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PART A - SECTION SUMMARY

A.1 Executive Summary

- Section Executive Committee Member List

<table>
<thead>
<tr>
<th>S#</th>
<th>Name of Section Officer</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Dr. Amjad Hussain</td>
<td>Chair</td>
</tr>
<tr>
<td>2</td>
<td>Shahzeb Rathore</td>
<td>Vice-Chair</td>
</tr>
<tr>
<td>3</td>
<td>Usman Munawar</td>
<td>Secretary</td>
</tr>
<tr>
<td>4</td>
<td>Ijlal Haider</td>
<td>Treasurer</td>
</tr>
<tr>
<td>5</td>
<td>Usman Muhammad Ali</td>
<td>Student Activities Chair</td>
</tr>
<tr>
<td>6</td>
<td>Dr. Shafay Shumail</td>
<td>Past Chair</td>
</tr>
</tbody>
</table>

Past Chair

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</table>

Extended Members:

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<tbody>
<tr>
<td>7</td>
<td>Kashif Bashir</td>
<td>Chair, Communication Society</td>
</tr>
<tr>
<td>8</td>
<td>Dr. Waqar Mehmood</td>
<td>Chair, Computer Society</td>
</tr>
<tr>
<td>9</td>
<td>Dr. Suhail Aftab Qureshi</td>
<td>Chair, Power &amp; Energy Society</td>
</tr>
<tr>
<td>10</td>
<td>Faiza Nasir</td>
<td>Chair, Industry Application Society</td>
</tr>
<tr>
<td>11</td>
<td>Jamshaid Iqbal Janjua</td>
<td>Chair, Computational Intelligence Society</td>
</tr>
<tr>
<td>12</td>
<td>Dr. Wajahat Qazi</td>
<td>Vice Chair, RAS Joint Chapter Lahore</td>
</tr>
<tr>
<td>12</td>
<td>Aftab ur Rehman</td>
<td>Chair, Young Professionals AG</td>
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<td>13</td>
<td>Ijlal Haider</td>
<td>Chair, SIGHT</td>
</tr>
<tr>
<td>14</td>
<td>Asma Sajid</td>
<td>Chair, Women in Engineering AG</td>
</tr>
<tr>
<td>15</td>
<td>Anees Ul Husnain</td>
<td>Chair, Bahawalpur Sub Section</td>
</tr>
</tbody>
</table>
- **Section Highlights**
  - Formed in 1968 (formal Pakistan Section) – 50\textsuperscript{th} Year of Excellence
  - Members: 710
  - Technical Society Chapters: 4+2
  - Affinity groups: 3+1
  - Student Branches: 30
  - Section ExCom meetings: 07
  - Sub Section: 01

## Grade Description

<table>
<thead>
<tr>
<th>Grade Description</th>
<th>Dec-2017</th>
<th>Dec-2016</th>
<th>Dec-2015</th>
<th>Dec-2014</th>
<th>Dec-2013</th>
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<tr>
<td>Affiliate</td>
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<td>4</td>
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<tr>
<td>Graduate Student Member</td>
<td>70</td>
<td>66</td>
<td>61</td>
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<tr>
<td>Life Member</td>
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<tr>
<td>Life Senior</td>
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<td><strong>728</strong></td>
<td><strong>834</strong></td>
<td><strong>760</strong></td>
<td><strong>570</strong></td>
</tr>
</tbody>
</table>
• Major Events (International, National)

IEEE Pakistan Students/YP/WIE Congress’ 17

➤ Venue: Superior University
➤ Dates: October 13-15 2017
➤ Congress Chair: Sikander Ali Chisti
➤ Founder: IEEE Karachi Section: All Pakistan Sections Joint Event.

Sight Seeing: Badshahi Mosque

IEEE Lahore Students YP WIE & Technical Congress - 2017

➤ Venue: GCU Faisalabad
➤ Dates: December 08-10 2017
➤ Conference Chair: Abdullah Mughees
➤ Founder: Usman Munawar – Lahore Section
IEEE International Conference on Energy Conservation and Efficiency 2017

- Venue: Flatties, Lahore
- Dates: November 22-23, 2017
- Conference Chair: Dr. Waqar Mehmood
- Founder: Dr. Waqar Mehmood and Mr. Usman Munawar

IEEE ICOSST- 2017

- Venue: University Engineering & Technology, Lahore
- Dates: December 18-20 2017
- Conference Chair: Dr. Waqar Mehmood
- Founder: Dr. Waqar Mehmood
IEEE Mini POCO 2017

- Venue: Flatties, Lahore
- Dates: September 19, 2017
- Conference Chair: Dr. Sobia Baig
- Founder: Mr. Usman Munawar and Dr. Sobia Baig & Dr. Amjad Hussain

IEEE Smart Grid workshop 2017

- Venue: KICS, UET Lahore, Pak
- Dates: May 6th, 2017
- Conference Chair: Dr. Suhail Aftab Qureshi
- Founder: Mr. Usman Munawar, Shahid Zufiqar and Dr. Suhail Aftab
IEEE All Pakistan Power and Energy Symposium

- Venue: UET Lahore, Pak
- Dates: October 24-26, 2017
- Conference Chair: Dr. K M Hassan
- Founder: Mr. Usman Munawar, Mr. Huzaifa and Mr. Faizan

IEEE Summer School – Comsoc 2017

- Venue: Fast - NU & KICS UET Lahore
- Dates: July 11-14, 2017
- Conference Chair: Mr. Kashif Bashir
- Founder: Mr. Usman Munawar and Mr. Kashif Bashir
IEEE National Workshop on Robotics and Industrial Automation 2017

- Venue: University of South Asia, Lahore
- Dates: 3-4 January, 2018
- Conference Chair: Mr. Syed Tanveer Bukhari
- Founder: Mr. Usman Munawar and Mr. Rizwan

IEEE INMIC 2017

- Venue: Fast - NU, Lahore
- Dates: November 24-26, 2017
- Conference Chair: Dr. Amjad Hussain: Founder: Dr. Amjad Hussain and other IEEE Fellows.
Student Activities Highlights:

IEEE Lahore Section Student Branches

1. Beacon house National University, Lahore
2. COMSATS IIT, Lahore
3. FAST NUCES, Lahore
4. GCU Lahore
5. LUMS, Lahore
6. UET, Lahore
7. University of the Punjab, Lahore
8. UCEST, Lahore Leads Lahore
9. University of Management and Technology, Lahore
10. University of Lahore
11. University of Central Punjab, Lahore
12. Lahore College for Women University, Lahore
13. Superior University Lahore
14. IEEE Sharif College of Engineering & Technology, Lahore
15. University of Gujrat, Sialkot Campus
16. Bahria University Lahore Campus
17. UET KSK
18. UET Rachna
19. Leads University, Lahore
20. University of Gujrat
21. University of South Asia
22. FAST NU CES, Faisalabad
23. GCU Faisalabad
24. NFC Faisalabad
25. The University of Faisalabad
26. UET Lahore, Faisalabad Campus
27. Riphah University, Faisalabad
28. Islamia University Bahawalpur
29. Bahauddin Zakariya University, Multan
30. Khuwaja Farid Univesity, Rahim Yar Khan

Summary of Student Activities:

Events Conducted: 100+

- Workshops & Seminars – 80
- Orientations – 13
- Congresses – 2
- Industrial Visits – 5
- Competitions - 18

Significant Events:

- 5G – Framing the Future of Wireless - LUMS
- IEEE Career Counselling Symposium – PU
- TechnoArch – Leads University
- TechHawk – TUF
- Hult Competition – UET, KSK
- 2 Days SEO Workshop – UCP

Technical Visits:

- Nishat Power Plant – FAST NU, Lahore Campus
- PTCL Data Centre – Superior University
- Nishat Emporium - UET, KSK
- Ibrahim Fiber LTD – FAST NU, FSBD Campus
- PEL Lahore – UET, KSK
Awards and Achievements:

- Ms. Mehwish Nadeem, Research Officer: Presented Internationally as Distinguished Speaker | WIE Leadership Conference, Malaysia
- Ms. Faiza Munawar, Student FAST Serving Globally in IEEE IAS CMD Board Committee as Project Manager | USA
- Mr. Kashif Bashir, Chair IEEE COMSOC; Presented Internationally in RCCC, Globecom | Singapore
- Dr. Amjad Hussain and Mr. Ijlal Haider; Presented Internationally in IEEE Section Congress 2017 | Australia
- Dr. Amjad Hussain Presented Annual Lahore Section Report 2016 | Tokyo Japan
- Mr. Usman Munawar and Maria team won 1st Position IEEE IAS CMD Humanitarian Contest 2017 and achieved 1500 USD Grant for Humanitarian Project implementation in Pakistan
- Mr. Usman Munawar and Mamoon team won Best Poster Award | IEEE IAS USA Annual Meeting USA.
- Mr. Usman Munawar won IEEE PES YP Outstanding Award | 2017 – IEEE PES USA
- Mr. Usman Munawar Serving as IEEE Region 10 Educational Activities Committee as Member – Asia and Pacific
- Mr. Kashif Bashir won 6000 USD for organizing IEEE COMSOC Summer School Program 2017
- No. of Travel Grants won by IEEE Members in 2017
  - Ms. Maria Shaukat – EMBS Conference Korea
  - Ms. Kinaat – IEEE IAS Annual Meeting USA
  - Ms. Faiza – Uk, USA and Bahrain (IEEE IAS USA)
  - Mr. Hamza – IEEE IAS Annual Meeting USA
  - Mr. Mamoon – IEEE IAS Annual Meeting USA
## A.2 Financial Report

- **Summary (as per submitted L50)**

Financial reports are provided separately using NetSuit

- **Any other financial activities**

### Proposed Annual Budget 2018

<table>
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<th>Head</th>
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<td>EAC</td>
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<td>HAC</td>
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<td>YP</td>
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<td>Salaries</td>
<td>Section Manager (part time)</td>
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<tr>
<td>Travel</td>
<td>R10 (biennial) per year cost</td>
<td>100000</td>
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<td></td>
<td>Sections (triennial) per year cost</td>
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<td></td>
<td>Pakistan (ISB+KHI) average per year cost</td>
<td>30000</td>
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<tr>
<td>Misc.</td>
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<td>45000</td>
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<tr>
<td><strong>Total</strong></td>
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<td><strong>747000</strong></td>
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## PART B - ORGANIZATIONAL ACTIVITIES

### B.1 Membership Development Activities

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</tr>
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</table>

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.

During the year there were continual efforts to increase the membership and retain existing members. In particular the student branches organized a number of 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 established in the Lahore Section during the year 2017 Khawaja Farid University Rahim Yar khan and University of Sargodha Lahore Campus.

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.
IEEE Special Interest Group in Humanitarian Technologies (SIGHT) Affinity Group in the Section was established.

IEEE Consultants Network, IEEE IAS, IEEE CIS in the Section has been established.

**B.2 Chapter Activities**

- Total number of Chapters in the Section: 6
- Number of Chapters formed in the current year: 2
- Number of active Chapters (Chapters who have reported required number of meetings during the year): 6

**IEEE Bahawalpur Sub Section:**

Anees Ul Hussain
Branch Counselor, IEEE UCET IUB, Student Branch
Interim Chair, IEEE Bahawalpur, Sub Section
Assistant Professor,
Department of Computer Systems Engineering,
The Islamia University of Bahawalpur, Pakistan

Organogram of the Sub Section

- SOP for Selection of 1st Executive Committee of Bahawalpur Sub Section
- Approval for SOP
- Call for Nomination

Technical Activities

- 1st Sub Section Congress in BWP
- Rural Electrification
- FYPs to be directed as decided in Congress
- A group of FYPs at UCET – IUB was addressing Electrification

**CPD Activities powered by IEEE – Bahawalpur**

- IEEE WEEKS in the Region (PES & COMSOC)
- Invited Talks at UCET
- 2nd Sub Section Congress in RYK

**Technical Events / Ventures So Far**

- 1st Sub Section Congress in BWP
- Rural Electrification
- FYPs to be directed as decided in Congress
- A group of FYPs at UCET – IUB was addressing Electrification
• Collaborations
• CPD Activities powered by IEEE – Bahawalpur
• Balouch Education Council – Bahwalpur
• IEEE WEEKS in the Region (PES & COMSOC)
• Invited Talks at UCET

Upcoming:

2nd Sub Section Congress in RYK

IEEE PES

IEEE APES 2017 @ UET Lahore

IEEE Smart Grid Workshop 2017 @ KICS UET Lahore, Pak

INTERNATIONAL CONFERENCE ICECE- 2017 @ Faletti’s Hotel, Pakistan
As Technical Partner

Membership Stats & Student Chapters

- COMSATS Inst of Information Tech – Lahore (COMSATS)
- Islamia University of Bahawalpur
- UET Lahore
- FAST Lahore
- University of Faisalabad
- Superior University Lahore
- Sharif College of Engineering & Technology Lahore

Up-coming events

National Workshop on Smart Grid 2018 @LGU on 10 April 2018
IEEE COMSOC

Organizational Unit Officers:

1) Advisor of IEEE Comsoc Lahore Section:
   (a) Prof. Dr. Amjad Hussain, Chair IEEE Lahore Section
   (b) Prof. Dr. Waqar Mahmood, Director KICS UET Lahore
   (c) Prof. Dr. Bhawani Shanker Chair IEEE Karachi Section
   (d) Prof. Dr. Tariq Jadoon, HOD EE LUMS Lahore

2) COMMITTEE of IEEE Comsoc Lahore Section
   (a) Dr. Yasir Saleem, UET, Pak
   (b) Shahid Zulfiqar, UET, Pak
   (c) Usman Munawar, UET, Pak
   (d) Muhammad Hamza Ihtisham, PU, Pak

Organizational Unit Statistics:

No. of Student Members: 150
No. of Professional Members: 10
Increase in Members in Year 2017: 10%

Organizational Unit Events:

No. of Events Conducted: 20

Signature Event of Organizational Unit (If any):

1) World Telecom Day (16th May 2017)
2) Asia Pacific IEEE COMSOC Summer School (11-14 July 2017)

Signature Humanitarian Project/Community Service Project (If Any):

1) IEEE Teacher in Service Program (TISP) MOU Signing of ComSoc Summer School (16 Feb 2017)
IEEE Orientation at Bahria University Lahore (9 Jan 2017)
Organized by IEEE Bahria University SB

Type of Activity: Non-Technical

Description: IEEE Bahria University has arranged orientation for new members. COMSOC Lahore Section becomes its partner and participated in this. Chair COMSOC Mr. Kashif Bashir present talk on opportunities of COMSOC and IEEE membership.

Impact of Event on Community: Students were inspired and motivated to join IEEE. This event increase knowledge of participants.

Group Photo

IEEE UET Award Celebration (Best student Branch 2016) (26 Jan 2017)
Organized by IEEE UET Student Branch

Type of Activity: Non-Technical

Description: IEEE UET Student Branch has arranged this award celebration ceremony. IEEE COMSOC Lahore Section Participated and Chair COMSOC has given motivational talk. Mr. Usman Munawar secretary IEEE Lahore section and Prof. Dr. KM Hassan Advisor IEEE UET also talked on the occasion.

Impact of Event on Community: Students were inspired and motivated to join IEEE. This event increase knowledge of participants.
IEEE Lahore Chapter 1st executive meeting (27 Jan 2017)

Organized by IEEE Lahore Section

Type of Activity: Non-Technical

Description: Chair IEEE Lahore Section has arranged this Executive meeting and Chair COMSOC attended the meeting. Dr. Amjad, Usman Munawar, Shahid Zulfiqar, Mr. Humza, Mr. Usman Mali, Mr. Rizwan were also present in the meeting. Chair COMSOC Lahore Section presented major points in agenda that increases the operational abilities of Section. All participants appreciated the participation of COMSOC chapter.

Impact of Event on Community: New road map was defined for section which will help community and students of all student branches of section.

Group Photo
**IEEE Teacher in Service Program (TISP) MOU Signing of ComSoc Summer School (16 Feb 2017)**

*Organized by IEEE COMSOC Lahore Chapter*

**Type of Activity:** Technical

**Description:** COMSOC Lahore Section has arranged teacher in service program and give training to 30 teachers of TEVTA. COMSOC held a workshop titled ‘TISP (Teacher in Service Program)’ on 16th February 2017 TEVTA Teachers. Major Speakers were Mr. Amjad Hussain on IEEE Activities, Dr Ghalib Shah give workshop on IOT, Mr Fawad and Tayyab give workshop on BTS and BSC 6000, and Mr. Rizwan’s give workshop on the topic of Autonomous Robots with Artificial Intelligence, Mr. Usman M Ali gave talk on SEO Optimization and Entrepreneurship. After that there was a Technical Tour to Huawei telecom and IT Center also arranged.

**Impact of Event on Community:** Teacher of our community get its benefit. Their knowledge was increased. All Participants appreciate this activity and suggest to conduct more in future.
Seminar on Telecommunication and Future Technologies (28 Feb 2017)

Organized by IEEE COMSOC Lahore Chapter

Type of Activity: Technical

Description: welcome note presented by Mr. Kashif Bashir, HUTIC Manager UET Lahore and Chair IEEE COMSOC Lahore Chapter. A comprehensive session on the topics of 2G, 3G, 4G and 5G was presented by HUTIC UET Lahore’s official Mr. Tayyab. IEEE COMSOC International books were distributed among the students who excelled in their fields. A presentation on Internet of Things and its future opportunities was delivered by Ms Maham.

Impact of Event on Community: Participants appreciated this activity. Their knowledge was increased. All Participants appreciate this activity and suggest to conduct more in future.
COMSOC Lahore Chapter Meeting (14 March 2017)

Organized by IEEE COMSOC Lahore Chapter

Type of Activity: Technical

Description: Mr. Kashif bashir Chair COMSOC Lahore chapter called section meeting. Important issues were discussed. Important agenda points like: World telecom day and summer school were discussed. Other executive members of Lahore section also attended this meeting.

Impact of Event on Community: Participants appreciated this activity. Their knowledge was increased. All Participants appreciate this activity and suggest to conduct more meeting in future.
Technical Visit to Punjab Safe City Authority
(26 April 2017)

Organized by IEEE COMSOC Lahore Chapter

Type of Activity: Technical

Description: COMSOC Lahore Chapter has arranged technical visit to Punjab safe city authority. Mr. Yasir Saleem vice chair COMSOC Lahore chapter was also present in this visit.

Impact of Event on Community: Participants appreciated this activity. Their knowledge was increased. All Participants appreciate this activity and suggest to conduct more technical visits in future.
IEEE Lahore Section Meeting (5th May 2017)

Organized by IEEE Lahore Section

Type of Activity: Technical

Description: Mr. Kashif bashir Chair COMSOC Lahore chapter called section meeting. Important issues were discussed. Important agenda points like: World telecom day and summer school were discussed. Other executive members of Lahore section also attended this meeting.

Impact of Event on Community: Participants appreciated this activity. Their knowledge was increased. All Participants appreciate this activity and suggest to conduct more meeting in future.
World Telecom Day (16th May 2017)  
Organized by IEEE COMSOC Lahore Chapter

Type of Activity: Technical

Description: Chief Guest of the occasion Mr. Edward Zhang, Vice President of Huawei Enterprise Wireless Solution. Top Industry Partners join the celebration. Prof. Dr. Amjad Hussain Director Fast NU discussed on technology enhancements and communication development. Mr. Javed Aslam, Executive Vice President Technical PTCL, How PTCL connects us to the world. Director KICS, Prof. Waqar Mahmood too talked about the importance of Big Data. Mr. Sajjad Kirmani, CEO, Infogistic, revealed his views on legacy systems, advancement in technology, Big Data, cloud computing and telecom explosions in Pakistan. Mr Fysal Gill, Senior Director, Speed Cast, Technology and Satellite Systems. Mr. Moeez Ahmad Faizi and Deputy Chief, Telecom Punjab
Safe City. Mr. Kashif Bashir, IEEE ComSoc Lahore Chapter Chair, elaborated the Big Data impacts on the masses and told the panel about conducting more future events of these kinds.

**Impact of Event on Community:** All guest from top telecommunication companies participated in this celebration and shared their experiences. Participants got knowledge and inside of current telecom sector.

**Group Photo**

---

**Asia Pacific IEEE COMSOC Summer School**

**(11-14 July 2017)** *Organized by IEEE COMSOC Lahore Chapter*

**Type of Activity:** Technical

**Description:** Number of Researcher Participant: 65, Speakers: 14. International speakers were from China, Saudi Arabia, Estonia, Dubline and Malaysia. National speakers were from 9 universities (LUMS, COMSAT Lahore, UET Lahore, Mehran University Jamshoro). 2 Trips: Lahore Tour and Punjab Safe City Authority. Jointly organized by FAST National University & KICS UET Lahore.

**Impact of Event on Community:** Participants appreciated this activity. Their knowledge was increased. All Participants appreciate this activity and suggest to conduct more technical visits in future.
COMSOC Lecture at IEEE CUST SB (16 July 2017)

Organized by IEEE COMSOC Lahore Chapter

Type of Activity: Technical

Description: Dr. Hussain F. Mahdi presents IEEE Orientation at IEEE CUST Student Branch. COMSOC Lahore Chapter arranged his lecture on 16 July 2017. Mr. Mahdi was invited by COMSOC Lahore chapter for its comsoc summer school 2017. Islamabad section requested his lecture in CUST student branch. COMSOC Lahore chapter provided transport and arrangements for his travel to Islamabad.

Impact of Event on Community: Participants appreciated this activity. Their knowledge was increased. All Participants appreciate this activity and suggest to conduct more such talks in future.
IEEE Lahore Section Executive Meeting (28 Sept 2017)

Organized by IEEE Lahore Section

Type of Activity: Technical

Description: Mr. Kashif bashir Chair COMSOC Lahore chapter called section meeting. Important issues were discussed.

Impact of Event on Community: Participants appreciated this activity. Their knowledge was increased. All Participants appreciate this activity and suggest to conduct more meetings in future.
IEEE PSYWC’17 Technical Track 4 speakers

(13-15 Oct 2017)

Organized by IEEE COMSOC Lahore Chapter

**Type of Activity:** Technical

**Description:** IEEE COMSOC Lahore Chapter is one of the most active technical chapters in Lahore Section. This year on IEEE all Pakistan student young professional wie congress 2017 on 13-15 October 2017, COMSOC has conducted four sessions. These are the following details

Software Define WAN | Mr. Hassan Hafeez Khan CEO Techeglobal

- How to organize IEEE Summer Schools & its benefits | Mr. Kashif Bashir Chair IEEE Comsoc Lahore Section
- Future of Pakistan Telecom According to PTA | Dr. Ali Hammad Akbar (PhD. Ajou University) UET Lahore.
- Error correcting codes for 5G | Dr. Ubaid ullah Fiaz, UET Lahore (PhD. Georgia Institute of Technology, Georgia USA)

**Impact of Event on Community:** Participants appreciated this activity. Their knowledge was increased. All Participants appreciate this activity and suggest to conduct more tracks in future.

**Group Photo**
Technical Visit to PTCL Data Center (14 Oct 2017)

Organized by IEEE COMSOC Lahore Chapter

Type of Activity: Technical

Description: COMSOC also organized a technical tour to PTCL data center Lahore. PTCL technical team briefed about the operational instruction of the facility. Students also visited various parts of center including network, power & server parts. HR team also give presentation of professional career building.

Impact of Event on Community: Participants appreciated this activity. Their knowledge was increased. All Participants appreciate this activity and suggest to conduct more technical tours in future.

Group Photo
All Pakistan IEEE Section Meetings (13 Oct 2017)

Organized by IEEE IAS Lahore Chapter

**Type of Activity:** Technical

**Description:** On the occasion of IEEE PSYWC’17 there is all Pakistan Section meeting. All members were present from all sections. Mr. Parkash Lohana from Karachi, Mr. Hammad from Islamabad section. Chair COMSOC Lahore Section Mr. Kashif Bashir also present in the meeting. He talked about his vision and direction about IEEE. All Participants encourage the views of Mr. Kashif.

**Impact of Event on Community:** Participants appreciated this activity. Their knowledge was increased. All Participants appreciate this activity and suggest to conduct more meetings in future.

**Group Photo**
International Conference ICECE- 2017 / Participated as Lead Organizer (22-23 Nov 17)

Organized by IEEE IAS Lahore Chapter

Type of Activity: Technical

Description: Chair IEEE COMSOC Lahore Chapter Mr. Kashif Bashir Participated in 2 days International Conference ICECE 2017 as Lead organizer.

Impact of Event on Community: Participants appreciated this activity. Their knowledge was increased. All Participants appreciate this activity and suggest to conduct more conferences in future.

Group Photo
IEEE Communication Society Asia Pacific Regional Chapter Chair Meeting at GLOBECOM’17 (Singapore)

Organized by IEEE IAS Lahore Chapter

**Type of Activity:** Technical

**Description:** IEEE Communication Society Asia Pacific Regional Chapter Chair Meeting took place at IEEE Globecom 2017 at Marina Bay Sands in Singapore on 3rd and 4th December 2017. The purpose of RCCC is to facilitate and encourage sharing, feedback, and networking among chapter chairs, staff, and ComSoc officers. They were from the countries like USA, U.K, Australia, Japan, South Korea, Malaysia, Singapore, Hong Kong, China, India, and Pakistan. Besides Chapter Chair Meeting there is a COMSOC board committee meeting as well. Kashif Bashir Chair IEEE Comsoc Lahore Chapter from Al-Khawarzmi Institute of Computer Science (KICS) UET Lahore has presented Pakistan in this Meeting. Mr. Kashif Bashir, who represented Pakistan from the platform of KICS UET Lahore, delivered a presentation on the year 2017’s activities taken place in different universities of Pakistan. He especially mentioned Asia-Pacific IEEE COMSOC Summer School, World Telecom Day 2017, All Pakistan Congress PSYWC’17, Awards and Publications by COMSOC Lahore Chapter.

https://www.comsoc.org/about/chapters/rccc

**Impact of Event on Community:** Participation in these type of meeting really improves the image of Pakistan and encourage young members to work harder.

**Group Photo**
MouS signed with comsoc Lahore Chapter

Organized by IEEE COMSOC Lahore Chapter

Type of Activity: Technical

Description: Two MOUS were inked at the event as well among Chair IEEE ComSoc Lahore Chapter, Manager of Al-Khawarizmi Institute of Computer Science, University of Engineering and Technology Lahore, Pakistan, Chair IEEE Comsoc Chengdu Chapter China, Southwest Jiaotong University Institute of Mobile Communications and Prof Dr Lianfeng Shen, Chair IEEE Comsoc Nanjing Chapter China and Professor National Mobile Communications Research Laboratory School of Information Science and Engineering Southeast University signed the agreements. In the light of this agreement, the parties will initiate collaborations for promoting events of mutual interest.

Impact of Event on Community: Participants appreciated this activity. Their knowledge was increased. All Participants appreciate this activity and suggest to conduct more events in future.

Group Photo
Comsat Sahiwal student technical Seminar
(15 December 2017)

Organized by IEEE COMSOC Lahore Chapter

**Type of Activity:** Technical

**Description:** IEEE COMSOC Lahore Chapter has arranged a “Technical seminar for Telecom Students of Comsats Sahiwal. A delegation comprising of students and faculty members of Comsat University visited KICS (Al-Khawarazmi Institute of Computer Science) UET, Lahore on 15 December, 2017. They were given a warm welcome by Kashif Bashir Chair IEEE COMSOC Lahore Chapter, Shahid Zulfiqar Program Officer KICS UET Lahore. Chair IEEE COMSOC Lahore Chapter talked about the research work and research activities going on at the institute. He also presented the Comsoc activities performed in the year 2017. He especially mentioned IEEE COMSOC Summer School 2017, World Telecom Day 2017, All Pakistan Congress PSYWC, Awards and Publications by COMSOC Lahore Chapter.

Mr. Shahid Zulfiqar Program officer delivered a presentation on resume writing. Hafiz Tayyeb presented the overview of telecommunication technologies especially LTE and 5G. Dawer Saeed delivered a talk on Market oriented Final Year Projects and Mr. Hammad Hassan presented talk on Wireless sensor networks. Then Mr. Fahmeed Akram talked about the importance of Cyber Security and Telecom. Then at the end Certificates’ distribution was held. Mr. Kashif Bashir presented certificates among students and Faculty Members.

**Impact of Event on Community:** Participants appreciated this activity. Their knowledge was increased. All Participants appreciate this activity and suggest to conduct more events in future.

**Group Photo**
Conference WORKSHOP Exhibition Committee of ICOSST’17 18-20 December

Organized by IEEE CS Lahore Chapter

Type of Activity: Technical

Description: Chair IEEE COMSOC Lahore Chapter Mr. Kashif Bashir Participated in 3 days International Conference on open source system and Technologies ICOSST 2017 as workshop Exhibition Committee.

Impact of Event on Community: Participants appreciated this activity. Their knowledge was increased. All Participants appreciate this activity and suggest to conduct more conferences in future.

Group Photo
IEEE CS

Office Bearers & ExCom

- Chair – Dr. Ali Hammad Akbar, CS, UET, Lahore
- Vice Chair – Jamshaid Iqbal Janjua, KICS, Lahore
- Gen. Secretary - Dr. Waqar Mahmood, KICS, Lahore
- Treasurer – Dr. Farooq Ahmad, UCP, Lahore
- Member ExCOM- Dr. Sarmad Hussain, CLE, UET, Lahore
- Member ExCOM- Dr. Ghalib Shah, KICS, Lahore
- Member ExCOM- Dr. Razi Iqbal, Leads University, Lahore

SEMINARS/TALKS/CONFERENCE

<table>
<thead>
<tr>
<th>Sr.</th>
<th>Event Title</th>
<th>Event Type</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Introduction to SDR and Efficiently Developing Next Generation/5G Communication System</td>
<td>Seminar</td>
<td>February 15, 2017</td>
</tr>
<tr>
<td>2</td>
<td>Telecommunication (Hutic)</td>
<td>Seminar</td>
<td>April 14, 2017</td>
</tr>
<tr>
<td>3</td>
<td>Intellectual Property Laws and Patents Filing Procedure in Pakistan</td>
<td>Seminar</td>
<td>April 26, 2017</td>
</tr>
<tr>
<td>4</td>
<td>Talk on 'Industrial Internet of Things (IIoT)'</td>
<td>Seminar</td>
<td>August 04, 2017</td>
</tr>
<tr>
<td>5</td>
<td>11th IEEE ICOSST-2017</td>
<td>Conference</td>
<td>Dec 18-20, 2017</td>
</tr>
</tbody>
</table>

Industrial Demos/Tutorials

Title: Urdu Search Engine

Speaker: Mr. Kamran Amjad

High Performance Computing and Networking Lab (HPCNL), KICS, UET Lahore
**Title:** Application of Smart Energy Technologies in Building sector  
**Speaker:** Ms. Alina Munir AutoSoft Dynamics Pvt. Ltd

**Title:** Enabling Networks to Be More Agile using SDN  
**Speaker:** Mr. M. Muzaffar, IP Network Solution & Marketing

**Title:** Products Status  
**Speaker:** Hafiz Shehzad Ali, Teksify

**Title:** Neuro Marketing  
**Speaker:** Mr. Usman M Ali. INNOVA Networks SAC Chair, IEEE Lahore Section

**Title:** 3D Printing and its Impact  
**Speaker:** Dr. Javed Butt, Uk

**Title:** IGNITE Opportunities and Funding  
**Speaker:** Mr. Sohail Tanveer, Solicitation & Evaluation, IGNITE
IEEE CIS

OFFICE BEARERS

- Founding Chair—Mr. Jamshaid Iqbal Janjua, KICS, UET, Lahore

SOCIETY MEMBERS

<table>
<thead>
<tr>
<th>Phone</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>91246137</td>
<td>Mr. Jamshaid Iqbal Janjua</td>
</tr>
<tr>
<td>40153160</td>
<td>Dr. M Tahir</td>
</tr>
<tr>
<td>40295624</td>
<td>Dr. Waqar Mahmood</td>
</tr>
<tr>
<td>91268391</td>
<td>Dr. Sarmad Hussain</td>
</tr>
<tr>
<td>92257810</td>
<td>Dr. Shahid Mahmood</td>
</tr>
<tr>
<td>92685239</td>
<td>Dr. Razi Iqbal</td>
</tr>
<tr>
<td>90362443</td>
<td>Mr. Asim Tanwir</td>
</tr>
<tr>
<td>92292394</td>
<td>Ms. Asma Sajid</td>
</tr>
<tr>
<td>92808479</td>
<td>Mr. Zeshan Rana</td>
</tr>
<tr>
<td>93068044</td>
<td>Mr. Muhammad Mukhtar</td>
</tr>
<tr>
<td>92401438</td>
<td>Mr. Yawar Sheikh</td>
</tr>
<tr>
<td>92173402</td>
<td>Mr. Omer Malik</td>
</tr>
<tr>
<td>93004127</td>
<td>Mr. Faisal Usman</td>
</tr>
</tbody>
</table>

SEMINARS/TALKS/CONFERENCE

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<thead>
<tr>
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<th>Event Title</th>
<th>Event Type</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>National Workshop On Smart grid</td>
<td>Seminars</td>
<td>May, 6, 2017</td>
</tr>
<tr>
<td>2</td>
<td>'3rd International Workshop on Pattern Recognition Applications</td>
<td>Seminars</td>
<td>Oct, 10 to 15, 2017</td>
</tr>
</tbody>
</table>
IEEE RAS

Organizational Unit Statistics:

- Existing Student Chapters
  - University of Lahore
  - National University of Computer and Emerging Sciences – Lahore
- Proposed New Student Chapters
  - Superior University, Lahore
  - COMSATS Institute of Information Technology
  - University of South Asia, Lahore
  - Lahore Leads University and many others.....

Organizational Unit Events:

Organized
• **2nd IEEE National Workshop on Robotics and Industrial Automation, 2018**

• **IEEE RAS Section in 11th IEEE Pakistan Student / Young Professionals / Women in Engineering Congress 2017**

• **Robotics Section in National Conference of Computer Science and Information Technology**, held on May 03, 2017 at Lahore Garrison University, Lahore

**Participation**


• **2nd International Workshop on Robotics and E-Agriculture**, held on October 13, 2017 at Ali Institute, Lahore as part of Robo Mela 2017. Jointly organized by Lahore College for Women University, Lahore University of Management Sciences, University of Central Punjab, University of Lahore, University of Kaiserslautern, Germany and University of Siegen, Germany.

• **Workshop on Robotics Technology for Industrial Development in Pakistan**, held on April 10, 2017 at National University of Science and Technology, Islamabad, Organized by Ministry of Science and Technology, Pakistan

• **13th International Workshop on Field and Assistive Robotics**, held on October 13-14, 2017 at Ali Institute, Lahore as part of Robo Mela 2017. Jointly organized by Lahore College for Women University, Lahore University of Management Sciences, University of Central Punjab, University of Lahore, University of Kaiserslautern, Germany and University of Siegen, Germany.
Signature Event of Organizational:

- National Workshop on Cybernetics and Robotics (Proposed)
- iCREATE 2018 (Lahore-Islamabad-Karachi)
IEEE IAS:

IAS Lahore Section Officers

1. Faiza Nasir
2. Dr Bilal Arif (Senior Engineer Operations - Schneider Electric)
3. Syed M. Rizwan (Research Assistant – KICS UET Lahore)
4. Saad Rind
5. Farrukh Usman Mirza
6. Usman Zafar

Organizational Unit Events:

Section Events:

1. INTERNATIONAL CONFERENCE ON ENERGY CONSERVATION & EFFICIENCY (ICECE) 2017
2. 2nd IEEE National Workshop on Robotics and Industrial Automation

INTERNATIONAL CONFERENCE ON ENERGY CONSERVATION & EFFICIENCY (ICECE) 2017
NATIONAL WORKSHOP ON ROBOTICS AND INDUSTRIAL AUTOMATION:

2nd IEEE National Workshop on Robotics and Industrial Automation

Let's join a vibrant community of knowledgeable and robotics enthusiasts.

ORGANIZED BY

University of South Asia
47-Tufail Road, Lahore Cantt.

REGISTRATION LINK
bit.do/nwriaregistration
B.3 Professional and Continuing Education Activities

**IEEE Pakistan Students/YP/WIE Congress’ 17**
- **Venue:** Superior University
- **Dates:** October 13-15 2017
- **Congress Chair:** Sikander Ali Chisti
- **Founder:** IEEE Karachi Section: All Pakistan Sections Joint Event.

**IEEE Lahore Students YP WIE & Technical Congress - 2017**
- **Venue:** GCU Faisalabad
- **Dates:** December 08-10 2017
- **Conference Chair:** Abdullah Mughees
- **Founder:** Usman Munawar – Lahore Section

**IEEE International Conference on Energy Conservation and Efficiency 2017**
- **Venue:** Flatties, Lahore
- **Dates:** November 22-23, 2017
- **Conference Chair:** Dr. Waqar Mehmood
- **Founder:** Dr. Waqar Mehmood and Mr. Usman Munawar

**IEEE ICOSST- 2017**
- **Venue:** University Engineering & Technology, Lahore
- **Dates:** December 18-20 2017
- **Conference Chair:** Dr. Waqar Mehmood
- **Founder:** Dr. Waqar Mehmood

**IEEE Mini POCO 2017**
- **Venue:** Flatties, Lahore
- **Dates:** September 19, 2017
- **Conference Chair:** Dr. Sobia Baig
- **Founder:** Mr. Usman Munawar and Dr. Sobia Baig & Dr. Amjad Hussain

**IEEE Smart Grid workshop 2017**
IEEE AI Pakistan Power and Energy Symposium

Venue: KICS, UET Lahore, Pak
Dates: May 06, 2017
Conference Chair: Dr. Suhail Aftab
Founder: Mr. Usman Munawar, Shahid Zufiqr and Dr. Suhail Aftab

IEEE Summer School – Comsoc 2017

Venue: FAST - NU & UET Lahore Pak
Dates: October 24-26, 2017
Conference Chair: Dr. K M Hassan
Founder: Mr. Usman Munawar, Mr. Huzaifa and Mr. Faizan

IEEE National Workshop on Industrial Automation 2017

Venue: University of South Asia, Lahore, Pak
Dates: July 11-14, 2017
Conference Chair: Mr. Kashif Bashir
Founder: Mr. Usman Munawar and Mr. Kashif Bashir

IEEE INMIC 2017

Venue: FAST NU - Lahore, Pak
Dates: November 24-26, 2017
Conference Chair: Dr. Amjad Hussain
Founder: Dr. Amjad Hussain and other IEEE Fellows.
Continuing professional development

Date: October 25th, 2017.

Event details:
IEEE NUCES CFD Student branch conducted the first of the Continuing professional development activity series which is an initiative of PEC and is a necessity for any engineering program. IEEE took the responsibility of conducting the activity to make sure that the event is fruitful and a source of learning from the students. Two speakers were invited for this activity.

How to Conduct Research (Dr Gufran Khan.)

DC Power Distribution Systems. (Dr Faizan Dastgeer).

Dr Gufran’s talk was very helpful for the FYP and the master’s students who were in the process of writing thesis. Dr. Faizaan’s talk was regarding DC Power systems emerging again on the markets. Both the speakers were presented with souvenirs at the end of the activity.
B.4 Students Activities

- **Student Activities: IEEE Lahore Section**

  Engr. Usman M Ali  
  SAC Chair  
  Director – INNOVA Networks

**Hamza Ihtesham**  
SSR – Lahore Section  
Student - Punjab University

**Talha Saleem**  
ASSR – Lahore Section  
Student – The University of Faisalabad

**Farid Zamir**  
ASSR – Lahore Section  
Student – Islamia University Bahawalpur
IEEE Lahore Section Student Branches

31. Beacon house National University, Lahore
32. COMSATS IIT, Lahore
33. FAST NUCES, Lahore
34. GCU Lahore
35. LUMS, Lahore
36. UET, Lahore
37. University of the Punjab, Lahore
38. UCEST, Lahore Leads Lahore
39. University of Management and Technology, Lahore
40. University of Lahore
41. University of Central Punjab, Lahore
42. Lahore College for Women University, Lahore
43. Superior University Lahore
44. IEEE Sharif College of Engineering & Technology, Lahore
45. University of Gujrat, Sialkot Campus
46. Bahria University Lahore Campus
47. UET KSK
48. UET Rachna
49. Leads University, Lahore
50. University of Gujrat
51. University of South Asia
52. FAST NUCES, Faisalabad
53. GCU Faisalabad
54. NFC Faisalabad
55. The University of Faisalabad
56. UET Lahore, Faisalabad Campus
57. Riphah University, Faisalabad
58. Islamia University Bahawalpur
59. Bahauddin Zakariya University, Multan
60. Khuwaja Farid Univesity, Rahim Yar Khan

Summary of Student Activities:

Events Conducted: 100+

- Workshops & Seminars – 80
- Orientations – 13
- Congresses – 2
- Industrial Visits – 5
- Competitions - 18
**Significant Events:**

- 5G – Framing the Future of Wireless - LUMS
- IEEE Career Counselling Symposium – PU
- TechnoArch – Leads University
- TechHawk – TUF
- Hult Competition – UET, KSK
- 2 Days SEO Workshop – UCP

**Technical Visits:**

- Nishat Power Plant – FAST NU, Lahore Campus
- PTCL Data Centre – Superior University
- Nishat Emporium - UET, KSK
- Ibrahim Fiber LTD – FAST NU, FSBD Campus
- PEL Lahore – UET, KSK
IEEE Superior University Lahore Student Branch

Congress Summary

- Executive Summary

The 11th episode of IEEE Pakistan Student/YP/WIE Congress was held from Friday, 13th of October to Sunday, 15th of October, 2017. This three-day event was organized at Superior University Lahore in collaboration with IEEE Societies and chapters. The theme of PSYWC 2017 was “Driving Human Values through Internet of Everything (IoE)”. 600 students along with professionals and counselors in engineering joined the event to make it a success. The event started off with a welcome note and a keynote on organization’s goals. There were general and technical trainings and sessions relating to the topics such as Ethics, Humanitarian Activities and Engagement, Modern Technologies, Self-Management, Robotics and Automation, to name a few. Sessions, Workshops and meetings were held to get the audience enlightened with the initiatives IEEE has taken for the students. Activities for entertainment included the Cultural and Qawali Night, Gala and Movie Night and a memorable tour of Lahore Fort. Sessions on current technological era and industrial demands for students were also a part of the event.

Significant activities included:

- Session on Ethics
- Volunteerism Session
- Session on IoE and IoT
- Workshops and Panel discussion on Robotics and Artificial Intelligence
- Sessions on AI in Bioinformatics and medicine
- IEEE VTools and facilities awareness workshops
- WIE meet up and awareness
Career Counseling Sessions
Technical tour to PTCL data centre
City tour
Cultural and Qawali Night

Award Holders
Following awards were given to winners in Gala Night PSYWC17:

<table>
<thead>
<tr>
<th>Award</th>
<th>Winner</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outstanding Student Branch</td>
<td>Fast NUCES Lahore</td>
</tr>
<tr>
<td>Most Valuable Student Volunteer</td>
<td>Sheikh Muhammad Anas</td>
</tr>
<tr>
<td>Most Valuable WIE Volunteer</td>
<td>Mahrukh Rashid – UET Taxila</td>
</tr>
<tr>
<td>Outstanding WIE Student AG</td>
<td>PIEAS, Islamabad</td>
</tr>
<tr>
<td>Most valuable YP Volunteer</td>
<td>Usman Muhammad Ali</td>
</tr>
<tr>
<td>Most Valuable Sight Volunteer</td>
<td>Hassan Idrees – Karachi</td>
</tr>
<tr>
<td></td>
<td>Haris Zaman – Islamabad</td>
</tr>
<tr>
<td>Best SB Technical Chapter/ AG Advisor</td>
<td>Saqib Munawar – Nazir Hussain University Karachi</td>
</tr>
<tr>
<td>Best Student Branch Counselor</td>
<td>Dr. Muhammad Usman Hashmi – Superior University Lahore</td>
</tr>
<tr>
<td>Student Branch Leadership Award</td>
<td>Bakhtawer Ijaz – IEEE WIE CIIT – Lahore</td>
</tr>
<tr>
<td></td>
<td>Mudassar Akbar Khan – SSUET – Karachi</td>
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<tr>
<td></td>
<td>Syed M. Fahad Sajid – CUST – Islamabad</td>
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<tr>
<td>Outstanding Technical Society Student</td>
<td>IEEE PES UCET IUB</td>
</tr>
</tbody>
</table>
B. Detailed Report

1. Introduction

The IEEE’s Pakistan Student, YP (Young Professionals) and WIE (Women in Engineering) Congress (PSYWC) is the largest event for the students, young professionals and women in engineering in the three IEEE sections of Pakistan (Lahore, Islamabad & Karachi). The Congress gives a chance to the IEEE student branch members, young professionals and women belonging to different fields of science and technology from all over Pakistan to gather at one place and learn new skills while polishing their expertise. They are provided with the platform to meet, socialize and share professional experiences with each other. In the past few years, different universities having IEEE student branches have organized this congress and it improves and grows every year. With 2007 being the year of first and inaugural episode of this amazing gathering held at IEEE Student Branch of NUCES-FAST Karachi.

Recently, the 11th Episode of Pakistan Student, YP (Young Professionals) and WIE (Women in Engineering) Congress has organized by IEEE Student Branch of Superior University Lahore with the aim of gathering 650 students, young professionals and women in engineering and many other disciplines to share knowledge and industrial experiences of modern era.

Event covered a wide range of skills development sessions, workshops and panel discussions. Top speakers from IEEE Region-10 came to share their knowledge related to their experiences and industrial demands.

About theme: “Driving Human Values through Internet of Everything (IoE)”
### Congress History

<table>
<thead>
<tr>
<th>Year</th>
<th>Host Section</th>
<th>Host Branch</th>
<th>Congress Chair</th>
</tr>
</thead>
<tbody>
<tr>
<td>2007</td>
<td>IEEE Karachi Section</td>
<td>FAST-NU Karachi</td>
<td>Om Parkash Betra</td>
</tr>
<tr>
<td>2008</td>
<td>IEEE Lahore Section</td>
<td>GC University Faisalabad</td>
<td>Amir Zahoor</td>
</tr>
<tr>
<td>2009</td>
<td>IEEE Islamabad Section</td>
<td>NUST – Islamabad</td>
<td>Osaid Khaliq</td>
</tr>
<tr>
<td>2010</td>
<td>IEEE Karachi Section</td>
<td>Usman Institute of Technology, Karachi</td>
<td>Abdul Hai Khan</td>
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<tr>
<td>2011</td>
<td>IEEE Lahore Section</td>
<td>GC University, Lahore</td>
<td>Abu Turab Gillani</td>
</tr>
<tr>
<td>2012</td>
<td>IEEE Islamabad Section</td>
<td>GIK Institute of Technology, Topi-Islamabad</td>
<td>Ahsan Farooqui</td>
</tr>
<tr>
<td>2013</td>
<td>IEEE Karachi Section</td>
<td>Mehran UET, Hyderabad</td>
<td>Moiz Rahman</td>
</tr>
<tr>
<td>2014</td>
<td>IEEE Lahore Section</td>
<td>Fast- NU Lahore</td>
<td>Mohammad Attique</td>
</tr>
<tr>
<td>2015</td>
<td>IEEE Islamabad Section</td>
<td>Comsats Islamabad</td>
<td>Muhammad Usama</td>
</tr>
<tr>
<td>2016</td>
<td>IEEE Karachi Section</td>
<td>Fast-NU</td>
<td>Shujjan Akhwand</td>
</tr>
<tr>
<td>2017</td>
<td>IEEE Lahore Section</td>
<td>Superior University Lahore</td>
<td>Sikandar Ali Chishty</td>
</tr>
</tbody>
</table>

### About Hosting Institute

IEEE Student Branch (SB) Superior University Lahore was established in January, 2014. By July 2017, it counts 172 members. The Student Branch gives students the opportunity to meet and learn from fellow students, as well as faculty members and professionals in the field. IEEE SB SUL focuses on extending the educational and volunteering experience of students in technological and social sides. It encourages students in their lives and professional career through events such as motivational sessions, industrial tours and technical courses and attempt to improve students’ education through sustainable innovation. In addition to some social activities, the branch organizes many technical activities as workshops, conferences, competitions and lectures provided by local and international professionals.

### Registrations Highlights

This year, we are gratified to announce that PSYWC17 had an enormous amount of participation. We got 532 participants from all over the Pakistan. Here are some further details of participants:

<p>| Total Registrations | 532 |</p>
<table>
<thead>
<tr>
<th>Category</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Universities</td>
<td>46</td>
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<tr>
<td>Speakers</td>
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<tr>
<td>Male</td>
<td>303</td>
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<tr>
<td>Female</td>
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<td>Non-IEEE Members</td>
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<td>Teams</td>
<td>18</td>
</tr>
<tr>
<td>Team Members</td>
<td>172</td>
</tr>
</tbody>
</table>
Opening Ceremony
Opening ceremony took a start with National Anthem of Pakistan, continuing with the welcome note delivered by Khwaja Hisham-Ul-Hassan (Registrar SUL). He welcomed all of the participants, delegates and honorable personalities while admiring the courage and contribution of youth, especially women over in engineering. Moreover He appreciated the efforts of IEEE SUL branch counselor and organizers.

IEEE Vision 20-30
A keynote on IEEE Vision 20-30 was conveyed by Dr. Amjad Hussain (Chair IEEE Lahore Section). Dr. Amjad warmly welcomed all the guests to the congress and started by sharing info about IEEE. He told that IEEE is a worldwide developed organization, reaching the largest professional party of about 400,000+ members. It has 10 regions; each region has different sections controlling activities area wise. There are 38+ technical societies serving much to humanity and there are many opportunities for every human to serve in any way of his/her expertise and serve humanity through the technological evolution.

Group photos of guests and participants were taken after the session.
Ethics

Ethics or moral philosophy is a branch of philosophy that involves systematizing, defending, and recommending concepts of right and wrong conduct. This session was hosted by Dr Bilal Qutab. He elaborated that ethics seeks to resolve questions of human morality by defining concepts such as good and evil, right and wrong, virtue and vice, justice and crime. He told that each act has a proper way of carrying which is much important to practice.

- He said that nowadays youth is so busy in their lives to keep moral and ethics; priorities have changed, while it is not good at all.
- He gave the many references from Quran as highlighting Moral and Sunnah as Ethics, saying that we should develop the capacity to think critically about moral values and direct our actions in terms of such values.

Importance of Volunteerism

This session was delivered by Mr. Parkash Loahana, who came from Karachi. He presented volunteerism through case study of a project completed by his team. He told that normally students go to universities and get degree only; this conduct is apologetic because student doesn’t get what he/she supposed to. The need of the hour is that, we need to support humanity in better means. He shared how he served the underprivileged society of Umar-cot and made their lives much better by providing them solar systems. He told that there are many important things to do as our responsibility, shared Tedx motivational video on volunteerism. Start with little things and adopt the rule of give and take, as it’ll not only polish your self-esteem but also make us a better human being.

Session on VTools

Workshop on vTools was conducted by Mr. Murtaza Hanif. VTools Training focused on the introduction and use of IEEE VTools to actively participate and excel in the organization. VTools provide facility to report organized activities in a proper format and search required information about the whole IEEE community.
Making Computations Smart using CASIO WIZ Technology
Session was delivered by Mr. Jawad Mirza, taking a kick-start from the history of calculator and the difference of the rapid change in technology of smart computations. Session accentuated that latest calculators comprise much more; we can solve problems just by entering expression. Casio has made calculator a mini computer on hand, having mini Ms excel, step programming, vector calculations, graphs and games as well. Moreover various techniques of using different CASIO calculators and implementations were shared.

The Art of Self Management
Mr. Bilal Ghumman initiated with the importance of improving oneself. At the core of self-management are three skills everyone must develop:

- Learning to manage your commitments and time;
- Cultivating the motivation and capability to learn new things on your own in support of your work
- Building and nurturing your personal network.
- Live in the moment and take start from little thing, setup goals and make habit to do and gain something. These practices will surely improve your selves.

Mr. Sagheer acknowledged and explained the role of career planning in this era where everyone talks about skills. Now this is the time where no winners or losers exist except success failure and power of choice. One’s negotiation, leadership and communication is much important than technical knowledge while IEEE is the biggest platform to adopt these qualities. Be your own hero and give yourself the opportunity to the road to success.
YP Young Speakers Session --- “Life Changing Experiences”

Session was managed by Mr. Aftab Ur Rehman. Many young professionals shared their revolutionary experiences with audience in order to make them observe their life changing obstacles and failures.

Each had a different pitch of success. For someone it is blogging and for someone else, it is volunteerism. Corporate challenges sprout overnight, and even more turbulent times are to come in the future organizations. To manage this rapid change, only technical skills are insufficient so at each level of an organization, the new talent must realize that certain leadership skills are mandatory.

Several questions asked and answers were given; session ended up with minds full of inspiration and creativity to do something.

Sessions on first day ended up with great zeal and spirits. After huge amount of sessions with technical and educational sessions, entertainment activities started after a break. Stalls setups and preparations for cultural night started up.
Cultural Eve
Participants from all over the Pakistan represented their culture. Cultural, singing and dance performances pooled the venue with theme of Pakistan culture.
Qawwali Night

Sufi devotional music by Qawwals, rouse participants to a state of mystical ecstasy. Traditional activities of Sufism spotted the venue in peace and pleasure. Following images are some highlights of the moment:

Day-2
Robotics on R.I.S.E

Day-2 started with a keynote on robotics delivered by Dr. Yasar Ayaz (HOD SMME, NUST), which proved very informative to all the audience. Sessions and panel discussion on Robotics also held there. Keynote pitched present situation of robotics in Pakistan and its importance nationwide. Robotics is all about intelligence. Area/country doesn’t matter at all, while Pakistan is playing a prominent role in robotics. As population is increasing nation wise, demands have also increased; so instead of consuming human efficiency on meeting human needs manually is just inadequate. IEEE Robotics and Automation Society are supporting professionals and youngsters in the field of robotics.

Session on “How to develop artificial mind for Robots” was delivered by Dr. Wajahat Qazi (Assistant Professor at COMSATS Institute of Information Technology, Lahore and heading “Intelligent Machines and Robotics” research group). Artificial intelligence (AI) is arguably the most exciting field in robotics. It’s certainly the most controversial: Everybody agrees that a robot can work in an assembly line, but there’s no consensus on whether a robot can ever be intelligent. Developing a robot we must keep what’s and how’s, functionalities, meet cognition (thinking about thinking), adoption, episodic memory (long-term memory), semantics (facts and ideas) and code-let of robot in our mind; memories regardless of databases because they must have the habit of forgetting. A cognitive architecture requires representation, cognitive process, cognitive cycle, attention and consciousness. Introduced NiHA (Nature-inspired Humanoid Cognitive Computing Platform for Self-aware and conscious Agents). NiHA is a work in progress, which was initiated to study various correlates of consciousness in-silicon.

Topic of “Pursuit of imagination in Cognitive Robots” elaborated by Mr. Tanveer Bukhari (Assistant Professor University of South Asia). Cognition is all about experience and the mental
action or process of acquiring knowledge and understanding through thought. Our traditional approaches to solve the problems we have cognitive robotics field, in which we study the architecture of human brain and replicate it in the robot. Actually we try to implement the concepts from neuroscience and taking it towards physiology. We use memory concepts; as NiHa’s model is inspired by human mind.

Workshop on “Universal Robots” was given by Mr. Usman Younas (CTO, Devrim Technologies). Devrim technologies have done many recent market projects based on bots. Many international projects done on robotics were discussed; highlighting that robots are much useful and the need of this era. Industrial robots don’t affect jobs in a bad way but serving as helping hand to humans by doing what stops human survival.

Panel Discussion on “Future of Robotics and industry 4.0 in Pakistan”
Dr. Yasar Ayaz, Dr. Wajahat Qazi, Mr. Abdul Wahab Gill (CEO, Services Syndicate Group), Mr. Usman Younus and Mr. Arsalan Ul Haq (CEO, Devrim Technologies) discussed the importance and future of robotics in industry. Many questions were asked.

What is the future of Artificial Intelligence in Pakistan?
Right now, as we’re at no.6 in populous countries of the world. So demand for products is increasing rapidly. Our production is still manual; and if we make our production advanced, we import machines from abroad. Well at many sites, robotics technology is being used. As far as government has realized, robotics is being used at top 6 sectors of Pakistan technology focus in vision 20-25 and officially stated by vision 20-25 and the first center of advertisement is AI in it. Every year technology is growing by 1% in Pakistan and 1.7% worldwide. And there will be a great evolution soon IA.

We need to implement robots for all the works human can’t, as it’s a nature to be in ease.

Importance of IEEE STEM education was also delivered.

**Is it too expensive to make AI robot in Pakistan?**

If you are passionate about something to do, you’ll absolutely invest for it. Besides this IEEE membership supports in learning techniques, workshops and somehow funds. And if you don’t have even a penny, you can design your idea.

Importance of Robotics and Automation Society was given, as a very active society of IEEE currently working in Pakistan.

Session on Robotics and AI was amazing; participants learned a lot about current state and the future of bots in industry. They also provided the students with a bird’s eye view analysis of the industry, which helped broaden their vision to not just stick to one option, but look at all prospects. It also helped students think and explore about technology trends.

**WIE Meet up**

Meet up started with zeal and healthy spirits, managed by Sania Arshad (Chair IEEEWIE Lahore Section). It aimed to gather all the WIE members and share their working activities and ideas about what women can do for society including engineering activities, social work, tours and trips, networking sessions and workshops etc.

Sania highlighted the importance of IEEE WIE, telling the initiatives member under wie can take. Methodology and procedure of interaction with section and regions wise, funding and reporting were also discussed. The meeting provided a visible platform to publicize the students’ healthy spirits and innovativeness.
Workshop on “E-Commerce through drop shipping”
Workshop on drop-shipping was conducted by Mr. Asees Yaqoob (Director, Cybex School of IT Professionals). Drop shipping is a ‘You Sell - We Ship’ kind of business model. First decide what product(s) you want to sell online and then find suppliers/drop shippers of those products(s) and make an agreement with them. Workshops highlighted the ways to meet the market demand and rating about products. Issues and solutions of drop-shipping were also discussed. Workshop was of great importance to the participants to start a startup and initiate a business with dun and creativity.

Future of Pakistan Telecom
Dr. Ali Hammad Akbar (Assistant Professor UET Lahore, Past Chair of IEEE CS Lahore) conducted the session. Pakistan’s telecom industry has seen quite a few ups and downs in the previous year, especially with the government imposing restrictions on services in the name of national security. Only few universities have telecom programs. However the future for telecommunication in Pakistan looks exciting, with increased market saturation, continuous innovation and transformation in technology being the key to future growth. Local and global telecom policies and licensing frameworks were also discussed. Cellular service providers will increasingly look to provide innovative entertainment and financial services to increase their market share. The convergence of mobile devices with online applications through continuous innovation is a step towards developing a services based mobile ecosystem which will usher in an era of exciting mobile communications. Session was much innovative and informative which made participants aware about the telecom sector of Pakistan.

Workshop on “Software Define WAN/WLAN”
Hassan Khan conducted the workshop which helped students know about the networking locally and worldwide. Software-defined WAN (SD-WAN) is a technology that distributes network traffic
across wide area networks (WAN) that uses software-defined networking (SDN) concepts to automatically determine the most effective way to route traffic to and from branch offices and data center sites. Characteristics and connectivity overview of SD-WAN was shared. Segmentation process, which is essential for security of WAN, benefits and its importance were also discussed. Participants gained their knowledge about networking and data communications. All in all, the session was great especially to the engineers, and gave them insight beyond their bookish stuff.

Data Science and Big Data Analytics
This session was conducted by Dr. Shahid Mahmood Awan (Assistant Professor, UMT, and Data Scientist). Data Science and Big Data Analytics are exciting new areas that combine scientific inquiry, statistical knowledge and computer programming; making evolution in this technological era. Session pooled up students’ mind with big data theories and techniques, process (conceptualization, problem definition, data collection and modeling), tools of trade and its applications. Session highlighted importance of data scientists in business. Session acknowledged audience with the modern term “Big Data”.

Applications of Machine Learning in Bioinformatics
While during all the sessions, there held a session on bioinformatics delivered by Dr. Sajid Mahmood. Machine learning is a subfield of computer sciences involving algorithms development, has a number of applications in bioinformatics. Genomics, proteomics, microarrays, systems biology, evolution, and text mining are its applications. Datasets and methodology of these applications were also discussed and then comparison was taken with previously reported studies. Session was considered very informative to all the students, especially students in the field of bio sciences.

Invited Talk
PTCL Vice President participated telling about PTCL. He started with history of PTCL and continued with its current strategies and issues. Talk was scheduled to spread awareness among the students about the most used telecom company which is providing its services from many decades.

Talk extended its importance with technical tour to PTCL data center, where critics of data transfer processes were discussed in more details.
“Zinda Dilan-E-Lahore”

City Tour to Lahore Fort

Group Photo at Badshahi Mosque
Gala Night/ Awards Night
Day-3

Cognitive Computing
As the most applicable technological trend, a session on cognitive computing was given by Syeda Hifza Marij. Session started with concepts of artificial intelligence and machine learning. Cognition is all about thoughts, experiences and senses. Cognitive computing which is about mimicking human brain is now a base for advanced computational machines. Nowadays cognitive computing is being used in many AI applications including exert systems, natural language programming, gaming, neural networks, robotics and virtual reality. E.g. Open AI, IBM Watson.

Preventive Maintenance and IoE (Internet of Everything)
Being the theme of PSYWC17, this session was delivered by Mr. Hassan Raza (CEO, Revolution Frame). Talk started by an overview about IoE, Power of Cloud Platforms and ML, IoT (internet of things) devices, LPWAN and Industrial Maintenance. IoE success is all about interoperability, innovation, decentralization and security. IoE design steps and market map were also discussed. Videos to demonstrate cloud computing, IoE Fluid and maintenance were also shared. At last challenging questions were asked from audience and speaker appreciated the interest of audience and session ended up with the bottom line “Innovate Future Now!”

Workshop on “How to invite DLP”
DLP (Distinguished Lecturer Program ) workshop was taken by Mr. Shahid Zulfiqar (Secretary IEEE PES Lahore Section).IEEE Distinguished Lecturers are engineering professionals who help lead their fields in new technical developments that shape the global community.

These experts:
- Specialize in the field of interest of their Society/Council
- Travel to various technical and regional groups, such as Society and Technical Council Chapters, to lecture at events

There are certain benefits of distinguished lecturer program. We can invite a lecturer to conduct a workshop or session:
International speakers from renowned institutions

- All travel charges paid by IEEE
- One lecture per chapter every year

Process to invite DLP was also shared. Moreover some other grants were also shared. Session was quite informative and effective for the executive members of IEEE Societies.

How to apply EAB/TAB Funding/Section Educational Opportunities
Session conducted by Mr. Ijlal Haider (Assistant Professor UoL, Treasurer IEEE Lahore Section). A brief history about IEEE was given at kick-start.

- What exactly is IEEE?
  - A pure technical organization
  - A humanitarian organization
  - Both
- What are the interests of IEEE?
  - Educational Activities (EAB)
  - Technical Activities (TAB)

Educational activities areas, programs and projects were shared; on which global funding like EPICS, TISP, Seed Grant Program, IEEE foundation and regional funding like TISP, accreditation, outreach program and EA support fund, were discussed. TAB which included DLP, conference program and technical societies has DLP, technical and financial funding were also shared which made participants glad to know how much IEEE is supporting us over our volunteering activities.

IEEE SIGHT Training
In accordance with the motto of IEEE “Advancing Technology for Humanity” Mr. Junaid Mian chair, IEEE- SIGHT (Special Interest Group on Humanitarian Technology) Islamabad gave a training session to promote the awareness about how to serve humanity. Activities around the globe, especially Islamabad section SIGHT-projects and campaigns were shared. Session conversed that the IEEE SIGHT is an initiative that provides a platform for the IEEE members wishing to work and devote their time and talents to humanitarian work consistent with the IEEE’s constitution to bring the benefits of technology to the world. The inception of the IEEE-SIGHT is a success story in itself for it beautifully amalgamates humanitarian work with advancing technology to bring change.

Ignite Sessions
Ignite sessions were given by many professionals connected with IEEE societies, in which focal points were the benefits and motives to be IEEE member.
Ms. Asma Sajid advisor, IEEE GCU Faisalabad highlighted the importance of publishing one’s activities done under IEEE. She elaborated the IEEE opens the door of opportunities to students and professionals that help you develop your professional identity. And once you are done with membership, do explore more opportunities, report the activities you do and apply for reward as well; as these practices help you do more to serve humanity.

Mr. Aftab Ur Rehman Waince, chair IEEE YP Lahore and CEO Cybex School of IT Professionals gave talk about “Richard E Merwin Student Scholarship” and it application procedure. He has worked a lot as a volunteer and got Outstanding Student Volunteer Award IEEE Lahore Section (Punjab) 2014, Richard E Merwin Student Scholarship and Award 2016 (INTERNATIONAL).

Ms. Mehak Saeed ASSR, IEEE Islamabad Section talked about “connecting to professionals through IEEE platform”.

Mr. Khurram Jillani, Advisor IEEE RAS Superior University Lahore talked about many aspects of professional practices under IEEE which includes:

- How should we be a part of professional environment?
- How to satisfy your leader?
- How to deal with issues and complications?

Shields were given to the speakers as a medal of appreciation.

**Innovations of Machine Learning in Medicine**

Machine Learning is a branch of artificial intelligence, concerned with the design and development of algorithms that allow computers to evolve behaviors based on empirical data. As intelligence requires knowledge, it is necessary for the computers to acquire knowledge.

Session on “Innovation of machine learning in Medicine” was given by Dr. Uzma Jamil Assistant Professor, Department of Computer Science GCU Faisalabad. Scenarios, their testing and training and algorithms of top AI applications in medicine were discussed. Session was significant especially for bioinformatics students which ended up with question answer session.

**Workshop on “3D Printing”**

3D printing is one of the latest technologies of the world. Mr.
Hammad Shafqat SAC Chair, IEEE Islamabad Section gave talk about “3D Printing”. He is performing his service in 3D Printings and Modeling Design Solutions since 2015. 3D printing is about transforming your ideas into reality which is popular in sectors of education, research, architecture, medical, robotics, defense, aerospace and civil engineering. Its scope and applications were highlighted. Furthermore the issues of printing costs and quality were discussed and solutions were given. The session covered the printing statistics, filaments and sample models.

Hands-on Workshop on “2D Drafting and 3D Modeling with AutoCAD”
Workshop on 2D drafting and 3D modeling was conducted by Mr. Ali Fraz Khalid (Mechanical Engineer, Drafter and 3D Modeler UET, Lahore). He defined 2D and 3D modeling. Moreover he acknowledged 3D material addition and removal techniques and daily life applications.

WIE Meet Up
WIE meet up was conducted by Ms.Sania Arshad (WIE chair, IEEE Lahore Section) in which many issues and solutions were shared. Sania told what activities a WIE team can perform and how to receive rewards. Several questions were asked and answers were given. The aim of awareness about IEEE WIE got achieved with the activity of chocolates distribution among the audience.

Additional Sessions
- Research activities at LUMS Dr. Naveed Arshad
- Channel Coding in 5G by Dr. Ubaid Ullah Fiaz (UET, Lahore)
- Summer School Program by Mr. Kashif Bashir
- Serving and preparing our Next Generation of IEEE Leaders by Mr. Saqib Munawar

Closing Ceremony
With praise and admiration of successful PSYWC17, all the organizing teams and advisors of PSYWC, speakers and distinguishing guests got appreciation souvenirs. Mr. Sohail Aftab Qureshi (UET, Lahore) appreciated Superior University for its work and excellence.

Khwaja Hisham Ul Hassan (registrar Superior University, Lahore) congratulated all the attendees and applauded all the organizing committee for their enthusiastic efforts and left all hopeful for the country’s future. Both professionals and students acquired knowledge and insights of industry and modern era. All the participants left feeling inspired and with new zeal and zest for technological evolution.
5G – Framing the Future of Wireless

Description

The continuously increasing demand for wireless data has pushed researchers to search for new technologies in order to significantly expand wireless data capacity and network capability. Industry experts universally agree that even with current and planned infrastructure rollouts, data demand will continue to outpace capacity and shifting the debate from ‘if’ to ‘when’ this will occur. Wireless service providers plan to furiously upgrade their networks to 4G LTE, LTE-A and beyond, adopting new innovations including multiple input, multiple output (MIMO) and carrier aggregation, along the 3GPP roadmap. However, it is clear that the current technology trajectory still produces a capacity slope more flat than the demand line. Embracing the challenge, wireless researchers around the world have begun their journey to investigate new wireless technologies that will be part of a fifth generation or 5G network. Researchers are not only addressing capacity in their innovations, they also aim to improve coverage and reliability at the cell edges, improve energy efficiency for providing service, and decrease latency - all of which will improve the overall responsiveness of the network. To this end, researchers are focusing on four potential technologies to make 5G a reality.
An Evening with Professor Asad Abidi

Date: September 21, 2017

Summary of the Talk

According to Dr. Abidi, he was not a very brilliant student in his early life. This was partly due to the nature of his father’s job as a chief engineer in Water and Power Development Authority. He had to change his city every year. He experienced a variety of cultures and academic settings in different cities ranging from Jacobabad, one of the hottest places on the planet to Karachi, the center of Pakistan’s economy. At the age of 10, he was admitted to Cadet College, Hassan Abdaal, where he enjoyed a diverse environment with some brilliant minds. After some time, he moved to UK, where he was admitted to a technical training school. Then he got admission at Imperial College, London, where he completed his Bachelors in Electrical Engineering. The rest of his life is pretty well known.

According to Professor Abidi, the secret to success is hard work and book reading. He advised the engineering students to understand the deep mathematics behind all engineering concepts.
IEEE Fast-Nu Chiniot

CPD Activity.

**Date:** October 25th, 2017.

**Event details:**

IEEE NUCES CFD Student branch conducted the first of the Continuing professional development activity series which is an initiative of PEC and is a necessity for any engineering program. IEEE took the responsibility of conducting the activity to make sure that the event is fruitful and a source of learning from the students. Two speakers were invited for this activity.

How to Conduct Research (Dr Gufran Khan.)

DC Power Distribution Systems. (Dr Faizan Dastgeer).

Dr Gufran’s talk was very helpful for the FYP and the master’s students who were in the process of writing thesis. Dr. Faizaan’s talk was regarding DC Power systems emerging again on the markets. Both the speakers were presented with souvenirs at the end of the activity.
IFL Industrial Tour.

**Date:** April, 24th 2017.

**Event details:**

IEEE NUCES CFD Student branch continued its tradition to give industrial exposure to the students and to promote industry academia linkage. An industrial tour was arranged to Ibrahim Fiber. Since IFL is immaculate in its quality, technology and management, it was a perfect place for the students to visualize the technology and connect their theoretical knowledge with the ground realities of the industry. The students were well received by the IFL staff and they gave a full tour of every section of their polyester unit and explained every machinery, its purpose and the technology behind them. Students were welcome to question regarding any confusion that they had. IFL had arranged for lunch for the students.
JUMP START SHEPHERD’S PIE SEASON 3

Date: October 7th, 2017.

Event details:
It was a start-up event to invest in student’s ideas and final year project. The scale of the event was regional (Faisalabad). There were a total of ten regions. Ten groups presented their ideas out of two were selected to compete on national level. The event also included TED style talks by notable and distinguished guests:

- Mr. Khuram Zuberi
- Ms. Sharmeen Ahmed
- Mr. Zaydan Khan
- Mr. Salman Khawar

The attendance of the event was approximately 450 which included faculty members and 60+ IEEE Registered members.

Objectives achieved:

- A brilliant initiative by our student branch to encourage young entrepreneurs.
- Industrial-Academic linkage was established.
- Investment opportunity for students doing their FYP and young entrepreneurs.
- Exposure for new IEEE members.
- Entrepreneurship and incubation concepts were preached.
- Certificates of appreciation and shields were given to the IEEE volunteer members.
Latex Workshop

Date: 11 November, 2017

Event details:
- IEEE NUCES CFD organized a session on Latex beautiful typesetting, Latex is a documentation tool which is very useful for students writing research papers, thesis and project reports.
- FYP students were invited to attend the session to get assisted in their FYP documentation.
- Our counsellor, Dr. Gufran Khan was the speaker and resource person of this session
- The session continued for an hour and a half and concluded with reasonable and thought provoking question answering session
- Students of graduate level were the highlight of this event as they gave their input and self-experience of documentation and the problems they faced at their time
- Faculty members who aspire to continue studies through post-graduation also took part in the session
- Dr Gufran Khan, ended the session on a light note and asked the attendees to contact him in case of any issue they face with Latex

Objectives:
- Latex introduced as an alternative to Microsoft word to students
- Graduate students and faculty also took benefit from the session
- Basic understanding of the tool
- Kickstart to some typesetting techniques
- All types of formal documents and their formats were taught with valid examples
Membership Drive

**Date:** April and October 2017

**Event details:**
We have successfully arranged two membership drives this year and made more than 35 new IEEE members this year. Our graduating batch is about to leave campus so we needed new members to keep this branch active and running.

The campaign was run for two weeks in both April and October of this year.

**Objectives:**
- New members and larger volunteer force
- Our previous team was of only 15 members but now we are very high in number as an IEEE family in our campus
- Future and sustainability secured of the society
- Capable of arranging large scale events now
- More participation for IEEE in future from our student branch
- Bright future of the Student Branch
HANDS-ON WORKSHOP ON PROTEUS AND PCB DESIGNING

Date: October 19th, 2017

Event details:
IEEE NUCES CFD Student branch conducted a workshop to teach freshmen students about one of the most important simulation software for circuit simulations: Proteus. Freshmen were also taught how to make their own PCB designs and practically make PCB boards. It will prove fruitful for them in the future when they will work on their semester projects, individual projects or their FYP.

The number of students who registered and attended the workshop were 90. Two labs were fully utilized for the workshop. The senior students who were trainers are as follows

- Haider Kazmi
- Tayyab Sheikh
- Fahid bin Tariq

The workshop was conducted in three steps:

- Step-by-step introduction to Proteus
- PCB design on Proteus
- Practically making PCB

Objectives achieved:

- Productive activity for freshmen in a light environment.
- Exposure of giving training for senior students.
- Mutual interaction and ice breaking among EE batches.
- To enlighten the freshmen students about circuit simulations and PCB designing and making.
RISE OF BLOCKCHAIN IN WORLD OF WORK

Date: November 2nd, 2017

Event details:
IEEE NUCES CFD Student branch conducted a session to spread awareness about rise of block chain in the world of work. Mr. Salman Anjum, block chain evangelist, an international speaker from Dubai, discussed the rise of block chain in the world of work and how it is being applied in business and work. AI, IOT AND BIG DATA linkages with block chain were discussed. Interactive Q/A session were held. The attendance of the event was approximately 250 students. 50 IEEE members participated. It was a two hour interactive session. Souvenirs presented to speaker at the end.

Objectives achieved:
- Concepts of block chain technology preached among students
- Misconceptions about block chain usage in crypto currency were cleared.
- A fruitful session for people interested in block chain.
- Exposure to an international speaker for IEEE members and students of Fast Nu.
- Applications of block chain technology clearly explained.
ROBOS UNLEASHED 3.

Date: April 16th, 2017

Event details:
IEEE NUCES CFD Student branch continued the robos unleashed saga and successfully conducted Robos unleashed 3. It was a hands on workshop on the basics of robotics and its main applications. Each team was provided with a purpose built robotics kit which had all the necessary components of making a robotic car. The trainers were the senior batch students of EE department. The students were taught to build their own robotic car from scratch along with detailed explanation of the sensor working and the microcontroller coding.

Objectives achieved:
- Students were given a priceless skill of robotics.
- An introduction to microcontrollers was provided to the students.
- Exposure to features such as Bluetooth control and line following was given to the students.
- Applications of robotics were clearly explained.
IEEE UET KSK

Hult Prize Competition
Date: December 8\textsuperscript{th}, 2017

Venue: Seminar Hall of Main Library UET KSK

Event Attendees: 60-70 students & 12 Faculty Members

Event Description
With the topic "Harnessing the power of Energy" for the year 2018, Hult prize is the world biggest social entrepreneurs organization & a project of Bill Clinton.
Induction Drive IEEE UET KSK

Date: November 17th - November 20th 2017

Venue: Main Library Electrical Department UET KSK

Event: Attendees: 190-200 students

Event Description
IEEE UET KSK Induction drive was held to register students to join the largest and most professional technical society of world. Interviews were held and selected candidates became member of IEEE UET KSK.
Bloom 2017

**Date:** October 25th, 2017

**Venue:** Seminar Hall of Electrical Department UET KSK

**Event Attendees:** 70-80 students & 2 Faculty Members

**Event Description**

IEEE UET KSK conducted an interactive session Bloom'17 for the newcomers of batch 2017. The session was headed by Mohsin Mirza from PEL. It included different activities and tasks which can prove to be stone breaking for new comers before they start their professional career.
Industrial tour to PEL Lahore

Date: October 20th, 2017

Venue: Pak Elektron Limited Lahore

Event Attendees: 60-70 students & 2 Faculty Members

Event Description
IEEE UET KSK organized an Industrial tour to PEL Factory, Lahore. Students were briefed about PEL, its appliances. A visit to various sections of manufacturing and assembling units was also carried out at the end.
Orientation Session 17

Date: October 17th, 2017

Venue: Seminar Hall of Main Library UET KSK

Event Attendees: 60 students & 8 Faculty Members

Event Description
An orientation session was held by Department of Electrical Engineering and Technology for the new comers of batch 2017. The faculty of EE department presented an insight about department & its facilities, Courses being offered and the new LMS system. Session ended with a visit to different labs and classes of EE department.
IEEE DAY 2017

Date: October 3rd, 2017

Venue: Electrical Department Ground, UET KSK

Event Attendees: 50-60 society members

Event Description
IEEE UET KSK celebrated IEEE Day 2017 on 3rd October, 2017. Event included an orientation session from IEEE Lahore Section followed by cake cutting ceremony and other activities.

With passion and tremendous efforts IEEE UET KSK once again marked it's place on International level by bagging 3rd position throughout the world in IEEE DAY 2017 Photo Contest.
UET Open Day 2017

**Date:** July 29th, 2017

**Venue:** UET Lahore

**Event Attendees:** 12 Faculty Members

**Event Description**

UET Lahore organized its 2nd Annual Open Day for prospective candidates willing to take admission in UET Lahore. The efforts of team [IEEE UET KSK](#) were highly appreciated by worthy Campus Coordinator of UET KSK Campus [Muhammad Zafar Noon](#) and other officials from Electrical Department.
Final Year Project Exhibition

Date: May 17th, 2017

Venue: Seminar Hall of Main Library UET KSK

Event Attendees: 60-70 students 12 Faculty Members

Event Description

IEEE UET KSK organized the Final Year Project Exhibition of session 2013. Projects included variety of disciplines that come under Electrical Engineering. Renowned representatives from Industry and Academia were invited. They appreciated the efforts of the students and said that the hard work of the students was commendable.
IEEE FAREWELL

Date: April 24th, 2017

Venue: Seminar Hall of Main Library UET KSK

Event Attendees: 60-70 students 12 Faculty Members

Event Description
IEEE UET KSK bids farewell to their senior members and founders of this society.
Industrial visit to Nishat Emporium

**Date:** February 18th, 2017

**Venue:** Nishat Emporium Mall

**Event Attendees:** 30-40 students & 2 Faculty Members

**Event Description**
Team IEEE UET KSK visited the Nishat Emporium Power system and learned about the operation in detail which included visit of Substations, Control Rooms, Generation Room and Chilling rooms. Team IEEE UET KSK appreciates the cooperation of Nishat team and Schneider Electric for making this possible.
Project to Product Workshop

Date: February 8th, 2017

Venue: Seminar Hall of Main Library UET KSK

Event Attendees: 60-70 students & 5 Faculty Members

Event Description
IEEE UET KSK in co-ordinance with KICS UET presents an interactive workshop 'Project to Product'.

![Image of a lecture hall with a presentation screen and attendees]
IEEE Punjab University Student Branch

IEEE Career Counselling Symposium 2017

**Event Date:** 31st October, 2017

**Venue:** Department of Electrical Engineering, University of Punjab

**Event Attendees:** 250+

**Event Description**
Speakers covered various aspects of career counselling including CV writing, Skills Management, Research and Research paper, Scholarships exchange programs and fellowships in foreign
Inauguration of WIE IEEE PU affinity group

**Event Date:** March 16, 2017

**Venue:** Department of Electrical Engineering, University of Punjab

**Event Attendees:** 150+

**Event Description**

For encouragement of female volunteers of student branch.

Different female speakers especially from technical fields were invited for the motivation of volunteers.
Hands on Workshop of Arduino and Raspberry Pie

Event Date: March 1st, 2017

Venue: Department of Electrical Engineering, University of Punjab

Event Attendees: 200+

Event Description
This event was focused on enhancing the skills of students in advance knowledge of Arduino and Raspberry Pie. Technical speakers were invited for the hands on training of the students.
Hands on Workshop on MATLAB

**Event Date:** March 2nd, 2017

**Venue:** Department of Electrical Engineering, University of Punjab

**Event Attendees:** 150+
IEEE BZU Student Branch

Oath Taking Ceremony
Date: 20\textsuperscript{th} March, 2017

Event Description
This ceremony is held for the volunteers for taking oath that they will work with full enthusiasm, passion and heartfelt for the advancement and betterment of IEEE. Polished volunteers to give better ideas and to arrange innovative events in the future. Awareness of the designation and responsibilities of volunteers.
Promotion of IEEE on Funfair Stalls

Date: 27th March, 2017

Event Description
This social event was organized for the promotion of IEEE in UCE&T BZU so that people should cognizant of this International society. There was a dissever stall of IEEE on the funfair. In this stall, local membership was given to the people who were inclined towards IEEE. About 25 local memberships were given. Also there were different games for entertainment like 1- Dart Game 2- Glass Pyramid Game 3- Word Game. There were different prizes for the winner which includes 1- IEEE ballpoints 2- IEEE Plastic Glass Many pamphlets and stickers were given to the local members of IEEE. Narrating the people the Benefits of IEEE and Why IEEE is helpful and how it can be helpful after taking the membership.
Study Tour to HPT (High Power Transmitter) and PBS (Pakistan Broadcasting Station) Multan

Date: 4th December, 2017

Event Description

Study Tour held under IEEE BZU student branch was to make students aware of how communication systems work, how signals are transmitted from a radio station to long ranges, how signals are processed and filtered to recover the message signal. Lastly, how do we listen to clear and loud radio stations on our radio set.
Motivational Seminar “YOU CAN WIN”

Date: 5th April, 2017

Event Description

In this seminar, the audience was dawned upon with the momentous of doing something actionable, practical, functional and serviceable of themselves. The eloquent speaker, Engineer Amir Riaz swayed the listeners with the words of wisdom, courage, gallantry, self-assurance, self-esteem and above all, has awaken the inner self to show the world what you are capable of. This seminar was organized by an international org. IEEE, yet another platform for the students to get cognizance of their pros and overcome their cons and get motivated to achieve to what their future is holding.
Workshop on PCB
Date: 5th and 6th May, 2017

Event Description
Informative and illuminating workshop held under IEEE. PCB, Printed Circuit Boards one of the most functional innovations of electrical engineering in which the electrical components are soldered on a thin sheet of conductor, making the whole circuit electrically connected and thus reducing the complexity. Professionals from COMSTAS Abbottabad have come here to light the candles of excellences by their fire of knowledge.
Tech Exe 17 (Project Exhibition)
Date: 7th September, 2017

Event Description
Excellences, diligences and the arduousness of the students putting forth their knowledge of curriculum and turning it out to an existing application should be well appreciated. IEEE has provided an opportunity for the students to exhibit the prototype of their project providing the useful and fundamental operation and proving their stance of their creation. Not only the elderly has triumphed over their learnings of the past four momentous years but it has also prompted the Youngers to think and work in a collateral but more influential way.
Job Winning Seminar
Date: 4\textsuperscript{th} October, 2017

Event Description
Org. IEEE of UCE&T BZU, Multan is very vigilant in overwhelming the aroused factor of inadequacy of confidence in the new generation facing the problems not only when being adjudicated but also when one has self-trust leads to the selection of wrong profession and then results in an ultimate chaos. This seminar has been conducted for the students to face their fears, overcome the anthropophonic and do down of themselves and how they can secure a better job.
IEEE Fast-NU Lahore

IEEE Week 2017

Date: 19th – 23rd April, 2017

Description:
IEEE Week 2017 is the premier forum for advances in technology. The event-packed week brought together researchers and practitioners from academia and industry to explore their shared interests in tools, techniques, and technology. We invited everyone to participate in IEEE Week by sharing their research, insights, experience, and enthusiasm.

Impact of Event on Community:
The highlighted purposes this event achieved were:
• Bringing together all the major contributors to science and technology.
• Offered enormous opportunity for students to prove their mettle.
• Made the participants learn working in teams and manage challenging situations

COMPETITIONS & EXHIBITIONS

Group Photo:
MicroDev

**Date:** 9th January, 2017

**Description:**
IEEE-WIE and VizRah, in collaboration with MicrotechX, brought MicroDev, a workshop on Microsoft Technologies.

Day 1: Microsoft Azure and Cloud Computing by Saad Mahmood
Day 2: Overview of mobile apps using Xamarin by Asfendyar Hamid
Day 3: Training on ASP.NET with MVC framework by Usman Sheikh

**Impact of Event on Community:**
The event was able to educate the students on latest cutting edge Microsoft technologies which will benefit them as an industry professional and a researcher likewise.

**Group Photo**
Web development workshop

**Date:** 25th January, 2017

**Description:**
This was a 5 day workshop that introduced participants to various client side and server side features of web development including javascript, jquery, html+css, php and mySql. This workshop also included an introduction to Django framework for an understanding of MVC architecture.

**Impact of Event on Community:**
The fundamentals of web development were taught in this course, the students learned about front end development and also about back end development. Day to day assignments were given to students so that they can learn the things taught in class better.

**Group Photo**
Intergeneration of Power, Evolving Grid challenges and Research

Date: 30\textsuperscript{th} January, 2017

Description:
The one day talk was organized by PES. It discussed newly evolving challenges in the field of power electronics and generation and solutions to counter those challenges.

Impact of Event on Community:
Energy generation and consumption has become a crucial factor in the survival and prosperity of mankind. Therefore it is very important for the future professionals in the area to be equipped with necessary knowledge and tools to deal with real world challenges related to generation and consumption. The talk gave a chance to the participants to actively discuss different aspects of this ever emerging field.

Group Photo
Ruby on Rail

Date: 16th March, 2017

Description:
A three day hands-on web development workshop (Ruby on Rails) by IEEE-Women In Engineering (FAST Lahore Branch) in collaboration with Tintash.

Impact of Event on Community:
The event explored various aspects of Ruby on Rail to equip participants to get a taste of the evolving software world.

Group Photo
Embedded Week 17

Date 21st-25th March, 2017

Description:
IEEE Circuits and Systems society conducted its mega event “Embedded Week” from 21st to 25th of March excluding 23rd of March. In this four day workshop the participants were familiarized with boards commonly used in embedded circuits. The workshop included tutorials of both hardware and software. Participants were also given hands on experience of these single board computers. Detailed tutorials on arduino, raspberry pi and PCB design were given to the participants.

Impact of Event on Community:
The objective of this workshop was to acquaint the participants with the single board computers most commonly in use these days. The participants were provided with enough knowledge that they can now work independently on these boards in future.

Group Photo
IEEE ComSoc Summer School

Date: 11th-14th July, 2017

Description:
IEEE ComSoc Lahore envisioned to become a key organization for bringing in the most advanced techniques and technologies in the field of communication. This it planned to do by encouraging new students to explore and become part of telecommunication and IT industry of Pakistan. This will improve implementation of modern knowledge in this field.

Impact of Event on Community:
This program was designed for fresh graduates, MS/PhD students to promote research. The program covered fundamental, advanced and hot topics that will brighten young graduates about current industry trends, knowledge & scope of communication field.

Group Photo
Description:
iOS is a mobile operating system created and developed by Apple Inc. exclusively for its hardware. It is the operating system that presently powers many of the company's mobile devices, including the iPhone, iPad, and iPod Touch. This workshop in particular provided a complete guide about becoming an iOS developer. The content of the workshop consisted of Basic Introduction about tools, designs and language.

Impact of Event on Community:
It provided a complete step by step guidance along with implementation about developing different types of iOS Apps. By the end of the course the participants had a complete grasp over the iOS. The aim was to make sure that people will learn about latest developing tools.

Group Photo
IEEE NUCES Orientation 17

Date: 12th October, 2017

Description
IEEE NUCES Lahore Student Branch welcomed students to the most exciting orientation session of the year to come and avail the opportunity to become a part of the international platform of IEEE.
Guest: Dr. Amjad Hussain
Director FAST-NUCES, Lahore
Chairperson IEEE Lahore Section
Speakers:
Shahid Zulfiqar (Gen. Sectary IEEE PES Lahore Section)
Muhammad Hamza Ihtisham (SSR IEEE Lahore Section)

Impact of Event on Community:
It offered a chance to become part of the world's largest association for the advancement of technology.

Group Photo
Talk by Mentor Graphics

**Date:** 20th October, 2017

**Description:**
The event had the following components presented by Mr. Zeeshan Altaf, Senior Engineering Operations manager:

- Overview of Mentor Graphics Pakistan
- Overview of Embedded system
- Components of Embedded System
- Embedded system in smart industries
- Developing career in Embedded System

**Impact of Event on Community:**
The participants seemed enthusiastic to interact with a leading industry professional and gaining insight into the embedded world. The faculty was also able to organize a three week long workshop in the beginning of January in collaboration with mentor graphics which will assist students to apply theoretical knowledge to practical world.

**Group Photo**
Nishat Power plant Visit

Date: 27th October, 2017

Description:
Industrial trip to Nishat Linen and Power plant was organized by IEEE-IAS Nuces Chapter (27 October 2017). It provided an opportunity for our students to interact with the electrical engineers in the field and get to know what was expected of them in the industry.

Impact of Event on Community:
Industry academia interaction is central to polished and skilled fresh graduates. The trip gave deep insight to the final year students as to what was expected of them in the industry so that they can increase their chances of entering into it with a groomed skillset.

Group Photo
Ethical hacking Seminar

Date: 14th November, 2017

Description:
This session was a part of campaign to raise awareness among general public about Ethical Hacking. For this purpose we called Mr. Hamza Rabbani who is an ethical hacker and a developer. He holds a privileged certification in field of cyber security eCPPT (eLearnSecurity Certified Professional Penetration Tester). He has been a member of focus group discussion with gov. of Punjab regarding Punjab cyber emergency response team (pCERT).

Impact of Event on Community:
Session was about _How attackers get to us as individuals_. We can make computers secure to an utmost level but its not about security of systems at the end of day, it is the workforce and the individuals that matter. Attackers get to us via a method, which is what was discussed in this session.

Group Photo
Seminar on Cloud Computing

Date: 16th November, 2017

Description:
1. The title of the seminar
ONSTAK: An Advance Technology Services Company

2. The salient topics to be covered in the seminar
Journey & Company Overview
Whom we have Served - Experience
Service Verticals & Training Outlines
Key Note & Upcoming Programs & Events

Impact of Event on Community:
Onstak Help organizations achieve greater operational agility, better IT governance and tighter integration of components across the enterprise from applications and platforms through cloud infrastructure.

Group Photo
Workshop on PLC

Date: 8th November, 2017

Description:
This 2-day workshop included a detailed description of PLC and its architecture. After completing this workshop attendees were able to design a
i) Traffic Light Control System
ii) Water Level Indicator System
iii) Elevator Control System

Impact of Event on Community:
IEEE Industry Applications Society presented Workshop on PLC which enabled professionals or students to have the basic knowledge of Programmable Logic Controller and pursue a career in this field.

Group Photo
Cyber security seminar

Date: 20th November, 2017

Description:
Seminar was conducted by Mr Khalid Hussain, who is Technical Solutions Specialist in Microsoft Cyber Security & Modern Workplace.
The agenda was to cover up the main key points that included:
1. Landscape of Cyber Security
2. Threat Management
3. Data Governance
4. Advance Threat Analysis and Protection
5. Threat Intelligence
6. Career Paths with Cyber Security Tracks

Impact of Event on Community:
Cyber security, focuses on protecting computers, networks, programs, and data from unintended or unauthorized access, change, or destruction.

Group Photo
PES WEEK 2017
Date: 6th to 13th March, 2017

Description:
PES WEEK was conducted at UCET IUB from 6th to 13th of March 2017. It contains 3 workshops and one presentation competition. The aim of the Project was to develop technical skills in students of UCET IUB, about how to work on all technical engineering projects. To inform students about industrial technology. Event parts are:-

Proteus and PCB Design Workshop, Mat lab Workshop, PLC Workshop, Presentation Competition.

Impact of Event on Community:
Participant of event became able to form small level projects by all these workshops. PLC workshop was very helpful especially for the students of 3rd and 4th year engineering students to work on some high level projects.
Transformer Workshop

Description:
Transformer workshop was conducted in Bahawalpur Grid Station. One of the officer guide all about transformers to the students of UCET IUB Electrical Engineering students.

Impact of Event on Community:
All the confusion of students about transformer was clear by that practical work.

Group Photo
PES ORIENTATION

Description:
A session is organized for the students of UCET IUB to inform them all about IEEE-PES. How to organize events. Working body of IEEE-PES and their roles. How to develop social environment in campus.

Impact of Event on Community:
Some students thought social activities is just the wastage of time and have bad impact at academic result. After this event mind set of such students has changed, Now many of them are the part of IEEE-PES team.

Group Photo
KAPCO TOUR

Description:

Kot Addu Power Company Limited is a Pakistan-based power generation company. The Company's principal activities are to own, operate and maintain a multi-fuel fired power station with approximately 15 generating units with a nameplate capacity of 1,600 megawatts (MW) in Kot Addu, District Muzaffargarh, Punjab. Industrial tour for UCET IUB students at KAPCO was organized to guide students about practical industrial environment.

Impact of Event on Community:
An industrial tour to KAPCO was very helpful specially for the students of Electrical power engineering. Now they know much about controlling of electrical generators, gas and steam turbine working. How engineers work in professional environment.

Group Photo
A DAY WITH CHILDREN OF ORPHANAGE

Description:
IEEE-PES organize this event in collaboration with some local Bahawalpur societies, with an aim to somehow, remove their loneliness. To spent some time with them, to motivate them. To play some games with them.

Impact of Event on Community:
All children was very happy by this all activity. Smile on their face was one of the most precious thing for all of us.

Group Photo
F.F.C TOUR

Description:
Fauji Fertilizer Company Limited (FFC) is the largest chemical fertilizer producer of Pakistan with biggest market share in the country. Industrial visit at FFC under the supervision of two faculty member was organized to guide students about professional working environment.

Impact of Event on Community:
Students learned a lot about the professional working environment. Knowledge of controlling machines from one central room was very helpful for participants of this visit.

Group Photo
MICROSOFT VISIO WORKSHOP

Description:
Microsoft visio workshop was organize for the students of UCET IUB. Many students participated in that event. All about Visio working, how to design block diagrams and much more was teach by Event Speaker.

Impact of Event on Community:
All those students who participated, are able to design their project block diagrams, flow charts very easily and much more, without the wastage of time in learning from other sources.

Group Photo
IEEE DAY 2016 CELEBRATIONS IN UCET Bahawalpur

Date: 4th October 2016

Description:
IEEE UCET IUB members celebrated IEEE Day 2016 in engineering department of The Islamia University of Bahawalpur with ardently. A seminar on “Web Designing” delivered by the web developer of APTECH, computer institute Bahawalpur. This topic is not included in engineering programs but “Web designing” is a market orientated topic, the trainer delivered her experience to IEEE members and participants. She told the basic tools of web designing that how we can design a website using Wordpress. She also designed a website during the seminar so that the students could understand the tools in a better way. The students benefited a lot from this seminar and we got a lot of positive response for it.

After the Seminar, different chapters of the student branch including WIE AG and IAS played their promotional videos.

A cake cutting ceremony had also been arranged to celebrate IEEE Day. The chief guest, the Director of APTECH Bahawalpur cut the cake.

The branch advisor also familiarized the nonmember participants with IEEE and the benefits of joining it.

Overall, it was a successful event thanks to all the volunteers!

Impact of Event on Community:
The student were taught basic tools of web designing that how we can design a website using Wordpress. The speaker also designed a website during the seminar so that the students could understand the tools in a better way. The students benefited a lot from this seminar and we got a lot of positive response for it.
WIE Volunteers Oath Taking Ceremony

**Date:** 20\(^{th}\) December 2016

**Description**

WIE volunteer oath taking ceremony was held on 20\(^{th}\) December 2016. In this ceremony, all the new members were given an introduction of WIE along with a few of the future plans of the team.

A formal oath taking ceremony was held and our advisor, Ma’am Anum Farooq welcomed the new members into the team.

The promotional videos for WIE IEEE were also played during the oath taking ceremony.

The advisor also familiarized the non-member participants with IEEE and the benefits of joining it.

**Impact of Event on Community:**

New volunteers were really motivated and looking forward to be of use in the society. They were all ready to give their best.

**Group Photo:**
Motivational Talk during BSSYWC

Date: 30th December

Description
A motivational talk with the topic “Its Life Not the Lecture” was arranged by WIE AG UCET IUB as a part of the first Bahawalpur Sun-Section Congress. Sir Farrukh Hammad Rasool from the faculty of Fine Arts joined us as a guest speaker for this talk.

He motivated the students by giving them some examples from his own life experiences. In this modern society we are stressed to take good grades and often told that if we don’t have any good grades we’ll be left out in the race. But he told us that life is way more than having good grades. We ought to respect life and others and to live it to the fullest so that when we grow old and look back, we don’t have any regrets. So, he gave us hope that we can win the race by not murdering our Ethics, Values and our Language.

Impact of event:
Students were very motivated. They asked a lot of questions about how to attain happiness and peace.

Overall, it was a successful event thanks to all the volunteers!
IEEE Pakistan CYBER SECURITY CONFERENCE 2017: 11 March 2017 at Regent Hotel

- **Event details:**

IEEE Pakistan Cyber Security Conference took place on 11th of March 2017 in Grand Regent Hotel Faisalabad. It was conducted under the supervision of Chairperson IEEE Young Professionals Lahore Section. It included 300+ participants from all around Faisalabad.

- **List of speakers:**

Cyber security experts from All over the Pakistan.

- **Participants:**

410 participants from all around Faisalabad.
YP Track at IEEE PSYWC’17
IEEE YP TLS at CYBEX SCHOOL of IT Professionals

IEEE YP TLS at The University of Faisalabad
IEEE YP TLS at University of Sargodha Woman Campus

WIE

Advising Chapters Student chapters

1. GCU Faisalabad
2. GCU Lahore
3. NUCES NU Lahore
4. UET, Lahore
5. NFC Faisalabad
6. COMSAT IIT, Lahore
7. Islamia University Bahawalpur
8. Bahauddin Zakariya University, Multan
9. University of the Punjab, Lahore
10. NUCES NU Faisalabad
11. Lahore college for Women University, Lahore
Inauguration of WIE IEEE PU affinity group

Event Date: March 16, 2017

Venue: Department of Electrical Engineering, University of Punjab

Event Attendees: 150+

Event Description
For encouragement of female volunteers of student branch.

Different female speakers especially from technical fields were invited for the motivation of volunteers

WIE Meet up

Meet up started with zeal and healthy spirits, managed by Sania Arshad (Chair IEEEWIE Lahore Section). It aimed to gather all the WIE members and share their working activities and ideas about what women can do for society including engineering activities, social work, tours and trips,
networking sessions and workshops etc.

Sania highlighted the importance of IEEE WIE, telling the initiatives member under wie can take. Methodology and procedure of interaction with section and regions wise, funding and reporting were also discussed. The meeting provided a visible platform to publicize the students’ healthy spirits and innovativeness.

**CN – Newly formed**

Consultant Categories

1. Technical – Mr. Usman M. Ali
2. Business & Entrepreneurship – Mr. Aqeel & Mr. Abid
3. Medical – Ms. Kinza Shah

**1 Year Plan:**

**Initiative 1: Industrial Tutorials (As per opportunity)**

Business Development Managers – Campaign

**Initiative 2: 3 Workshops in year**

**Initiative 3: 12 Seminars in Year**

**Ideas:**

- How to become a Consultant
- Prototype to Product
- How to become Entrepreneurs
- Building Industry Academia Linkages
- Inventor, Research and Entrepreneur Need to know about patent
- Technology Medicine and the Global Economy –Meeting
- Protecting your ideas : A Primer on Intellectual Property for Engineers
- Operating as Professional Consultant : Practical Tool and Tips
- How successful consultant marketing their services.
- Green Building certifications
- Zero Energy Certifications
- Research techniques for the consultants : Using IEEE Xplore Database
- Effective Communication Tools for Consultants, Engineers and Technical Professionals
- Joint Venture Risks
- Networking for Consultants
- Transitioning From a One-Person Consultancy to a Consulting Group
- What Google Can Do For Your Business
- Medical Device Development and Entrepreneurship
- Taxes…What the Rich Do Differently
Initiative 4: Continual Education Training Program

Training related to Medicine, Technology or Business

Initiative 5: Forum
- Forum 1: The Contract
- Forum 2: Getting Paid
- Forum 3: Marketing – 4 Different Approaches

B.6 Awards & Recognition Activities

- Ms. Mehwish Nadeem, Research Officer: Presented Internationally as Distinguished Speaker | WIE Leadership Conference, Malaysia
- Ms. Faiza Munawar, Student FAST Serving Globally in IEEE IAS CMD Board Committee as Project Manager | USA
- Mr. Kashif Bashir, Chair IEEE COMSOC; Presented Internationally in RCCC, Globecom | Singapore
- Dr. Amjad Hussain and Mr. Ijlal Haider; Presented Internationally in IEEE Section Congress 2017 | Australia
- Dr. Amjad Hussain Presented Annual Lahore Section Report 2016 | Tokyo Japan
- Mr. Usman Munawar and Maria team won 1st Position IEEE IAS CMD Humanitarian Contest 2017 and achieved 1500 USD Grant for Humanitarian Project implementation in Pakistan
- Mr. Usman Munawar and Mamoon team won Best Poster Award | IEEE IAS USA Annual Meeting USA.
- Mr. Usman Munawar won IEEE PES YP Outstanding Award | 2017 – IEEE PES USA
- Mr. Usman Munawar Serving as IEEE Region 10 Educational Activities Committee as Member – Asia and Pacific
- Mr. Kashif Bashir won 6000 USD for organizing IEEE COMSOC Summer School Program 2017
- No. of Travel Grants won by IEEE Members in 2017
  - Ms. Maria Shaukat – EMBS Conference Korea
  - Ms. Kinaat – IEEE IAS Annual Meeting USA
  - Ms. Faiza – Uk, USA and Bahrain (IEEE IAS USA)
B.7 Communication Activities (Newsletter, Home Page, E-mail etc.)

- Newsletter (name and number of issues in the year)
  Committee is formed and first Newsletter will be launched in March, 2018
- Home Page of the Section (give the URL and how often it is updated)
  http://sites.ieee.org/lahore/
- Other means of contacts with Section members including social media
  - SMS Service
  - Via Emails
  - Facebook Page of IEEE Lahore Section
  - Facebook Group of IEEE Lahore Section

B.8 Industry Relations

- Membership growth and retention
  In recent year, No. of Industries showed interest in engaging themselves to IEEE Activities, Not even Participated, few Government and Non-Government Industries helped in organizing Technical conferences and meetings.
  For Example: FSK, Huawei, Innova Network etc.
- Activities for/with industrial members
  - Industrial Expositions were conducted during IEEE International Conferences in conjunction with IEEE ICOSST 2017 and IEEE ICECE 2017.
  - Roundtable meetings were conducted during IEEE APES, IEEE ICOSST and Power Vision where more than 100 Industry representatives participated and gave their valuable thoughts.

Pic to be added

B.9 Humanitarian Technology Activities

- Humanitarian Technology related activities supported by the Section including collaboration with other OUs.
  - Humanitarian Roundtable | IEEE APES 2017
  - Humanitarian Track | IEEE APES 2017
  - Mr. Usman Munawar and Maria team won 1st Position IEEE IAS CMD Humanitarian Contest 2017 and achieved 1500 USD Grant for Humanitarian Project implementation in Pakistan
- Mr. Usman Munawar and Mamoon team won Best Poster Award | IEEE IAS USA Annual Meeting USA.

- SIGHT Activities

IEEE SIGHT Training: 11th episode of IEEE Pakistan Student/YP/WIE Congress was held from Friday, 13th of October to Sunday, 15th of October, 2017

In accordance with the motto of IEEE “Advancing Technology for Humanity” Mr. Junaid Mian, IEEE- SIGHT (Special Interest Group on Humanitarian Technology) gave a training session to promote the awareness about how to serve humanity. Activities around the globe, especially Islamabad section SIGHT-projects and campaigns were shared. Session conversed that the IEEE SIGHT is an initiative that provides a platform for the IEEE members wishing to work and devote their time and talents to humanitarian work consistent with the IEEE’s constitution to bring the benefits of technology to the world. The inception of the IEEE-SIGHT is a success story in itself for it beautifully amalgamates humanitarian work with advancing technology to bring change.

B.10 Community Activities

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

IEEE Day:

Date: October 3rd, 2017

Venue: Electrical Department Ground, UET KSK

Event Attendees: 50-60 society members

Event Description

IEEE UET KSK celebrated IEEE Day 2017 on 3rd October, 2017. Event included an orientation session from IEEE Lahore Section followed by cake cutting ceremony and other activities.

With passion and tremendous efforts IEEE UET KSK once again marked it’s place on International level by bagging 3rd position throughout the world in IEEE DAY 2017 Photo Contest.
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Overall, it was a successful event thanks to all the volunteers!
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PART C - OTHERS

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 with in universities is satisfactory.
- Humanitarian activities gave insight to industries and academia to proceed Humanitarian activities.
- IEEE COMSOC Summer School activity; was one of unique activity of section which help students to get aware with latest/hot trends in Communication and ICT.
• Funding secured from the IEEE and external sources including sponsorships
  - IEEE APES 5000 USD [IEEE PES USA]
  - IEEE COMSOC Summer School 2017 6000 USD [IEEE COMSOC USA]
  - IEEE EPICS Project 2016 – 2017 6000 USD [IEEE EPICS]
  - Computer Lab for Government School – 1500 USD [IEEE IAS, USA]

C.2 Relationship with National and International Societies and Non-Government Organizations (NGO)
  - Growth and Development of Entrepreneurs (GADE)
  - Pakistan Red Crescent Society (PRCS)

• Details of joint activities
  Free Entrepreneurship Trainings were provided to students and professionals with joint efforts of GADE and IEEE.
  Fee Life saving and industrial trainings were provided to students and professionals which is helpful for students.
• Benefit to IEEE members (for example discounts, access to technical information etc.)
  Free trainings 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.

C3. Collaboration with other IEEE Sections

• Support extended to neighboring Sections
  - IEEE Karachi Section
  - IEEE Islamabad Section

• Joint activities with any other Section
  - IEEE INMIC [20th Version of IEEE INMIC was conducted this year | This conference is rotating in three sections IEEE Lahore Section, IEEE Karachi Section and IEEE Islamabad 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 organizing 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 really effective activity which is helpful to aware students and professionals]
  - Technical Meetings on topics which are urgent need of country like energy crises etc.
  - Add Industrial Academia round table meeting with in mega events to engage academia and industry which helped in bridging the gaps.

C.6 Problems anticipated and suggestions for solutions, if any
  - Resource constraints in organizing events.

PART D - GOALS AND PLANS

D.1 Continuation of project/activity in progress and their implementation plans
  • IEEE ICEE Conference, UET 2018
  • IEEE ICEET Conference, Superior 2018
  • IEEE ICACS Conference, UOL 2018

D.2 Goals of IEEE Lahore Section
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

Future Plans

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 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

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

Major thing is engaging members and have solid execution plans.

- Survey will be conducted for interest of Professionals and student members.
- Conferences and technical meetings will be conducted which will help them to network with other professionals [Networking activities will be increased]
- Engagement of members will be increased in Section committees


Plan:

- IEEE Lahore Section 50th Anniversary
• IEEE National Workshop on Robotics and Industrial automation.
• IEEE National Big Data Workshop
• IEEE National Workshop of Smart Grid 2018
• IEEE Career Counseling Symposium
• IEEE Lahore Section Final Year Project Exhibition 2018
• IEEE ComSoc Summer School 2017
• IEEE Career Counseling Symposium
• IEEE MINIPOCO 18
• IEEE LSYWT 2018
• IEEE ICEE Conference, UET 2018
• IEEE ICEET Conference, Superior 2018
• IEEE ICACS Conference, UOL 2018
• IEEE ICECE Conference, UET 2018
• IEEE ICOSST Conference, UET 2018