



Section Report

IEEE LAHORE SECTION ANNUAL REPORT 2014

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PART A SECTION SUMMARY

A. 1 Executive Summary

IEEE Lahore Section was formed as a full-fledged Section in 1964. Currently, it has three society chapters, namely, Communication Society, Computer Society, and Power and Energy Society. A fourth chapter, the Industrial Applications Society (IAS) is in the formation process. There are three affinity groups, YP (GOLD), WIE and SIGHT. There are 15 active student branches in this section. Student branches remained vibrant throughout the year 2014 and organized a large number of activities.

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

- To provide a platform for networking
- To help in sharing knowledge and expertise at local level
- To strengthen industry-academia links
- To encourage and guide students' activities
- To represent Lahore Section at international IEEE forums

The Annual General Meeting (AGM) of Lahore Section for the year 2014 was held on January 31, 2015 at the FAST - National University of Computer and Emerging Sciences Lahore. Mr. Khalid Saeed, former Chairman, National Electric Power Regulatory Authority (NEPRA) delivered a keynote address, the topic of his address was the Energy Situation in Pakistan.

The affinity groups of Lahore Section namely YP and WIE were quite active and organized a number of activities. SIGHT was formed in the last quarter of 2014.

The section membership was 760 in December, 2014, much higher as compared to the last year's total of 570.

During the year 2014, five (5) Executive Committee meetings were held besides a number of administrative meetings and technical events.

There were two mega events of IEEE in the Section in 2014. The first one was the Pakistan Student/ Young Professional/ Women In Engineering Congress PSYWC. PSYWC 2014 was held in October 2014 at FAST-NU Lahore and was attended by the participants from all over the country. The second one was the 8th International Conference on Open Source Systems and Technologies (ICOSST) organized by the Computer Society Chapter at UET Lahore in December 2014.

This year again two awards were announced for Pakistan by R-10 and one by MGA.

A. 2 Financial Report

Financial reports are provided separately using NetSuit

A. 3 List of Executive Committee Members for 2014

S#	Name of Nominee	Membership#	Address	Position Proposed by Section
	Dr. Syed Amjad Hussain Shah	SM-41388554	Professor, Electrical Engineering, NUCES-Fast Lahore, B-Block Faisal Town, Lahore	CHAIR
	Dr. Muhammad Tahir	M-40153160	Associate Professor, Electrical Engineering Department, UET, G.T. Road Lahore	VICE-CHAIR
	Dr. Ali Afzal Malik	M-90361581	Associate Professor, IT, UCP, Opp. SKMT, Johar Town, Lahore	SECRETARY
	Dr. Shafay Shamail	SM-1855139	Associate Professor, CS Dept. LUMS, DHA, Lahore Cantt.	TREASURER
	Dr. Khaver Zia	M-85026639	Dean CS, Beconhouse National University, Zafar Ali Road, Lahore	SAC, Chair
	Engr. Naveed Ahmad Khan	M-91284317	Assistant Professor, University of Lahore, 1 Km Raiwind Road, Lahore	Membership Dev. Chair
	Engr. Shazeb J. Rathore	M-04673612	34-A, Sattelite Town, Gujranwala	Industrial Relations Chair
	Engr. Shazia Rizwan	M-92259444	BNU, Lahore	Web Chair
	Dr. Sobia Baig	M-92096967	COMSATS, Defense Road, off Raiwind Road, Lahore	MEMBER
	Engr. Syeda Synnia Tanveer	M-90556208	G.C. University, Lower Mall, Lahore	MEMBER
	Engr. Sahar Sultan	M-92313682	Lecturer, Lahore College for Women University, Jail Road Lahore.	MEMBER
	Mr. Usman M. Ali	M-92348200	Entrepreneur	Chair YP Affinity Group
	Ms Sania Arshad	M-92305472	Works in telecom industry	Chair WIE Affinity Group
	Mr. Amir Zahoor	M-85031258	Lecturer, FAST-NUCES Faisalabad	Chair SIGHT
	Mr. M. Aftab Waince	92656014	Student, GCUF Faisalabad	SSR
1.	Dr. Waqar Ahmad	M-085026639	Director, KICS, UET, G.T. Road, Lahore	Chair Computer Society Chapter
2.	Dr. Noor M Sheikh	M-41533774	Oman Chair, Electrical Engg. Dept. UET, Lahore	Chair, Communication Society Chapter
3.	Mr. Usman Munawar	M-92404457	KICS,UET Lahore.	Chair Power and Energy Society

PART B -ORGANISATIONAL ACTIVITIES

B. 1 Membership Development Programmes Efforts in Membership Development

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 2014. Superior university branch, University of Gujrat, Sialkot Campus branch, FAST-NUCES Faisalabad.

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.

Petition for the IEEE Consultants Network in the Section has been filed. The establishment of Consultants Network is in progress.

Membership Statistics

There has been an increase in the overall membership from last year. At the end of the year 2013, the membership of the Lahore Section is given below in comparison to same for last 5 years (2008 to 2013).

Current Grade Description	Dec-2014	Dec-2013	Dec-2012	Dec-2011	Dec-2010	Dec-2009	Dec-2008
Affiliate	-	-	-	4	4	2	5
Associate Member	7	18	12	14	7	7	10
Fellow	1	1	-	-	-	-	-
Graduate Student Member	47	35	36	34	32	14	14
Life Member	-	-	1	1	1	1	1
Life Senior	-	-	-	1	1	1	2
Member	254	230	232	181	194	167	120
Senior Member	10	12	12	12	11	14	13
Student Member	441	274	204	264	270	344	269
Total	760	570	497	511	520	550	434

Current Student Branches:

- 1 Beaconhouse National University, Lahore
- 2 COMSATS Lahore
- 3 FAST NUCES, Lahore
- 4 FAST NUCES, Faisalabad (**New**, formed in 2014)
- 5 GCU Faisalabad
- 6 GCU Lahore
- 7 Islamia University, Bahawalpur
- 8 LUMS Lahore
- 9 NFC Faisalabad
- 10 UET Lahore
- 11 UCEST, College of Engineering, Sciences and Technology, Faisalabad (**New**, formed in 2014)
- 12 The University of Faisalabad
- 13 University of Management and Technology, Lahore
- 14 Superior University Lahore (**New**, formed in 2014)
- 15 University of Gujrat, Sialkot Campus (**New**, formed in 2014)

Student Branch Society Chapters

- 1 Industrial Application Society chapter at UET Lahore
Industrial Application Society chapter at UCET Bahawalpur
- 2 Computer Society chapter at UET Lahore
- 3 Computer Society chapter at GCU Faisalabad

Student Branch Affinity Groups

- 1 WIE Lahore College for Women University, Lahore
- 2 WIE FAST-NUCES Lahore
- 3 WIE GCU Lahore
- 4 WIE GCU Faisalabad
- 5 WIE NFC Faisalabad

The objectives of the Membership Development Committee (MDC) of IEEE Lahore Section are:

- To increase members: professionals and students
- To retain the members as much as possible
- To promote more Senior Members or even Fellow
- To set up more Society Chapters and Student Branches

B. 2 Professional and Continuing Education Activities

A few seminars and technical/invited talks were held under the auspices of Lahore Section.

IEEE Lahore Section Projects Competition” held in August, 2014 at FAST - NUCES, Lahore.

The objective of the competition was to encourage students to develop quality engineering projects as part of their curricular activity in the Final year of their engineering program and get recognition for their work. A complementary objective was to increase students’ involvement in IEEE activities at the local level.

The competition was open to final year students in institutions where IEEE Student Branches are functional. Projects carried out in academic session 2013-14 were considered. In each project entry, there was required to be at least one active IEEE student member. Projects having more than 5 members in the group were not eligible.

In the first round visits were undertaken to some IEEE Branches of Lahore Section which were ready for this purpose. A total of 35 projects were evaluated out of which 15 projects were shortlisted for the Final Round.

The Final Round was held at FAST - National University of Computer and Emerging Sciences (NUCES) Lahore in August 2014. Projects were displayed for the whole day. Another event IEEE Technovate was held parallel, where the projects from all over Pakistan were displayed.

Executive Committee Meetings

A total of five Executive Committee Meetings were held during 2014. All the meetings took place at FAST-NUCES, B-block, Faisal Town, Lahore. These meetings have been reported at L31 meeting reporting system.

Some of the important issues discussed in the above meetings were:

Administrative Meetings of 2013

In addition to Executive Committee meetings, four administrative meetings were held during the year.

1. Meeting of Chair with the PSYWC organizing committee (six such meetings in a period of two months)
2. Meeting with Lahore Section Auditors Aftab Zafar & Co
3. Meetings regarding the organization of 2014 ICOSST.
4. IEEE EAB TISP meeting.
5. Meeting of Awards Committee.

Annual General Meeting of 2014

The Annual General Meeting of Lahore Section for the year 2014 was held on January 31, 2015 at the FAST - National University of Computer and Emerging Sciences, B-Block, Faisal Town, Lahore. Mr. Khalid Saeed, former chairman National Electric Power Regulatory Authority (NEPRA) was the Keynote Speaker. The topic of his keynote address was “Electric Energy Issues in Pakistan”. The meeting was originally scheduled for December 2014, but was postponed because of the terrorists' threats.

B. 3 Awards and Achievements

Section Awards

In the past the Section has given awards to the Best Student Volunteer and Best Student Branch as incentives for the outstanding work done by them for promoting the cause and function of the Section in particular, and the IEEE in general. The awards are in the form of shields and certificates.

The recipients of IEEE Lahore Section Awards for 2014 are:

1. Best Student Volunteer of the Year: Mr. Aftab Waince (GCUF, Faisalabad)
2. Best Student Branch of the Year: COMSATS Lahore.

Achievements in Section

Two R-10 and one MGA awards were given to the volunteers of Lahore Section in 2014.

One WIE volunteer attended the WIE International Leadership Congress held in California.

Chair and two student volunteers participated in the R-10 meet held in March 2014 in Malaysia.

Six volunteers of Lahore Section participated in a TISP workshop in Dubai in June 2014.

One student volunteer participated in PES congress in Turkey.

One volunteer participated in Sections Congress in Amstrdam.

One graduate student has been selected as part of the R-10 ExCom and is participating in the R-10 meetings.

B. 4 Student Activities

Our Student Branches have been very active and progressive. They have been organising IEEE seminars in other teaching institutions, especially with IT and Computer related subjects, with positive results. The members of the student branch participated in the national as well as international events, organized a number of technical talks and workshops, and conducted awareness and marketing campaign to successfully motivate students to join their student branch.

The following section gives brief summary of activities of Student Chapters.

1. COMSATS Lahore
2. FAST NUCES, Lahore
3. GCU Faisalabad
4. GCU Lahore
5. Islamia University, Bahawalpur
6. NFC Faisalabad
7. University of Faisalabad
8. LCWU
9. UOL
10. University of Management and Technology, Lahore
11. Superior University Lahore
12. UET , Lahore

LTE 4G Seminar

An Introductory seminar on 4G LTE was organized by the IEEE CIIT Lahore Student Branch. The purpose of the seminar was to create awareness among the junior students about the new technology in the Pakistani market, which would enable the students to gain more knowledge about the technology and how it operates from the engineer's perspective

INNOFEST'14

A leader is someone who leads other. But what makes someone a leader? A leader is a person who has a vision, a drive and a commitment to achieve that vision, and the skills to make it happen. A leader has a vision. Leaders see a problem that needs to be fixed or a goal that needs to be achieved. It may be something that no one else sees or simply something that no one else wants to tackle. Whatever it is, it is the focus of the leader's attention and they attack it with a single-minded determination. It is not enough to just have a vision, it's a passion for the idea, an inner sense of drive, or some sense of commitment.

The planning was completed a week ago and all the event head and their teams were doing was rehearsing for their event so that even the slightest of mistakes can be minimized. This wasn't easy ofcourse but the volunteers were dedicated and There's no such thing which can stop a dedicated person except for things which destroy one's dedication but we also had personals who were motivating everyone. We called our team as the innoFEST team. The team innoFEST worked day and night. They used to come early morning and leave late at night. Some take rest after that, some don't, some take their meal, others made their moto as "work first, meal second". So overall, it was a dream team for us and we couldn't ask for anything more from these guys. These guys had hunger for the event in them. The planning and the pre-execution was looking good.

There were different technical as well as non-technical events including:

- Programming Competition
- Circuit X
- E Gimming
- Speed Marketing
- Scavenger Hunt
- Minute to win It
- Junk Art
- Gala Night

Inauguration of IEEE PES:

The inauguration ceremony of IEEE PES Student Chapter CIIT Lahore was organized on 29th of September, 2014. Inauguration ceremony of IEEE Inc USA – Power and Energy Society CIIT Chapter was held at Seminar Room, CIIT Lahore, Pakistan. Chairperson, IEEE Lahore Section, Dr. Amjad Hussain was the chief guest on this occasion
Date: 29th September, 2014

Attended by the students of Electrical Engineering Department and members of the IEEE.

No. of IEEE members attended: 40

No. of non IEEE member attended: 30

Faculty members attended: 4

Speakers:

- Mr. Bilal Javed.
- Dr. Sobia Baig.
- Mr. Usman Munawar
- Mr. Khalid Saeed.
- Dr. Amjad Hussain

IEEE Seminar on "Next Generation Wireless Cellular Technologies (4G, LTE and LTE Advanced)"

IEEE CIIT Lahore not only provides platform to the young engineers to excel in their professional life but also trying it's best to ensure good quality training and sessions for the students so that they can learn the things to the maximum. For that purpose IEEE CIIT Lahore keeps on arranging different seminars and one similar seminar was in this week on Wireless technologies.

Dr. Atif Hameed (PHD Telecommunication) was the guest speaker for that seminar. Dr. Hameed discussed the latest trends in the field of wireless communication; he explained the latest trends and standards as 4G, Long-Term Evolution and LongTerm Evolution Advanced. Most of the attendees of the seminar were final year students of Electrical (Telecom) who were taking wireless communication as there elective subject, so this seminar helped them to gain the knowledge of latest techniques used in industry of the said technology.

Collaborative Industrial Workshop with EES INT

IEEE CIIT Lahore has organized an Industrial Automation Workshop in collaboration with EES INT. Mr. Bilal Javed, Chairperson IEEE CIIT Lahore made an understanding with Mr. Adeel, representative of EES INT, according to which this workshop which is of prime importance for graduating engineers will be offered to all IEEE Members on special discounted rates. This workshop includes hands on training on all the controllers of SIEMENS, HMI and a little intro of SCADA.

STM32F4 TRAINING PROGRAM

In first stage single day seminar was organized in which there was introduction of ST products and basic training on STM32F407 MCU. Training included, Introduction to ARM Core, STM32F407 peripherals few examples, implementation (hands on training). Introduction of STMicronics, ST Product Range & Industry Coverage in Pakistan, Infrastructure & Architecture of STM32F4, Overview of ST Microcontroller Evaluation Tools were discussed. After that there was hands on training. At the end there was a Q&A session.

FAST NUCES, Lahore

IEEE-NUCES Lahore Student Branch aims to raise consciousness of science and technology among the students. It is among our prime objectives to promote awareness regarding new technological innovations. The branch organizes a number of events to achieve its aim. The branch not only conducts informative sessions for the students, it also provides a platform for brilliant students and professionals to come and express their views on topics of their interest.

The highlighted purposes for this society are:

To bring together all the major contributors to science and technology for the benefit of the students

- Enormous opportunity for students to prove their mettle.
- To learn working in teams and manage challenging situations.
- Interact with Industry and make good name of the institution in the market
- Promote a good image of the Pakistan and the university all over the world.

IEEE WEEK' 14

IEEE WEEK'14 took place from 20th March to 22nd March 2014 at FAST-NU Lahore. This year IEEE WEEK' 14 provided the participants with a wide range of events ranging from full technical based to general knowledge based competitions. We also provided the people with a chance to increase their knowledge by arranging workshops, and also understand the industry and its mechanics by arranging a Seminar with a panel that consisted of some of the legends of the IT and business industry. And after all these hectic and learning experiences who can forget about having a little fun so that is why we arrange a couple of fun filled evenings for the participants, team and the attendees.

PNRA Seminar on Nuclear and Radiation Safety

IEEE NUCES Lahore Student Branch presented a seminar on "Regulating Nuclear Power Plants in Pakistan & Application of Ionizing Radiations in Everyday Life, Its Hazards & Means of Protection"

Pakistan Nuclear Regulatory Authority (PNRA) launched a Public Awareness Program on "Nuclear and Radiation Safety", in this regard; on 5th May 2014, a seminar of two hours duration including questions & answers session was conducted in FAST-NU to aware students about merits and demerits of ionization radiation in everyday life and role of Regulatory Body in regulating nuclear & radiation facilities in Pakistan.

Many students participated in this workshop wanting to learn more about nuclear science, its uses and hazards and protection techniques against it.

RoR Development Workshop

A workshop on 'Ruby on Rails' was conducted on 28th June 2014. The importance of RoR cannot be taken lightly, once you are upto speed in building a web application in Rails, it is way more fun and easier and the resulting application is more reliable and easily maintained and can be modified easily.

The workshop conducted by IEEE at FAST-NU was given by Mr. Umair Amjad, FAST Alumni who is a senior software engineer at Confiz Solutions and a Ruby in Rails expert. The workshop attracted many students from the Computer Science department. The interesting thing regarding this seminar was that many of the electrical engineering students were also interested in learning to create web applications and we had a huge turnout. The registration count went up to 120 students.

The workshop included the following topics.

- Basics of Web architecture
- Overview of RoR
- Setting up Environment
- Ruby Language
- MVC – ActiveRecord, ActionController, ActionView
- REST Architecture
- Routing
- DB Migrations
- ActiveRecord Associations
- Validation/Validation Helpers
- Forms/ActionView helpers
- Assets/Bundler
- Caching
- Debugging
- RoR Quick-start Demo

IEEE TechnoVate 2014

This event was customized by two different regions of IEEE (Region 8 & Region 10), amalgamating to show the joint powers of IEEE region members as unison. Technovate is joint collaboration of Pakistan and Egypt, the prime mission of this event was to introduce the technological side of Pakistan to the world by projecting the scientific work of Pakistan students to the international community. It was a final project competition and was held nationally on 16 August at FAST -NU.

IEEE TechnoVate was a collaboration of IEEE YP Lahore Section with the team of IEEE from Egypt that treads on to the path laid by the Egyptian Engineering Day (EED) program; which is annually celebrated in Egypt (Region 8). EED is a prestigious annual gathering providing graduating students across Egypt with an exclusive chance to market their projects, and explore the latest first-class technologies and solutions that in shape the current market needs. The ultimate aim of this event was to reduce the gap between the students of Pakistan and IEEE. Students were encouraged to attend and take part in all the activities and to benefit from IEEE. Throughout this national event, we not only benefited our students but also project our work and achievements to a broader audience. This was very important for Pakistan; perhaps more than other countries because of the condition from which the nation is suffering from past 10 years, this collaboration is envisioned to act as a channel of positivity and prosperity in the educational sector of Pakistan

Welcome Week

At the start of fall semester we were excited to greet our new students. Therefore, this year IEEE NUCES Lahore Student Branch held a "Welcome Week" from 25 August to 30 August 2014. The week targeted the incoming freshmen and transfer students with the goal of introducing them to FAST & IEEE. Our plan was to create more awareness of the existence and purpose of IEEE NUCES Lahore Student Branch, a number of activities were held the entire week including seminars, Information talks, highway Xbox gaming, treasure hunt and quizzes. Moreover our team organized a booth on the campus highway and we requested the old students to submit their old books, notes and other helping material so that the new students can benefit from them.

The amount of enthusiasm and participation was overwhelming. The old students helped and the new students found so much about the university and got great pieces of advice from their seniors.

IEEE Pakistan Student/YP/WIE Congress

IEEE Pakistan Student, YP (Young Professionals) and WIE (Women in Engineering) Congress (PSYWC) is the largest event for the students and young professionals 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 branches of engineering from all over Pakistan to gather at one place and learn new and useful skills and polish their expertise. They are provided with the platform to meet, socialize and share professional experiences with each other.

This three day event provided a platform to create stimulating formal and informal environments for IEEE students, young professionals and all other IEEE members to explore and find the best things. This congress was renamed and the new title of this congress was IEEE Pakistan Student/GOLD/WIE Congress (PSGWC) 2013. Graduates of Last Decade (GOLD) affinity group is now known as Young Professionals (YP) affinity Group. IEEE PSYWC'14 organized with the sole aim of bringing together 170 students, young professionals and women in engineering, computer science and allied fields to share and explore ideas, develop skills and discuss issues related to their profession. The best practices are discussed and perfected so that the attendees will have a direction to work on towards making a success of their careers. The program covered a wide range of skill development workshops, panel discussions and seminars. The speakers from IEEE top leadership from Asia Pacific Region and different Sections along with role models from all over the Pakistan in academia and industry covered a range of issues on Entrepreneurship and Future Leadership.

About the theme: "Connecting the Future Leadership"

Therefore, this year IEEE NUCES Lahore SB organized 8th edition of this congress titled "IEEE Pakistan Student/YP/WIE Congress (PSYWC), 2014" in collaboration with IEEE YP Lahore & IEEE WIE Lahore affinity groups.

This year, we are proud to announce this congress as record-breaking congress. We got 280+ participation from all over Pakistan. Previous record was of 210 participants in 2009 by IEEE NUST-SEECS (Islamabad Section).

FIFA 15 Competition:

For the gaming lovers and enthusiasts IEEE NUCES held a FIFA 15 competition. It was held from 26th to 28th November, 2014 at FAST NU Lahore Campus. It provided equal participation opportunities for whosoever had the will. It was a healthy competition and the chance to meet your match and get your adrenaline rush.

The tournament got an overwhelming participation of 50+ students who wanted to play and take home the cash prize.

Internet of Things - A technical Lecture and Information about ICOSST, OSW and BRAINIAC

The Computer Society Chapter of IEEE Lahore Section hosted a lecture on 'Internet of Things: Evolution and Development Advances', at FAST-NU Lahore on 10 December 2014. The lecture was followed by a short information and introductory session on ICOSST 2014, which will be held from 19 to 20 December 2014 and BRAINIAC 2014, which was held from 16 to 18 December. All interested, especially the students and faculty of EE and CS were cordially invited to attend. The speaker for the event was Dr. Ghalib A. Shah. He has been at School of Computer Science, Australian National University as a visiting fellow with Professor Weifa Liang. Later, Dr Shah joined Center for Advanced Research in Engineering (CARE), Islamabad as a member Technical Staff and lead various defense projects. He was also awarded a COMSTECH-TWAS joint research grant for young researchers. He worked with the Next Generation Wireless Networks Lab, Koc University, Istanbul as a Research fellow in July 2011 for one year. Currently, he is working as an Associate professor at Al-Khawarizmi Institute of Computer Science, UET Lahore. He has authored many papers in leading international journals (IEEE Transactions) and conferences.

GC University, Faisalabad

As the volunteers of IEEE at GCUF, our mission is to organize such events which not only can add value to the memberships of our existing IEEE members but can also be helpful in increasing the members of our branch in particular, and awareness about technology in folks, in general. Keeping this goal in mind IEEE-GCUF organized the following Event in the year 2014.

Technology Fair and Industrial Expo'13

On 11-12 December, 2013, IEEE-GCUF with the collaboration of IEEE-GCUF CS, IEEE-GCUF WIE and Department of Electrical Engineering at GC University Faisalabad Organized a National level Mega Event named "Technology Fair and Industrial Expo'13 also abbreviated as Techfair'13". This was for the second time that IEEE-GCUF Faisalabad was organizing this event. The first TechFair was organized in August, 2008.

With the Theme of "Technology For All" and comprising of different Conferences Competitions, Exhibitions Workshops and Industrial Expo, TechFair'13 began with an opening ceremony on 11th December. Dr. Zakir Hussain the Vice Chancellor of GC University Faisalabad opened the Event by cutting the ribbon. He was accompanied by Dr. Naureen Aziz Qureshi, Dean Faculty of Science and Technology, Engr. Muhammad Ibrahim Khan Chairperson Department of Electrical Engineering, Dr. Ramzan Talib Head College of Computer Science and Information Studies and Mr. Muhammad Ayub Registrar of GC University Faisalabad.

More than 400 students from Punjab University Lahore, National Textile University Faisalabad, University of Management and Technology Lahore, FAST NU Lahore, FAST NU Faisalabad, The University of Faisalabad, NFC Faisalabad, Riphah University Faisalabad Institute of Space Science and Technology (IST) Islamabad, University of Agriculture Faisalabad, GC University Layya Campus, Host GC University Faisalabad and some other leading universities of the region, participated in the different competitions workshops and conferences of the Event. On the other hand the visitor's count in Expo was more than 30'000.

Salient Features:

- Biggest discounts for the IEEE Members in the history of IEEE Lahore Section (40% to 100%)
- Biggest Expo organized by any Branch within Lahore Section, more 30'000 visitors in two days
- More than 400 competitors in different competitions.
- A large scale publicity of IEEE not only in students but in general Public as well, through Expo.

Dignitaries Participated:

1. Prof. Dr Zakir Hussain (Vice Chancellor, GCUF)
2. Prof. Dr. Syed Amjad Hussain (Chair IEEE Lahore Section)
3. Prof. Dr. Aftab Maroof (Director FAST NU, Faisalabad Campus)
4. Prof. Dr. Naureen Aziz Qureshi (Dean Faculty of Science and Technology, GCUF)
5. Dr. Shafay Shamail (Ex-Chair IEEE Lahore Section)
6. Dr. Yasir Niaz Khan (FAST NU, Lahore)
7. Qaiser Abbas (CEO of Possibilities.com)
8. Ahsan Ijaz (CEO, Horizon Consultancies)
9. Dr. Ramzan Talib (Principal College of Computer Science and Information Studies, GCUF)
10. Engr. Muhammad Ibrahim Khan (Head, Department of Electrical Engineering, GCUF)
11. Engr. Saqib Munawwar (Honorary Mentor IEEE USA)
12. Amir Zahoor (IEEE Young Professionals, Lahore Section)
13. Ms. Mehvish Zahoor (Secretary, IEEE WIE Lahore Section)

14. Engr. Kamal Shahid (Punjab University, Lahore)
15. Mr. Mushtaq Wali (The University of Faisalabad)
16. Mr. Zohaib Latif (Rphah University Faisalabad Campus)
17. Ms. Takako Hashimoto (R10, WIE Coordinator) Video message

IEEE R10-Video Contest

The start of the year was with elevation of IEEE-GCUF performance graph by the achievement of 2nd Position in R-10 Video Contest

Participation in Daira'14- Olympiad by FAST-NU Fsd

IEEE-GCUF team participated in "Daira'14-First Olympiad in Faisalabad". The Olympiad was consist on 4 different categories of events. Technical, Social, Entertainment and Literary. It continued for 4 days. Feb 28 to March 3, 2014

Achievements:

- 1) 1st Position in Bilingual Essay Writing by Muhammad Arshad Mukhtar
- 2) 3rd Position in Chess Competition
- 3) Interaction with other IEEE Student branches.
- 4) Meetings with IEEE Student Branches of Faisalabad
- 5) Discussion on Collaboration and futures planning's regarding IEEE activities.

Membership Drive 2014

Timing: March 12- March 14, 2014

Venue: Yousuf Block-GCUF

Description:

IEEE-GCUF Computer Society conducted membership drive and motivated the students to join the largest engineering organization IEEE

SCAVENGER HUNT with IEEE-GCUF

Scavenger Hunt was organized with the purpose to create better understanding and friendly environment among the IEEE volunteer so that they may work and collaborate with each other as like family members.

Participation in IEEE Extreme Talent Contest by IEEE-NTU Faisalabad

Timing: June 7, 2014

Venue: National Textile University, Fsd

Participation from IEEE-GCUF: 13

Achievements:

- 1) 1st Position in Speed Wiring Competition by Muhammad Haseeb
- 2) Interaction with IEEE-NTU volunteers
- 3) Mutual meeting of IEEE-GCUF, IEEE-NTU, IEEE-TUF & IEEE-NFC

IEEE DAY Celebration By Computer Society Chapter

Timing: October 7, 2014

Venue: 1st Floor Yousuf Block-GCUF

Guests:

- 1) Dr. Ramzan Talib (Chairman CS Department GCUF)
- 2) Engr. Syed Zeeshan Haider (Counselor IEEE-GCUF)
- 3) Mam Asma Sajid (Advisor IEEE-GCUF Computer Society)
- 4) Miss Mehvish Zahoor (WIE Pakistan) & All the faculty members of College of Computer Science & IT.

Description:

As every IEEEian know that IEEE day celebrate on 7th October every year. We also celebrated it in a cheerful way. Our Faculty staff (Both male and Female) was also invited on this event. We had a delicious cake party on that day. Another advantage of this party was that it brings interaction between old and new members of the society and old members introduced their selves with new members and have great time and fun. As we know that mutual cooperation is very necessary in our field, we worked in team to achieve goals and for this; team should interact with each other in a good way, there should be no communication gap between all members. We also discuss about the upcoming events organize by IEEE Computer society with our faculty members and new members. Like as:

- What we had planned for them.
- What else better we can do for making them unique and successful.

Members who served the guests are:

- Mam Asma Sajid (Advisor of Computer Society)
- Aftab-ur-Rehman (Chairperson of Computer Society)
- Hira Mahmood (BSCS-7th)
- Farwa (BSSE-3rd)
- Samavia (BSCS-5th)
- Tehreem Aslam (BSSE-3rd)
- Zain-ul Abedin (BSCS-5th)
- Daoowd
- Adnan
- Sajjad Ali (BSCS-7th)
- Zaman Khalid (BSCS-7th)
- H.M Rashid (BSCS-7th)
- Mehvish Zahoor (Vice Chairperson at Lahore Section)

One Day Workshop on Watermark techniques

A watermark is a kind of marker covertly embedded in a noise-tolerant signal such as audio or image data. The watermarking of the document involves the transformation of the original into another form. It is typically used to identify ownership of the copyright of such signal. "Watermarking" is the process of hiding digital information in a carrier signal; the hidden information should, but does not need to contain a relation to the carrier signal. Digital watermarks may be used to verify the authenticity or integrity of the carrier signal or to show the identity of its owners. It is prominently used for tracing copyright infringements and for banknote authentication. Like traditional watermarks, digital watermarks are only perceptible under certain conditions, i.e. after using some algorithm, and imperceptible anytime else. If a digital watermark distorts the carrier signal in a way that it becomes perceivable, it is of no use. Traditional Watermarks may be applied to visible media (like images or video), whereas in digital watermarking, the signal may be audio, pictures, video, texts or 3D models. A signal may carry several different watermarks at the same time. Unlike metadata that is added to the carrier signal, a digital watermark does not change the size.

Speakers: Dr. Saman Iftakhar

(Received her M.S and Ph.D. degrees in Information Technology in 2008 and 2014, respectively, from National University of Sciences and Technology (NUST), Islamabad, Pakistan.

Currently, she is serving Govt. College, University Faisalabad, Pakistan as an Assistant Professor. She has worked as Research Assistant in an Information and Communication Technology Research and Development (ICT R&D) project from 2008 to 2011 in NUST. Her research interests include information security, distributed computing, semantic web and cloud computing.)

Chief Guest: Dr. Ramzan Talib (Coordinator of Computer science GCUF)

Celebration of World Disability Day by CS Chapter

Timing: December 3, 2014

Venue: Government Impaired Higher Secondary School

Description:

Pakistan women in engineering forum (PWF) organized the event of celebration of world disability day with disable students with the collaboration of IEEE-GCUFCS on day 3rd Dec. this event included the visit of school of disable students, for the purpose of motivation. The main purpose of celebrating this day with them was to realize them that they are important part of our society and can do a lot for the progress of country.

The following is a report based on the activities that IEEE- GCUL and IEEE-WIE GCUL branch held in 2014. Our activities involve Informative workshops on mobile communication, networking and advancement of technology.

Introductory Meeting after Body Selection

Purpose of the meeting was to introduce the society members with each other and promote interaction between them. After brief introductions, the rules and regulations of the society were defined. Apart from this, the duties of each member of the student body were assigned and explained in detail. In the meeting, another point under focus was how the Student Branch will function. The importance of mutual understanding and proper co-ordination between all members, and brainstorming on each event to be organized and each decision to be taken was emphasized.

Preparatory meetings before Annual Dinner

The meetings were called basically to promote co-ordination between the three societies of the Department of Computer Science which were to organize this event together, in collaboration. The three societies are the IEEE, ACM and Computer Science societies. All members of the student bodies of these societies were called together, and invited to give ideas as to what the upcoming event should contain for it to be a grand success. All creative minds shared their ideas relating the seating arrangements, what should be in the menu, what possible segments can the Annual Dinner have how to efficiently and impressively manage everything, and many other aspects of arranging an event of such a huge scope. Later on duties were assigned, instructions and advice given to each member. All was planned such that the event should be virtually flawless.

Annual Dinner:

The Annual Dinner is an event that is awaited all year long. This is an event of Department scope. Four batches then studying BCS (hons.) in the Department of Computer Science, two batches studying their MCS in the same, faculty of the concerned department and heads of all departments of the Government College University, Lahore were part of this event. The IEEE Student Branch had the honor to bring up the Annual Dinner 2014, with assistance from the ACM and Computer Science societies.

The guest of honor for the event was Vice Chancellor, GC University, Lahore, Prof Dr. Khaleeq ur Rahman. The event contained much more than just plain dinner. It started off in the Bukhari Auditorium of the GC University, with recitation of Quranic verses. This was followed by recitation of Naats. Then the audience was shown a short movie, the point of focus being the life of BSCS students of the Department of Computer Science of the GC University Lahore. This movie had the audience applauding and energized, and excited for the upcoming segments of the Dinner. Then there were exciting onstage performances by the students of the department. These included parodies and dramas. Some performances were comical and amusing, while some were serious and thought provoking. The dinner came in between these activities, in open air. The dinner was described by most as delectable, thanks to the right choice of menu and caterer. The activities resumed after the dinner, in the auditorium. There were more skits, parodies of some influential members of the faculty. There was a fake award ceremony in which some popular students were given awards for their striking traits; it was more like an innovative way of giving titles to the students. Nearing the end of the Annual Dinner 2014, shields and certificates were presented to office bearers and most active members of the IEEE, ACM and Computer Science societies.

Softronix'14

This event brings together members with different personalities, belonging to different environments, cultures and schools of thought from all over Pakistan, its main focus will be on the role and significance of IEEE in students' professional and community lives, and how this platform can serve as a uniting factor towards a common healthy cause, which the GCUL team strongly feels, and has experienced.

And this was the first time ever that three Departments of GCU came together to organize an event.

Departments involved were :

1. Department of Computer Science.
2. Department of Electrical Engineering.
3. Department of Electronics.

Short Description of all the Events:

Computer Science:

1. Programming Competition
2. Web Design Competition
3. Mind Quest

4. Project Exhibition

5. E-Gaming

6. Workshops

Electronics :

1. Speed Wiring
2. Circuit Designing
3. *Workshops*

Electrical Engineering

1. Arduino Workshop
2. Sensors Workshop

Social Events:

1. Photography Workshop
2. Minute to Win it.

Programming Queens Competition

In this male dominant field it is very difficult for a female programmer to show her skills. To encourage women in programming we held Programming Competition in which surprisingly participation from every semester at large scale were held.

Fund raising Gaming Competition

IEEE-GCUL organized a one day gaming competition to raise funds for the

GCU 150th Celebration Photograph

IEEE-GCUL on the annual sports event of GCU arranged almost 2000 people to write “150” to congratulate our institute for completing 150 years of excellence

Islamia University, Bahawalpur

1 Day Workshop on Android Development

Android apps development and game development is the most trending field in Pakistan. Due to secure Job Opportunities a large no of Computer Science and Computer Engineering Students are Motivating towards Android Development field. For this purpose IEEE UCET Student Branch conducted a 1 day Workshop on Android Development. Objectives to arrange this workshop is to motivate the students for android development at Home, How to start Development In Android, Scope of Android and its Application, Future of Android and 3d Game Development. In the End Certificates were distributed among the Participants

Workshop on FPGA

EVENT: Technical

DATE: 20-2-2014

TIME: 12:00 pm to 2:00 pm

LOCATION: Auditorum, New Building UCET IUB

No of Audience: 77

IEEE members: 18

The purpose of this workshop is to introduce modern Platform for System Programming. Field Programmable gate Array is one of the platform for system programming. Speaker Abbasi briefly explains about the Scope of FPGA over Microcontrollers, how FPGA's replaced Microcontrollers, Future trends of FPGA and most Important Jobs in the Field of Embedded Systems. In the end Certificates were distributed among the Participants

Rescue 1122 Training Session at UCET IUB

EVENT: Technical

DATE: 20-3-2014 to 26-3-2014

LOCATION: Old Building, UCET IUB

No of Participants: 74

EVENT SUMMARY: Rescue training was conducted by "Punjab Rescue 1122 Community training department."

Special Thanks to:

1) Dr. Ashiq Hussain Chairman Telecom Department

2) Mr. Shoukat Regional Safety Officer Rescue 1122

Training Phase 1: (20 March to 22 March 2014)

In first week training phase 1 was conducted & 35 students were trained.

Three day training contains:

Day 1: Basic life support training

Day 2: Wounds & CPR

Day 3: Firefighting & certificate distribution.

Training Phase 2: (24 March to 26 March 2014)

In first week training phase 2 was conducted & 39 students were trained.

Three day training contains:

Day 1: Basic life support training

Day 2: Wounds & CPR

Day 3: Firefighting & certificate distribution.

Electronic Circuit Designing ,Simulation and Proteus Workshop

EVENT: Technical

DATE: 29 April to 30th April 2014

TIME: 1:00 pm to 2:30 pm

LOCATION: Old Building UCET, IUB

No of Audience: 75

Speaker : Mr. Abbas Abbasi (Lecturer Electronics Department, UCET IUB)

Event Summary:

Proteus is a software for microprocessor simulation, Schematic capture and Printed Circuit Board (PCB) design. It is developed by Lab center Laboratory in 1988. Proteus is a virtual system modeling that combine system simulation, animated components and microprocessor models to co-simulate the complete microcontroller based design or whether any analogue or digital electronic device connected to it. Features

- Real Time Simulation
- Circuit Designing
- PCB Designing
- Electronic Design Automation
- Virtual System Modeling

THE CARRIER PLUNGE:

EVENT: Technical

DATE: 26-5-2014

TIME:

LOCATION: Auditorium, New Building UCET IUB

SPEAKER: Miss Tahira Akhter

Event Summary: "Standing at the very edge of your time to jump in your carrier??"Scared of the unseen interviewers??Fight your fears & win it
Department of Computer systems engineering & IEEE UCET IUB offers an exclusive event for the students of computer systems with FREE OF COST
PLUNGE YOUR CARRIER WITH COURAGE & CONFIDENCE: Join the carrier plunge sessions:

Award Ceremony

EVENT: Non-Technical

DATE: 2-6-2014

TIME: 1:00 pm to 2:00 pm

LOCATION: Auditorium New Building UCET IUB

Chief Guests:

Engr.M.B.Alvi(Professor Computer Engineering Department UCET,IUB)

EngrDr.AashiqAwan(HOD Electrical and Telecom Department UCET,IUB)

Event Summary:

IEEE UCET IUB,Organized Award Cermony for the Excom of IEEE UCET Student Branch 2013-2014.Honourable Chief Guests Distributed the Certificate of Recognition These Certificates were awarded among the students for Volunteering themselves for UCET IUB.They Appreciated all the efforts and Achievements of Team IEEE UCET Student Branch 20132014.

Annual Dinner

DATE:6-6-2014

LOCATION: Grand Regency Restaurant Bahawalpur

Chief Guests

Engr.Aneees ul husnain(Branch Counselor IEEE UCET IUB Student Branch)

Engr.QaiserIjaz(Founder IEEE UCET IUB Student Branch)

Engr.Aftabalmanni(Advsor PES UCET)

Event Summary: It is the Tradition of IEEE UCET IUB Student Branch that it warmly Welcome the New Excom of IEEE.Keeping the Tradition A gettogether was arranged in honour of Excom of IEEE UCET 2013-2014 for their Priceless sevices.AndOth Taking Ceremony is Arranged for the New Excom for the year 2014-2015.Branch Counselor Engr,Anessulhusnain take Oath for new EXcom.Honourable Chief Guests address the audience .Later on Respective chairs of Student Branch,COMSOC and PES address the team fellows and shared their motivation and goals for Upcoming year.

Branch Counselor taking oath from new excom

Chair IEEE UCET Student Branch Addressing the audience

1st IEEE day of the Week UCET IUB

Event :Non Technical

Objective: Team Building, leadership Qualities, Entertainment and physical activates.

Location: Room no#15 engineering new building Baghdad ul jaded campus Islamia University Bahawalpur.

Dates: Began on 25.09.2014

TIME: 3:30pm to 6:00pm

Events:

1-Azad Pakistan documentary. Time: 3:30 pm to 4:30 pm

2-Motivational speech by guests (sir Qaiser, Counselor Sir Anees)Time: 4:30pm to 5:15 pm

3- Football Match IEEE EXCOM MEMBERS. Time: 5:30 pm 6:00 pm

GUESTS: Counselor Sir Anees, Mr.QaiserIjaz.

Invited Chapters: COMSOC&PES.

ORGANIZED by: IEEE UCET IUB Excom STUDENT BRANCH.

Summary of the event:

The objective of IEEE Day of the week to give chance to IEEE members to share their ideas, to bring creativity, groom their leadership qualities, teaming, planning, healthy activities and entertainment. On first day of the week event started by welcome speech by Chairperson Saad Atta Rind. Event has divided in three sessions. In first session ordinance entertained by historical movie. In second session IEEE members motivated by IEEE professional senior members speaker Counselor Ast-Prof Aneesulhassan and Ast-Prof Qaiser. In 3rd Session members and guests played a 30 minutes football match.

IEEE membership class to class Presentation campaign.

First time in the history of IEEE U.C.E.T Student Branch have organized class to class Membership campaign. The purpose of this campaign is to motivate and give awareness to the students about IEEE and its Membership Benefits. Two teams of volunteers were made for logistic support. 1st year, 2nd year and 3rd year students of Electrical, Electronics, Computer Systems and Telecommunication Engineering have attended presentations in their classes. Attendance of presentation 320 students. More than 25 students registered for IEEE international membership and 35 students registered their name for membership in 50% discount in February. Membership campaign ends with Orientation Ceremony At the Auditorium of U.C.E.T.

IEEE SPAC One Day Capacity Building Workshop for the Youth of Bahawalpur

IEEE UCET WIE Affinity Chapter has organized One day capacity building workshop. Speaker encourage students how to excel your skills with in the limited sources. It was an interactive workshop to make people realize their actual capacity and work accordingly to bring positive changes in their selves and their communities. It was aimed to enhance various aspects of professional and personal life. The main focus was on goal setting, direction, powerful tools of communication, taking inspiration and motivation as a key to achieve professional goals and to lead by the development of charismatic personality. It was designed to make participants learn the influence of strong communication, motivation and leadership to arrive at a win situation. Different activities were performed during the workshop. In the end Certificates were awarded to participants by the honorable Chief Guest Mr. Qaiser Ijaz

24 -26 October PAKISTAN STUDENT YOUNG PROFESSIONAL WIE CONGRESS PSYWC '14

IEEE UCET IUB PARTICIPANTS: 15

LOCATION: Fast University Lahore.

Date: 24 oct to 26 oct

EVENT SUMMARY: IEEE UCET IUB Counselor Engr. Anees and EXcom members of SB, WIE, PES & COMSOC attended the PSYWC'14. One of the most memorable & valued event held under IEEE PAKISTAN. This event was a special one as it gathered the highest number of participants in any congress. Moreover, the leadership & motivational sessions for the students from all the student branches were sheer source of inspiration for other That event was another milestone in the journey of progress for IEEE PAKISTAN. Our Branch nominated for 2014 outstanding Best volunteer of the year

6th IEEE ANNUAL ENGINEERING PROJECT EXHIBITION 2014 TIME: 9: 00AM to 5:00 PM

DATE: 11- NOV-2014

LOCATION: University of engineering college Islamia University of Bahawalpur.

Event organizers: IEEE UCET IUB SB, WIE, COMSOC & PES.

EVENT SUMMARY:

6th IEEE Annual Engineering Project Exhibition (AEPEX) is held every year under IEEE UCET IUB, Student Branch, situated at the southern Punjab region in Pakistan. In this event, primarily, a completion of Final Year Project (FYP) is held among the students & these projects are displayed in an open-house exhibition. The major things to be highlighted in that event were:

1. Inauguration & Orientation of IEEE SIGHT to the high rank officials of the university.
2. A Seminar under IEEE Young Professional for passing out students
3. A Seminar under IEEE UCET IUB, PES chapter
4. IEEE UCET IUB, Student Branch helping in fund raising for the Pakistan Blind Cricket Council at City Level
5. Exhibiting 150 Projects

& projecting them through Media Coverage. 6. Hosted over 3000 plus visitors (including students, teachers, researchers from various departments of university & persons from almost every walk of life)

Event Highlights:

- Opening Ceremony: o Opening ceremony was jointly done by the Prof. Jan. M Keerio, Prof. A. Q. Chang & Prof. Dr. Usman Keerio at the old building of Engineering College in university.
- Power & Energy Society hosting a Seminar at Solar Technology: o Mr. Usman Munawar, PES Section Chair at IEEE Lahore Section not only delivered an orientation regarding IEEE PES but also threw light on the Solar Technology that is effectively useful for Pakistan
- IEEE Young Professionals delivering seminar on Earning through Web: o Mr. Usman Ali, IEEE Young Professional, Chair YP Pakistan delivered a very productive & useful seminar on earning through webs. Moreover, he also motivated the students to think out of the box with the available resources & instead of job hunting, think for the job creating ideas

IEEE COMSOC UCET IUB TECHNICAL EVENT

Event Summary: IEEE Communication Society [UCET, Bahawalpur] Was organized 1-day workshop on optisys software". "OptiSys Software "is a comprehensive software design suite that enables users to plan, test, and simulate optical links in the transmission layer of modern optical networks and that's useful in research work for communication engineers

IEEE WIE UCET IUB INTERNATIONAL WEBINAR EVENT

:"I change the world, I am engineer..." was more than event from IEEE UCETIUB, WIE Chapter, Bahawalpur. The event included motivational & interactive talks from International; speakers from Malaysia, Portugal & Tunisia. We are extremely thankful to international WIE speakers (Dr Sandra Costa from Portugal , Saleha Javed From Malaysia and Maessa Abdullah Ben Aziz from Tunisian) for participating and delivering seminars on the role of women in the field of Engineering & science and benefits of WIE . Also thank full to Usman Munawar YP Lahore Section and Goncalo YP Portugal for Collaboration with IEEE WIE UCET IUB. Alongside these very productive interactive sessions, the WIE members are participated in capacity building sessions & activity. The students were convinced about the significance of their role in engineering. This session put the participants, particularly woman, at a new driving seat; towards a new horizon of success; with new goals to achieve.

NFC, Faisalabad

IEEE is a global platform for Electrical and Electronics engineers, having branches in universities and colleges all over the world. IEEE NFC-IE&FR is one of these branches. It provides a widespread exposure to the students of NFC by organizing and participating in many technical seminars and competitions, expert lectures, project exhibitions, industrial tours and many such events. It is an active platform for promoting professional and educational activities and encourages the students to keep in touch with technological advancements of the modern world.

Quiz, Creating words & Electrical Idol:

IEEE NFC branch organized this fruitful activity at the end of seminar so that interest of the audience never went a degree below from where it started. The Quiz had some Questions related to IEEE and WIE whose answers were hidden in the seminar and in second competition every team was given an alphabet to start with and each team had to make maximum technical words from the last alphabet of the word they created and finally electrical idol was a small

kind of singing competition which created a lot of fun in the last. Audience took full part in the Quiz & creating words related to IEEE and WIE and also sowed intent of becoming members.

Seminar on 3G and 4G by ZONG

IEEE NFC Student Branch Faisalabad conducted a seminar on 3G and 4G on 29th April by the assistance of Zong. Guest Speakers in which Mr. Mirza Ali Imran baig have given presentations on it. Students of all departments, teachers are came and attend the seminar. In the seminar, guest speakers told about the benefits and usage of mobile data network. They told about the internet usage of Pakistan in a one day. Giving knowledge about the 3G network in Pakistan and the high speed of the internet using with 3G capability.

The speakers also showed numbered of videos and pictures to give complete briefing and describing the 3G and 4G. They also tell about the packages as Zong given the minimum rates then other networks. Zong also is the only one mobile network company that also given 4G also, at this stage when all other companies

Workshop on Arduino

IEEE NFC Student Branch organized a workshop on Arduino (Micro controller) on 28th May 2014. This workshop is free for all students not only for NFC IEFr Faisalabad but also for other universities. Other universities such as The University of Faisalabad, UET Lahore (Faisalabad Campus), GC University Faisalabad and NTU Faisalabad took a part in the workshop

Arduino is a single-board microcontroller, intended to make the application of interactive objects or environments more accessible The hardware consists of an open-source hardware board designed around 8bit Atmel AVR microcontroller, or a 32-bit Atmel ARM .

IEEE NFC Participated in LAPS'14 at LUMS

IEEE NFC Student Branch Actively participated in LAPS'14 a event held at LUMS, Lahore. IEEE NFC Student Branch not only participated but got 2nd position in the professional Photography and Poster creation event 2014. The Photography skills of the student not only impressed the judges but IEEE NFC Student Branch got excellent comments from the other participants

Presentation on using IEEE SAC Pakistan, Vtools and creating your own email alias ieee.org

Chairperson IEEE NFC Student Branch Mr. Maaz Qaiser gathered the members of IEEE NFC Student Branch in order to them know to use their membership to the maximum for this Mr. Maaz Qaiser presented the members a presentation. The awareness by the chair persons were created on the following topics:

- Using Vtools and its importance
- Creating your email @ieee.org
- Using the IEEE SAC Pakistan

Because of this IEEE NFC has been on the top IEEE SAC Pakistan

Inauguration of IEEE Power & Energy Society

Meeting the proud parents of Arfa Kareem, the Chairperson and the IEEE NFC Student Branch had a very positive Question-Answer session with them. Mother of Arfa Kareem asked the interest of the majority of the members of IEEE NFC Student. As the majority of the students from the branch answered in Power. So, the chairperson IEEE NFC Student Branch decided to inaugurate the Power energy society chapter in IEEE NFC Student Branch, Faisalabad, this was a very positive and a decisive moment and made Mr. Maaz Qaiser the founder of IEEE PES NFC

Workshop on STM32F429 ARM Microcontroller Series

IEEE NFC Student Branch arranged a workshop on 23rd Nov, 2014 with the students of the branch to make them understand the use of ARM STM32F429 microcontroller. Sir Awais Ajum (department of electrical engineering NFC i.e.f.r Faisalabad) . Sir Awais Anjum mentioned the step to use a specific peripheral of STM32Fxx series. Sir took the example analog to digital converter and made student use the ADC according to the required parameter. Keil compiler was used to compile and burn the program and example of ADC code is show

Workshop on Multisim and LT Spice

Multisim and LT Spice are one of the most handy tools in electrical and electronics circuit design. So, the chairperson IEEE NFC Student Branch, Faisalabad decided to take a workshop at the branch. Students from outside the branch were also allowed to take the workshop. A few students from GCUF and TUF also joined the workshop. The chairperson arranged a teacher Engr. Nasif Raza (department of electrical engineering NFC iefr) volunteered for job and created a lot of awareness and use of multisim and LTspice software). A few basic circuits of electronics and digital circuit design were designed and demonstrated to the

IEEE NFC Conduct PLUSCON conference speaker “TALAT HUSSAIN

IEEE NFC Student Branch organizes the PLUSCON Conference by inviting the Talat Hussain a famous Anchorperson on TV. This conference have the theme of how we engineers go for our aim in the society. To rehabilitate with the current situation of the country. Question answer session also held after the discussion.

Star Project

Date: 17th April, 2014 Venue: Kohinoor Govt. School Faisalabad

This project is basically Student-Teacher and Research Engineer/scientist. The aim of this project was to guide students of school level to select science subjects and to pursue their education. A detailed knowledge was provided to them about different fields of engineering. In most of the government schools students are not provided with enough knowledge of professional education so our target was to explore their minds and to suggest them to learn and educate themselves. Project Theme: IEEE - Student Teacher and Research Engineer/Scientist (STAR) project is an educational outreach program whose main aim is to promote the connectivity of IEEE members with local junior high and high schools so as to enhance the image of engineering careers. Purpose: Through a one-to-one interaction between society volunteers and a Student Teacher Team, STAR aims to create a technical support network for teachers and a mentoring program for students. Activities and sessions will be conducted in various schools and colleges in order to improve the perception of the field of engineering, attract more girls to pursue an engineering career and promote the endless possibilities that can result from considering engineering as a possible career option to all students.

LCWU

Engineering is not mere knowledge, nor is it just the analysis or the capability of presenting solutions to non-existent engineering problems. Engineering is the skill of technologically transforming the world.

Engineers administer the interface of science and society. To recognize the great works of the IEEE member engineers who took an initiative to group up for the exchange of technical ideas in 1884, engineers worldwide celebrate the anniversary on 7 October every year as “IEEE Day”.

IEEE Day 2014 was celebrated for the 5th time with the theme of ***“Leveraging Technology for a Better Tomorrow”***.

This year also, Lahore College for Women University, acknowledged the work of these great engineers by jubilantly celebrating IEEE Day. Student volunteers and staff members exerted their complete efforts to ensure the success of the event. The teachers and students of university gathered in the conference hall to discuss the importance and works of the engineers for the advancement of a better tomorrow. It was then followed by Mr. Usman Munawar who emphasized on the importance of joining the IEEE and motivated students to join in for a great cause. The event proceeded with the lectures of Dr. Ghalib from KICS and the Chairperson of IEEE, Lahore Section, Dr. Amjad Hussain

Academic presentation on “HOW TO STUDY ABROAD WITH THE PLATFORM OF “HEC STUDY ABROAD SCHOLARSHIP “ and “ERASMUS +”.

Venue: CRP conference room

Date: 9th December 2014

Time: 11:00 to 12:30

GUESTS:

- ✓ DR.Amjad Hussain (CHAIR IEEE Lahore section)
- ✓ MR.Jamsheed Iqbal Janjua (GENERAL SECRETORY IEEE Lahore)
- ✓ MR .Imran Javeed (Sr.Search officer .KICS,UET)
- ✓ DR.Amir Mehmood(Assistant Professor,KICS,UET)

Rizwan Mumtaz (president south asian chapter at ERASMUS MUNDUS ASSOCIATION)

EVENT TAG LINE:

To inform students that - How a student especially girls can study abroad with the plate form of “HEC study abroad scholar ships” and “ERASMUS +”

The University of Faisalabad

IEEE-TUF has three main missions

1. Provide guidance and counseling to undergraduate students.
2. Introduce research at undergraduate level.
3. Provide exposure to professional world.

IEEE TUF Internship Program:

IEEE-TUF initiated “IEEE-TUF Internship Program” are targeted towards recent graduates. It is intended to provide meaningful training and career development opportunities for individuals. This year 5 internships in DG Cement, Kallar Kahar were provided to the recent graduates of TUF. Duration of this internship was 16 weeks. IEEE-TUF aims to continue this program and increase number of internships.

Industrial Tours:

IEEE-TUF took the liberty to arrange industrial tours for students to provides them with adequate exposure in tackling real life problems encountered in the working of an industrial entity.

14 tours have been arranged to following industries.

- 500 KV Grid Station, Multan (25 March 2014)
- Heavy Electrical Complex, Hattar (29 April 2014 & 6 May 2014)
- DG Khan Cement, Kallar Kahar (31 March 2014)

- Bestway Cement, Hattar (24 March 2014 & 21 November 2014)
- Century Paper & Board Mills, Kasur (9 April 2014)
- Fecto Cement, Islamabad (9 April 2014)
- Tesla Technologies, Islamabad (27 March 2014)
- Ittehad Chemicals, Sheikhpura (16 April 2014)
- PEL, Lahore (24 March 2014)
- Packages, Lahore (23 April 2014)
- Technology Park, Abottabad (21 November 2014 & 28 November 2014)

University of Lahore

IEEE UOL Student Branch established in December 2013. It was 2013 Our team attended the Annual General Meeting and that time our team had come to visit what actually other student Branches do in their annual activities. Our Branch also planned to organize the activities through which the students can excel themselves in today's technological era. IEEE UOL SB organized some of activities throughout the year of 2014 and has practically helped students to enhance their skills and their practical and professional career under the banner of IEEE

IEEE UOL Tech Event

Date: 18th February, 2014.

Venue: University of Lahore Defence road Campus.

UOL Tech Event was organized with the collaboration of IEEE UOL student branch and Society of Computer Sciences (CS&IT Dept.) UOL. It was a combination of DLD Exhibition and programming competition.

Participation: 100

Learn IT – Android Workshop

Date: 23rd – 24th May, 2014.

Venue: University of Lahore Defence road Campus.

IEEE UOL organized Android Workshop. The objective of this workshop was to train participants in the field of mobile application development. The chief guest of this event was Dr. Amjad Hussain (Chair of IEEE Lahore Section) whereas guest of honor was Dr. Khaver Zia (Student Activity Chair of IEEE Lahore Section). More than 200 people participated in this workshop and it was covered by a local news channel. It was the 1st workshop that was held in CS department and students really appreciated the efforts of team IEEE UOL. The feedback from social media was also encouraging

Fresher's Week

Date: 15th – 18th September, 2014.

Venue: University of Lahore Defence road Campus.

IEEE UOL student branch organized and participated in UOL freshers' week that was supervised by student representative office. We welcomed the freshers and spread awareness about IEEE among newly admitted students.

Many new students showed their interest in joining IEEE Student Branch

IEEE Membership Drive Seminar

Date: 30th September, 2014.

Venue: University of Lahore Defence road Campus.

IEEE UOL student branch organized an IEEE membership drive seminar which was headed by Mr. Naveed A. Khan (Membership Drive Chair IEEE Lahore Section). The guest speaker was Mr. Amir Zahoor from Fast-NU Faisalabad. The seminar's theme was „Global Opportunities begin at the Local Campus“ and it highlighted the benefits of being an IEEE member. After the seminar huge number of people reached out our branch members to get themselves registered.

Learn IT – Web Workshop

Date: 1st – 2nd October, 2014.

Venue: University of Lahore Defence road Campus.

IEEE UOL organized a two days web development workshop which was conducted by Sir Abdul Wahab (Asst. Prof.). The workshop focused on PHP development and its frameworks along with the bootstrap based responsive sites.

Participants were very enthusiastic for such an informative workshop and were keen to know about further events plan out. They requested team IEEE UOL to organize such events more often

IEEE Day-2014

Date: 14th October, 2014.

Venue: University of Lahore Defence road Campus.

Detail: On 14th of October IEEE UOL Student branch celebrated IEEE day with full zeal and zest. A seminar was arranged on the theme of this year's IEEE Day which was "Leveraging Technology for Better Future". The seminar was delivered by Dr. Farooq Ahmed of UCP. Cake cutting ceremony was also conducted and 7 different fun activities were arranged as a celebration of IEEE day. The people of UOL really appreciated the arrangements made by the team IEEE UOL for the celebration of IEEE day at UOL Defence road campus

UMT

ERASMUS MUNDUS

University of Management and Technology, Lahore Seminar Hall December 09, 2014- Aiming their arrows at higher goals towards education accessibility for students and individuals around the globe, the European Commission urges personnel to take hold of the keys to the treasure of vast knowledge and experience that their scholarship program, Erasmus Plus, has to offer. With a budget of over €15 million for undergraduate and graduate program, and of over €6 million for PHD and Research programs, the team encourages us to study abroad, acquire higher education, gain experience and provide a mix of cultures to the globe. "Exchange ideas", says Mr. Rauf that's why the program exists." Through Erasmus Plus, the EU aims to attract and bring forth talented students to attain degrees. An added bonus to the scholarship and the mobility provided by the program is the attainment of multiple degrees at the single span of time. This is possible through the exchange programs; that different universities across Europe have collaborated to create a program, so the student gets degrees from different universities at the completion of the course, relative to the respective universities. Through Jean Monnet program, they provide teaching and staff training to over 800,000 people worldwide. Not only did the team explain the program, but they also briefed on how to create a quality application. As Mr. Rizwan --, who is the --, said, "You have to market yourself by creating relevance of your skills with the degree program you are applying to." To be an 'interesting candidate' shows that you are passionate, talented, skilled and enthusiastic. In case that some may not consider themselves as capable of receiving the scholarship because of low GPA, the -- (Rizwan's post) puts them to ease by giving his example as a mediocre student who got the scholarship and his friends with higher GPAs who had also applied and got rejected. Through the exchange program and its various branches, EU ensures people to bring innovation from various universities and countries, and to break the stereotypes that exist about their cultures.

Erasmus+ is the EU's new program for education, training youth and sport for the period 2014-2020. It will offer a number of opportunities for higher education students, researchers, staff and institutions from across the world. All these opportunities are funded by the European Union. The topic under discussion was 'Inspiring the indigenous higher education through fostering exchange practices'. In short, to spread awareness towards the method to get foreign scholarships for higher education in abroad.

WIE SEMINAR

On 5th, December 2014 WIE chapter of IEEE UMT Student branch held a seminar on empowerment of women and its benefits. Event was organized by IEEE UMT Student branch at SEN-207. Hosted by Chair of WIE Chapter Tehreem Warsi. Key speakers of the event were Miss Sania Arshad.

This topic really needed to be discussed as women are being left behind in field of engineering, while in the rest they are head to head to men. There is a saying, "There is no tool for development more effective than the empowerment of women". Why is this so? The topic under discussion was exactly same and was majorly discussed by Miss Sania Arshad. The potential in this field for women and the benefits IEEE can provide, all were covered under the umbrella of this seminar by Miss Sania Arshad. Environment remained lively with the active participation of the audience through various question answers sessions. One of the most prestigious personalities took her precious time out to guide the women in engineering department of UMT Lahore which was surely an honor. Event initiating activity made the audience more active and more creative.

KONTESTO DE BRAIN CLASH II PROMOTION

KONTESTO DE BRAIN CLASH II promotion started in UMT Lahore 20 days prior to the event. Many students participated in the campaign with enthusiasm to show off their abilities and to have a passionate practical experience. As the university administration gave a bursting chance to IEEE UMT Student Chapter team for organizing a registration drive, taking all those broad steps which could have productive effects. IEEE UMT Student Chapter EXCOM committed themselves with heartiest desire for success and promotion started with great fervor. Students were taking great interest as it was an attractive occasion for them to come up and demonstrate their talent.

WARM WELCOME TO KBCII

DEC 13, UMT Board Room - The opening ceremony for the event, Kontesto' de Brain Clash II, a meeting held in UMT Board Room which consisted of the IEEE UMT Student Chapter team, the KBC II participants and the respective faculty which included, Dean SEN, Dr.Sajjad H. Shami, Sir Saleem Atta, and Sir Khan M. Nazir, Sir M. Asim Butt, Sir Jawad Ullah and Sir Muhammad Haris along with a few more teachers.

The team briefed the attendees about their current and future plans which was praised by the Dean SEN, UMT who further paid attention to ideas and gave us directions about how to be better at managing and organizing such events. Dean SEN said in the meeting "I and DrSajjad H. Shami formally open the event i.e. KBCII"

That was the instant when the team achieved the remuneration for its devoting work and thereby stuck to aim high for bringing up the name of University of Management and Technology, all over Pakistan and list its name on the top in holding such remarkable events.

IEEE Industrial Tour

Sonica Group of Industries

On 23 September, a team of forty students of Electrical Engineering Department, School of Engineering, proceeded to Gujranwala for industrial visit. The Gujranwala Tools, Dies and Moulds Centre' was the first organization visited.

Students were shown state of the art machinery for making dies and molds. Most impressive was the rapid prototype machine, which has the capacity of making exact duplicate of a sample in less than 30 minutes. The team then visited 'Indus Electrical Industry' and learnt the complete process of manufacturing of ceiling and pedestal fans. Finally the team went to 'Sonica

Group of Industries'. Injection molding facility was shown first, where plastic chairs, washing machine tubs and various other products were being manufactured. Another of their factory was engaged in manufacturing of electrical copper wires. Students got a very good idea about wire gauging and the enameling process. Their third factory was an assembly plant for motor bikes and rickshaw. The complete process of assembly and final testing was explained. The team was also entertained with a sumptuous lunch by the management of 'Sonica Group.

Orient Energy Systems

A group of about 40 students visited Orient Energy Systems on November 22, 2012 under supervision of Khan M Nazir, Assistant Prof, SST, and Asif Hussain, Assistant Prof, SST. Students learned about the construction and maintenance process of different types of power generators. Power generators of about 1 MW capacity were in maintenance process. The Technical Staff briefed the students along with visual demonstration of live maintenance process. Students saw engines, alternators and their various parts in the industrial setting. The tour continued for about three hours. It may be noted that Orient Energy Systems is one of the leading multinational engineering company distributing internationally recognized power generation and industrial solutions and services. A special note of thanks is in order for Khalid Jan, Technical Advisor, Orient Energy Systems, Lahore. The students termed the industrial visit as very beneficial and thanked their teachers; Khan M Nazir for arranging the tour and Asif Hussain for sparing his valuable time. Muhammad Baber, Mughis-ur-Rehman and Team IEEE also deserve commendation for their coordination.

LESCO Bhogawal Grid Station

An industrial visit was made to LESCO bhogiwai Grid Station. Grid Station also known as a substation a point in chain of electricity distribution where power is stored and directed onto the power lines and transformers before it reaches the consumer. IEEE UMT Student chapter has made an industrial tour in 2013.

Competitions

IEEE UMT Student Chapter has participated in numerous and won as well IEEE UMT Student chapter has participated and won in following events:

1. IEEE GEEK WEEK(First prize in Speed Wiring).
2. IEEE Jinnah Educational carnival(First prize speed wiring,second prize in Math geek).
3. IEEE INNOFiest(First prize in speed wiring, second math geek).
4. IEEE COMPEC(AMMAR ekhalq has first prize in electromechanical category he made a hexpod).

Superior University, Lahore

As the volunteers of IEEE at SUL, our mission is to organize such events which not only can add value to the memberships of our existing IEEE members but can also be helpful in increasing the members of our branch in particular, and awareness about technology in folks, in general.

Keeping this goal in mind, in our first year IEEE - SUL organized the following Events in the year 2014.

Seminar on “Android Application Development”

After the Recitation of Holy Quran and Praise of Holy Prophet (PBUH), Mr. Rana Muhammad Ajmal started an interesting session on “Android App Development”.

He talked about:

1. Mobile Computing
2. Smart Phone Application Development
3. Smart Phone Application Developers
4. Android, History and Popularity of Android
5. Android Features, Architecture, Development Environment
6. Final Year Projects in Android
7. References

The session was long but was interesting as well. He also developed an app in-front of the audience. The main purpose of the Seminar was to give a way to senior semester students decide their careers in the advancing field of Android Application Development. A large number of participants were from senior semester

Talk on “Cyber Crimes and Computer Forensics”

IEEE SUL organized another successful event regarding the latest issues in the field of computer science i.e. Cyber Crimes and Computer Forensics.

IEEE – SUL Chairperson “Mr. Muhammad Usama” came to give a brief introduction about Computer Forensics and Cyber Crimes and also introduced the guest speaker. After that he invited Mr. Rizwan Sabir to enlighten the audience with further details.

The session was of two parts:

- i- First part was of Cyber Crimes
- ii- Second was consisting of Computer Forensics

At the end of the session, the guest speaker was awarded with the “Guest of Honor” award by Deputy Registrar Superior University Lahore along with Program Manager, CS and IT Department Superior University Lahore.

Membership Drive

IEEE – SUL organized an IEEE Membership Campaign named Membership Drive on April 26, 2014. Students from the Departments of Electrical Engineering, Electrical Technology, Computer Science, Software Engineering and Information Technology got registered in our Student Branch. About 18 Students were registered on IEEE and in our Student Branch IEEE – SUL

Superior Quiz and Programming Competition

Opening words were given by Muhammad Azam Chaudhry, coordinator of Department of Computer Science & Information Technology. He attended the SQPC '14 as guest of Honor. He appreciated the efforts made by IEEE – SUL to provide a good learning opportunity to students. He put stress on need of such Competition held with the contribution of IEEE. Chief Guest of this event, Dean Faculty of Faculty of Engineering and Technology and Computer Science & Information & Technology, Dr. Tanvir not only appreciated this collaborative effort of IEEE to make this important event possible with collaboration of IEEE – SUL. He interacted with the students and organizers and asked them the goals that they achieved by attending this Event. This event was coordinated by Lecturer Dr. Muhammad Usman Hashmi (IEEE – SUL Counselor) and Syed Tanweer Shah Bukhari (IEEE – SUL Advisor). They provide an insight to guests about the purpose of this Competition. Dr. Muhammad Usman Hashmi elaborated the dean, Dr. Tanvir, about the aim of the event. He said that there was a need being felt, for students of CS & IT Department to get practical knowledge about latest tools and techniques. Dr. Tanvir emphasized on the continuing research collaboration in fields of Computer Science & Information Technology. Dr. Tanvir Distributed shields among the speakers.

Over 273 Students participated in this Mega Event and got certifications after the session.

UET Lahore

1. MEMBERSHIP AND CHAPTERS

No. of members in Jan 2014	45
No. of members in Dec 2014	69
Increase/Decrease during the year	+24
Chapters in the Branch (N.A. for WIE AG)	CS, ComSoc, PES, WIE
New Chapter formed in 2014 (N.A. for WIE AG)	CS
Branch/WIEAdministrative Meetings held in 2014	1

2. BRANCH/ WIE AG BRANCHELECTIONS

Date of Election	15 May
Number of voting members	30
Mode of Balloting (Manual or Electronic)	Manual

3. MEGA FUNCTION OF BRANCH /WIE AG BRANCH

Name of Mega Function	Brainiac
Dates on which held	17-18 Dec
Number of Events (Total)	9
Number of Technical Events	7
Number of Non-Technical Events	2
Number of Participants from your branch	200
Number of Participants from other branches	100
Number of speakers from Industry	8
Total money spent	100,000
Contributions by Sponsors	95,000
Contributions by Host Institution	0
Contribution by Participants (Registration)	5000
Contribution by IEEE Lahore Section	0

4. EVENTS ORGANIZED DURING THE YEAR

SR. NO.	NAME OF EVENT	DATE HELD	NO. OF PARTICIPANTS
1	Why Engineering?	Feb	300
2	Writex	Feb	60

3	PCB design Workshop	27 th Feb	70
4	PES talks	2 nd ,9 th 16 th ,23 rd April	60
5	Annual Dinner	June	50
6	GRE Classes	26 th Aug- 15 th Sep	30
7	Orientation Seminar '14	14 th - 15 th Oct	100
8	Scavenger Hunt	13 th Oct	320
9	IEEE DAY	16 th Oct	130
10	Number Game	22 nd Oct	150

5. PRIZES AND AWARDS WON BY BRANCH /WIE AG BRANCH

SR. NO.	NAME OF AWARD	DATE	AWARDING BODY
1	Best WIE Affinity Group	OCT 26	PSYWC
2	2 nd Position in video making competition	OCT 26	PSYWC

B. 5 Chapter Activities

B5.1 Computer Society Activities 2014

IEEE Computer Society has conducted and provided technical assistance and guidance for various activities throughout year 2014. In addition, IEEE Computer Society Lahore Section has coorganized a number of computers and IT related events together with Al Khawarizimi Institute of Computer Science and Government of Punjab. These events were co-sponsored by UET Techno-Fest, Punjab Youth Festival, ICOSST 2014 and OSSW 2014.

This year IEEE has technical co-sponsored the 8th International Conference on Open Source Systems and Technologies (ICOSST-2014) with Al Khawarizimi Institute of Computer Sciences UET Lahore. Furthermore, the Open Source Series Workshops (OWSS-2014) and Open Source Projects Exhibition (OSPE-2014) were also technically assisted and co-organized.

The IEEE computer society also organized a Technical Lecture Series (TLS), where a technical lecture on some technical lecture was delivered in universities with a student branch. Five such lectures were arranged.

B5.2 Communication Society Activities 2014

The IEEE Communications Society is a community comprised of a diverse group of industry professionals with a common interest in advancing all communications technologies. To that end, the Society sponsors publications, conferences, educational programs, local activities, and technical committee meetings.

B5.3 Power and Energy Society Activities 2014

Report # 1

Title: Seminar on "Energy Harvesting"

Description:

The event start with welcome note to our guests and the audience, after recitation of Holy Quran, the brief description about our honorable speaker "Mr. Yasir Mehmood" from Bedfordshire University was given by the host. The presentation started and minds of the students were drive through new dimensions, nanotechnology research work and practically implementation; how to make it more efficient were under the discussion. A questionnaire was given to the students related to the seminar subject. In the end session, students was motivated to challenge their self-esteem by taking a leading role in driving out the energy crisis through research in different energy harvesting methods, which is the need of tomorrow.

Speaker: Mr. Yasir Mehmood

Venue: Bhawalpur, Punjab, Pakistan

Strength: 52

Target Audience: Students



"Believe you can, and you are half way there" (Theodore Roosevelt)

Report # 2

Title: IEEE DAY OF THE WEEK Celebrations

Description:

The event start with the welcoming speech of chair PES chapter, all the members of student branch, WIE and chapters were gather to share their ideas and there experience of the week. The different creative videos based on engineering designs and smart technology accepting society was the main essence. After that there was a general knowledge quiz in which all participated and got some new and informative knowledge. At the last some time was devoted for the upcoming strategy of the branch. Counselor appreciated the PES members for organizing this day and ended the ceremony with a note.

Speaker: Mr. Usman Munawar

Venue: Bhawalpur, Punjab, Pakistan

Strength: 22

Target Audience: Students



"Believe you can, and you are half way there" (Theodore Roosevelt)

Report # 3

Title: Inauguration of IEEE PES CIIT Lahore Student Chapter

Description:

The Power & Energy Society (PES) provides the world's largest forum for sharing the latest in technological developments in the electric power industry, for developing standards that guide the development and construction of equipment and systems, and for educating members of the industry and the general public. Members of the Power & Energy Society are leaders in this field, and they — and their employers — derive substantial benefits from involvement with this unique and outstanding association. The Mission of PES is to be the leading provider of scientific and engineering information on electric power and energy for the betterment of society, and the preferred professional development source for the members ~ Approved by the IEEE PES Governing.

Speaker 1: Dr. Sobia Baig

Speaker 2: Usman Munawar

Venue: Lahore, Punjab, Pakistan

Strength: 50

Target Audience: Students



"Believe you can, and you are half way there" (Theodore Roosevelt)

Report # 4

Title: PCB Design Workshop

Description:

Some of the important topics covered were:

- Introduction to PCB technology
- Techniques of layout design
- General design factor for digital and analog circuits
- Specification design standard
- PCB fabrication techniques (single sided, double sided and multilayer)
- Etching, post operations (stripping, black oxide coating and solder masking)
- PCB component assembly processes mixing
- Mixing analog (audio) and digital signals on the same PCB

Speaker: Dr. Tahir Izhar

Venue: Lahore

Strength: 43

Target Audience: Students



"Believe you can, and you are half way there" (Theodore Roosevelt)

Report # 5

Title: PES Talks

Description:

First session commenced on 2nd April. Around 50 students attended it. Rohma Khalid hosted this session. Keynote speaker was Ali Hassan Mirza who initially gave a very valuable talk regarding issues related to FYP and later gave presentation on his project '3-Phase solar UPS'. From there onwards, Qasim Sarfraz took over and presented "FYP Booklet" which was written by Hammad

Jamshed, Chair Scholastic Committee. This book got attention of many students who undoubtedly benefited from it a lot. Session ended successfully at 12:30 with students giving positive feedback.

Speaker: Mr. Ali Hassan Mirza

Venue: Lahore, Punjab, Pakistan

Strength: 39

Target Audience: Students



"Believe you can, and you are half way there" (Theodore Roosevelt)

Report # 6

Title: PES Talks-3 phase power quality analyzer with USB data logging

Description:

'PES Talks' was a series of talks initiated with a purpose to help students get familiar with Final Year Projects and to tackle their problems related to selection of project, advisor and other issues. It was an interactive talk given by final year students, sharing their projects and discussing different issues related to project selection and implementation. Around 40 students attended this session. First speaker was Habib Wajid who gave presentation on his FYP which was "3 phase power quality analyzer with USB data logging". He not only shared every aspect of his project nicely but also gave good answers to students' questions and queries. Later on, Qasim Sarfraz embraced the stage and shared his project "Implementation of threads in xv6". Although students found it hard to understand yet Qasim's interactive way of delivering made things understandable. Session ended at 12:30 with students eager to attend further sessions.

Speaker 1: Mr. Haseeb Wajid

Speaker 2: Mr. Qasim Sarfraz

Venue: Lahore, Punjab, Pakistan

Strength: 31

Target Audience: Student



"Believe you can, and you are half way there" (Theodore Roosevelt)

Report # 7

Title: Conference on SCADA System and PLC

Description:

'PES Talks' was a series of talks initiated with a purpose to help students get familiar with Final Year Projects and to tackle their problems related to selection of project, advisor and other issues. It was an interactive talk given by final year students, sharing their projects and discussing different issues related to project selection and implementation. IEEE PES in collaboration with IEEE NFC Student Branch Faisalabad arranged the conference on SCADA System and PLC Control System. Many professionals, engineers, students, IEEE Members join this conference and included new IEEE Core of IEEE NFC Student Branch step forward in this conference

Speaker: Mr. Tahir Raza

Venue: Faisalabad, Punjab, Pakistan

Strength: 850

Target Audience: Students



"Believe you can, and you are half way there" (Theodore Roosevelt)

Report # 8

Title: PES Talks-Urdu text to speech system using unit selection Method

Description:

'PES Talks' was a series of talks initiated with a purpose to help students get familiar with Final Year Projects and to tackle their problems related to selection of project, advisor and other issues. It was an interactive talk given by final year students, sharing their projects and discussing different issues related to project selection and implementation. Number of students attended the session. Javeria hosted the session very nicely. Firstly, Sumayya Farooq presented her project which was "Urdu text to speech system using unit selection Method". After her presentation, she was faced with lots of questions by audience and she answered them delightfully. Second speaker was Muhammad Faisal Saeed whose project got attention of many students which was "Fire Fighting Robot". He not only gave presentation on his project but also showed prototype made by his group. He ended up at 12:25 with which third session got concluded.

Speaker 1: Ms. Sumayya Farooq

Speaker 2: Mr. Muhammad Faisal Saeed

Venue: Lahore, Punjab, Pakistan

Strength: 40

Target Audience: Students



"Believe you can, and you are half way there" (Theodore Roosevelt)

Report # 9

Title: PES Talks-Power Line Communication

Description:

‘PES Talks’ was a series of talks initiated with a purpose to help students get familiar with Final Year Projects and to tackle their problems related to selection of project, advisor and other issues. It was an interactive talk given by final year students, sharing their projects and discussing different issues related to project selection and implementation. On 23rd April, fourth and the last session of PES talk was conducted. Keynote speakers were Abdurrahman Ansari who gave his presentation on

“Power Line Communication” and M. Zaeem who gave his presentation on “Design and Implementation of GUI on Arduino”. Session ended on 12:30 pm. At the end students gave very positive feedbacks regarding these sessions. To conclude, PES talk was another very successful event conducted by Power Energy Society UET Lahore.

Speaker1: Mr. Abdurrahman Ansari

Speaker 2: Mr. Muhammad Zaeem

Venue: Lahore, Punjab, Pakistan

Strength: 33

Target Audience: Students



"Believe you can, and you are half way there" (Theodore Roosevelt)

Report # 10

Title: How to study abroad with the platform of “Hec study abroad scholarship “and “Erasmus

Description:

It is generally considered that the multi-hop relay networks can overcome the path-loss and hence has the ability to achieve higher energy efficiency. However, this conjecture is not completely true when the circuit power consumption and/or delay constraints are considered. In this talk, certain scenarios will be presented under which multi-hop relay networks are more energy efficient in comparison with the single-hop networks. Other than these scenarios, it will be better to employ single-hop networks in order to achieve the higher energy efficiency. Moreover, it will be shown that the joint optimization of the number of relays and the constellation size (when the error probability is the desired performance metric) results in more energy savings. As an example, up to 55% energy savings are possible when the optimized relay networks will be deployed. Harvesting energy from the ambient RF signals can increase the battery-life of relay networks (e.g., in sensor networks). Therefore, the battery-free relay networks may be possible to deploy in future (e.g., for 5G systems) if the efficiency of wireless harvesting technique will be increased. In the last part of the talk, state-of-the art methods will be described which can be used potentially for wireless energy harvesting. The work which is being carried out by the researchers all over the world related to this field will be discussed. The talk will be ended with some conclusions and follow-up discussion about the future work. Speaker: Dr. OMER WAQAR, (Assistant Professor, Electrical Engineering Department, UET and KICS, Lahore.) Dr. Omer Waqar: Omer Waqar received the B.Sc. degree in Electrical Engineering from the University of Engineering and Technology (UET), Lahore, Pakistan, in 2007 and the Ph.D. degree in Electrical and Electronic Engineering from the University of Leeds, Leeds, U.K., in November 2011. From January 2012 to July 2013, he was a Research Fellow with the Center for Communications Systems Research (CCSR) and 5G Innovation Center (5GIC), University of Surrey, Guildford, U.K. He is currently an Assistant Professor with the Department of Electrical Engineering and Al-Khwarizmi Institute of Computer Science (KICS), UET, Lahore. His current research interests include energy-efficient design of fifth-generation (5G) wireless access networks, performance analysis of multihop relay networks, and cooperative communication systems, particularly base-station cooperation or coordinated multipoint communications. He has published various IEEE research papers including IEEE transactions and is a member of IEEE.

Speaker: Dr. Omer Waqar

Venue: Lahore, Punjab, Pakistan

Strength: 36

Target Audience: Students



"Believe you can, and you are half way there" (Theodore Roosevelt)

Report # 11

Title: IEEE Day of the Week

Description:

The basic concept of organizing this “IEEE Day of the Week” was to motivate the engineering students towards new innovations in the power generation field. To elaborate their ideas, activate the interested students to initiate towards power generation projects.

Speaker: Mr. Anees-ul-Hassan

Venue: Lahore, Punjab, Pakistan

Strength: 44

Target Audience: Students

Report # 12

Title: IEEE Day Report

Description:

Engineers administer the interface of science and technology. To recognize the great works of the IEEE Members engineers who took an initiative to group up for the exchange of technical ideas in 1884, engineers worldwide celebrate the anniversary on 7th October every year as IEEE Day. IEEE 2014 celebrated for the 5th time with the theme of Leve arguing Technology for a better future. This year also, LCWU, acknowledged the work of these great engineers by jubilantly celebrating IEEE Day.

Speaker: Dr. Amjad Hussain

Venue: Lahore, Punjab, Pakistan

Strength: 38

Target Audience: Students



"Believe you can, and you are half way there" (Theodore Roosevelt)

Report # 13

Title: "Power Electronics with renewable integrations"

Description:

National Workshop on "Power Electronics with renewable integrations"- being hosted by International Islamic University from 20th -21st. December 2014. This workshop is being conducted under the supervision of IEEE IIUI Student Branch with the collaborations of Higher Education Commission Pakistan, Pakistan Engineering Council & IEEE Islamabad Section.

Speaker 1: Prof. Nauman Ahmed Zafar

Speaker 2: Dr. Raza Kazmi

Venue: Lahore, Punjab, Pakistan

Strength: 150

Target Audience: Students

Report # 14

Title: Online Seminars (Promotion of IEEE Technical Chapter of Societies)

Description:

Mr. Frank Lambert, Vice President PES, Dr. Stefano Bregni Vice President ComSoc Society, Ms. Asma Sajid, Dr. Amjad Hussain Mr. Usman Munawar and Mr. Bilal Javed gave brief introduction of IEEE Technical Societies. Now a days, Mind with vision and having knowledge of implementing the technical is need of every nation. These will act as building block of nation. For that researching sustainability is with up gradation of knowledge of respective field. This event ended with very healthy activity to design "Road map of Societies" which raised the determination and confidence of youngsters to work for humanity through technology. Activity was designed and executed by Ms. Faiza Nasir and Mr. Usman Munawar. This activity holds in a form of groups. Students from all over Pakistan interacted with each other and ponder upon the road map of Societies in Pakistan.

Speaker 1: Mr. Frank Lambert

Speaker 2: Mr. Usman Munawar

Venue: Lahore, Punjab, Pakistan

Strength: 263

Target Audience: Students



"Believe you can, and you are half way there" (Theodore Roosevelt)

Report # 15

Title: Inaugural Session of Research Seminar Series

Description:

Dr. Waqar Mahmood Director, Al Khwarizmi Institute of Computer Science, University of engineering and technology Lahore and Chair, IEEE Computer society Professional Chapter, gave talk on “The Future Computing Technologies’ Roadmap and Our (Pakistan’s) Strengths”. His contributions in IEEE computer society are really remarkable. He gave the complete vision of computer science and shared IEEE CS report 2022. His talk realized the students and professionals about opportunities in research and development in Computer science field. Students took great interest and asked questions to Dr. Waqar Mahmood about all aspects related to Computer Science. He shared his area of interest with students and urged them to start work on research. He got ready to mentor under Platform of IEEE Research and development program. The session offered valuable insights about the IEEE publishing process. It was! a combined effort of IEEE Research Development Project (RDP) Lahore Section and the leading academic institutions, including FAST NU. The goal of this series was to enable students, faculty, researchers, authors and industry professionals to help advance technology and their careers by enhancing their ability to get published and share their research with the scholarly community.

Speaker: Dr. Waqar Mahmood

Venue: Lahore, Punjab, Pakistan

Strength: 60

Target Audience: Students



"Believe you can, and you are half way there" (Theodore Roosevelt)

Report # 16

Title: Technical Talk – Smart Grid and Smart Cities

Description:

IEEE Power energy Society, Lahore Section played its key role by giving great chance to students and professionals to update their technical knowledge that was addressed by Dr. Nauman Zafar , Director Power Cluster LUMS. He focused on implementations of Smart Grid and Smart cities concept at international standards. His quality contributions urged students to take interest in Smart grid and smart cities technologies. Mr. Usman Munawar, Chair IEEE PES Lahore Section and Dr. Amjad Hussain Chair IEEE Lahore Section gave brief note related to IEEE PES and its contributions to humanity through technology. At end, Dr. Amjad Hussain and Mr. Usman Munawar Presented award of Honor to Dr. Nauman Zafar for transfer of knowledge to young engineers and scientists.

Speaker 1: Prof. Noman Ahmed Zafar

Speaker 2: Mr. Usman Munawar

Venue: Lahore, Punjab, Pakistan

Strength: 60

Target Audience: Students

"Believe you can, and you are half way there" (Theodore Roosevelt)

Report # 16

Title: IEEE Technovate 2014

Description:

The ultimate aim of this event is to reduce the gap between the students of Pakistan and IEEE. Students will be encouraged to attend and take part in all the activities to benefit from IEEE. Through this national event, we can not only benefit our students but also project our work and achievements to a broader audience. This is very important for Pakistan; perhaps more than other countries because of the condition from which the nation is suffering from past 10 years, this collaboration is envisioned to act as a channel of positivity and prosperity in the educational sector of Pakistan. The projects which encompass creativity, innovation and design will be participating in EED 2014 and after a thorough process of analysis, judgments and performance the verdict shall be given and the participants proficient enough to win on this international level shall be deemed to bring honor to not only their institutes, but also Pakistan.

Speaker: Dr. Amjad Hussain

Venue: Lahore, Punjab, Pakistan

Strength: 200

Target Audience: Students

B. 6 Affinity Group Activities

B6.1 YP(GOLD) Activities 2014

IEEE GOLD Lahore Section affinity group conducted many activities in 2014.

The main activity was the IEEE Pakistan Student/YP/WIE Congress 2014 held in October 2014 in Lahore.

Another mega event of the YP Lahore was the IEEE Technovate held in summer 2014 in Lahore.

B.6.2 WIE Lahore Activities 2014

INTERNATIONAL JINNAH SOCIAL AND EDUCATIONAL CARNIVAL:

Dates: 2nd, 3rd May, 2014

IEEE Mohammad Ali Jinnah University Student Branch organized an International Jinnah Social and Educational carnival (IJSEC 2014) on 2nd and 3rd of May. This carnival comprised of 14 events which are speed wiring, speed programming, code the logic, robotics, sketching, photography, scavenger hunt, E gaming, COD, CS 1.6, Chess, Brain teaser, Project exhibition, an hour with WIE. Almost 300 participants from approx 20 universities from all over Pakistan participated in this mega event.

The session an hour with WIE was arranged on 3rd of May by IEEE WIE Lahore Section to spread the awareness of WIE and to encourage the participants to become an important part of it. Around 50 participants were the attendees at the session. Miss Mehvish Zahoor vice chairperson and Miss Fareha Rashid joint secretary of IEEE WIE Lahore section were the representatives at IJSEC 2014.

Miss Maryam Saeed Board Member of Pakistan WIE forum was the first speaker of the session. She initiated the session by delivering the basics of IEEE WIE. She told them the tactics how they can be an active member and an active student branch. She made them more involved in the session by telling them her successful experiences and advised them to make strong relations with other universities through networking and by arranging educational and technical events

This session was further continued by Miss Mehvish Zahoor in which she gave information about the benefits of IEEE WIE. She shared the awards that Pakistani girls have got from WIE, moreover she encouraged the participants and motivated them to be the best WIE member and worth themselves.

SEMINAR ON CAREER COUNSELLING:

Date: 15th May, 2014

A seminar on career counseling was held on Thursday, 15 May, 2014 at Seminar Room, A - Block, CIIT Lahore in collaboration with WIE Lahore. This seminar was hosted by Ms. Rameesha Fatima. Here I attached the poster of the event,

Seminar started with the recitation of Holy Quran by Ch.Ahrar Ahmed. The main agenda of this seminar was to help the students to understand their selves and the world of work in order to make career, educational, and life decisions.

Mr. Saad Zafar who was the guest speaker by WIE Lahore section shared his views about the importance of "Career Counseling". He also addresses students how to achieve high goals in life. He tells importance of CV to audience that how it affects someone career and also tell how to write an effective CV now a days to impress the boss.

Chairperson WIE Lahore Ms. Sania Arshad also attended the seminar. She appreciates the hard work of WIE-CIIT members.

In the end Sir Haad Akmal Lecturer at CIIT Lahore presented the souvenir to Mr.Saad Zafar. We are really thankful to both guests to come at CIIT Lahore and addresses the students.

2D GAME DEVELOPMENT USING UNITY 3D GAME ENGINE

Date: 21st September, 2014

VENUE: Room E3, Electrical Engineering Department, University of Engineering and Technology.

Writing a piece of code or a computer program is not that much of a tedious task, but shaping up those code lines into a fully functional application requires varying skills and efficient programming. To help students in general and women in particular, in acquiring those set of skills, IEEE WIE Lahore Section in collaboration with Microsoft Corporation arranged a full day project based training on "2D Game Development using Unity 3D Game Engine", at UET Lahore on 21st September 2014. The workshop was centered on the following topics:

- Unity Scripting (C# and JavaScript)
- Full Game Design
- Animations
- Graphical User Interface (GUI)
- Game Management
- Utilizing external assets
- Layers, Tags, Cameras, Prefabs
- Game Testing
- Uploading on app store

The instructor, Hafiz Faraz Mukhtar who is not only a Unity Game developer and designer also runs several famous blogs and sites. He was also accompanied by a Microsoft GCUF team to assist the attendees in case of any problems. Over 120 students from different institutes in Faisalabad, Lahore, Multan and other cities participated. The participants were provided with Unity 3D engine and Adobe Photoshop CS6, days before the commencement of workshop so that they could come with soft wares already installed. The instructor started off by dividing the whole workshop into two portions, namely 'Designing' and 'Coding' and throughout the whole session a single game theme was kept.

In the first session, he started off with a basic introduction to Adobe Photoshop and Unity, familiarizing participants with different panels and tools of Unity. After an in-depth discussion and ensuring thorough understanding of software he moved on to designing the characters for the game using Adobe Photoshop Software. The organizing team provided example characters to students as a sample to ensure no student was left behind.

The second session of rigorous coding started with a short lunch break. Covering all the coding details, the instructor then started "Unity Scripting" and the characters started coming alive. After covering every detail pertaining to game development he finally launched the game in the form of android application and tested it and then converted the game into windows phone format and uploaded it on Windows App Store after verification.

The full day workshop finally ended with a question answer session regarding the scope of game development. Feedback forms were also taken in the end which showed a positive response and majority of the students requested for a 3D Gaming workshop as well. In the end, Rs 15,000 along with certificates were provided to the skillful instructor and his team and participation certificates were distributed among the participants.

LEADERSHIP SKILL SESSION

Date: 14th Oct' 2014

“What’s the difference between a Leader and a boss?”

The answer to this question can actually help you in becoming a successful professional.

WIE Lahore Section arranged a session on leadership skill by Mr. Sohaib Qamar Sheikh-Region 8 on 14th Oct'14 at Fast, Lahore. The basic vision was to train our future leaders.

Our guest speaker Mr. Sohaib Qamar Sheikh engaged the audience by asking different questions regarding leadership, shared his experience and quoted examples of being a good leader. IEEE Lahore Section Executive Committee Members also attended the session.

The session focused on the importance of a true leader, and the ways we can enhance our leadership skills. At the end of the session our guest speaker was presented with a souvenir by Dr. Amjad Hussain-Chairperson IEEE WIE Lahore Section.

Mr. Sohaib Qamar Sheikh also had a meeting the executive members of IEEE Lahore Section and discussed their future strategies and plans.

IEEE WOMEN IN ENGINEERING CONGRESS

Date: 24th Oct-26th, 2014

IEEE WIE (Women in Engineering) Congress was the largest event for the students and young professionals in the three IEEE sections of Pakistan (Lahore, Islamabad & Karachi). This was the **8th** edition of the Student Congress organized by IEEE WIE Lahore Section at **Fast-NUCES Lahore**, on **24th October- 26th October** in collaboration with IEEE WIE Lahore affinity groups. The congress provided students of every branch with the opportunity to interact with the students from all over Pakistan and instill a sense of teamwork in them. This time the congress's theme was **"Connecting the Future Leadership"**. Thus, following the theme, students and WIE members were given a platform where they could share and explore ideas, develop skills and discuss issues related to their profession and students side by side were given a chance to socialize, discuss ideas with them and learn from the experiences of those professionals. The congress included events of different categories- creative, recreational, as well as events focusing on professionalism and learning. All the events were planned so as to go with the theme of the Congress. Details of the events are provided as follows, along with their connection to the theme:

WIE Congress 2014- Day 1 (Friday)

Cordial Discourse by Chairperson IEEE WIE Lahore Section

The Congress opened with the WIE Lahore chair, Sania Arshad's welcome address. She briefly described the theme of the Congress and gave an overview of what events were included in the 3 day course.

Celebration of 20TH WIE Anniversary

To celebrate the 20th WIE Anniversary a cake cutting ceremony was arranged for the WIE members. At the end of the ceremony, WIE members filled their 20th year magnificent cards in which they mentioned their names, positions and regions.

Gala Dinner

After a full hectic day of mingling and socializing, guests were provided with a delicious dinner.

Session by Maryam Bin Thani

Maryam Bin Thani engaged the participants in a small activity. In the activity she divided participants into different groups and named them with each group having four members. She then assigned one task to each group. The task consisted of one question related to WIE in which all the students participated enthusiastically. Overall, it was a good way to judge the capabilities of the WIE members.

Career Counseling

The question: "What will you be when you grow up" is asked of all youngsters. Many will answer; "A doctor/engineer/businessman etc." Why? "Because my father/uncle is one".

Career choice is a very important issue, and most students and their parents are inadequately equipped to cope with this. Choosing/changing a career is not something one does on a whim,

"For many people a job is more than an income - it's an important part of who we are. So a career transition of any sort is one of the most unsettling experiences you can face in your life." - Paul Clitheroe

Such an issue is of immense importance in a Student's life which can be dealt with expert advice and comprehensive knowledge including pros and cons of all the areas relevant to a student's chosen field. Apart from personal aspirations there are many other factors that decide what line one should take up and here the experienced ones jump in to play their role by showing the industry life through their eyes. Interaction with such people helps eradicate any misconception a student might be having regarding work life in a particular area. This Panel discussion, which would include speakers from vast areas namely HR, Research and Industry, would help students, who are at the verge of deciding their career, understand corporate world and make 'informed' career decisions.

It was one of the main events in IEEE WIE Congress 2014 **"Career Counseling"** Panels comprises of qualified professionals and researchers. This informative session took place in FAST NUCES auditorium at 1330 hours and continued till 1500 hours.

The panel comprised of following respected and knowledgeable speakers:

1. **Maryam Bin Thani** – Former IEEE WIE executive member and working in HR department at a Multinational petroleum company in Dubai
2. **Mustafa Naseem** - Faculty - Computer Science ITU Lahore. I obtained his Masters degree in Information and Communication Technology for Development from University of Colorado at Boulder, USA
3. **Jowaria Sohail** – Radio Network Performance Warid Telecom. She has a 4 years’ experience in industry and is currently pursuing Master’s degree from UET Lahore.

The session started with a general introduction of all the speakers and their background. The speakers brought with them a vast knowledge of Research and development, academia, Human resource management and technical industry. The panel had a lot to share about their experiences, their challenges and career paths.

Maryam Bin Thani emphasized on female ratio in industry and the important roles they can have in national and multinational companies. Most of the operators in Pakistan have female employees in managerial roles. She re iterated the fact that:

“Gender has nothing to do with brains, talent and work type. What matters most is the will power”

On the other side, Mr. Mustafa Naseem shared his experience in pursuing his Masters’ degree from USA and how students can apply for different scholarships. He trained the students for Tech Entrepreneurship and Global Development in order to achieve their objectives and to use technology to serve the humanity. He encouraged young entrepreneurs with his optimistic vision regarding information technology and computer sciences.

Miss Jowaria Sohail shared her experience regarding the challenges faced in a team and how one’s motivation and determination can lead one to achieve ones goal when one is the only resource in the team.

“Companies don’t hire geeks; they hire people with versatile personalities who add value to their companies”

She supported the fact that a person can go through tough conditions with persistence and smart work.

“It’s no longer hard work; it’s smart work”

Dinner at Food Street

A dinner was arranged for the WIE members at food street, Lahore.

WIE Track Session

Among many other events organized by WIE in the congress, WIE session was a formal session attended by all WIE members as well as female guests. During the session there were members from different student branches across Pakistan who shared their experiences, helped plan strategies for effectively running a society and discussed ideas for improvement and then there were women who provided general guidance to younger women to help them establish themselves in tough environments and to compete in the events ahead.

As women today are accelerating towards success in the field of engineering and empowering others alongside, this session aimed at taking this effort to the next level.

The WIE session had the following activities:

- Girls in Coding by Hiba Latiffee
- Activity By Maryam Saeed
- Celebration of 20TH WIE Anniversary

Girls in Coding by Hiba Latiffee

A 30-minute interactive session titled as “Women in Coding”, a part of IEEE PWF WIE Track 2014, was conducted by Ms. Hiba Ovais Latiffee, IEEE Pakistan WIE Forum (PWF) STAR Coordinator and a Computer and Information Systems engineer-to-be from NED University Karachi, at this year’s Pakistan Student Young Professionals/WIE Congress held at the picturesque campus of Fast University Lahore from 25th-26thOctober 2014.

It started off with Ms. Latiffee assessing the number of coders in the audience, all of whom comprised of female WIE volunteers hailing from every nook of Pakistan. She then moved on to a fun-filled coding trivia which took the audience by surprise. “Who was the first computer programmer in the world?” or “What was the name of the first language developed for programming” were some of the many questions posed by the young presenter. Every correct answer awaited a lucrative, purple WIE merchandise.

Ms. Hiba then started off the talk with, why women in Pakistan should code and how financial independence would be at their feet. She talked about how today’s women are inclined towards initiating start-ups for providing jobs to other people who can’t afford higher education like us in STEM (Science, Technology, Engineering, Mathematics). She emphasized on channelizing one’s creativity and imagination into positive ventures and for the prosperity of humanity. “And what better way to do that than through programming. You can move mountains and touch so many lives. Think about what that PDA has done for you – it is time you do the same for someone else too.”

Once the audience was oozing with zeal and excitement pertaining to computer programming, Ms. Hiba Latifee then affirmed a contest worth the latest edition of IEEE WIE magazine: To draft an algorithm (aka algo) to find out all the possible roots of a quadratic equation. "Eyes on the prize!" exclaimed one female contender. After evaluating all the entries, the two most accurate algos were announced as the winners.

WIE Event Brainstorm Activity

At **IEEE WIE Congress 2014**, Maryam Saeed represented IEEE WIE Islamabad Section and held a session titled as "**WIE Event Brainstorm Activity**". The purpose of the session was to introduce WIE Student Branch members to each other to help develop team work skills and to infuse in them the urge to help out humanity by engineering solutions to the problems. Participants from all the main sections namely, IEEE Lahore Section, IEEE Karachi Section and IEEE Islamabad Section were randomly grouped into teams of 5-6 members. Each team had to brainstorm a WIE activity with the following rules:

- The activity needed to be technical / humanitarian
- Should promote / inspire women in engineering
- New WIE members should get attracted towards it.
- The activity should retain old members
- The whole event should be self-funded and should raise funds for their student branch
- And lastly the activity should have an inviting name

A total of five teams participated in the event and it was decided that the winning team idea would be implemented at Section levels throughout Pakistan. The judges' panel consisted of 4 IEEE Young Professionals and IEEE Professional Members who chose the best idea from the five teams.

The idea chosen was "**Engineer's Social Planet**". In the activity proposed, two adults (one IEEE member and one non-IEEE member) would be teamed with three school children. Each team would be provided with backyard junk and the team would have to create something useful using the junk. Thus in the process, giving young minds a technical and creative way of recycling and utilizing resources in an effective way. Those three kids would then present the team's Engineering Model. The winners would receive a free membership (renewal for IEEE member and new membership for non-IEEE member) and some incentive for the participating children. With a very reasonable cost of Rs. 200 per participating member, this project seemed very realizable and effective. Therefore, it won the best Idea award. The WIE Brainstorm Activity went very well and the feedback showed that the participants had learnt a lot to take back to their student branches.

The photos of the session can be found here:

<https://www.facebook.com/media/set/?set=a.585453194917012.1073741838.141615469300789&type=1&l=26530f7aa7>

Video Competition

To acknowledge the active participation of volunteers in general and affinity groups in particular a Video competition was held in which affinity groups presented their year long efforts of engaging WIE volunteers in the form of a video. A total of 6 Affinity Groups Participated including UET Lahore, SEECS, FAST-NUCES Islamabad, MAJU, UMT Lahore and NED UET Karachi. The videos were judged on the basis of the following rules:

{<http://ieeee-psywc.org/wie-video-competition/>}

1st Prize went to SEECS where Mehak Saeed, Acting Chair WIE SEECS, received the award.

Awards

IEEE WIE Lahore Section continuing its tradition of acknowledging the services of the Women In Engineering members of Pakistan gave out awards in the following categories.

- Outstanding WIE Affinity Group Pakistan
- Outstanding WIE Affinity Group Chair Pakistan
- Outstanding WIE Volunteer Pakistan

The Judges panel consisted of the following members:

- Nita Patel, Chairperson WIE (global)
- Ramalatha Marimuthu, Past Chair WIE (global)
- Rabia khalid, Past Chair, IEEE Pakistan WIE Forum
- Supavadee Aramvith, IEEE Region 10 EXCOM on Educational Activities Coordinator

- Zuhaina Zakaria, Vice Chair, IEEE Malaysia Section

A total of six nominations for Outstanding WIE Volunteer Pakistan, three nominations for Outstanding WIE Affinity Group Pakistan and three nominations for Outstanding WIE Affinity Group Chairperson Pakistan were received and after evaluation, following results were compiled:

- WIE UET Lahore won the Outstanding WIE Affinity Group Pakistan
- Hiba Latifee, NED UET Karachi as the Outstanding WIE Affinity Group Chair Pakistan
- Hira Mughal from GCUF as the Outstanding WIE Volunteer Pakistan

The aim behind these awards was to promote the participation of women in engineering and to recognize those who are putting up a valiant effort to do so. By introducing these annual awards, we believe to have provided a platform to the WIE members of Pakistan to spur their activities even more.

SOCIAL INTERACTION PROGRAM

Dates: 25th Oct-12th Dec (5 visits)

“You have not lived today until you have done something for someone who can never repay you.”

While we focus a lot on self-improvement, an important part of living a happy life includes being part of a close-knit community, helping and supporting others especially those who have been neglected and thus making them feel special.

The *Social Interaction Program (SIP)* intends to develop sense of giving charity and helping the needy and deserving ones. In this event, different under privileged schools, schools of mentally retarded children and orphanages were to be visited. Volunteers of AGs were given an option to select any social welfare organization, and plan an activity for the people of that organization. Thus the project was aimed at helping the volunteers see harsh realities of life and providing them an opportunity to think about the welfare of socially neglected ones. Under this SIP Project four visits were made.

1st visit was conducted on 25 October, 2014 at Abro Foundation Lahore on the 2nd day of PSYWC.

WIE Lahore Section Team along with 30 other WIE volunteers from Karachi, Islamabad and Lahore Section and our revered guest Ms. *Maryam Althani*, visited a charitable school on the 2nd day of PSYWC.

This school situating in Bagrian, Lahore is run by an NGO *Abroo Foundation*. The Bagrian campus has classes from Kindergarten to class 10th, with the total strength of 350. We divided our team into groups and sent a group in every class, where they carried out different brainstorming and fun activities. An *Origami* activity was conducted in the junior classes, which was fun and at the same time helped the students to be creative do something different. A brief career counseling session was conducted in the higher classes, since the students were very inquisitive about the possible professions they could adopt after completing higher studies. All the students were given gifts by WIE team, like calculators, dictionaries, coloring books and pencils and geometry boxes etc, as a token of encouragement. WIE members spent a quality time with the kids, played games with them, encouraged them to work hard, study well and be a good human serving humanity in every possible.

Picture Link

["https://www.facebook.com/asma.sajid1/media_set?set=a.10152515703617449.1073741839.522322448&type=3"](https://www.facebook.com/asma.sajid1/media_set?set=a.10152515703617449.1073741839.522322448&type=3)

2nd visit was conducted on 18th November, 2014 to ‘Science School’ in collaboration with IEEE WIE MAJU, Islamabad.

Our team visited "Science Model School." The main session was conducted by Ms.Marvi Islam. For the icebreaking ceremony we asked the students about their aims in life? at first we discussed about the "Gender disparity" in our country and how can we end it by education and followed by how can technology be helpful in paving the way to success. Afterwards we talked about IEEE and WIE forum.

The session lasted for almost an hour after which healthy question and answers took place and we were successful in convincing a bunch of students to go for engineering in future. As a source of motivation we took a robot along with us to show the students what is basically done in engineering and also showed them a video about the functioning of the robot.

3rd visit was conducted on 25 November, 2014 to ‘Tahira Educational Grammar School’ in collaboration with IEEE WIE UET, Lahore.

After two successful days of bake sale, the first visit was made with the collaboration of **CYTE Foundation**, a non- profit organization working towards the betterment of education in Pakistan. The CYTE Foundation played its part in the event by providing a pick and drop service for the first visit. The event commenced with the recitation of Holy Quran, and ‘Naat’ by the students of the school. There were about 100+ students of grade 1 to 5 who were given precise lectures on moral values, which was then followed by an oral general knowledge quiz. Students actively participated on the basis of which, sweets and gifts were distributed among them.

To give those young minds the idea of team work, collaboration and a touch of innovation, a healthy competition named, '**Color the idea**', was arranged. Colorful charts, pens and glitters were provided to them. Meanwhile, those who were reluctant to participate were engaged in other activities like ‘Hangman’ games. To appreciate those students and encourage them to engage more, prizes were given to them on the basis of the games. The fun filled day with those students ended with a scientific episode of ‘**Doraemon Cartoon**’ after which refreshments were provided to them. Before leaving, the kids of K.G. and Prep were also addressed and given gifts.

4th visit was conducted on 11 December, 2014 ‘Amin Maktab’ in collaboration with IEEE WIE UET, Lahore.

The second visit was to “**Amin Maktab**”, a school of mentally retarded children. Starting the day the same way, with ‘Naat’, recitation of Holy Quran and then watching Cartoons, many activities were held with those children including “**Musical chair**” in which they happily participated and gifts including glitters, color pencils and chocolates were given to winners. A cake cutting ceremony was also held and the cake was then shared with the children. Kids also showcased their work to volunteers by giving them a tour in their school. Their artistic work included beautiful art works, flowers and decoration items made out of ceramic dough, which they are going to exhibit in the coming months. Visit ended with group photo session thus to capture their smiles forever in photographs.

Another day of joyful activities thus ended with a purpose achieved, with a great impact not only on the volunteers but also on the young minds making them realize that they are a significant part of our society. Faisalabad School had classes from nursery to 10th grade.

Picture Link

<https://www.facebook.com/media/set/?set=a.10152618636302637.1073741833.138631407636&type=3>

5th visit was conducted on 12 December, 2014 to ‘Al-Huda School’ in collaboration with IEEE WIE GCUF, Lahore.

We reached at school at 9:30am. **Our Organizing Girls are divided to different classes. School has classes’ nursery to 10th.** We have bought different kind of goodies for kids e.g **color pencils, coloring books, geometry boxes , stickers , pens , diaries** etc. We distribute these goodies to each and every student of the school.

We also did some activities with them like painting competitions and quiz competitions etc. We asked them that what they want to become in future. There answers were very interesting. We also listened different kind of poems from them.

All the children were so disciplined and mannerly. The faculty of the school was so cooperative. They deal with us in very helpful way. In spite of giving them general education, they’re also giving them Islamic education.

At the End we captured a group photo with the students and faculty of the school. They were very excited during the whole activities. They enjoyed a lot.

The Principle of the school was very happy with the efforts of my team to bring the smiles to the kids of the nation.

We assigned different classes to groups of our IEEE volunteers who then performed different activities with those students. Afterwards prizes and gifts including color pencils, coloring books, geometry boxes, sticker pens, diaries and story books etc were distributed among them. Student sung poems and a motivating session was also held to encourage them to work hard and to never lose hope.

SEMINAR ON EMPOWERMENT OF WOMEN IN ENGINEERING:

Dates: 5th Dec, 2014

Guest Speaker: **Miss Sania Arshad** (Chair IEEE WIE Lahore Section)

IEEE Women In Engineering (WIE) is the largest International professional organization dedicated to promoting engineering and inspiring girls around the world to follow their academic interest to a career in engineering .The mission of WIE is to facilitate the global recruitment and retention of women in technical disciplines globally.

The purpose behind arranging the seminar was to introduce Women In Engineering UMT chapter to students and to encourage girls participants. The Guest speaker illustrated the seminar about the details of Women's role in industry and engineering. The detailed speech about the activities and achievements of WIE Lahore section were also discussed. Some activities related to our topic were also conducted by guest **Miss Hebba** (News writer IEEE Lahore Section). One of the activity was to plan an event on paper. This event should be interesting for participant and arranged in low cost budgets but should provide revenue to the team.

At the end, there was a cake cutting ceremony for the 20th anniversary of IEEE WIE chapter global. A question answer session was the part of ending where females were given an opportunity to grasp more intricate knowledge through their questions. The seminar was attended by a huge audience. Students from different Engineering Departments formed the majority of the audience. The seminar provided a platform for massive publicity of the IEEE and WIE society. All in all, the seminar was a huge success and it achieved its aim of imparting a broader vision of the empowerment of women in engineering discipline.

PART C -GOALS AND PLANS

C. 1 Goal(s)

1. Drive Technology for solving problems of society and humanity
2. Dissemination and Sharing of Knowledge for collective benefit
3. Develop Professional Values
4. Strengthen Industry-Academia Linkages

C. 2 Detailed Implementation Plans

1. Organization of Professional Development Activities
2. Bring together members in different institutions
3. More active support for the student branches.
4. Develop closer ties with R10 management.
5. Increase membership through a concerted drive and activate dormant members
6. Offer value for membership.
7. Effective use of web and social media presence for realization of goals
8. Invitation to industry professionals
9. Developing Calendar of Events and Activities

PART D -OTHERS

D. 1 Special Events

The following were the special events held by **IEEE Lahore Section during the year 2014:**

- IEEE Student Project Competition (August 2014).
- Participation of Lahore Section Students in IEEE R-10 meet in Malaysia (March 2014).
- Participation of Lahore Section WIE volunteer in WIE Leadership Congress in Chicago.
- Participation of Lahore Section volunteer in Sections' congress in Amsterdam (August 2014).
- Participation of six Lahore Section volunteers in IEEE EAB TISP workshop in Dubai (June 2014).
- PSYWC (Pakistan Student/YP/WIE Congress 2014) held in October 2014, held every three years in Lahore Section.

D. 2 Problems Anticipated

The following problem could be anticipated:

- Resource constraints in organizing events.
- Security situation in Pakistan for organizing events and/or inviting foreign speakers.