

1. IEEE Islamabad Section – Annual report 2015

PART A - SECTION SUMMARY

A.1 Executive Summary – (Please follow the format given below)

- Section Executive Committee Member List

Region Code	Section Name	Sub Section Name	Position Description	First Name	Last Name
R0	Islamabad Section		Chair	Aftab	Maroof
			Vice-Chair	Muhammad	Ahmad
			Educational Activities	Amir Iqbal	Bhatti
			Electronic Communications Coordinator	Zohaib	Iqbal
			Professional Activities	Amir	Qayyum
			SAMIEEE RECIPIENT	Muhammad Ahsan	Farooqui
			Secretary/Treasurer	Muhammad	KHAN
			Student Activities	Muhammad Ahsan	Farooqui
			Student Representative	Um	Salma
			Women in Engineering	Durdana	Habib
			YP Representative	Farrukh	Jamal
R0	Islamabad Section	Peshawar Subsection	Chair	Azzam-Ul	Asar

- Section Highlights
 - 27 student branches
 - More than 1200 members. Highest number in the history of IEEE Islamabad section
 - 9 conferences were organized this year
 - More than 200 student events were organized including Pakistan Student/YP/WIE congress 2015
 - Young Professionals and SIGHT groups were formed
- Major Events (International, National)
 - IEEE Pakistan Student/YP/WIE congress 2015
 - International Conference on Emerging Technologies
 - Frontiers of Information and Technology
- Major Chapter Activities
- Major Student and Affinity Group Activities
 - 04 Branch chairs quarterly meetings
 - 02 Volunteer Leadership Training sessions
 - Workshops on different topics like Photoshop, PLC/SCADA, Electronic Circuits etc.
 - IEEE STAR Project
 - Engineer's Planet Session
 - Women in Knowledge based society event
 - 9 hours hand's on session on freelancing
 - Annual General Meeting
- Awards
 - Best WIE AG Award- WIE UET Taxila
 - Most Inspiring Student Member Award- Kiran Abbas
 - WIE Group Chair-Kiran Abbas
 - Darrel Chong award – UET Taxila
 - Section level Best Student Volunteer Award – Bilal Saqlain
 - Section level Best Student Branch Award – UET Taxila
 - Section Level Best WIE AG Award – NUST SEECS
 - Section Level Best WIE AG volunteer award – Nimra Sajid
 - Regional MD Goals Achievement Award – IEEE Islamabad Section
 - IEEE Day most enthusiastic picture award – IEEE MCS Student branch

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

- Summary (as per submitted L50)
- Any other financial activities

PART B - ORGANIZATIONAL ACTIVITIES

B.1 Membership Development Activities



Membership Activities done:



MD Activities (Click to view)

Alternatively : Please refer to Annex - 1

B.2 Chapter Activities

- Total number of Chapters in the Section: 04
- Number of Chapters formed in the current year: 0
- Number of active Chapters (Chapters who have reported required number of meetings during the year): 01
 - IEEE Controls Systems Society Joint Chapter:
 - Introduction session on CASPR Research Group
 - Hands on PLC workshops
 - Different seminars and workshops.

B.3 Professional and Continuing Education Activities

Summary of continuing Educational activities including conferences, technical activities, training courses, and distinguished lecture programs with attachment table / information.

Following conferences were technically co-sponsored by IEEE Islamabad Section.

Sno.	Conference
1	2015 Power Generation Systems and Renewable Energy Technologies (PGSRET) - #36452
2	2015 National Software Engineering Conference (NSEC) - #36610
3	2016 13th International Bhurban Conference on Applied Sciences and Technology (IBCAST) - #37073
4	2015 Fourth International Conference on Aerospace Science and Engineering (ICASE) - #37259
5	2015 Conference on Information Assurance and Cyber Security (CIACS)- #37132
6	2015 International Conference on Emerging Technologies (ICET)
7	2015 12th International Conference on High-capacity Optical Networks and Enabling/Emerging Technologies (HONET) - #37276
8	2015 13th International Conference on Frontiers of Information Technology (FIT) - #36771

B.4 Students Activities

Total Number of Student Branches in Islamabad Section

Serial No	Student Branches
1	Abasyn University
2	Bahria University, Islamabad
3	COMSATS Inst of Info Technology – Abbottabad
4	COMSATS Inst of Information Tech Wah Campus
5	COMSATS Institute of Information Tech Islamabad
6	Capital University of Science & Technology
7	Cecos Univ Of Info Tech & Emerging Sciences
8	Centre For Advanced Studies In Engineering
9	Fatima Jinnah Women University, Rawalpindi
10	Federal Urdu University
11	Ghulam Ishaq Khan Inst of Engrg Science
12	HITEC University
13	Inst of Space Tech
14	International Islamic University
15	Iqra University
16	Military College of Signals
17	NUST School of Electrical Eng and Computer Science
18	Namal College Mianwali
19	National Univ Computer & Emerging Science-Islamabad
20	National University of Sciences and Tech
21	Nwfp Univ Of Engrg And Tech – Peshawar
22	Pakistan Inst Of Engineering & Applied Sciences
23	Riphah International University
24	Taxila Univ Of Engineering And Tech
25	University of Azad Jammu and Kashmir-Muzaffarabad

Number of Student Branches formed this year

Student Branch	Formation Date
IEEE University of Azad Jammu Kashmir SB	January 2016
IEEE CIIT Wah, SB	July 28, 2015
IEEE HITEC SB	July 28, 2015
IEEE COMSATS Institute of Information Technology, Islamabad SB	March 2015

Section Level Student Activities

- **Student Branch Chairs' Meetings**

- ❖ **1st Branch Chairs' Meeting, 27th February 2015 Agenda**

- 1) vTools Annual Reporting
- 2) Details of executive committee 2015 of all Student Branches (Chair, WIE Chair, Counselor, WIE Counselor)
- 3) Revival of Newsletter IEEE Islamabad Section.
- 4) Improvement of Inter-branch relations through collaborative workshops/events/seminars according to their skills and expertise.
- 5) Collaborative celebration of International events/days like IEEE Day etc. to improve relations between student branches.
- 6) Proposal call for IEEE Pakistan Student Congress 2015 (PSYWC'15) to be hosted by IEEE Islamabad Section.
- 7) Spotlight on WIE activities.

- 8) Student Branches need to update Event Calendar for year 2015 on IEEE Pakistan SAC Portal.
- 9) Progress on International IEEE and WIE Memberships. Also, emphasis on increasing the number of international memberships in student branches along with other memberships like WIE International Memberships etc.
- 10) YP Workshop Series Hosting in Student Branches.

❖ **2nd Branch Chairs' Meeting, 4th May 2015 Agenda**

- 1) VOLT – Volunteer Resource and Leadership Training (Events + Reports)
- 2) Branch Reporting & Nomination Calls
- 3) Student Branches Academic & Event Calendars
- 4) IEEE Islamabad Section Student Branches Upcoming Activities
- 5) Formation of Focused Groups within Section
- 6) SPAC, S-PAVe Funding Process and Procedure
- 7) Ideas for PSYWC'2015
- 8) YP Initiatives and Future Plans for Students
- 9) Message from RSR and new initiatives from Region 10
- 10) IEEE Pakistan Student Congress 2015 Proposal Defence

❖ **3rd Branch Chairs' Meeting, 12th August 2015 Agenda**

- 1) Introduction
 - a. Branch Chairs' Introduction
 - b. Section Representatives Introduction
 - c. Talk to IEEE Islamabad
- 2) Activities Report by IEEE PIEAS Student Branch
- 3) Pakistan Student/YP/WIE Congress 2015 Briefing
 - a. Introduction by Section
 - b. Planning Updates by host branch CIIT Islamabad
 - c. Queries, Expectations, Suggestions from Student Branches
- 4) How to apply for IEEE Regional & Global Awards (A session by M. Talha Bilal, Kiran Abbas & Ammar Ali)
- 5) Student Branches Annual Reporting & SBs Guidelines by Section
 - a. Status from Student branches on their annual reporting
 - b. Vtools Reporting Procedure by SSR, ASSRs
 - c. Briefing on "SBs Guidelines and their compliance" by SSR
- 6) Student Branches Volunteers participation in Section Initiatives/Activities/Competitions endorsed or announced by Region 10 or IEEE Global
 - a. IEEE Academic Update
 - b. TCF
 - c. PWF Upcoming Activities (iUstaad and CyberTahaffuz)
- 7) YP Workshop Series Hosting in Student Branches + Freelancing Session Venue
- 8) General Queries/Suggestions/Comments by Student Branches

❖ **4th Branch Chairs' Meeting, 14th November 2015 Agenda**

- 1) Student Branches Activity Updates (Collaborative Events) [ASSR Mehak Saeed]
- 2) IEEE PSYWC 2015 Update [Chairperson CIIT Islamabad]
- 3) Feedback on Quarterly Reports [SAC Chair]
- 4) Islamabad Section Student Branch & Volunteer Awards [SSR]
- 5) Annual General Meeting Hosting 2015 Call [SSR]
- 6) Call for SB Mentors [SAC Chair]
- 7) Membership Renewal & Retention [ASSR Mujtaba Anwaar Ch]
- 8) YP Activities Updates [YP Chair]
- 9) YP Workshops Hosting Update [YP Chair – Update from student branches chairpersons]

- **Annual General Meeting 2015**

Hosted by: IEEE SEECS, NUST SB, Islamabad | 12 December 2015

IEEE Islamabad Section executives and officers annually hold IEEE Islamabad Section Annual General Meeting 2015 and Banquet to engage in section's business, executive committee, other local members and guests over a high tea/Dinner. Business covered at the meeting includes the executive report, appointment of new officers, and awards presentation.

Agenda of Annual General Meeting of 2015 was:

- **Presentations**
 - i. SAC Activities
 - ii. WIE Activities
 - iii. YP Activities
 - iv. Professional Activities
- **Report on PSYWC'15**
- **Certificates to PSYWC'15 Team**
- **Student & Branch Awards**
 - i. Best Student Volunteer Award
 - ii. Best Student Branch Award
 - iii. Best Student AG Award
 - iv. Best Student AG Volunteer Award
- **Appointment of New Officers**
 - i. Section Student Representative 2016
 - ii. Associate Section Student Representative
- **Letters to Chairpersons**

- **IEEE Pakistan Student/WIE/YP Congress 2015**

Hosted by: CIIT, Islamabad | October 2-4th, 2015

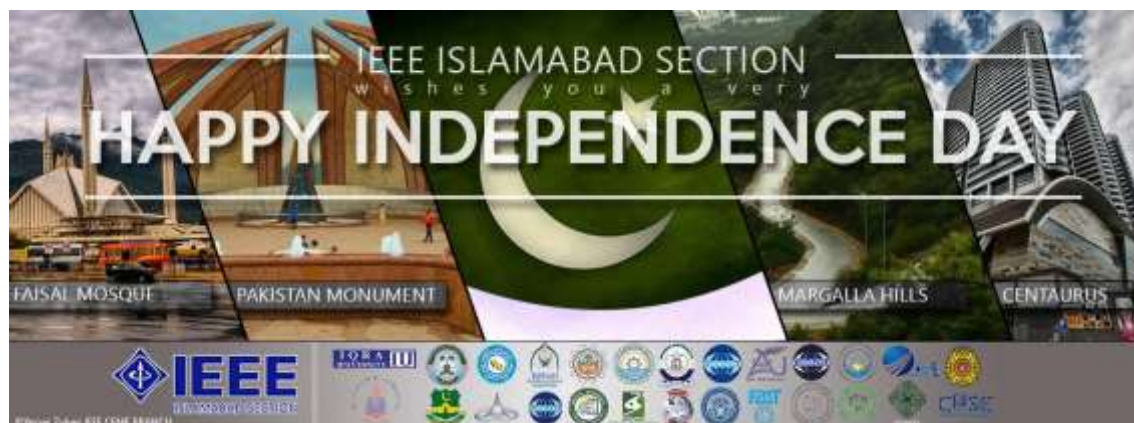
9th episode of **IEEE Pakistan Young Professional/ Women In Engineering Congress** hosted by **IEEE Islamabad Section** inspired, educated and engaged participants in bigger ways than we have seen to date! Around 35 gems of Pakistan from Academia and Industry were united in **COMSATS Institute of Information Technology, Islamabad Campus** to share their stories and provide an insight to the voice of young blood living in Pakistan. This was the largest conventional congress yet, having grown participation by 120%, with union of 430 students and professionals from Punjab, 53 from KPK, 32 from Sindh and last but not the least, 20 from Baluchistan. Participants from across the country – comprised of R10 Region Student Representative, SAC Chairs, SSRs, ASSRs, SB & WIE Chairpersons, Technical Society Chapter Representatives, Young Professionals, researchers, IEEE members and non-members – joined together for this annual event to collect the pearls of wisdom and socialize with legends of the evening. Among International Speakers, Director R10 from India and Ms. Jennifer Kushell from United States too joined via Skype sessions.

PSYWC'15 hosted the training sessions under the banner of technical workshops, leadership enhancement programs and talk-series for participants to develop congressional engagement skills, followed by an award ceremony so as to honor the contributions of IEEE volunteers for their extra-ordinary performance in serving the motive of IEEE throughout the year.

- **Independence Day Poster Competition**

On 10 August 2015, the SAC team, Islamabad Section presented Independence Day Poster Competition, in which the designers competed to design the best poster cover for the IEEE Islamabad Section's Facebook Page, Facebook Group.

Many students from local student branches participated and submitted their designs. Among 30 designs, best design was chosen and announced. Best poster was designed by Yaseer Zubair, EME NUST Student branch.



• **Islamabad Section Annual Student Awards**

The awards recognize the IEEE student members and branches who have taken keen interest in promoting IEEE activities through student & WIE AG platform. All the awards were announced on Annual General Meeting held at SEECS, NUST on 12th December 2015. Winners were given shields, certificates and prize money.

1. Best Student branch award
2. Best Student volunteer award
3. Best WIE Student volunteer award
4. Best WIE AG award
5. Special mentions

Last year, more than 40 students and 15 student branches applied for these positions. The students were encouraged to apply. All nominations (whether winners or not) were specially invited to the AGM where a proper awards ceremony held.

Number of Active Student Branches

Serial No	Student Branches
1	Abasyn University
2	Bahria University, Islamabad
3	COMSATS Inst of Info Technology – Abbottabad
4	COMSATS Institute of Information Tech Islamabad
5	Capital University of Science & Technology
6	Cecos Univ Of Info Tech & Emerging Sciences
7	Centre For Advanced Studies In Engineering
8	Fatima Jinnah Women University, Rawalpindi
9	Ghulam Ishaq Khan Inst of Engrg Science
10	International Islamic University
11	Military College of Signals
12	NUST School of Electrical Eng and Computer Science
13	National Univ Computer & Emerging Science-Islamabad
14	National University of Sciences and Tech
15	Nwfp Univ Of Engrg And Tech – Peshawar
16	Pakistan Inst Of Engineering & Applied Sciences
17	Taxila Univ Of Engineering And Tech

Summary of Student Branch Activities

- **Student Branch:** [College of Electrical & Mechanical Engineering \(E&ME\)](#)

Major Events:

1. **4th National C&IT Symposium**

4th National C&IT Symposium was held on 13 November'15 at College of E&ME. With a team of accomplished C&IT professionals on board, all participating students were guaranteed intellectual and industrial exposure, which not only updated them about the latest industrial trends, but also educate them on how to best use their knowledge to meet the needs of industry.

2. Tech Hunt'15

Following the tradition, IEEE CEME Student Branch has yet again managed to set the bars high with its enchanting events that have always attracted the Eminent. Tech Hunt'15 was especially organized as a welcome gesture to the newly inducted batch and has proved to be the most awaited and anticipated event of the year so far. This year Tech Hunt brought 50+ teams registrations which clearly demonstrates the encouragement and support of the students.

3. IEEE Day 2015

The IEEE student body of College of Electrical and Mechanical Engineering (CEME) celebrated IEEE's 131st anniversary on October 6, 2015. This reckoning is dated from the 1884 founding of the American Institute of Electrical Engineers (AIEE), the earliest of the IEEE's predecessor organizations. The program was organized focusing on first year students so as to help them to have a clear view on engineering and start ups and to encourage newcomers to join IEEE and to show them the enticing work of the society and its achievements.

➤ Student Branch: [IEEE FAST-NU Islamabad](#)

Major Events:

1. Next Generation Networks Compendium

IEEE FAST NU Islamabad conducted a seminar on emerging 3G and 4G technologies. 3 guest speakers from different industries were invited. They explained the 3G and 4G technologies, their impact, new services and future aspects. Telecom students were especially benefited a lot.

2. First Lego League

IEEE FAST Robo Islamabad , in collaboration with First Lego League (FLL), organized a robotics event for the students of age 9-16. The mission of IEEE FAST Robo is "Electrifying the future" and the vision is to inspire young engineers to be science and technology leaders. Several institutes from Islamabad participated in STAR FLL Regional Robotics Championship on Saturday, February 8th 2014, at FAST National University, Islamabad. The teams competed to qualify for the National Championship. IEEE FAST is proud to have this innovative event being organized in their institute.

3. Workshop on optical fiber splicing

IEEE FAST NU Islamabad organized a workshop on optical fiber splicing. Students were told about the methodology adopted to rejoin the broken optical fiber. After that the speaker showed the device and process to do splicing. Students also did the splicing themselves.

➤ Student Branch: [School of Electrical Engineering and Computer Science \(NUST\)](#)

Major Events:

1. Be Her Partner

WIE SEECS and ACM-W's event "BE HER PARTNER", a talk delivered by Ms. Tahira Malik, on April 20, 2015, was an enlightening seminar on how each one of us can be supportive to the women in our lives, and play our part in building a stronger, safer, happier community; a community where no one is unfairly and unduly held back from doing what they want.

At the end of the session, a few students asked questions, a few others voiced their opinions on what they thought about the treatment, and role, of women in our society.

2. HONET-ICT2015

12th International Conference on High-capacity Optical Networks and Emerging/Enabling Technologies

The Conference is placed at the National University of Sciences and Technology. HONET-ICT 2015 serves as an exciting Conference that will cope with the topics of Photonic Technologies, Optoelectronic, Wireless, Security, Electronics, Engineering, Science and Technology and much more.

12th International Conference on High-capacity Optical Networks and Emerging/Enabling Technologies is organized annually. Its vision is to bring together professionals and practitioners from the academia, industry and government functionaries from around the world, with the objective to share knowledge and experience in the field of ICT, Photonics and Energy for global partnerships and collaborations aiding economic growth to support peace and prosperity in the world.

3. Video Editing and Animations Workshop

IEEE SEECS held a Video Editing and Animation workshop as a training session to build the basic skills of the student volunteers of the Student Branch. This workshop featured in depth training using Adobe Premiere Pro for Video Editing and Microsoft Office Powerpoint for very basic animations. The workshop touched on basic to advanced commands in video editing and served as a foundation for the participants to explore the software further even after the workshop.

➤ Student Branch: [IEEE CIIT Wah](#)

Major Events:

1. Android For Entrepreneur

In this workshop, Students learnt the development of applications. Development of app is the mother part of system because if the development or creation, logic of application is good then this will be praise by user.

2. IEEE CIITWAH International Cultural Eve

When we went inside the cultural eve, we saw that event was comprised of different blocks. Each block showed cultural identity of specific region. There were nine blocks showing culture of Sind, KPK, British, Africans, Chinese, Punjab, Pirates living status, Jugglers like vampires and Arabs. Each member of blocks was wearing dresses according to their culture. They also displayed the daily use items and other items. Event was become more interesting when members of each block presented the cultural dance. Athanrh dance of Pathans and Bhangra dance of Punjabis secured 1st position. These both performances made the environment and audience became joyful while Arab dance secured 2nd position and Sindhi dance secured 3rd position.

➤ Student Branch: [Military College of Signals](#)

Major Events:

1. IEEE Day 2015

IEEE day 2015 was celebrated by the IEEE & WIE MCS student chapters. The venue was decorated with IEEE and WIE oriented themes. A cake cutting ceremony was held to initiate the event. It was followed by prize distributions among the winners of banner designing and photography contests. Members of the faculty were invited and the event was chaired by HOD of CSE dept Lt col. Adil Masood. In the end, a memorable group photo was taken of students in a formation of IEEE

2. PCB DESIGNING WORKSHOP

A three day workshop was organized by the MCS IEEE student branch covering the basics of PCB designing. Participants were taught the basics of ISIS & ARIES software and on the third day they implemented the software designs on PCBs. Each participant was attended individually to give them proper hands on experience .

➤ Student Branch: [IEEE PIEAS Students Branch](#)

Major Events:

1. Symposium on Recent Advances in Electrical Engineering

The 2015 Symposium in Recent Advances in Electrical Engineering was held on 19th and 20th October, in the Department of Electrical Engineering at PIEAS, Islamabad, Pakistan. The objective of this Symposium was to develop a research culture also to give researchers a chance to sit together and work for national technological needs. More than 100 researchers participated and presented their work to the audience. The event was jointly organized with the collaboration of IEEE PIEAS Students Branch and PIEAS University.

2. PIEAS National Olympiad (PiON'15)

IEEE PIEAS Students Branch organized PiON '15 in March 2015. The purpose of the event was to encourage the students for practical learning through interesting competitions and to increase collaboration and relationships among the future torch-bearers of technology in Pakistan. A number of students participated in this Mega-event from all around the country. The Mega-event consisted of many interesting technical, non-technical and professional events which not only entertained to the students but also familiarized them to the new horizons.

3. Workshop on MATLAB

On the 1st of October, 2015, WIE organized MATLAB workshop that met the needs of both IEEE and non IEEE members. It was organized to provide the students a chance to explore, visualize ideas and collaborate across disciplines to help them put their ideas into action. Seeing the worth of the workshop, more than 100 students (both IEEE and non-IEEE members) registered for it. The workshop was a huge success and indeed helped the students greatly.

➤ Student Branch: [IEEE CUST Student Branch](#)

Major Events:

1. IJSEC 2015

IEEE CUST Student Branch Organized its annual national level mega event comprised of 35 modules in which 700+ students from 38 different universities participated. In IJSEC 2015 there were different technical, non-technical, social events took place along with some workshops and talks. 323 IEEE members participated in the activity.

2. 3 Day CPD Workshop on ASIC & FPGA Design

A 3 Day CPD workshop on Modeling, Simulation and Implementation of Digital Design Using FPGA organized by IEEE MAJU Stb. 30 IEEE members from different universities participated in the activity and at the end participants were awarded from the certified certificates of Pakistan Engineering Council.

3. Her Bi-Wheeler journey

Her Bi-Wheeler journey , a motivational talk targeted for the women in engineering. This talk was delivered by Ms. Guliafshan Tariq who along with her best friend travelled from Islamabad (Capital of Pakistan) to China Border on Bicycle. Her journey consisted of 1000+ KM or cycling. She is not merely a sports person but also a Computer Engineer with a silver medal from a renowned institution of Pakistan. The theme behind this event was to tell young girls that it is all dependent on their will power and power of dreams. If they want to do something, everything is possible.

➤ Student Branch: [HITEC University, Taxila Cantt](#)

Major Events:

1. Introductory Seminar

We have recently launched IEEE student branch in HITEC University. For the awareness and promotion of this branch, we arranged an Introductory Seminar. In this Seminar, we had invited Mr. Ahsan Farooqui (IEEE SAC Chair) and Mr. Mirza Qutab Baig (SSR) from IEEE Islamabad Section. They gave a presentation on what is IEEE and how it works. In the result we increased 30+ International members.

2. Seminar on Solar Energy cum Exhibition

The seminar and exhibition was organized by IEEE-HITEC student branch on Solar Energy for Engineers. The objective of this seminar was to aware engineering students about solar energy, its potential industry and agricultural uses and latest innovations. This seminar was also supported by two companies working in the area of solar energy system deployment. They displayed their equipment and introduced their indigenous developed solutions. As a result students get familiar with Solar Energy and its importance. Many students from final year got help from this seminar and exhibition.

➤ Student Branch: [IEEE UET Taxila](#)

Major Events:

1. IEEE Industry Academia Linkage

IEEE Student Branch UET Taxila every year initiates new activity for the betterment of students and society. This year "IEEE Industry Academia Linkage" activity was initiated by Chairperson IEEE Arslan Sadiq Sheikh in 2015 with the Vice Chairperson IEEE CES UET Taxila. The activity consisted of seminars, workshop, individual sessions and industrial trips. Individual sessions are arranged for projects; Industrial trips for the students who face some problem in projects; workshops on different techniques/software related to engineering projects and seminars on selection of topic, confidence building and many other topics.

2. **Workathon 7.0 [Phase 2] by IEEE WIE AG UET Taxila**

WIE AG of IEEE SB UET Taxila conducted its second phase of Workathon 7.0 under the theme 'Hour of Code' in two phases namely:

- i. Workshop on C/C++
- ii. Workshop on Digital Image Processing

➤ **Student Branch: IEEE GIKI SB**

Major Events:

1. Robotics Workshop 2015

A robotics workshop was conducted by IEEE GIKI Student Branch separately for the freshmen and the sophomores. Almost 150 students participated in the workshop. The lecture was delivered by junior year students of GIKI. In this workshop various topics were discussed which include:

- a. Introduction to Electronic components
- b. How to make Light Sensors
- c. Basic Principles for the making of a robot
- d. Sensors used for the sensitivity of a line tracking robot
- e. Logic Designing

2. IUstaad

Iustaad is a Pakistan WIE Forum (PWF) project. It focuses on transferring the advanced technical skills to the teachers of local/government schools. The members of WIE GIKI Chapter have taken a lot of interest in this initiative and helped conduct workshops in the university to help students and teachers to better their technical learning and understanding. It helped a lot of schools and colleges to better their methods of educating students.

3. **National Electronics Olympiad (NEO) '15**

National Electronics Olympiad (NEO) '15 emerged to be another successful robotics competition held by IEEE GIKI Student Branch, from 14th to 16th March 2015. It gave opportunity to participants from all over the country to test their skills and prove themselves.

A total of ten modules were held this year which included Robothon, Figure 8, RoboMaze, Race to Innovation, Project Exhibition, Speak it Up, RoboWars, Code Hunt, PCB Design and MIC Night. The Social Events held this year were Scavenger Hunt (won by MUST) and Hiking Trip.

➤ **Student Branch: IEEE CIIT Islamabad**

Major Events:

1. **First Open House at CIIT Islamabad**
2. **Career Counseling seminar**
3. **IEEE Pakistan Student/YP/WIE Congress**

➤ **Student Branch: IEEE Riphah SB**

Major Events:

1. PACCE'15

Pakistan Academic Competitions of Computing (PACCE) is an initiative taken by IEEE Riphah Student Branch and WIE Riphah in collaboration with Faculty of computing Riphah. This event specifically target academics of computing.

Competitions held in this event are:

- a. Flow Charting
- b. Speed Programming
- c. Web Design and Development
- d. Mobile Application Development
- e. Photoshop
- f. Theme Simulation

Student Branch: IEEE IUI SB

Major Events:

1. 2nd International Conference Power Generation Systems and Renewable Energy Technologies (2nd PGSRET)

The Department of Mechanical Engineering, Faculty of Engineering and Technology, IIUI organized its 2nd International Conference Power Generation Systems and Renewable Energy Technologies (2nd PGSRET) on 10-11 June, 2015 with collaboration of HEC (funding) as it is major sponsor and technical sponsored by IEEE.

2. FETEX'15

Faculty of Engineering and Technology International Islamic University Islamabad organized its 6th Annual event TETEX 2015. This year the theme of FETEX'15 was "Where Excellence Gets Engineered" and it was successfully completed very nicely by the indefatigable hard work of the students of Faculty of Engineering & Technology. The 6th FETEX was the biggest industrial & academia interaction of the capital by FET students ever, which was collaborated with IEEE, IIUI students Branch.

3. Roboline

First initiative by FET female students to organize an event named as roboline. The result was figure out by the judges of respective field .their six teams in total and all the teams showed great strength effort to bring good results.

➤ Student Branch: [IEEE UET Peshawar](#)

Major Events:

1. IEEE WIE Bootcamp

IEEE UET Peshawar WIE AG conducted WIE Bootcamp under the supervision of IEEE WIE Forum Pakistan. Miss Sidra Farooq, Ex-Web Admin IEEE Pakistan and IEEE WIE Forum Pakistan gave an enthusiastic session to the WIE members. She highlighted the various aspects of WIE and shared her awesome experience with IEEE and WIE.

2. Space exploration and empowering women

Zainab Nagin, engineer for the Mars Curiosity Rover project of the National Aeronautics and Space Administration (NASA), is in Pakistan on a program about space exploration; science, technology, engineering and mathematics (STEM) education; and empowering women and girls.

In session, she talked about NASA and space exploration and empowerment of women and girls in a Video Conference Session as per program.

3. Open day

Institute of Electrical and Electronic Engineers, UET Peshawar Student Branch held an "OPEN DAY" USAID-funded PCAS-E Advanced Studies Scholarship Program" on the 21st of April, 15 in the Main Hall of the Electrical Engineering Department, UET Peshawar.

The event was all about a chance to meet the important faculty members of the institute, see the system, management. It was kind of a tour by the institute's most important employees to the interested candidates to make them not only stick to the course scheme but also explore the institute.

➤ Student Branch: [IEEE CIIT Abbottabad](#)

Major Events:

1. How to sell your research

Electrical Engineering (EE) Department of COMSATS Institute of Information Technology, Abbottabad is arranged a two days (10th & 11th August 2015) CPD/PEC workshop on "How to Sell Your Research". The aim of workshop was to enhance skills in the field of research, especially to sell your work in IEEE Transactions. Many of you know "How to write a Research Paper" that meet the general requirement of any Journal but somehow they still lack the expertise to approve the work from IEEE Reviewers.

2. EMCOT'15

EMCOT 2015 aimed to develop an environment of academic collaboration where institutes can exchange their expertise in their respective fields. The program for this years' EMCOT included along with the project competition, a number of seminars, a panel discussion and talks by eminent scientists and academicians on cutting edge Electrical and Electronic Engineering technologies.

➤ Student Branch: [IEEE BUIC SB](#)

Major Events:

1. Seminar on Cyber Tahafuz

To aware people of cyber crimes IEEE WIE BUIC held a seminar in collaboration with IEEE PWF on 17 Sept 2015. The Guest speaker, Mr. Zeeshan Qaiser, who is an Information Security professional working at Lycus as a System Engineer, provided awareness training regarding cyber world, threats, consequences and human behavior. He also briefed the students on how they can avoid their personal information from being leaked and becoming a victim of these preposterous crimes. The students keenly listened to the tips needed to keep them safe. The event was successful and a special token of appreciation was awarded to Mr. Zeeshan Qaiser on behalf of IEEE WIE by Ma'am Tayyaba, IEEE WIE Affinity Group's Coordinator. The students gained a valuable piece of information for their own cyber protection

2. 6th Open House'15

IEEE Bahria university, along with the faculty of engineering sciences, managed and organised the 6th Open House held at Bahria University Islamabad Campus. Final year projects of all the departments were setup on display in order to let the students know what really are the students capable of building and how effectively can they serve the community. Some of the quality projects were displayed which included projects of the domain of power and energy conservation and community benefits. A number of professional representatives from reputable organizations also attended the event and showed interest in the displayed projects.

3. WIE FEST'15

WIE IEEE BUIC organized its first debut event for the year, WIE FEST'15 which covered a number of fun filled recreational events. The events mainly covered sports and fun events. Faculty as well as students enjoyed the event by actively participating in the modules.

B.5 Affinity Group Activities

Young Professional (YP)

1. [PLC, SCADA AND HMI Training Workshop at BAHRIA University Islamabad](#)

The very backbone of Industrial Automation involves the use of PLC's. With their growing importance students were given the opportunity to master this course. With hands-on training on SIEMENS PLC Training Kits including hardware and software from a team of highly trained professionals from the industry, IEEE YP organized a ten days workshop on industrial automation with association of Electrical Engineering Solutions International.

Course Contents were PLC (Programmable Logic Controllers), HMI (Human Machine Interface) & SCADA (Supervisory Control & Data Acquisition)

2. [Graphic Designing for Volunteers - Workshop at UET Taxila](#)

IEEE Student Branch UET Taxila with collaboration of IEEE Young Professionals Islamabad had organized a workshop on graphics designing and photo manipulation. Purpose of this workshop was to give the training to the students about Poster designing, ID card designing and editing. Workshop covered the basics of Adobe Photoshop for beginner graphics designers.

3. [Graphic Designing for Volunteers – Workshop at BAHRIA University](#)

Adobe Photoshop is one of the most used image editing tools. A workshop was arranged to familiarize the students to this great tool. IEEE YP Islamabad Section organized this workshop with IEEE Bahria University Islamabad Student Branch. Following topics were covered in this workshop:

- Introduction to Photoshop
- Layers
- Selections
- Image editing for web

4. Volunteers Leadership Training – NUST SEecs Islamabad

The first VOLT session of 2015 was arranged at SEecs Student Branch Islamabad Section. More than 65 members from different student branches attended the training. The VOLT training focuses on reporting events and officers and also hands-on training of SAMIEEE portal. Volunteers were made familiar with the resources available to them to effectively run a student branch and affinity groups.

Different strategies of membership development were also discussed by the mentors and senior IEEE members. The main purpose of organizing this training was to train the student branches with better ways of running their activities and to ensure a better member transition after graduation. Since the IEEE Young Professional members are more experienced, this Volunteer Leadership Training serves as the perfect platform for us to share the knowledge and experience with student volunteers.

5. Volunteer Leadership Training – FAST-NU, Peshawar Subsection

Peshawar Sub-Section has been inactive in Islamabad Section for years despite having 1-2 functional student branches. In order to revive the branches of sub-section, mentors of IEEE Islamabad Section visited Peshawar Sub-section and held a VOLT training session there.

The office bearers of FAST Peshawar Student Branch as well as some of the energetic volunteers were present for the session. The session mainly consisted of strategies to attract student memberships and motivational talks from Ex-cabinet members. The participants were told the benefits of IEEE and how to run a student branch as well as basics of organizing the events.

6. Pakistan Students/ Young Professionals/ WIE Congress 2015

IEEE PSYWC is the largest gathering of IEEE members in Pakistan. This year, Islamabad section hosted the 9th episode of this gathering as IEEE PSYWC '15. The theme for this year's congress was **“Empowering Youth for the Challenges of Tomorrow”**. IEEE Young Professionals Islamabad, designed an effective model for event execution and appointed 1 facilitator with every team so to guide them better in the execution of assigned tasks.

Moreover, IEEE Young Professionals designed the complete event plan including all the tracks and the sessions/workshops involved. Over 36 highly renowned speakers from Industry and Academia were provided by IEEE Young Professionals Islamabad.

7. Youth Empowerment through Freelancing – COMSATS, Islamabad

The main purpose of this workshop was to motivate and to introduce the concept of free lancing to the students, so that they may start their own startups and start earning, even with the basic skills they have, at university level. The main websites that they gave an overview of included Fiver.com, Upwork.com and Elance.com. On the first day of the freelancing work shop, only an introduction was given and the basic steps for starting free lancing were shared with the students.

On the 2nd day of the workshop, students practically learned how to make an account on the free lancing website ‘Upwork.com’, they learned how to apply for different jobs and how to get good side projects, all of which were very beneficial. Each student made his/her own account and filled the content accordingly.

The students were also shown the instructor's sample work; which motivated them to a high extent. The workshop concluded with an assignment for the next day which was to apply for different jobs according to the student's interests and they were asked to work more on their profiles.

8. Volunteer Leadership Training – BAHRIA University, Islamabad.

The last VOLT training for the year 2015 was held after the Pakistan Student Congress 2015 so that the case study of congress organizing would be put in front of the cabinet members of student branches.

The training covered following topics:

Categories	Description
Trainings and workshops	Vtools/IEEE Pakistan SAC Portal
	SAMIEEE - Hands-on Training in Labs
Student Opportunities	SPAA/SPAC/SPAVe
	EPICS – How to submit projects and get funding

	SIGHT- How to submit projects and get funding
	Scholarships/Grants/Fellowships
Membership Development	Strategies on running membership drives
	Best Practices of a student Branch
	IEEE MGA Program
Experience Sharing	Organizing and managing large events with IEEE PSYWC as case study
	What kind of events should we organize
Competitions, Contests, Awards, New Initiatives	IEEE President Change the World
	Smart Planet Challenge
	Regional Website Contest
	Regional/MGA Awards
	IEEE Collabratec
Experience Sharing	Fuel your motivations
Leadership Training	Email Ethics, How NOT to write an email, Dos and Don'ts of Electronic Communication



Women In Engineering (WIE)

1. **Women in a Knowledge Based Society Seminar – March 2015**

Several professional women participated in the seminar held at FAST-NU, talking about their careers, what it was like to pursue their dreams as women and the impact women can have in an intelligent society of independent individuals. Speakers included Ms. Faiza Khalid from Teradata Global Consulting Center, Ms. Alina Rana who is the Project Coordinator at British Council, Ms. Hira Zainab, Manager Learning Solutions at Knowledge Platform, Ms. Anum Iqbal, Product Development Manager at SNL financial, Ms. Nadreen Khan, motivational speaker and teacher, and Ms. Rida Saleem, member of Technical staff at Center for Advanced Research and Engineering.

2. **Celebrating International Women Day 2015 in E-Village Merabegwal – March 2015**

Women in Engineering members from Islamabad section attended the event organized by Center for Women Entrepreneurship. A training to grow organic vegetables and mushrooms on rooftops, back gardens, and pots was given to women from Islamabad and surrounding villages at the telecenter (E-education and E-Health facilities to village people and the side programs being managed by local community).

3. **Two Engineer's Planet Sessions - Summer of 2015**

The Engineer's Planet Sessions took the idea of recycling paper and other materials trashed in universities and using for cool projects for students. IEEE MAJU SB AG and IEEE SEECS SB AG organized the events in their respective universities with participation from over 70 students combined.

4. **IEEE STAR in Islamabad – over the entire year of 2015**



IEEE WIE Islamabad AG supervised various STAR programs around the Section. 6 SB AGs in the area participated in organizing 9 STAR sessions for young girls of ages 12- 19 years. With electric circuit trainings, and introductions to women professional engineers/scientists around the globe, it was a great learning experience for all the young participants.

5. IEEE VOLT Session - WIE Sub-session

IEEE WIE Islamabad AG presented a short training session for WIE AGs and WIE members during the IEEE VOLT session of 2015.

6. WeCeate Session – StartUp Academy Information Session for Young Entrepreneurs

In collaboration with IEEE YP Islamabad and WeCreate Islamabad, an information session for WIE members who want to start their entrepreneurial career was held at the WeCreate center in September 2015. The information session introduced the StartUp Academy program and the facilities available to women at the Center for starting new businesses.

7. IEEE WIE PAKISTAN CONGRESS – October 2015

Objectives of WIE Pakistan Congress was to support women in engineering and technical fields to act as facilitators of change by

- (a) Enhancing their leadership and communication skills
- (b) Building Confidence
- (c) Enriching their Entrepreneurial skills
- (d) Promoting Women in technical fields
- (e) Giving them the right set of skills and knowledge related to field work

• **Free Lancing Workshop**

The main purpose of this workshop was to motivate and to introduce the concept of free lancing to the students, so that they may start their own startups and start earning, even with the basic skills they have, at university level. On the 2nd day of the workshop, students practically learned how to make an account on the free lancing website „Upwork.com“, they learned how to apply for different jobs and how to get good side projects, all of which were very beneficial. Each student made his/her own account and filled the content accordingly. The students were also shown the instructor’s sample work; which motivated them to a high extent. The workshop concluded with an assignment for the next day which was to apply for different jobs according to the student’s interests.

• **Panel discussion -Is technology giving equal opportunities to both genders?**

Are both genders given equal opportunities in technology?“. One of the panel members argued that women are discouraged to study technology. She argued that women have to struggle to achieve their goals and dreams. The argument was continued with the statement that there are a lot of women who have immense amounts of talent and technology isn’t an industry that is specific to one single gender. As the argument carried along, a point was raised that a lot of industries are developed upon and by women. He argued that women are in every department of Pakistan. The conclusion was summed up that men and women get equal opportunities and all the fields are appreciated in the society.

• **WIE Meeting** The WIE Chairs introduced themselves and they all gave their own perception of WIE.

Agenda points of meeting

1. What are the hurdles faced by you WIE affinity Group?
2. What is the missing bridge between WIE R10 and your local AG?
3. How we can get Funding issues resolved?
4. What do you expect from R10 WIE and Global WIE?
5. What do we have to do for the maintaining WIE Professional Membership?
6. How WIE can add something to your educational profile?

• **Career Development Seminar**

The session was a Skype session delivered by Jennifer Khushell from USA, she talked about global opportunities which the young adults who are passionate about their goals, can avail. She discussed many career development points along with all the essential things to know before deciding for global opportunities and entrepreneurship. Being the founder and CEO of Young and successful media and YSN.com, she is dedicated to provide the understanding and opportunities to people all over the world. Her goal is that no individual should lack the opportunity to reach their full potential. The session ended with the question and answer session.

• **Seminar on Cyber Security**

The objective of this seminar was to target the young people and aware them of the threats they are facing while they are using mobile applications, internet or social media websites to make them aware of the

cybercrimes which are committed in Pakistan and worldwide and how can you avoid such mishaps in your life. Cyber security is the main concern of our society all of us have access to internet but not all of us are well aware what sort of problems it can cause. We simply click “I AGREE” icon without reading the agreement while installing applications, add-ons and software, unintentionally allowing certain applications to use the contact list of our phone, pictures and other personal data. The areas discussed are listed below:

- 1) Cyber security issues in Pakistan
- 2) Awareness on Cyber bullying
- 3) How one can stay safe online?
- 4) Cyber Child protection
- 5) Hardware hacking

- Life Member

B.6 Awards & Recognition Activities

- Award constituted by the Section:
 - Best student branch - IEEE UET Taxila
 - Best wie AG - IEEE WIE SEECS NUST SB
 - Best student volunteer - Muhammad Bilal (UET Taxila)
 - Best wie volunteer - Nimra Sajid (UET Taxila)
 - Special mention - student volunteer - Haris Zaman (ciit abbottabad)
 - Special mention - wie volunteer - Tabinda Ashraf (EME College)
- Please list all Awards and Recognitions received by the Section, and members in the Section, from R 10 and IEEE HQ during the year 2015
 - Best WIE AG Award- WIE UET Taxila
 - Most Inspiring Student Member Award- Kiran Abbas
 - WIE Group Chair-Kiran Abbas
 - Darrel Chong award – UET Taxila
 - Section level Best Student Volunteer Award – Bilal Saqlain
 - Section level Best Student Branch Award – UET Taxila
 - Section Level Best WIE AG Award – NUST SEECS
 - Section Level Best WIE AG volunteer award – Nimra Sajid
 - Regional MD Goals Achievement Award – IEEE Islamabad Section
 - IEEE Day most enthusiastic picture award – IEEE MCS Student branch

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

- Newsletter (name and number of issues in the year)
- Home Page of the Section : sites.ieee.org/islamabad
- Other means of contacts with Section members including social media
 - Facebook Page : <https://www.facebook.com/IEEEIslamabadSection/>
 - Facebook Group : <https://www.facebook.com/groups/IslamabadSection/>
 - ListServ Email ID : islamabad@listserv.ieee.org
 - Quarterly Reports

B.8 Industry Relations

- Membership growth and retention
- Industry relations team is formulated in section and working closely to bring Industry
- Activities for/with industrial members

B.9 Humanitarian Technology Activities

- Mr. Ihtasham Zahid from IEEE IIUI Student branch won Grant worth \$500 for AIYEHUM Project
- SIGHT is formed in Islamabad section and it will be conducting its activities this year

B.10 Community Activities

- **Project Glee** – IEEE CUST Student branch’s initiative to visit old age homes and spend time with the people that are abandoned by their own families.
- During the holy month of Ramzan, IEEE Mentors Forum Pakistan initiated **IEEE Cares** project with sole purpose of helping the poor and help them get the basic necessities of life. The teams worked all around Pakistan and raised more than \$3000 to help the less deserving people in Pakistan.
- IEEE Day was celebrated with full enthusiasm. Every branch celebrated the day to its fullest and we saw multiple cake cutting ceremonies and many workshops were planned. IEEE MCS Student branch won the most enthusiastic picture award

PART C - OTHERS

C.1 Special Events

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

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

- NOWPDP – Human Powered Vehicle Challenge – IEEE supporting for talent hunt. In return IEEE members get to serve as ambassadors, get internships etc.
- UTWWW – Unleash the Warrior Within workshop - IEEE providing resources and getting discounts on the workshop.
- TIE – MoU is underway to create something between TiE and Islamabad Section.

C3. Collaboration with other IEEE Sections

- IEEE PSYWC 2015 awards
- 9 hours long Freelancing workshop

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

- Volunteer leadership sessions for the student branches of Peshawar Subsection
- Helping them extract data of members so that they may sign petition for becoming a complete section
- Computer Society empowered and allowed to organize the Pakistan Student Computer Society Congress 2016.
- Control Systems Society got grant of \$900 and it is working to train students get PLC trainings

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

- Emailing list formed on listserv
- Active facebook group
- Extended SAC team to be readily available for the students and branches for immediate solutions of their answers
- Welcome all student and professionals in IEEE As they join the

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

PART D - GOALS AND PLANS

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

D.2 Goals and Future Plans

The section is always striving to continuously improve upon the progress achieved in years. Future goals and plans of the section include:

- 2.1 Stabilizing the section membership at around 1200 Members (current number)
- 2.2 Re-vitalizing the Societies and Chapters and to train their officers to ensure proper reporting
- 2.3 Legal registration of Section with support of high level government IT officials
- 2.4 Increasing the participation of female IEEE members in IEEE activities.
- 2.5 Raising of Section level sponsorships to ensure increased participation of student volunteers in IEEE activities
- 2.6 Initiating a local distinguished speaker program
- 2.7 Initiating research awards with funds raised from industry

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

In 2016, we plan to try several strategies to get more involvement from students. Another weak area is low participation of industry professionals. We aim to host several industry contact seminars to introduce IEEE to industry professionals and to bring them into IEEE fold.

MAY 15, 2014
IEEE Islamabad Section
Region 10

Call for Activity Plans for R10 MD Incentives Grant & February R10 MD Report

Introduction:

IEEE Islamabad Section seeks pride in sharing that it is running good not only with growing figure of the number of IEEE memberships but also with the retention resulting in the honor of switching from small to medium section. The significantly inspiring trend record so far is as follows:

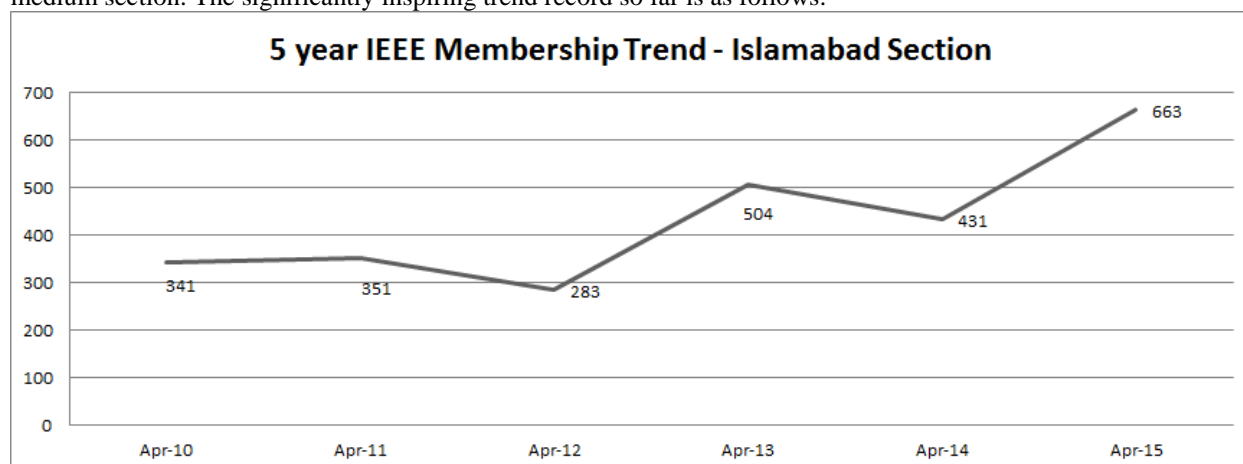


Figure 1: 5 year IEEE Membership Trend – Islamabad Section

In comparison to the other existing sections, IEEE Islamabad section has been successful in being much closer to the goal. The stats worth mentioning in this regard are as follows:

Renewal by Region: 2015 Membership Year - February 2015											
REGION 10	HIGHER GRADE MEMBERS			STUDENT MEMBERS			TOTAL MEMBERS			2015 Goal	% to Goal
	Opportunity	# Renewal	% Renewal	Opportunity	# Renewal	% Renewal	Opportunity	# Renewal	% Renewal		
Kolkata Section	1350	710	52.6%	757	172	22.7%	2,107	882	41.9%	39.4%	73.0%
Indonesia Section	709	377	53.2%	353	61	17.3%	1,062	438	41.2%	62.4%	66.1%
Islamabad Section	316	137	43.4%	272	68	25.0%	588	205	34.9%	35.0%	99.6%
Sri Lanka Section	668	310	46.4%	462	71	15.4%	1,130	381	33.7%	42.4%	79.6%
Bangalore Section	2399	1174	48.9%	3187	530	16.6%	5,586	1,704	30.5%	42.8%	71.2%
Bombay Section	1612	562	34.9%	3628	881	24.3%	5,240	1,443	27.5%	25.0%	110.2%

Figure 2: Membership stats – R10 MD Report – February 2015*

*According to the stats we need to focus on membership retention of student members more than higher grade members. However, we are hoping it to grow with a certainty after a series of revaluation and discussions in meetings on the subject, and to answer the question of this surety claim, below mentioned are a series of the projects to entertain the rising sun of the year 2015.

Part A: Section MD Chairs/Officers Training:

The MD chair of not only IEEE Islamabad Section but also those of the every student branch, are the ones with the most important job to do. They have left no milestone unachieved in coming up with effective plans and their successful execution. Here are some proposed plans we have in regard to MD officers training:

- I. **Planning focused meetings** so as to discuss the progress and share any sort of strategy that has proved to be a success. Those meet ups will also focus on the point of failures and will help in coming up with solutions as a part of concluding remarks. We have already begun with this culture. So far IEEE Islamabad Section has conducted an Annual General Meeting 2014 at the start of this year. Not to forget, we have also arranged two Student Branch Chairs Meetings so far, this year, where these subjected issues were targeted and were made a part of discussion. We're already on it and looking forward to any more plans under our capacity.
- II. **Introducing the concept of time to time surveys** to help us in coming up with diversity of nature of problems regarding memberships. This survey is supposed to be held among not only the membership chairs but also the executives of the team because we may be one team but every individual got unique angle of vision for a subject and problem lying within.
- III. **Mentorship sessions** are planned to be conducted so as to facilitate the issues of the MD chairs. This will serve the purpose of training and any kind of coaching or pedagogy as needed. This will also help in building confidence and increase the motivation levels of the MD body of the section.

- IV. **Strategy development sessions** will be held to help the MD body to perform well whenever there's an opportunity like an upcoming congress or a section or regional level events and hence striking when the iron is hot. Maximum participation will result in much efficient output. Section will make sure that such an assembly and confabs are arranged time to time.

Part B: Activity Plan:

Our Target:

- Increasing Memberships
- Retaining members

Project Abstracts:

A. INCREASING MEMBERSHIPS

1) Knowledge Groups of IEEE Islamabad Section:

Islamabad Section possesses good records on the effective performance of various knowledge groups under the umbrella of IEEE. The list of technical societies in Islamabad Section, are as follows:

- Women In Engineering Affinity Group
- IEEE Computer Society
- IEEE Control System Society
- IEEE Aerospace and Electronic Systems Society
- **IEEE Geoscience and Remote Sensing Society**
- IEEE Power Energy & Power Electronics Society – Combined

It has been observed that the objective of IEEE volunteers at times turn out to pioneer in one of these knowledge group meeting their interests. Currently what we plan on is to motivate the office bearers of the executive office of the respective knowledge group through meetings & the support of section in their events in order to bring out the best use of these groups meeting the objective of:

- Promotion of the respective Knowledge group
- Attract the students/professional members of that very domain
- Promote research culture followed by other opportunities (scholarships, conferences, etc.)

We already have prestigious universities under the banner of Islamabad Section pioneer in one domain or the other. For now, the proposed plan and the hot topic in the section is to let those pioneers meet the office bearers of these knowledge groups, hence resulting in:

- Increased IEEE Professional memberships
- Support of faculty in motivating students for IEEE membership
- Participation in opportunities offered by IEEE
- Such a meet-up/discussion will also help the section to establish any one or two of the 39 other existing technical societies of IEEE, depending upon the demand and hence resulting in increases memberships.

The success of knowledge group proposal can be measured with the fact that IEEE Pakistan Computer Society Congress, PSCSC '15 held by IEEE Computer Society in GCUF, Faisalabad was also mentored and overlooked by two of the office bearers of IEEE Islamabad section (**Farrukh Jamal** - YP Chair Islamabad & **Ahsan Farooqui** - Treasurer Islamabad Section) which resulted in huge success and a lot of participants requested for getting IEEE memberships.

2) **Scholarship Programs:**

Fortunately we're already at that time of the year when there are a lot of IEEE scholarships awaiting for the IEEE members to apply for. We already keep an eye on such opportunities and we're looking forward for candidates from Islamabad Section gaining advantage from one of these Scholarships:

- IEEE Life Members Graduate Study Fellowship in Electrical Engineering
- Nuclear and Plasma Sciences Society Graduate Scholarship Award
- IEEE Fellowship in the History of Electrical and Computing Technology
- [IEEE Photonics Society Graduate Student Fellowship Program](#).
- [IEEE Power and Energy Society Scholarship Program](#)
- [IEEE Computer Society Mervin Scholarship](#)

For this purpose, we plan on conducting seminars with Final Year/ 4th Year students planning on Masters, or those who have done research or plan on to continue on research domain or any related common grounds which these wonderful scholarship programs have in common. Moreover, it has been observed at some of the Student Branches that the number of memberships obtained from Post Graduate Students is more than that of Under Graduate Students. We can get more from these facts these opportunities are known to both the UG and PG students to which we're looking forward to as a result of sessions mentioned above.

3) **Targeting Final Year Undergraduate Students:**

So far we have been engaging the Students of Final year in a number of IEEE programs such as AIYEHUM, President's Challenge, to mention a few and a variety of other programs, since this is the time of the year where you get to hear about career fairs and open house almost every week, when the students are done with their projects. Now in order to get credit for what they have been struggling for, the product that is the result of their engineering knowledge, what we plan to do is use the available programs of IEEE as tools to target the interest groups and hence increase the membership number since IEEE membership is necessary in making your way into the challenges.

4) **Establishment of New IEEE Student Branches**

IEEE Islamabad Section is blessed with **23** Student Branches and we're still counting based on our plans that we have acted upon and that are yet to be acted upon. So far we've conducted orientation sessions in a couple of Engineering Universities in order to establish IEEE student branches there. To mention, the following are student branches in which we're done with such promotional sessions in the year 2014-15 resulting in the establishment of student branches at the following universities:

- **Hi-tech University, Taxila**
- **Islamic University, Islamabad**
- **Federal Urdu University, Islamabad**
- **Comsats Institute of Information Technology, Islamabad**

Following is the list of universities that where our sessions are already lined up, in coming weeks for either re-activating the already present branch or establishing a new one.

For Establishing New Branches:

COMSAT Institute of Information Technology, WAH Campus
ISRA University Islamabad
HAZARA University

For Re-activating the Currently In-active Branches

NAMAL College Mianwali
ABASYN University, Peshawar
CECOS University, Peshawar
IQRA University
Fatima Jinnah Women University (FJWU), Rawalpindi

This step, without any doubt is going to boost up the number of memberships for the section, as evident from the results of our previous sessions.

5) WIE petitions

The IEEE Student Branches lying under this enormously growing section have proved to be enthusiastic enough to promote the Affinity groups such as WIE AG as well and hence today we're already leading the with **8 WIE groups** which are as follows.

IEEE SEECS Women in Engineering
IEEE PIEAS Women in Engineering
IEEE CEME Women in Engineering
IEEE MAJU Women in Engineering
IEEE GIKI Women in Engineering
IEEE UET Taxila Women in Engineering
IEEE Riphah Women in Engineering
IEEE Comsats Abbotabad Women in Engineering

The petition for the upcoming WIE AGs in the following SBs are under process:

IEEE Bahria University Student Branch, Islamabad
IEEE Fatimah Jinnah Women University Student Branch, Rawalpindi
IEEE Islamic University Student Branch, Islamabad
IEEE COMSATS Student Branch, Islamabad

6) Marketing of upcoming travel grants & related funds:

Every Year a lot of students come to the light with incredible research material. IEEE Islamabad Section has been saving their dollars and making their life easier, screening them ways to get their research published by letting them know of the travel grants or related funds such as covering of registration fee, either through the grants obtained through IEEE (for example, the MD grants), of various conferences from time to time. This step has also contributed in gaining memberships from potential students.

7) Making chains stronger

- Since Active members of the Association for Computing Machinery (ACM) are entitled to a US\$10.00 discount off of their IEEE Computer Society membership dues to Higher Grade IEEE members. There are a number of Student branches having ACM student chapter already established or on way to it. We plan on to collaborate with them on this basis in their membership drives, so as to share the benefits and help memberships grow.

- IEEE Islamabad Section is already working with another renowned organization called '**The Citizen Foundation (TCF)**', a not-for-profit organization which covers a larger number of schools nationwide, educating the under-privileged students. IEEE Islamabad section is working with them for providing volunteer resources and career counseling for the under-privileged children in these schools. With this very collaboration, we have entered in to a new realm of education empowerment.
- IEEE Islamabad Section is also working on another project known as Teacher in Service Program (TISP). This Program is a region level program of which our section is an active participant. We're looking forward for professional members from this program in order to get done with it with success meeting other objectives as well.
- IEEE Islamabad Section is also an active participant of Region level STAR program which is headed by WIE AG. Such promotional sessions are also a part of sessions held and the sessions planned to be held in near future.

8) **Sessions of Intel ISEF competitions at school level**

IEEE President's Scholarship is granted to student competing in the Intel ISEF competitions beginning at the state/local level and advance onto the international competition, held annually in May. This Intel Science Fair is held in Islamabad to which IEEE Islamabad Section plans to take hold of as a partner so as to bring awareness among the brilliant minds who might not be able to receive the complimentary scholarship but they can get to know how to be a member of it and benefit from the opportunities at equal level or perhaps more than their qualifying fellow friend.

9) **Pakistan Student YP/WIE Congress 2015:**

IEEE Islamabad Section is honored to host the Pakistan Student YP/WIE Congress for the year 2015 which is most likely to take place by the end of September 2015. Before writing more about it, we'd like to mention a few words for consideration.

- In PSYWC'14 held at FAST NUCES (Lahore), **Farrukh Jamal** (Chair, Young Professionals Islamabad), **Ahsan Farooqui** (Treasurer, Young Professionals Islamabad) and Bilal Baqar (SSR, Islamabad Section) delivered core training sessions on '**IEEE Membership Benefits & Tips for Member Retention**', '**IEEE Activities & Event Reporting**' and '**Improving Coordination Between Section & Branch Counselors**' respectively, which resulted in an over whelming response for memberships from the non-IEEE members who attended the congress.
- Pakistan Student Computer Society Congress '15 (**IEEE PSCSC '15**) – The focused **mentoring** and **team building** activities arranged for the organizing team, by Farrukh Jamal (Chair, Young Professionals Islamabad) and Ahsan Farooqui (Treasurer, Young Professionals Islamabad) resulted in huge reforms in management plans and bringing up strategies turning out the event to be a success story. This, in turn, increased the participation overnight and a lot of students registered for IEEE membership after the event.
- IEEE is also depicted as a platform for building futures. A Career development session through IEEE was also held by Farrukh Jamal- YP chair Islamabad Section briefing the audience about how to better plan their future, hence building their trust on IEEE.

Fold your sleeves, because being the host Section for this congress, we're looking for something bigger and better, something that would not only result in membership development but also bringing revolutions through this wonderful platforms that we're working on these days and will be made public soon.

10) MOU between YP Islamabad and Electrical Engineering Solutions International (PVT) Ltd

This MOU has been signed on 22nd April'15 with a Saudi Arabian company in order to bring home opportunities like PLC/HMI/SCADA training on much discounted rates, internships and job opportunities for IEEE members. This is increased IEEE memberships in our section at a significant rate. The implementation of the signed MOU has already started with IEEE SEECS-NUST Student branch, which is one of the most prestigious universities of Pakistan, ranked at number 95 on Higher Education BRICS & Emerging Economies Rankings 2015.

IEEE Islamabad Section is already working on a series of other MOUs as well grabbing market for IEEE members.

11) PLC/SCADA and HMI Certification Workshop

As mentioned earlier about the MOU, this workshop makes its way from the outcomes of the MOU and the objective targeted upon through it is to offer the nonmembers a good package for this workshop fee followed by IEEE membership which implies the fact that at the end of the day, every nonmember attending this workshop will be an IEEE member as well as per what the deal offers. This workshop is intended to be held in all the universities in Islamabad Section which is going to bring both the student and professional memberships.

12) PEC CERTIFIED FPGA Hands on training

For attaining Pakistan Engineering Council (PEC) number, engineers after completing their degree they need to earn specific CPD points. Engineers can attain these points only after attending PEC certified workshops. IEEE Islamabad section organized a number of CPD workshop certified by PEC.

13) Volunteer Resource and Leadership Training

IEEE Islamabad Section has planned a Volunteer Resource and Leadership Training (VOLT) activity for the office bearers of Student branches in IEEE Islamabad Section, to be held on **23rd May, 2015**. The aim of this activity is to familiarize all the office bearers with the IEEE provided volunteer tools and resources. Moreover, the activity is aimed to guide them on how to plan, lead, execute and report different events and activities using the platform of IEEE.

14) Leadership training program

IEEE Islamabad Section also offers leadership training program at very reasonable rates from market in summers at remote northern area of Pakistan offering special discount to IEEE members. The first episode of this leadership program took place at the northern areas of Pakistan (Kaghan, Naran and Lake Saif ul Malook) back in August 2014. The objective of the program is to groom the personality of the participants and to polish their skills, unleashing their hidden potentials. We take pride in sharing that at the end of the program, **80%** of the non-members joined the IEEE family. We plan on such recreational and productive activities in 2015 and in future as well.

15) Membership Drives at beginning of semester & end of semester:

The titanic success in gaining memberships is usually when the membership drive sessions are held which are held twice both for yearly and half year membership. Since half year memberships are still on way, the activities mentioned above are for sure going to help us. Here to mention how are we going to make effective use of it,

- With the new intake of freshmen in university comes the great opportunity to help with membership number. Like every year, this year too we're going to make sure that the drive comes into play as the year starts so that it come pull attention of maximum students right in their first years and avail the privileges
- Half yearly membership drive starts at the time of the year when universities are already leading to summer break but this can be a plus for us for we plan to begin with the drive then too so as to attract the summer research programs , in fact provide them the Oplatform with IEEE. Moreover, that is also when the students done with their 3rd year start looking up for their Final Year Project. So what we plan to do is to work on providing them internships, including research based internships and hence getting memberships.

16) Local benefits for IEEE Members:

- To facilitate our members from around the nation we provide special discounts on workshops, trainings and conferences held under the umbrella of IEEE Islamabad Section. These events are conducted in different student branches providing students to learn from a variety of courses and also attract non-members to become a part of IEEE.

17) Recreational and educations tours:

IEEE Islamabad section, in year 2014, initiated a new trend of a summer IEEE Trek, where IEEE members get discounts on registrations and this helps in polishing their leadership skills. Apart from these fun tours we also provide students with the opportunity to visit big industries and factories, so that they can get a picture their imagination what they have been studying in class.

18) MD Officers:

For the year 2015 our focus is on student memberships and their retention. For that purpose we have planned that there should be a MD officer in the extended committee of each branch which will deal with all the membership issues of that branch and at the end of each month, a meet up between Section's MD officer and branch MD officers will be arranged to discuss and get a clearer picture of the problems faced by student branches.

19) Membership Fee Installments/ Discount:

Some universities in our section are facilitating the members by paying 20-50% of their IEEE membership fee this has helped a lot in retention of memberships; we are working on implementing this idea in every branch. A part from that some universities are facilitating the students by allowing them to pay the dues of membership in installments.

20) Awards:

To encourage student branches to work for their membership retention and set higher goals for the next year we will be giving awards to those branches with the greatest number of IEEE Members and professional members. We also encourage our student and WIE volunteers by rewarding the best student and best WIE volunteer awards at sectional level. These awards comprise of a certificate, a shield and a handsome cash prize.

Retaining Members:

1) Re-Establishment of IEEE student Branches

For retaining members it is necessary to maintain an active student branch. IEEE Islamabad section is not only indulged in establishment of student branches but it also keeps evaluating the performance of the student branches and even support them at every point even at local level events with encouraging the collaborations of other student branches and even improving relations. So far the observed student branches that went inactive were visited and made active again through proper organized orientation and promotional sessions. These helpful sessions are the reason that today they are motivated and confident enough to apply to host for various section level events.

2) Re-Establishment of WIE Groups

Same goes for WIE AG as well. IEEE Islamabad section is very possessive and keen about keeping its branches active and helping them to grow at every point.

3) Scholarship Programs:

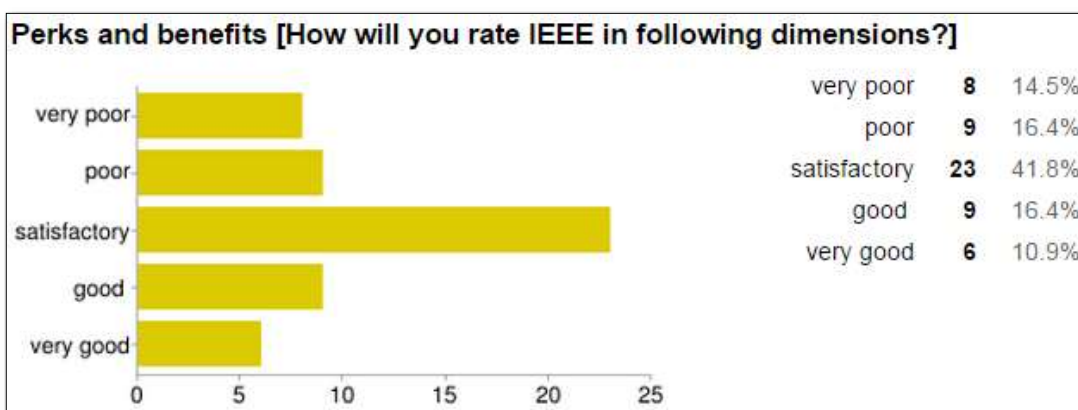
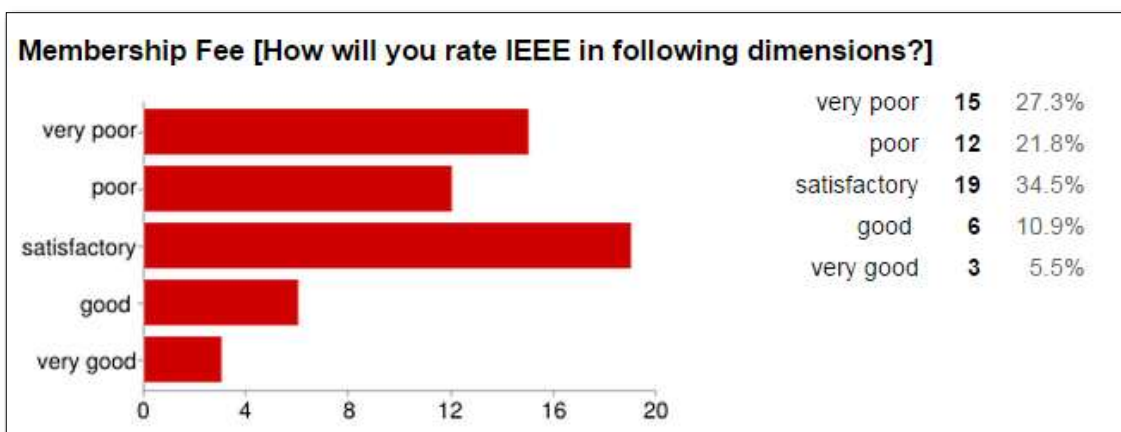
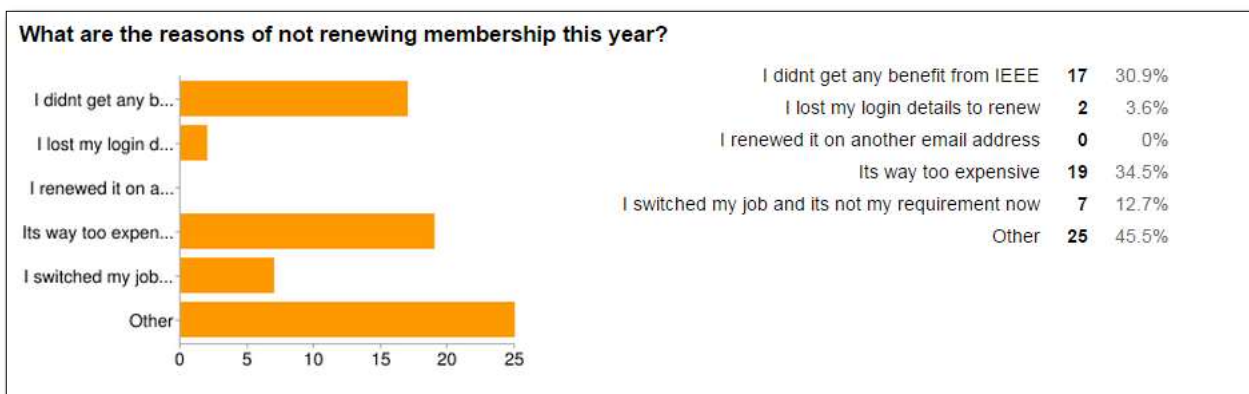
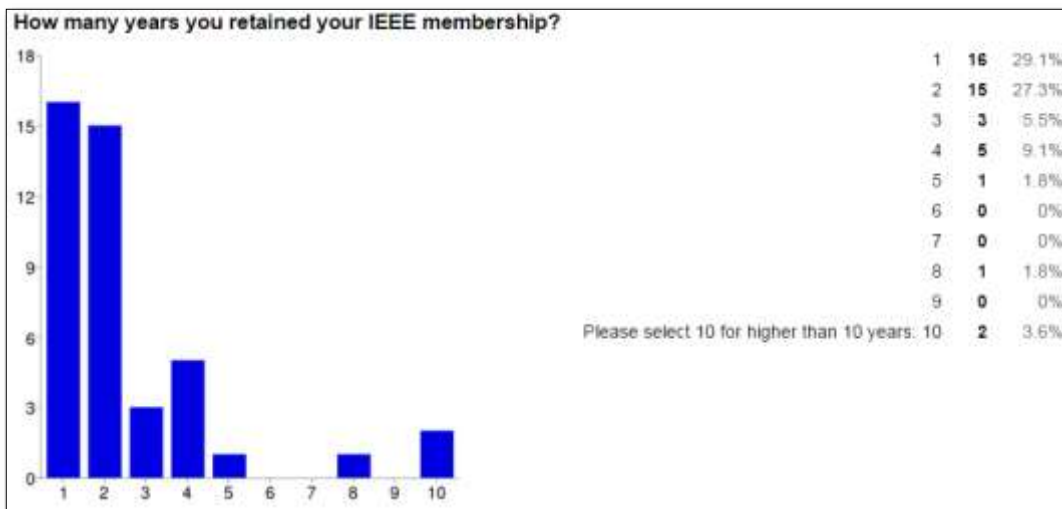
It has been observed that after their memberships get expired, members do not get it renewed. What we plan to do regarding that is to market the opportunities to them such as the scholarship programs so that they may stick with it and make effective use of it. This can be done through mailing them of the opportunities to which we're already on and directing the student branches on strategies to how to communicate the opportunities effectively for which we would require published stuff and hence grants. Sessions will also be arranged accordingly.

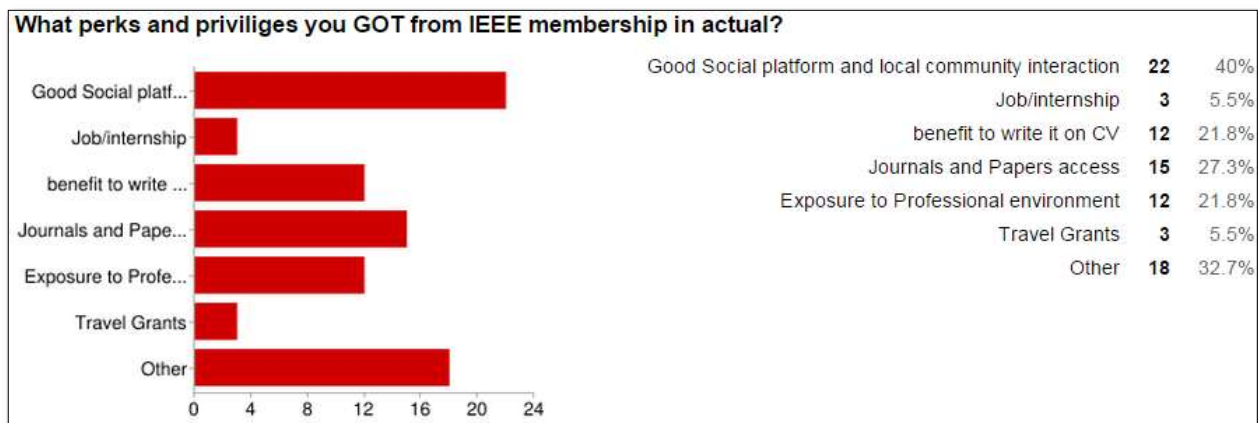
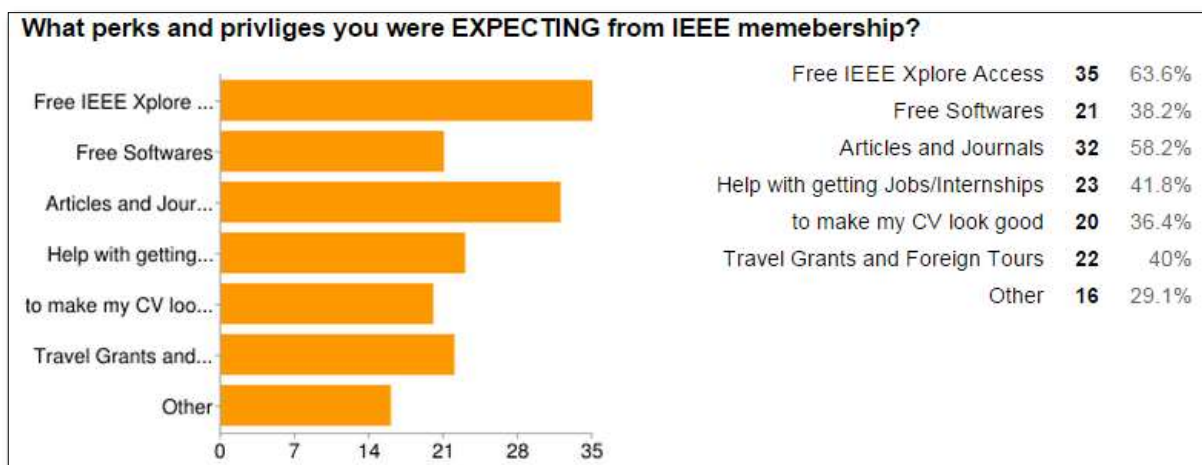
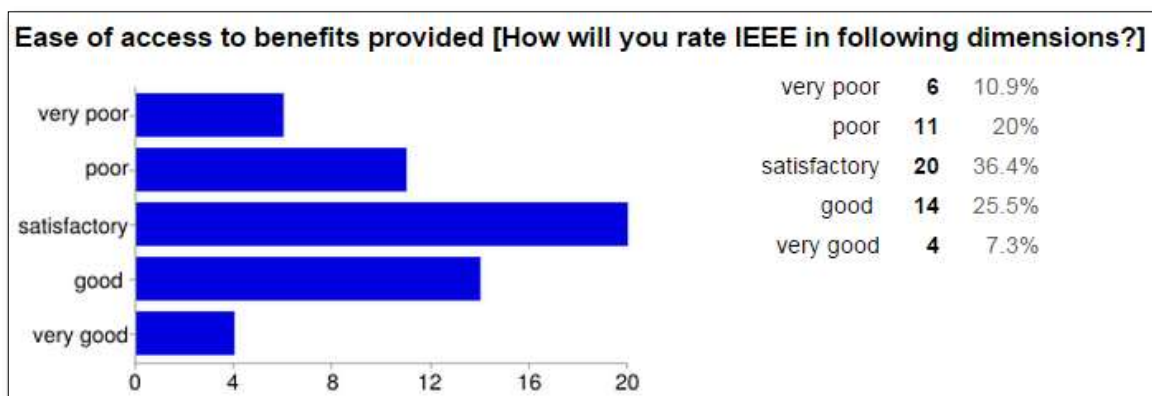
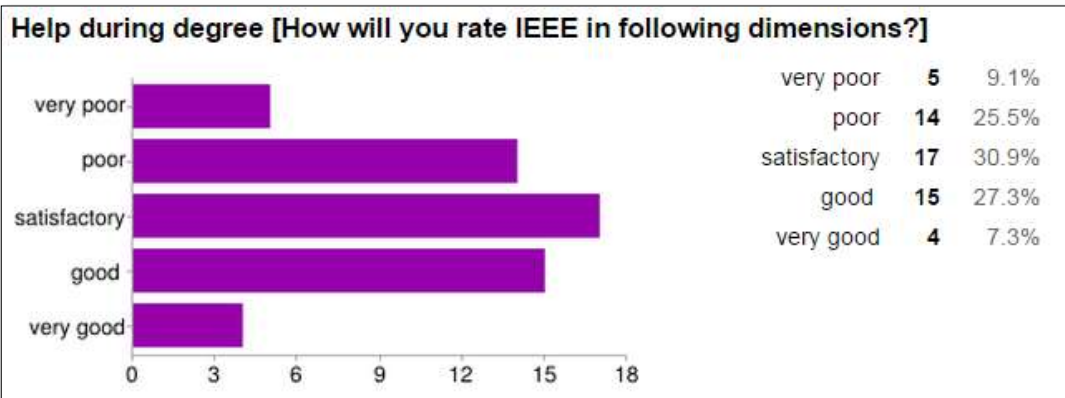
4) MGM Program:

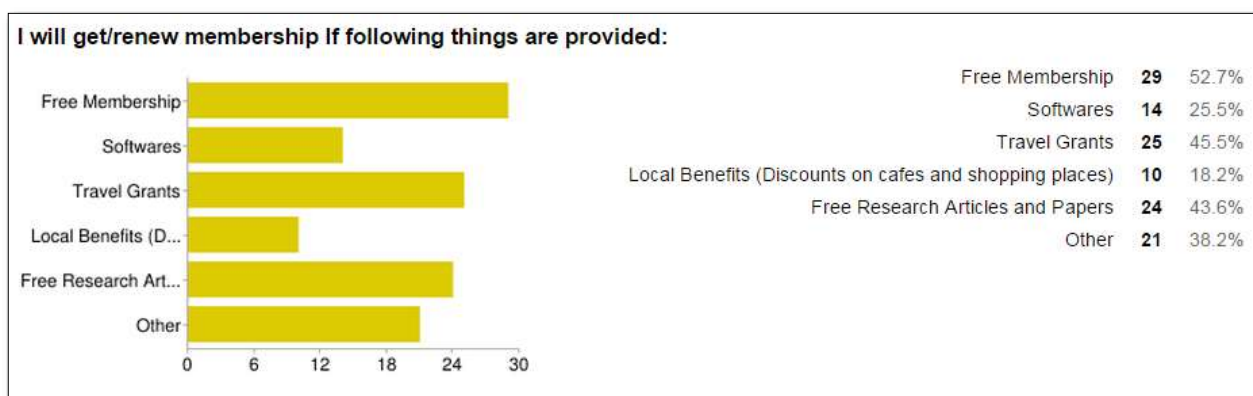
Every year the Student Branches coming under the Islamabad Section do not leave any milestone unachieved in its struggle to bless the section with an appreciate-able figure of memberships. In doing so some of the branches instead of appreciating memberships through personal credit cards prefer doing it all by themselves after collecting the dues so as to entertain any kind of membership issues in future and to keep a record for it. What we propose is to make use of Member-Get-a-Member scheme and ensure that in a case when all those who are derived to be a member by the Membership team of that IEEE branch which is in fact the result of the team work involving the hard work of the other IEEE members as well, the other members of the executive body get their membership number to be entertained in the reference field instead of letting the membership team to take the credit alone in a proportion that would be decided on the basis of the figure that have applied for membership verses the number of IEEE volunteers. This will not only help in retaining memberships but also motivate the volunteers work on good strategies in this domain to increase the memberships.

5) Survey & Feedback:

In order to retain memberships, we need to know where the problem is for the group that doesn't consider for renewal. This can be done through survey so that we get to know how IEEE Islamabad Section can improve and what is expected of us, as a section. Considering the concerns of our members is at the top in our priority list. This step will address any kind of misconceptions and help our members not only retain membership but also build confidence on us and on our struggles to pave the way for them to meet their future needs under our capacity. We already started this process and following are some results of survey:







6) Keeping up the pace:

What we're already doing and will continue to do, to keep our members on board is:

- i. An E-mail to welcome all new IEEE members
 - Basic information about IEEE in Pakistan
 - Information regarding section Ex-Com and active volunteers
 - Links of web pages and Facebook pages and groups
 - Student activity committee page link and details
 - Membership benefits
- ii. An E-mail regarding registration renewal and deadline , discounted price memberships of societies
- iii. Local Benefits :
 - Discounts on Workshops , Seminars , Trainings , Conferences and congresses
- iv. Discounts on Recreational activities (Fun trips , Industrial tours)
- v. Discounts on Publishing (depending upon available grants)
- vi. Free Industrial visits

7) Award Ceremony:

We plan on including this category for awards and certificates for the branch Ex-Com with:

- Largest Number of members
- Largest Retention Number

So as to make sure we pay a part of their struggles back in some way to keep the IEEE volunteers motivated and to treat this domain as important.

Note:

As a result of the activities mentioned above, IEEE Islamabad section this year is already gaining memberships. Many of the activities mentioned above are the ones that are currently being implemented already and few more of them will be implemented as per the set goals of our section. The fact worth mentioning here is that the observed trends depict a positive response of the struggles made by section volunteers so far, which goes as follows:

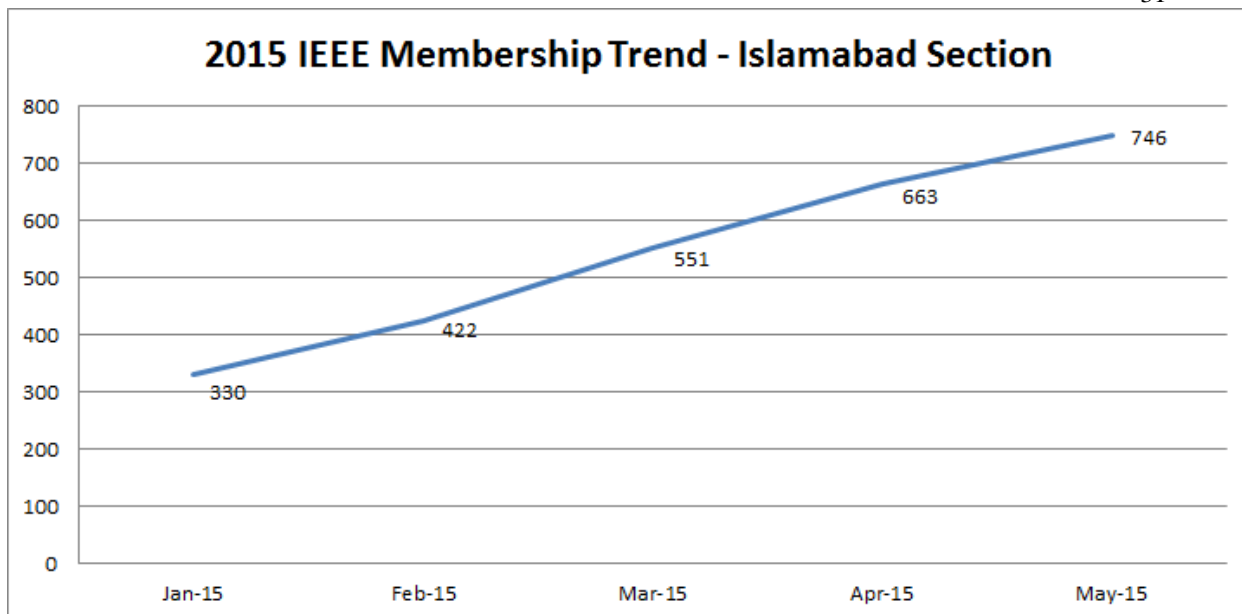


Figure 3: 2015 IEEE Membership Trend – Islamabad Section

Part C: Develop a 2-3 years vision and strategic plan to meet the needs of professional and student members, while also aligning with MGA objectives

Brief Description:

IEEE Islamabad Section is fully aware of the fact that the feasibility of a project gets enhanced if the project is durable i.e. it results in desired output covering a good duration of time. Therefore in line with the project proposals mentioned above, we have got a complete strategic plan which is actually going to serve as beneficial in the future as today. Here we go with the details:

Strategic Plans:

1) Expanding knowledge groups:

IEEE Islamabad Section has an eye on all the universities residing under the section domain either with an IEEE student Branch or not. Our major concern is to establish the rest of the existing knowledge groups under the umbrella of IEEE in those universities with an existing IEEE student branch and to establish one in those not possessing it. This is going to be a huge step towards development meeting both the professional and student member needs.

2) Memorandum of Understanding

YP Islamabad Section is already working and plans on continue to work on official collaboration with the industry to provide the IEEE members with membership discounts and benefits. We're looking forward to more participation and memberships as our list of benefits is going to grow through these MOUs. We're very concerned and sensitive about this project and got a number of MOUs on which we're working upon and be made public as we get them signed.

3) Centralization of Authority on MGM:

We're working on implementing the strategy of giving the responsibility of memberships to membership team of respective student branch so that we can implement the proposed

MGM. Program as mentioned in retaining memberships part effectively, a step to motivate the members for renewal of membership.

4) Collaboration on Internship Programs:

It has been observed that some of the student branches of IEEE or even the university itself offers internship to their students. What we propose is to combine it and make it a grand project. The objective is to not to let the students stay restricted to the domains offered by their university but also provide an opportunity to work with the instructors of prestigious universities even if you do not belong to it and encourage the diversity in working environment. This will also provide students with option to figure out and work with an Instructor pioneer in the field of your interest. As a matter of fact, IEEE student branch are in most of the prestigious universities in the city, this platform can be used as a common ground to make this collaboration happen. This will also provoke the universities not having IEEE student branch to establish one so that they can also be a part of this grand project, improving relations and hence further collaborations.

5) Fund Support for future Activities & Congress:

It has been observed that every time IEEE Islamabad Section funded even if a group of members or nonmembers of IEEE, that resulted in growth of memberships. In short, Network marketing has always proved good in the fate of IEEE Islamabad Section. The congresses held so far are the perfect example of it. To quote an example, in September 2014, IEEE Islamabad Section opened call for nominations for funding for PSYWC'14 and the response just knocked for six. Now if you look into the statistics in the figure 1, the way membership figure grew is no more than a wonderstruck. Therefore we plan on keeping a share of funds for this very purpose of entertaining the members, but this can only be made possible if we are get some from the region.

6) Survey:

We plan on conducting time to time survey so that we're on board with what is expected from us and to measure if we have been up to the mark. This Survey will be conducted among both the members and nonmembers. Among the members to that they can lay trust on us in future and for nonmembers as an attempt for their awareness for what all IEEE has got for them and that it's never late to be a part. This can be considered as a tactic to keep the community involved and updated with manifesto of IEEE.