place to another.

IEEE CS Chapter, Superior University is working enthusiastically to promote Quality Education-under UN Sustainable Development Goals– SDG-1& SDG-5.

CYBER SECURITY AND ITS IMPORTANCE IN INDUSTRY TRAINING SESSION

IEEE Superior University Lahore Student Branch is organizing a training session titled ‘Cyber Security and its Importance in Industry Training’ at Lab 5, Superior Gold Campus on Thursday, 27th October 2022.

Mr. Khalid Hussnain, Senior Manager of Cybersecurity from Global, Germany will be the trainer at this session. Mr. Khalid will apprise the students about the importance of deploying the correct software-based protection technologies in order to control cyber breaches. The speaker will also inform the students that cyber security is a growing sector and that students pursuing a degree in the IT field should be aware of the job prospects in this vast industry.

This training session is being organized in compliance with the United Nations Sustainable Development Goals especially Goal No. 4 - Quality Education and Goal No. 9 - Industry, Innovation, and Infrastructure.

JETSON NANO FOR ACADEMIA TRAINING SESSION

Superior University’s IEEE Society has organising a training session on Jetson Nano where the students were introduced to advanced artificial intelligence applications and controllers enabling them to potentially take up AI-oriented projects and protocols.

Lecturer, Department of Electrical Engineering, Superior University, Mr. Shahzaib Hamid was the guest speaker at the session. Mr. Shahzaib is currently pursuing his PhD in Computer Vision and Machine Learning.

His main area of research is computer vision, NLP, RL and machine learning, the IoT, robotics and practical microcontroller applications

SUPERIOR PROGRAMMING GURU

Superior University's IEEE Computer Science Society is set to organise Superior Programming Guru on Thursday, May 12, 2022.

Superior Programming Guru is an intra-university coding competition focused on two coding languages: Python and C++. The competition has been designed to accentuate the individual technical skills of the students by providing them with a competitive experiential learning platform.

SUPERIOR PROJECT INNOVATION COMPETITION

Superior University 's IEEE Society is organizing an intra-university competition, **Superior Project Innovation** on Thursday, 23rd June 2022 at the Gold Campus.

The core objective of this hardware-based project competition is to initiate a spark in the student and test their abilities to conceptualize, develop and design technical and entrepreneurial solutions. Project innovation's role is to develop a project and find a new and better way to solve different technological challenges. Innovation does not always tackle a previously insoluble problem; it often solves an existing problem in a cheaper or better way.

This event is organized in compliance with the UN SDGs and especially the SDG number 9 which deal with the solutions to different technological problems faced by millions of people around the globe.

IEEE DESIGN THINKING SOLUTIONS COMPETITION

Superior IEEE Society's Power Energy Chapter is organizing an Intra University innovation competition titled **IEEE Design Thinking Solutions** at the Electrical Labs on the University's main campus on 24th August 2022.

The last day of the registration is the 23rd of August and each team can have a maximum of five participants. Each team can submit projects related to IT such as Computer, Engineering, Robotics, IoT, and Software fields. This competition will help the students in attaining important knowledge and useful insights into the global IT industry.

This competition is being held in compliance with the United Nations Sustainable Development Goals, especially Goal no. 4 - Quality Education and Goal no. 9 - Industry, Innovation, and Infrastructure.

Superior University's IEEE Society is pleased to announce on Campus Technical Summit: IEEE IAS National Robotics & Industrial Automation Summit 2022 with the idea of Empowering Innovation and Expanding Possibilities that will explore the transformative potential of automation, artificial intelligence, and the Internet of Things and the radical impact of these disruptive technologies on every aspect of human life. It's going to be a 1 Day Inter-university IAS Summit with students participating from different universities in Robo Code Competition, Pannel Talks, Seminars and Trainings. Each module in the IEEE IAS Summit will be hosted by profound speakers, who will guide you on relevant topics and cover all domains of Computing & technologies.

Students from 16+ universities participated in this event. Total number of participants were 300+. Event started with the welcome of guests. Our guests were Dr. Amjad Hussain (Chair, IEEE Lahore Section), Mr. Wahab Yunus (CEO PNY Group of Companies), Dr. Wajahat Qazi, Dr. Adnan Abid, Dr. Sohail Illyas, Dr. Yasir Niaz, Mr. Tanweer Bukhari etc. Inaugural Ceremony was hosted by Ms. Fatima Faizan, Finance Head IEEE CS Chapter. Inaugural Ceremony was started at 10:00 AM with Name of Allah Almighty. Mr. Arslan Azmat, General Secretary IEEE CS Chapter recited the Holy Quran. Dean CS & IT Faculty, Mr. Arfan Jaffar delivered a welcome note for all the guest & audience. Dr. Amjad Hussain, Chair IEEE Lahore Section Delivered a message note on IEEE in Inaugural Ceremony. Mr. Wahab Yunus, CEO PNY Group of Companies Delivered a message note on PNY & Robotics in Inaugural Ceremony. Dr. Sohail Illyas delivered a key note of 10 minute on Robotics, Artificial Intelligence & Automation in Inaugural Ceremony. Dr. Wajahat Qazi, Faculty Member COMSATS University Islamabad, Lahore Campus delivered his seminar on "Future of Artificial Intelligence & Healthcare" at Main Auditorium. Panel Discussion started after the end of Dr. Wajahat Qazi Seminar. Panel Discussion moderate was Mr. Rizwan Naqvi. Panelists were Dr. Adnan Abid, Dr. Asad Ali Naqvi, Dr. Yasir Niaz, Dr. Atif Mehdi & Mr. Tanweer Bukhari. Panel Discussion topic was Future Trends of AI & Robotics. After the completion of Panel Discussion, Award Ceremony was started. All the guest, panelist, HODs, Dean, Sponsor, Organizer & Collaborator Representative were awarded by Souvenir or Framed Certificate. Three Different training sessions were started at different venues on same. Industrial Automation Software Training Session was held in Lab 6 and delivered by Mr. Anees ur Rehman, CEO & Founder of AzadLife's. Robotics Training Session was held in Lab 5 and delivered by Mr. Rizwan Naqvi, Vice Chair IEEE IAS Lahore. AI & IA Training Session was held in Lab 7 and delivered by Mr. Zain Asif, Director of AI and BI Quantum IT Consulting. All the training session was started at 12:15 PM & Completed at 1:00 PM. Training session was delivered in the time span of 45 Minutes. IEEE Robotic Code Competition was started at 12:30 PM in Lab 1 – Lab 4. More than

300 students had participated from different universities like Superior University, UET Lahore, UET Narowal, UET Peshwar, FAST University, ITU etc. Closing Ceremony was started at 2:30 PM. Winner & Runner-up of IEEE Robotic Competition were announced. Winner got a prize cash amount of 10,000 RS & Runner-up got a prize cash amount of 5,000 RS. Different IEEE SUL Volunteers were appreciated by IEEE Lahore Section by Appreciation Token from them. We had completed three SDGs (Quality Education & Industry, Innovation and Infrastructure, Partnership for Goals). The workshop was completed successfully.

SUPERIOR TECHNICAL SYMPOSIUM 2022

Superior University's Faculty of Computer Science & Information Technology is organising Superior Technical Symposium 2.0 – powered by Superior IEEE Society – which is themed on Exploring New Horizons for Research & Innovation on the 7th of December at Superior University, Gold Campus, Lahore.

Registration Dates: 20th November - 4th December.

The 2nd STS will feature research seminars and panel talks, Competitions Technical & E-Gaming, and training workshops incorporating emerging technology trends and the future of computing providing the students with an opportunity to interact with the national digital industry leaders and accomplished academics.

The event will also feature exciting competitions related to software design, coding, web & mobile application development, and e-gaming. Superior Technical Symposium 2.0 is being held under Superior University's flagship Research Week in December 2022 with a pledge to Enabling Knowledge Exchange.

IOT Summit

IEEE Comsoc Lahore Chapter, IEEE Lahore Section in Collaboration of KICS-UET organized IOT Summit on 28th March 2022. The Event Start at 10 am and end at 1:00 PM. The speakers of the event were Dr Ali Hammad Akbar, Dr Muhammad Saleem, Dr Mujtaba Jeffery and Mr. Muhammad Abdullah. At the end of the shields and certificates were distributed among the speakers and organizers of the IOT Summit.

A Summit on Artificial Intelligence in Information and Communication 2022

IEEE Comsoc Lahore Chapter in Collaboration with AI-Khawarizmi Institute of Computer Science UET Lahore has organized A Summit on Artificial Intelligence in Information and Communication 2022 on 19th May 2022, 10AM-2PM at KICS UET Lahore Seminar Hall. 70 Students and faculty members participated the event physically while others joined online via social media. Event started with the recitation of Holy Quran by Mr.

Dawood Khalid. Followed by National Anthem. Ms. Amna Mir was the event moderator. Ms Amna called Prof. Dr. Waqar Mahmood for welcome message. He is currently serving as Sultan Qaboos IT Chair at UET, Lahore. In addition, he is the Director of Al-Khwarizmi Institute of Computer Science (KICS) - a center of excellence for ICT research and development in UET, Lahore. He talked about the opportunities for students in research. He also shared the projects completed at KICS UET Lahore. Secondly Mr. Kashif Bashir, Chair IEEE COMSOC Lahore Chapter came on stage. Mr. Kashif Bashir is also the Vice chair of the IEEE Lahore Section. He talked about the IEEE organization and benefits of students in joining IEEE and COMSOC chapter. He also announced COMSOC student competition details. He further said we have witnessed fast developments of various artificial intelligence (AI) technologies, and many forms of information and communication systems with AI are becoming core parts of our daily lives. With the proliferation of future information, communication, and electronic devices, there is a fast-growing interest in information and communication technology (ICT) with AI.

Thirdly speaker was Dr. Wajahat Qazi from COMSATS Lahore. He shared his research work on AI. He also told students regarding Artificial Intelligence in Cognitive Machines: Academic and Industrial Application. Fourth speaker of the summit was Prof. Dr. Muhammad Usman Ghani Khan from UET Lahore. He talked about the projects his team working under AI center. He showed real time video experiments and implementation of Artificial intelligence in crowd management, data science & information technology. Fifth speaker of the summit was Mr. Mazhar Javed from UMT Lahore. He talked about Artificial Intelligence in Business Applications. How businesses are using AI in their daily work and getting the best results. All e-commerce organizations are using AI to boost their business. He also shared real time coding from his research and showed the results of using AI in business. Sixth speaker of the summit was Dr. Yasir Niaz from University of Lahore. He is doing research in the area of agriculture and citrus production. He shared his work for the detection of different diseases in plants by using affordable drones. His team is working to boost the agriculture sector in Pakistan. He urged students to work in this area as Pakistan is mainly dependent of its agriculture. Seventh speaker of the AI summit was Prof. Dr. Adnan Abid from Virtual University Pakistan. He talked about the "Artificial Intelligence for Machine Translation-(Sign Language Translation). He shared his research work with students and showed them sign language. He also showed the importance of AI in NLP technology. How students can start their work on NLP and software's used to improve the programming in sign language interpretation. Eight Speaker of the event was Mr. Lie Wing from Huawei talked about the opportunities for students in networking and cloud computing. He also shared Huawei business model and presence in worldwide. He encourages students to avail the free Huawei certification which is for limited

time. Ninth speaker of the session was Mr. Farhan Ali from Huawei Pakistan. He also told audience regarding the advancements in AI technology and its commercial application in IT industry. He also shared the statistics that by 2025 More than 97% industry will be using cloud services in their organizations. He also offered free Huawei cloud certification to audience. At last Mr. Rehman (on behalf of Dr. Majid Hussain) came on stage and shared his experience regarding the event. Mr. Kashif Bashir distributed the shield among guests and speakers. Names were Dr. Wajahat Qazi, Prof. Dr. Muhammad Usman Ghani Khan, Mr. Mazhar Javed, Dr. Yasir Niaz, Prof. Dr. Adnan Abid, Mr. Farhan Ali, Mr. Lie Weing, Amna Mir, Muhammad Hamza Ihshtiam, Rizwan Naqvi, Shahid Zulfiqar, Ali Yasin, Husnain, Muhammad Sajawal, M Rehman, M Mubeen. Group Photo was taken after the event.

IEEE SPS Seasonal School on Video Surveillance and Monitoring

IEEE Comsoc Lahore Chapter in collaboration of IEEE Bahawalpur Subsection and IEEE SPS UCET IUB Student Branch organized IEEE SPS seasonal school at Islamia University Bahawalpur on 5-6 September 2022. The Theme of summer school was Video Surveillance and Monitoring. The event was inaugurated by Dr. Muhammad Ali Qureshi, Chair IEEE Bahawalpur Subsection, Mr. Kashif Bashir, Vice Chair IEEE Lahore Section and Chair IEEE ComSoc Lahore Chapter in presence of Dr. Asif Naveed Ranjha, Director Board of Advanced Studies & Research, The Islamia University of Bahawalpur (IUB), Pakistan, Dr. Faheem Mushtaq, Chairman Department of Artificial Intelligence, IUB, Mr. Shahid Durrani, Director Career Counseling and Placement Center, IUB other respected faculty members, and IEEE office bearers. The speakers and their talk topics during 2 days of summer school are as follow: Prof. Dr. Muhammad Haroon Yousaf explained different modern Computer Vision techniques and their use in video Monitoring. Prof. Dr. Usman Ghani Director National Centre of AI explain the deployment of innovative technology in surveillance cameras. Prof. Dr. Yasar explained a number of his projects and research topics on video surveillance for military and civil use. Drone video surveillance and monitoring during natural disaster management. Abdul Waheed Deputy Director (IT & Security) The Islamia university of Bahawalpur explained the importance of video surveillance by digital smart cameras. Dr. Faisal Bashir Senior Technical Team Leader Computer Vision, USA talked about computer vision & machine learning in video surveillance. Dr. Suryo Adhi Wibowo from Indonesia talked about object detection in several research fields like autonomous vehicle and drone. Dr. Mohib Ullah (Member, IEEE) is a Postdoctoral Research Fellow from Norway talked about Video scene analysis and understanding.

The city tour includes visit to the famous Lal Suhanra National Park Bahawalpur and historical Noor Mahal Palace.

The two-day seasonal school was concluded with award distribution ceremony and a group photo of the guests and participants. Dr. Muhammad Ali Qureshi, Chair IEEE Bahawalpur Subsection awarded the shield of honor to the distinguished keynote speakers. The speakers were also presented cultural Siraiki Ajrak.

B.5: Affinity Group Activities

Young Professional (YP)

MS Excel professional training program

MS Excel professional training program was organized and hosted by IEEE WIE Lahore Section Affinity Group in collaboration with E-Learners Pakistan, IEEE YP Lahore Section on March 27, 2022. Our honorable trainer Mr. Hassan Saleem | Chartered Accountant - A.F Ferguson designed this course to provide the students with basic working knowledge for using Excel spreadsheets for Data Analysis. He covered some of the first steps for working with spreadsheets and their usage in the process of analyzing data. Also included plenty of videos, demos, and examples to learn, followed by step-by-step instructions to apply and practice on a live spreadsheet. Learning Objectives: These learning objectives are intended to provide the students with the following specific knowledge and skills. How to perform basic spreadsheet tasks About the importance of data quality. How to import file data into Excel. To encourage participants, we announced the contest of “TWO BEST AUDIENCE AWARDS” in the middle of the workshop and ensured that this award should be given to the most passionate participant at all levels of the workshop to show recognition. A 20-minute Q&A session was conducted to answer all the queries At the end of the session, a virtual shield was presented to the speaker as a token of appreciation, and certificates were awarded to all the participants who marked their attendance during the session. 228 students participated in the session.

Career Counselling

Career Counselling workshop was organized and hosted by IEEE WIE Lahore Section Affinity Group in collaboration with TALK, IEEE YP Lahore Section on June 19, 2022. In this workshop, Mr. Ahmed Manzoor | CEO of Pakistan Blockchain Institute helped the students to unleash themselves and conquer the world. The following points were discussed in this workshop: Are you a student & confused about choosing the next degree? Have completed your degree but are still confused about what career to choose? Want to do something big but not get how to? Learning Objectives: These learning objectives are intended to provide the students with the following specific knowledge and skills: Entrepreneurship skills Education (University career choice and educational crisis around the globe) Raising empathic listening in the inner self Self-

transformation Tech and innovation A 20-minute question-and-answer session followed the presentation. To encourage the participants, we announced the contest of “TWO BEST LISTENER AWARDS” in the middle of the workshop and ensured that this award should be given to the most passionate participant at all levels of the workshop to show recognition. At the end of the session, a virtual shield was presented to the speaker as a token of appreciation, and certificates were awarded to all the participants who marked their attendance during the session. The feedback from this session was outstanding. Students were encouraged to the maximum level to choose their own dimension or field of study to continue their passion.

Boost Your Freelancing Brand

The highly-rated 5-star freelancer Mr. Waleed Najam - Founder and Digital Marketing Professional of Rankistan was invited as a guest speaker to conduct a workshop. Mr. Zunair Asad Khan - Media Marketing Head of IEEE WIE Lahore Section hosted this event virtually. The objective of this workshop was that the industry of individual entrepreneurship has been growing dramatically in the last decade. The question is, how are you going to stand out from the crowd, get noticed and help clients remember you and the type of projects you do? The answer could be ‘Boost your freelance brand’. Our honorable speaker shared the best tricks and tips with the audience from scratch. To encourage participants, we announced the contest of “TWO BEST AUDIENCE AWARDS” in the middle of the workshop and ensured that this award should be given to the most passionate participant at all levels of the workshop to show recognition. At the end of the session, a virtual shield was presented to the speaker as a token of appreciation, and certificates were awarded to all the participants who marked their attendance during the session. 330 students participated in the session. Students took part in the Q&A sessions with great interest

Robotics - From Education To Industry

The well-known scientist Dr. Fawad Naseer (Head of the CS Department - at the University of International Programs at Beaconhouse University College) was invited as a guest speaker. He presented three key aspects of the Robotics field that helped to make progress towards this goal as a nation. Specifically, he discussed practices that enabled Pakistan to Consistently implementation of Robotics in Schools, Colleges, and Universities curriculum Industry academia linkage A game-changer for business in post-COVID-19 Pakistan. Our honorable speaker highlighted that working on a robot stimulates students to build their engineering intuition and emphasizes meaningful problem-based learning through the integration and application of their knowledge. Strategic problem-solving, computational thinking, higher order thinking, logical and analytical reasoning. To encourage participants, we announced the contest of “TWO MOST ACTIVE PARTICIPANTS AWARDS” in the middle of the workshop and ensured that this award should be given to the most passionate participant at all levels of the workshop to show recognition. Students took part in the Q&A

sessions with great interest. At the end of the session, a virtual shield was presented to the speaker as a token of appreciation, and certificates were awarded to all the participants who marked their attendance during the session. 837 students participated in the session.

Microsoft 365 Platform Opportunity, key Technologies

The purpose of this training was to dive into the world of cloud technologies. Cloud computing is one of the next future technologies to learn to implement in highly recommended tech jobs.

Mr. Adnan Amin (Microsoft Valued Partner and Trainer) gave insight to students about the Microsoft 365 platforms. Unfortunately, none of his demos could work because of technical issues in connecting laptops in the Ideas lab.

Nonetheless, he explained all the platforms and their importance in detail for the students.

Adnan Amin, having over 14 years of extensive experience with Microsoft Technologies, with major expertise in SharePoint Server, Office 365, .Net Platform, and Microsoft BI engaged the students for a good 50 minutes. He is currently working as a Senior Microsoft Consultant for PCM. He has implemented SharePoint for different government and private sectors in the Gulf Region and the United States which also include Fortune 500 companies.

He has been Microsoft MVP for Office Apps & Services since 2015 and Microsoft Certified Trainer for the past 10 years. He was also MCT Regional Lead for Five years (2012- 2017). Being a Microsoft Certified Trainer, he is involved in training the corporate sector within Pakistan and the Middle East. He is a technology evangelist, blogger, and speaker, and engaged with the community through different tech forums.

Women In Engineering (WIE)

IEEE WIE International Leadership Summit 2022

IEEE Women In Engineering Lahore Section organized IEEE WIE International Leadership Summit 2022 at Government College University Lahore. Co-Host for the IEEE WIE ILS 22 was Government College University Lahore & IEEE GCU Student Branch. It was arranged on the 10th & 11th of December 2022. The venue was Bukhari Auditorium, Main Lab

– DEPT of Computer Science, Fazal-e-Hussain Reading Room, PG-Block – DEPT of Computer Science & Salam Hall. Our

Event consisted of 35+ activities which included Training Sessions, Seminars, Hands-On Training, Mushaira, Award

Night & Many More. More than 1000+ people were part of the event. Participants from different cities like Karachi, Mianwali, Mardan, Islamabad, Mirpur- AJK, Faisalabad, Peshawar, Bahawalpur & Many Other Cities. We invited many speakers from different Countries like Sweden, Bangladesh, and Many Other Countries. We had a complete flavor of International & National Speakers to make it more technically sound. It brings Informative Sessions to give Knowledge & Information on New Trends to our audience. We had a Team of 50+ Volunteers & Organizers Team.

Day 1 (10th December 2022): The event started on 10th December 2022 at 11:00 AM. The first day included many activities. The event host was Mr. Zahid Hussain & Ms. Fatima. Recitation of the Holy Quran & Naat-e-Rasool was done by Mr. Abdullah Maroof (Publication Head, IEEE WIE ILS 22). There was a Welcome Note by Ms. Safoora Saleem (Chair, IEEE WIE Lahore Section) & Dr. Ali Raza (Branch Counselor, IEEE GCU Student Branch). After that, our guest, Dr. Amjad Hussain (Chair, IEEE Lahore Section) also delivered a keynote. Our First Session was a Motivational Session that was delivered on the topic “Youth & Leadership with Diversity and Inclusion”. It was delivered by Mr. Zeeshan Afzal (Founder & CEO of Million Smiles). The audience enjoyed it and Mr. Zeeshan Afzal motivated the youth by showing the realities of life. It was held in Bukhari Auditorium which was a 40 minutes session. After the motivational session, there was a panel discussion which was held on AI, IoT & Cloud. For the Panel Discussion, we invited the following industrial speakers: Dr. Wajahat Qazi Prof. Dr. Syed ul Waqar Quonain Dr. Muhammad Omer Fayyaz Prof. Dr. Saman Shahid Mr. Syed Tanweer Shah Bhukhari Mr. Anees Ur Rehman Mr. Zain Asif The Moderator was Mr. Adnan Yousuf Kazi. It covered the latest trends in Artificial Intelligence, the Internet of Things & Cloud Computing. It was a 60 minutes panel discussion. It was an informative panel discussion for the students in the IT field. QnA session was organized in the end of panel discussion in which audience asked different questions from the speakers. Best questioned participant was awarded with an award of goodie bag. After the panel discussion, there was a seminar on Artificial Intelligence: Boon or Bane for Digital Marketing. It was delivered by Mr. Wahab Younus (CEO & Founder of PNY Trainings). PNY Trainings was also our sponsor for the IEEE WIE ILS 22. It was 30 minutes session with the complete role of AI in Digital Marketing. After a fruitful session on AI, there was a seminar on Women In STEM which was held in Bukhari Auditorium. It was delivered by Prof. Dr. Saima Shahnaz (Professor – Department of Chemical Engineering, UET Lahore). It was a 40 minutes session in which the speaker empowered the female participants and motivated them for their careers. After the seminar, there was a lunch break in which Team ILS served lunch boxes to all the participants and volunteers & buffet for our guests. After 40 minutes of lunch break, IEEE WIE ILS 22 resumed with a seminar. It was held on Brain

Storming & Content Creation in Bukhari Auditorium. The training session was organized at Main Lab, DEPT of CS which was a parallel activity with a seminar "Brain Storming & Content Writing". The hands-on training session was held on the topic "Big Data & Data Science". It was delivered by Dr. Mazhar Javeed (Assistant Professor, UMT). Both sessions were completed in 40 minutes. After that, a seminar at Bukhari Auditorium was held on Security Challenges for the Future Computing System. The speaker of the seminar was Dr. M Sadiq Ali Khan (Associate Professor, University of Karachi). In this seminar, Dr. M Sadiq Ali Khan opened the gate of knowledge for the audience in the Network Security field. After that, a panel discussion was held on the Socio-Economic Impact of the Energy Transition Keeping in View the Climate Catastrophe. For the panel discussion, we invited the following speakers: Mr. Tauseef H. Farooqi Mr. Engr. Syed Faizan Ali Mr. Major Aijaz Ahmed Mr. Usman Anwar Mr. Sohail Butt. The Moderator was Ms. Halima Khan. The main purpose of the panel discussion was to engage our audience towards the Socio-Economic Impact in Pakistan. CHIEF GUEST of the IEEE WIE ILS 22 was also part of the panel discussion.

Chief Guest was Mr. Tauseef H. Farooqi, the Chairman of NAPRA. It was a great honor to have such a big personality at the event who created a huge impact on the audience. QnA session was organized in the end of panel discussion in which audience asked different questions from the speakers. Best questioned participant was awarded with an award of goodie bag. After the panel discussion, a seminar on Professional Development: 5 Keys to Unblock your True Growth Potential was organized in Bukhari Auditorium. It was delivered by Mr. Mirza Ali Imran Baig (Zong). In the seminar, Mr. Mirza Ali Imran Baig motivated the youth for their career growth. After all the activities, the first day of IEEE WIE ILS 22 ended on a positive note with a positive response from the students. The speakers were acknowledged with the recognition award. The awards were presented by Dr. Amjad Hussain, Ms. Safoora Saleem &

Dr. Ali Raza.

Day 2 (11th December 2022): The second Day of the event started at 10:00 AM with the name of Allah which was recited by Mr. Abdullah Maroof (Publication Head, IEEE WIE ILS 22). Host for the Day Two was Mr. Zahid Hussain & Mr. Hassan Atif. After that, the first seminar of Day Two was delivered by Mr. Amjad Hussain (Chair, IEEE Lahore Section). The topic of the seminar was How to Be and Remain Happy. It was 30 minutes session that included a motivational talk. After that, a seminar was delivered by Mr. Ahmad Manzoor (CEO of Pakistan Blockchain Institute). The topic was Is METAVERSE real or just hype? It was a 30 minutes session which was covered the latest trends of the metaverse. After that, a panel discussion was organized on the topic "How IEEE Volunteering Roles can Advance your Career?". For the panel discussion, we invited the following speakers: Mr. Amjad Hussain Ms. Sania Arshad Mr. Syed Muhammad Rizwan Naqvi Mr. Shahid

Zulfiqar Dr. Isma Farah Dr. Muhammad Gufran Ms. Jowaria Sohail Ms. Maliha Anwer Moderator was Mr. Aftab Ur Rehman. In the discussion, speakers communicated to the audience about the benefits and role of the students as a volunteer in IEEE. A Q&A session was organized at the end of a panel discussion in which the audience asked different questions from the speakers. The best-questioned participant was awarded a goodie bag. After that, a seminar was delivered by Mr. Muhammad Sajid (Solution Architect AWS). The topic of the seminar was Architecting Your Way to Net Zero through Cloud. Mr. Muhammad Sajid was our international speaker. He guided the audience about cloud computing. A quiz was conducted at the end of the session and the winners of the quiz competition were awarded a prize by the speaker. After that, a panel discussion was organized on the topic of Career Counseling". Our Panelist for this discussion: Mr. Arbaz Abid Ms. Tosheeba Sawar Mr. Farhan Tufail Moderator was Mr. Aftab Ur Rehman. Panelists guided participants in their careers and showed them the best ways the success. It was a 40 minutes panel discussion. A Q&A session was organized at the end of a panel discussion in which the audience asked different questions from the speakers. The best-questioned participant was awarded a goodie bag. After that, a training session was organized on GitHub. It was delivered by Mr. Usman Sheikh (Microsoft). It was a 30 minutes training session. A parallel session was also organized at Fazele-Hussain Reading Room. The topic was Women's Health (Breast Cancer, Menstrual Hygiene Management). It was delivered by Dr. Mahnoor Chaudhry. After that, a seminar was organized on Deep Learning for Medical Image Analysis. It was delivered by another international speaker, Prof. Dr. Celia Shahnaz (Elected Chair, IEEE WIE Region 10). She is from Bangladesh. She delivered her seminar online through zoom. Dr. Celia Shahnaz was our Chief Guest for the event. After that, a seminar was held on Building Scalable Applications. It was delivered by Mr. Saad Aslam (Software Engineer at I2C). It was a 30 minutes seminar. Mr. Saad Aslam guided the best ways to create the best application for the user. After that, a seminar was organized on Shaking Mind Nodes #BeyondLife. It was delivered by Mr. Muhammad Raffay (Lecturer SSUET). It was a 20 minutes session. It was a motivational session for the audience. After that, the last seminar before the break was arranged which was delivered by Ms. Saba Kalsoom (Director, FASSET). The topic was Unblocking the Potential of WEB 3.0 in Pakistan. Ms. Saba Kalsoom showcased the emerging trends in web 3.0. It was 25 minutes session. After a long period of sessions, a lunch break was announced in which food was served to the participants and the guests. After the break, the event started with a panel discussion on Women's Empowerment. The following are the Panelist: Ms. Shaista Perviaz Ms. Tabinda Usman Ms. Maryam Warsi Moderator was Mr. Zahid Hussain. The panelist showed the real meaning of women's empowerment and guided the young female in their life. A Q&A session was organized at the end of a panel discussion in which the audience asked different questions from the speakers. The best-questioned participant was awarded a goodie bag. After that, we had a keynote from the VC OF GCU Lahore, Dr. Prof. Asghar Zaidi. Dr. Asghar Zaidi was also our Chief Guest for the IEEE WIE

ILS 22. After the keynote, a Mushaira was arranged to entertain the audience. After a mushaira of 40 minutes, the last activity of IEEE WIE ILS 22 was organized which was Award Night. It was hosted by Mr. Saad Ahmad Farooqi (Joint Secretary, IEEE WIE ILS 22), Mr. Zahid Hussain & Mr. Abdullah Maroof (Publication Head, IEEE WIE ILS 22). Awards were distributed to the Guests by Dr. Asghar Zaidi, VC GCU Lahore. The organizing team was also recognized and awarded with a token of appreciation because of the efforts, they made for the event's success. Awards were also presented to the Ambassadors who had brought maximum registrations in the event & Out-Reach Partners. Mr. Saad Ahmad Farooqi (Joint Secretary, IEEE WIE ILS 22) also delivered a closing note. To close the event, a Group Picture of the audience & organizing team. Goodie Bags were given to all participants. Goodie Bags included Notepad, Pen, and Keychain. This Summit (ILS) provided regional opportunities to foster networking, mentorship, and collaboration. With the leadership and creativity of volunteers, the Women in Engineering Summit had been extremely successful and had made an outstanding impact on communities around the globe. IEEE WIE International Leadership Summit aimed to provide a forum for women in technology to network with peers and gain insights from industry, entrepreneurship, academia, and government leaders. Attendees shared their unique points of view through real-life projects and experiences, discuss lessons learned, identify challenges and limitations, and collaborated on critical skills for leadership development in projects in teams. Ten WIE Summits conducted globally in 2022 in different countries.



International Congress on Recent Trends in Computer Science (ICRCS 2022)

IEEE WIE Lahore Section organized International Congress on Recent Trends in Computer Science - 2022 (ICRCS-2022) in collaboration with IEEE BUBT Student Branch Chapter, which was held from February 18-19, 2022. The collaboration partners are IEEE Stamford University SB, Bangladesh, IEEE Computer Society SB Chapter EWU, Bangladesh, IEEE ISTT SB WIE Affinity Group, Bangladesh, IEEE Council on Superconductivity BUBT SB Chapter, Bangladesh, IEEE Council on RFID BUBT SB Chapter, Bangladesh, IEEE CU Islamabad, Pakistan, IEEE Kyambogo University SB, Uganda, and IEEE CS BUBT Student Chapter. The congress was technically sponsored by IEEE Computer Society Bangladesh Chapter, Amazon AWS & Microsoft Learn Student Ambassadors ICRCS-2022 was designed to serve as an interactive platform for the participants to enhance their knowledge as well as practical challenges encountered and solutions adopted in the field of Recent Trends in Computer Science. More than 500+ students participated in this event.

Women's Conference | Gender Equality & Women Empowerment

IEEE WIE Lahore Section had organized a Women's Conference "Gender Equality & Women Empowerment" from March 8 - March 13, 2022. The purpose of this conference was to highlight and appreciate the women in Business, Profession, Industry, Academia, and Leadership. Gender Equality was the focus of this conference.

On this International Women's Day, IEEE WIE Lahore celebrated women's achievements, raised awareness against bias, and talk for equality. International Women's Day (March) was a global day celebrating the social, economic, cultural, and political achievements of women. The day also marked a call to action for accelerating women's equality.

IWD had occurred for well over a century, with the first IWD gathering in 1911 supported by over a million people.

Today, IWD belonged to all groups collectively everywhere. IWD was not a country, group, or organization specific.

More than 300+ audience was part of this conference. It was a great motivational conference for young girls going into the educational field. 6 Days online conference with many female motivational speakers.

HOW BLOCKCHAIN WILL CHANGE THE WORLD WEBINAR

IEEE WIE Lahore in collaboration with IEEE PES DAY 2022 & IEEE SUL SB organized a webinar on How Blockchain will Change The World on April 29, 2022 at 3 PM PKT

Workshop of Blockchain webinar was organized by IEEE WIE Lahore section in collaboration with IEEE SUL SB & Department of CS faculty of CSIT superior university Lahore. This session was delivered on zoom. The

session was started with the name of Allah by IEEE SUL President, Abdullah Maroof. Session hosting was executed by the Superior University IEEE WIE Team Member, Fatima Faizan. Mr. Ahmed Manzoor the speaker for this session who is a CEO, Pakistan Blockchain Institute. Mr. Ahmed Manzoor gave his introduction & gave and explained what is Blockchain. Mr. Ahmed Manzoor guided about the demand for Blockchain and how it will be very useful in the future. Mr. Ahmed Manzoor also guided us about the Blockchain emerging in Data Science and other fields of computer science. Mr. Ahmed Manzoor also guide us on how blockchain will bring revolution in different currencies. At the end of the session, the speaker answered the questions of the audience. The session was completed at 4:20 PM. 80 min session with complete guidelines on Blockchain. We had completed two SDGs (Quality Education & Partnership in Goals). The workshop was completed successfully.

IMPACT OF DIGITAL MEDIA IN MODERN ERA WEBINAR

Webinar on the Impact of Digital Media on the Modern Era was organized by IEEE WIE in a collaboration with Xperteq & IEEE Superior University Student Branch. It was held on Live Streaming, YouTube at 8:00 PM on August 16, 2022. It was live-streamed on Xperteq YouTube Channel. The session was started with the name of Allah by IEEE WIE Team Member, Saad. Session hosting was executed by the IEEE WIE Team Member, Umair Asad. Mr. Aftab Waince was the speaker for this session, a CEO & Founder, of CYBEX. Mr. Aftab Waince gave his introduction & Brief introduction to Digital Media. Mr. Aftab Waince guided me about the advantages & disadvantages of Digital Media. At the end of the session, the speaker answered the questions of the audience. The session was completed at 8:45 PM—45 min session with a complete guideline on Digital Media. We had met two SDGs (Quality Education & Partnership in Goals). The workshop was completed successfully.

Entrepreneurs and Entrepreneurship Webinar

Webinar of Entrepreneurs & Entrepreneurship was organized by IEEE WIE in a collaboration with Xperteq & IEEE Superior University Student Branch. It was held on Live Streaming, YouTube at 8:00 PM on August 13, 2022. It was live-streamed on Xperteq YouTube Channel. Session hosting was executed by the IEEE UOL Branch Counselor, Mr. Arslan. Mr. Muhammad Shahab Siddiqui was the speaker for this session is a Professor & Director – NHU ORIC | IEEE

Computer Society Distinguished Visitor Program Speaker | CEO and Chief Consultant – Secret Solutions | Director – SSAFFE | Mentor – GIT MentorLoop. Mr. Muhammad Shahab Siddiqui gave his introduction & appreciated IEEE WIE Lahore Section for organizing this webinar. Mr. Muhammad Shahab Siddiqui guided me about the term entrepreneurship & its history. Mr. Muhammad Shahab gave a detailed explanation of

entrepreneurship & how can you start your startup. He also gave some examples of successful entrepreneurs. At the end of the session, the speaker answered the questions of the audience. The session was completed at 9:00 PM. 60 min session with a complete guidelines on entrepreneurship. We had completed two SDGs (Quality Education & Partnership in Goals). The workshop was completed successfully.

Emergency Generators and Standby Power Systems Webinar

Workshop of Emergency Generator & standby power system was organized by IEEE WIE Lahore section in collaboration with IEEE UOL SB & IEEE SUL SB. This session was delivered on zoom. The session was started with the name of Allah by IEEE WIE Team Member, Saad. Session hosting was executed by the Superior University IEEE WIE Team Member, Muhammad Huzaifa IEEE UL member. Mr. Ezra Finkin the speaker for this session who is a Policy Director, at The Diesel Technology Forum. Mr. Ezra Finkin gave his introduction & gave and explained about the electricity sources in the world. Mr. Ezra Finkin guided us about the demand for sources of electricity in Pakistan and how it will be very useful in the future. Mr. Ezra Finkin also guided us about how other countries use solar energy and other sources, and guide us on how we can implement them for the betterment of Pakistan. Mr. Ezra Finkin also guides us about the benefits of solar systems and generators and how they are useful for other countries. At the end of the session, the speaker answered the questions of the audience. The session started at 7:00 PM. 80 min session with complete guidelines. We had completed two SDGs (Quality Education & Partnership in Goals). The workshop was completed successfully.

Youth & AI Webinar

Webinar on Youth & AI was organized by IEEE WIE in a collaboration with Xperteq & IEEE Superior University Student Branch. It was held on Live Streaming, YouTube at 8:00 PM on August 14, 2022. It was live-streamed on Xperteq YouTube Channel. Session hosting was executed by the IEEE UOL Branch Counselor, Mr. Arslan. Mr. Adnan Yousaf Kazi was the speaker for this session who is a Chief Operating Officer at TenxX/Analytics | ex-IBM, Teradata, and NCR. Mr. Adnan Yousafi Kazi gave his introduction & appreciated IEEE WIE Lahore Section for organizing this webinar. Mr. Adnan Yousaf Kazi guided me about the term Artificial Intelligence & its aspects. Mr. Adnan Yousaf also gave answers to the questions during the webinar. Mr. Adnan Yousad Kazi gave a detailed explanation of Artificial Intelligence. Mr. Adnan Yousaf Kazi also advises youth on job opportunities in Artificial Intelligence Field. At the end of the session, the speaker answered the questions of the audience. The session was completed at 8:00 PM. 50 min session with a complete guidelines on entrepreneurship. We had met two SDGs (Quality Education & Partnership in Goals). The workshop was completed successfully.

Importance & Diversity of STEM Webinar

Webinar of Importance & Diversity of STEM was organized by IEEE WIE in a collaboration with Xperteq & IEEE

Superior University Student Branch. It was held on Live Streaming, YouTube at 8:00 PM on August 11, 2022. It was live streamed on Xperteq YouTube Channel. Session hosting was executed by the IEEE WIE member, Mr. Umair Asad. Mr. Faisal Fayyaz was the speaker for this session who is a Cambridge Certified Computer Science Teacher | Microsoft

Innovative Educator Expert | ISEF symposium presenter 2022 | Project Manager, PUCIT, Punjab University | Wakelet

Ambassador | Community Leader | Golden Ambassador of 21st digiskill | Qualified Member of PMI - USA. Mr. Faisal Fayyaz gave his introduction & appreciated IEEE WIE Lahore Section for organizing this webinar. Mr. Faisal Fayyaz guided me about the term STEM & importance in Life. Mr. Faisal Fayyaz gave a detail explanation on STEM. He also gave some examples and videos to explain more about STEM. At the end of the session, speaker answered the the questions of audience. The session was completed at 9:00 PM. 70 min session with a complete guideline on STEM.

We had completed two SDGs (Quality Education & Partnership in Goals). Workshop was completed successfully.

Cancer Immunotherapy Research Webinar

Webinar of Cancer Immunotherapy Research was organized by IEEE WIE in a collaboration with IEEE University of Lahore Student Branch & IEEE Superior University Student Branch. It was held on Zoom Meeting at 9:00 PM on April 28, 2022. The session was started with the name of Allah by IEEE SUL Team Member, Hafiz Arslan Azmat. Session hosting was executed by the IEEE UOL Team Member, Muhammad Ali. Dr. Raheel Shahzad was the speaker for this session who is a Senior Registrar, Mayo Hospital. Dr. Raheel Shahzad gave his introduction & told about Mayo Hospital. Dr. Raheel Shahzad gave a brief detail about cancer and his research on it. Dr. Raheel Shahzad gave an explained detail about Immunotherapy for Cancer. At the end of the session, speaker answered the questions of the audience. The session was completed at 10:00 PM. 1-hour session with a complete guideline on Cancer Immunotherapy. We had completed two SDGs (Quality Education & Partnership in Goals). Workshop was completed successfully.

Java as a Choice for Full Stack Development including Datascience & Blockchain Webinar

Workshop of Java as a Choice for Full Stack Development including Datascience & Blockchain was organized by IEEE WIE in a collaboration with Xperteq, Think Connects, IEEE Superior University Student Branch & Azad Life Save Now Pay Later. It was held on Live Streaming, YouTube at 8:00 PM on September 10, 2022. It was live streamed on Xperteq YouTube Channel. The session was started with the name of Allah by IEEE WIE Team Member, Saad. Session hosting was executed by the IEEE WIE Team Member, Safoora Saleem. Mr. Anees Ur Rehman was the speaker for this session who is a Secretary of CEO, Azad Life Save Now Pay Later. Mr. Anees Ur Rehman gave his introduction & gave an explained introduction about Java Language and its benefits. Mr. Anees Ur Rehman guided about the demand of Java Language the Expert in Software Industry. Mr. Anees Ur Rehman also guided about Blockchain & Data Science. He also guided that how these two trends are part of Java Language. At the end of the session, speaker answered the questions of audience. The session was completed at 8:45 PM. 45 min session with a complete guideline on Java as a Career Choice. We had completed two SDGs (Quality Education & Partnership in Goals). Workshop was completed successfully.

To Develop Career Oriented Skill Set and Constant Learning Seminar

Workshop of Develop Career Oriented Skill Set & Constant Learning was held on Live Streaming, YouTube at 8:00 PM. It was live-streamed on Xperteq YouTube Channel. The session was started with the name of Allah by IEEE WIE Team Member, Zunair Khan. Session hosting was executed by the IEEE WIE Team Member, Umair Asad. Mr. Syed Muhammad Rizwan was the speaker for this session and is a Secretary of IEEE Membership Development. Mr. Syed Muhammad Rizwan gave his introduction & told his life story and skills. Mr. Syed Muhammad Rizwan guided the participants about trending skills and how much is important to groom your skills. Mr. Syed Muhammad Rizwan also gave a short address on constant learning that you always looking to learn new things which will be helpful for you because day by day, we are moving towards advanced technologies. At the end of the session, the speaker answered the questions of the audience. The session was completed at 9:00 PM. One-hour session with a complete guideline on Career Oriented Skill Set. We had met two SDGs (Quality Education & Partnership in Goals). Training Session was completed successfully.

Tech Tehwar 2.0

WIE Lahore was organized Tec 2.0 تہوار where we had made trending technology stacks accessible for anyone to celebrate the technology trends with tech enthusiasts. A technology revolution, the IT industry is making the way Tech 2.0 تہوار was consisting of technical and non-technical sessions from industry experts having national and international experience around the globe including Go Programming Language, Microsoft Dynamics, Machine Learning, Cloud

Computing, Freelancing, Entrepreneurship, Career Guidance, Artificial Intelligence and much more. Tech 2.0 تہوار was a great revolution for the youth in technology. 300+ Audiences joined us for this event. Different IT field speakers were part of this event and most of them were from the industry. Tech 2.0 تہوار was held in COLABS.

COLABS provided us with the best speakers for this innovative event.

CYBER SECURITY AND ITS IMPORTANCE IN INDUSTRY TRAINING SESSION

IEEE Superior University Lahore Student Branch is organizing a training session titled 'Cyber Security and its Importance in Industry Training' in collaboration with IEEE WIE Lahore Section at Lab 5, Superior Gold Campus on Thursday, 27th October 2022.

Mr. Khalid Hussnain, Senior Manager of Cybersecurity from Global, Germany will be the trainer at this session. Mr. Khalid will apprise the students about the importance of deploying the correct software-based protection technologies in order to control cyber breaches. The speaker will also inform the students that cyber security is a growing sector and that students pursuing a degree in the IT field should be aware of the job prospects in this vast industry.

This training session is being organized in compliance with the United Nations Sustainable Development Goals especially Goal No. 4 - Quality Education and Goal No. 9 - Industry, Innovation, and Infrastructure

How to Create a Global Entrepreneurship Webinar

Workshop on How to Create a Global Entrepreneurship Network in Partnership was held on Live Streaming, YouTube at 8:00 PM. It was live-streamed on Xperteq YouTube Channel. Session hosting was executed by the IEEE WIE

Female Empowerment Advocate. Ms. Jackie G Michaels gave her introduction & she was thankful to IEEE WIE Lahore

Section. Ms. Jackie G Michaels guided the participants about Entrepreneurship & she also told them about the Global Network of Entrepreneurship. Ms. Jackie G Michaels also told me how to create a Global Entrepreneurship Network & she also told me how you can earn sponsorship. At the end of the session, the speaker answered the questions of the audience. The session was completed at 9:00 PM. One-hour session with a complete guidelines on Entrepreneurship & Funding for Entrepreneurship. We had met two SDGs (Quality Education & Partnership in Goals). Training Session was completed successfully.

B.6: Awards & Recognition Activities

B.6.1: Award constituted by the Section.

- Outstanding Student Volunteer Award (Winner)
- Outstanding Student Volunteer Award (Runner up)
- Outstanding Student Branch (Winner)
- Outstanding Student Branch (Runner Up)
- Outstanding WIE Student Volunteer Award (Winner)
- Outstanding WIE Student Volunteer Award (Runner Up)
- Outstanding Branch Counselor Award (Winner)
- Outstanding Affinity Group/Student Chapter Award (Winner)
- Outstanding Affinity Group/Student Chapter Award (Runner Up)
- Outstanding Volunteer Award (Winner)
- Outstanding Volunteer Award (Runner Up)
- Outstanding Young Professional Award (Winner)
- Outstanding Young Professional Award (Runner Up)

B.6.2: Please list all Awards and Recognitions received by the Section, and members in the Section, from R 10 and IEEE HQ during the tenure (2022-2023)

1. IEEE WIE Lahore Section won IEEE WIE ILS Grant.
2. **Mr. Syed Tanweer Shah Bukhari** selected in IEEE Robotics and Automation Society (RAS) Developing Country Faculty Engagement Program.
3. **University of South Asia Student Branch** won \$300 for the proposal submitted under IEEE R-10 EAC's Call for Proposal For "Reaching Local Initiatives.
4. IEEE UCET-IUB won "IEEE Regional Exemplary Student Branch Award 2021"
5. IEEE UCET-IUB won "IEEE R10 Student Branch of the Month - July 2021"
6. IEEE UCET-IUB won "Outstanding Branch Counselor Award by IEEE Lahore Section"
7. IEEE UCET-IUB won "Outstanding Student Volunteer Award by IEEE Lahore Section"
8. 2021, proposal of the project "Awareness on Social Distancing Alert and System Implementation during COVID'19" in response to the IEEE Region 10 & IEEE HAC Special Call for Proposals: Addressing Local Needs During COVID Time, has been accepted the funding \$450

9. IEEE UCET-IUB won "Approved \$600 Funding by IEEE YP Local Activity –
10. IEEE UCET-IUB won "Approved \$400 by IEEE Region 10 SAC MDLT Fund for "Leading my Branch to Success"
11. IEEE UCET-IUB won "Approved \$500 YP STEP Funding - "Are top Grades Enough for Career?"
12. Ms. Alina Munir, University of Engineering and Technology won COMSOC Honory Mention on her project "Diagnosis of Specific Phobic Anxiety Disorders Using Virtual Reality Environment" in IEEE COMSOC Student Competition.
13. Mr. Fahad Tanveer, University of Engineering and Technology won COMSOC Honory Mention on his project "Live Radar" in IEEE COMSOC Student Competition.
14. Ms. Rida Zaniab and Saher Afshan won 4th Prize in IEEE IAS CMD Humanitarian Contest 2021.
15. Mr. Muhammad Hamza Ihtisham won MGA IEEE Young Professional Achievement Awards 2021.
16. Mr. Muhammad Hamza Ihtisham won IEEE IAS Outstanding Young Member service award 2021.
17. Mr. Muhammad Hamza Ihtisham serving as IEEE YP EMB Global Committee.
18. Mr. Muhammad Hamza Ihtisham serving as IEEE IAS CMD Evaluation Committee Panel.

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

B.7.1: Newsletter (name and number of issues in the year)

IEEE Lahore Section started its NEWSLETTER and established a committee under the committee chair Mr. Arslan Shahid. IEEE Lahore Section issued 2 Volumes last year and planning to issue 4 volumes per year.

B.7.2: Home Page of the Section (give the URL and how often it is updated)

IEEE Lahore Section official website is fully updated, and team update the website on regular basis.

IEEE Lahore Section official website: <https://site.ieee.org/lahore>

B.7.3: Other means of contacts with Section members including social media

IEEE Lahore Section use Facebook, LinkedIn, WhatsApp and Instagram Social media platform for communications.

B.8: Community Activities

IEEE Lahore Section organized IEEE DAY at IEEE ITU Student Branch.

Annexure C: IEEE Lahore Section Awards, Recognition and Other Activities.

C.1 Special Events

- Please briefly describe the importance of special events and the outcomes achieved.
 - Consolidated Industry Academia Linkages
 - Engagement of IEEE members in activities of section getting increased day by day which help in sustainability of Section operations.
 - Research and Development culture is getting mature in recent 2 years due to increase in section technical activities, which has direct impact on country economy and development.
 - Technical awareness due to IEEE activities within universities is satisfactory.
 - Humanitarian activities gave insight to industries and academia to proceed Humanitarian activities.
- Funding secured from the IEEE and external sources including sponsorships.
 - IEEE Mini Poco
 - IEEE R10 Student Branch Revival Activity
 - IEEE YP Local Activity
 - IEEE R10 Membership Development Funds

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

- Nature of relationship and details of any formal agreement signed.

Signed MOU with

- Game Train (Game Development Training Institute)
 - Skills To Do (Skill Development Company)
 - ITCN
- Details of joint activities

IEEE Lahore Section organized below mentioned activities.

- Joint Game Development BOOTCAMP [Gaming Development training Bootcamp for fresh graduates]
- Skills Gala [Online Training Platform]
- ITCN Asia [IEEE Lahore Section collaborated with ITCN to organize Pakistan biggest technical Expo]

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

Free Training were provided.

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

Increase in membership due to extended trainings which is useful for students and professionals.

C.3: Collaboration with other IEEE Sections

C.3.1: Support extended to neighbouring Sections.

- IEEE Karachi Section
- IEEE Islamabad Section

C.3.2: Joint activities with any other Section

- IEEE MiniPoco [Founded by Lahore Section and joint activity of three sections – IEEE Lahore Section, IEEE Karachi Section and IEEE Islamabad Section]
- IEEE Pakistan Student YP and WIE Congress [Joint activity of three sections – IEEE Lahore Section, IEEE Karachi Section and IEEE Islamabad Section]

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

- Support extended for organising technical, educational and professional activities.

For organizing Meetings of Chapters and Sub Section, Section paid reasonable amount to carry on activities.

- Joint activities for membership development

Membership Development activity was conducted in collaboration of Bahawalpur Sub Section to elevate and upstream the value of humanity through technology.

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

Section is providing continuously Advising support to Bahawalpur Sub Section to carry on activities and meetings in sub section to get it mature to sub section. In the recent year, Bahawalpur sub section tried to engage max. Industry and academia professionals. Which was proved fruitful.

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

- COMSOC Summer School Program [Its effective activity which is helpful to aware students and professionals].
- IEEE MINI POCO [Its effective activity which is helpful to aware set of people for organizing Conferences].
- Technical Meetings on topics which are urgent need of country like energy crises, EVs etc.
- Add Industrial Academia round table meeting within mega events to engage academia and industry which helped in bridging the gaps.

Annexure D: IEEE Lahore Section Future Goals and Plans.

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

- IEEE ICOSST 2024
- IEEE ICECE 2024
- IEEE ComSoc Summer School Program 2024
- IEEE International Workshop on Artificial Intelligence and Frontiers.
- IEEE National workshop on Smart Grid
- IEEE National Workshop on Robotics and Industrial Automation
- IEEE Lahore Section Student/Young Professional/Women in Engineering/Technical Congress.

D.2: Goals and Future Plans

- To provide a platform for networking for EE/CS/IT professionals
- To help in sharing knowledge and expertise at local level and International Level.
- To strengthen Industry-Academia Links
- To encourage and support student activities
- To organize Technical Meetings, Conferences, Summer Schools and Symposium for
- Development of Country
- To represent Lahore Section at international IEEE Forums
- To Initiate Professional Development Program which will help professionals to get engage
- and know about updated technology. Workshop/course under this program will be industry or research driven.
- Summer Champs, workshops, and International Conferences will be conducted which will be effective for IEEE members in Pakistan.
- Develop closer ties with R10 management.
- Increase membership through a concerted drive and activate dormant members
- Offer value for membership.
- Effective use of web and social media presence for realization of goals
- Invitation to industry professionals'
- Developing Calendar of Events and Activities

D.3: Business Plan for Sustainable Growth and Financial Stability.

- IEEE National Workshop on Robotics and Industrial automation.
- IEEE National Big Data Workshop
- IEEE National Workshop of Smart Grid
- IEEE Career Counselling Symposium
- IEEE Lahore Section Final Year Project Exhibition
- IEEE Summer Schools
- IEEE MINIPOCO
- IEEE LSYWTC