



## **Section Report**

# **IEEE LAHORE SECTION ANNUAL REPORT 2012**

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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 two society chapters, namely, Communication Society, and Computer Society. There are 11 active student branches in this section besides GOLD and WIE groups. Student branches remained vibrant throughout the year 2012 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 Student Activities
- To represent Lahore Section at international IEEE Forums

The Annual General Meeting of Lahore Section for the year 2012 was held on December 29, 2012 at the Lahore University of Management Sciences (LUMS). Dr. Aisha G. Pasha, Director, Institute of Public Policy, Beaconhouse National University, Lahore delivered the keynote address. The topic of her address was “Energy Crises and Pakistan’s Economy”.

During the year, two new student branches, namely Beaconhouse National University (BNU) Branch and University of Management and Technology (UMT) Branch were established. This brings the number of student branches in Lahore Section to 11.

The affinity groups of Lahore Section namely GOLD and WIE were quite active and organized a number of activities.

The section membership was 497 as on Dec 22, 2012, very close to the last year’s total of 511.

During the year 2012, eight (8) Executive Committee meetings were held besides a number of administrative meetings and technical events.

## A. 2 Financial Report

Financial reports are provided in attached Annexure 1 through 4. Annexure 1 gives Balance Sheet, Annexure 2 gives Income and Expenditure for the year, Annexure 3 gives Bank Accounts position at end of year 2012 and Annexure 4 gives proposed budget for the year 2013.

Audit of the Section accounts was carried out by the Auditors of the Section namely Aftab Zafar and Co, Chartered Accountants in August 2012.

Elections for new Executive Committee were held in December 2012. In the first round of elections the Chair, Vice-Chair, Secretary and Treasurer were elected. In the second round 8 other Excom members were elected. The IEEE Voting Tools were utilized for this purpose. Table A.3 gives the list of Executive Committee members in 2012. Table A.4 gives the newly elected ExCom members for 2013.

### A. 3 List of Executive Committee Members in 2012

	Name	Designation	Member Number
1	Prof. Dr. Khaver Zia	Chair	M-85026639
2	Prof. Dr. Amjad Hussain Shah	Vice Chair and Conference Chair	SM-41388554
3	Dr. Ali Afzal Malik	Secretary	M-90361581
4	Dr Syed Zahoor Hassan	Treasurer	SM-04404604
5	Dr. Shafay Shamail	Past Chair	SM-01855139
6	Dr. Muhammad Tahir	Student Activities Chair	M-40153160
7	Mr. Naveed Ahmed Khan	Membership Development Chair	M-91284317
8	Mr. Shazeb Rathore	Industrial Relations Chair	M-4673612
9	Dr. Sarmad Hussain	Webmaster	M-91268391
10	Dr. Noor M. Sheikh	Communication Society Chair	M-41533774
11	Dr. Waqar Mahmood	Computer Society Chair	M-40295624
12	Mr. Syed Maroof Raza	GOLD Chair	M-80057009
13	Ms. Mehvish Zahoor	WIE Chair	90364290
14	Ms. Rabail Raza	Section Student Representative (SSR)	90556208
15	Mr. Ishtiaq Bhatti	Office Manager	

### A. 4 List of Elected Executive Committee Members for 2013

	Name	Designation	Member Number
1	Dr. Amjad Hussain Shah	Chair	SM-41388554
2	Dr Muhammad Tahir	Vice Chair	M-40153160
3	Dr. Ali Afzal Malik	Secretary	M-90361581
4	Dr. Shafay Shamail	Treasurer	SM-01855139
5	Dr. Khaver Zia	Student Activities Chair	M-85026639
6	Mr. Naveed Ahmed Khan	Membership Development Chair	M-91284317
7	Mr. Shazeb Rathore	Industrial Relations Chair	M-04673612
8	Dr. Syed Zahoor Hassan	Member	SM-04404604
9	Ms. Shazia Rizwan	Webmaster	M-92259444
10	Dr. Qammer Abbasi	Member	M-90596134
11	Dr. Sobia Baig	Member	M-92096967
12	Ms. Synnia Tanveer	Member	M-90556208
13	Ms. Humna Malik	Member	
14	Ms. Sahar Sultan	Member	M-92313682
15	Prof. Dr. Noor M. Sheikh	Communication Society Chair	M-41533774
16	Dr. Waqar Mahmood	Computer Society Chair	M-40295624
17	Mr. Syed Maroof Raza	GOLD Chair	M-80057009
18	Ms. Mehvish Zahoor	WIE Chair	90364290
19	Ms. Rabail Raza	Section Student Representative (SSR)	90556208
20	Mr. Ishtiaq Bhatti	Office Manager	

# PART B - ORGANISATIONAL ACTIVITIES

## B.1 Membership Development Programmes

### Efforts in Membership Development

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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. As a result of these efforts two new student branches namely Beaconhouse National University Branch (BNU) and University of Management and Technology (UMT) branch were established in 2012. The response from the other institutions has been very positive and some of them are in advanced stage to set up IEEE student chapters at their institutions. It is expected that five new branches namely Forman Christian College, Lahore College for Women University (LCWU), UET Faisalabad, University of South Asia (USA) and University of Lahore branches will be established in 2013.

On the professional side, total of 85 active members of Lahore Section were invited in the monthly ExCom meeting in May 2012 to inform them about different activities being held under the Society's umbrella. A total of 1030 Inactive members of Lahore Section were emailed reminding them about the IEEE membership benefits and requesting to renew their IEEE professional membership.

An IEEE awareness seminar was held for the computer science students at The University of Lahore auditorium. The presenters were IEEE GCU student body representatives. The main items discussed included (a) the IEEE student membership benefits and (b) the requirements to form a IEEE student chapter at The University of Lahore.

An IEEE Membership Development Kit was ordered and received from the IEEE Singapore office to be used in future membership development activities.

### Membership Statistics

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There has been no significant change in the overall membership structure from last year. At the end of the year 2012, the membership of the Lahore Section is given below in comparison to same for last 4 years (2008 to 2011).

Current Active Members in SAMIEEE Database (22-Dec-2012)

Current Grade Description	Dec-2012	Dec-2011	Dec-2010	Dec-2009	Dec-2008
Affiliate	-	4	4	2	5
Associate Member	12	14	7	7	10
Graduate Student Member	36	34	32	14	14
Life Member	1	1	1	1	1
Life Senior	-	1	1	1	2
Member	232	181	194	167	120
Senior Member	12	12	11	14	13
Student Member	204	264	270	344	269
<b>Total</b>	<b>497</b>	<b>511</b>	<b>520</b>	<b>550</b>	<b>434</b>

## Current Student Branches:

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

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

### Events, Seminars, and Invited Talks

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IEEE Lahore Section arranged the following activities this year.

1. **System Validation Workshop by Dr. Mohammad Mousavi held on April 10, 2012 at Centre for Advanced Studies in Mathematics (CASM) , LUMS, Lahore.**

Dr. Mousavi is associated with the University of Technology, Eindhoven, Netherlands. The main aim of this workshop was to present model-based technique to formally specify and verify embedded systems. Dr. Mousavi also gave an overview of the importance of mathematics and particularly the process algebra techniques involved in embedded systems. He mentioned that many engineering disciplines rely on models to analyze and certify properties of future products before they are actually put into manufacturing. Computer engineering as a relatively young discipline of engineering has drawn analogies from other engineering disciplines and in the recent years have introduced model-based techniques to design, analyze and certify computer systems with the application of Process Algebra.

2. **Electronic Industry of Pakistan. A Lecture by Mr. Nauman Saeed, President and CEO, Micro-tech Industries (pvt) Ltd, Lahore on May 28, 2012. Venue: University of Central Punjab, Lahore.**

Mr. Nauman Saeed gave an historical overview of the electronics industry of Pakistan. He mentioned that at many times in the past there were a number of opportunities for Pakistan to develop its electronics industry base but these opportunities were not availed owing due to wrong policies of the Government.

He cited the example of computer technology and of mobile telecommunication technology. Pakistan had been inundated with imported Telecom consumer goods whereas these products could easily have been manufactured in Pakistan, resulting in jobs and saving of foreign exchange. The need is to develop local R&D facilities in Electronics rather than depending upon imported products.

3. **IEEE Lahore Section Projects Competition” held on July 14, 2012 at Beaconhouse National University, 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 2011-12 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 5 IEEE Branches of Lahore Section. A total of 40 projects were evaluated out of which 22 projects were shortlisted for the Final Round.

The Final Round was held at Beaconhouse National University Lahore on Saturday 14th July 2012. A total of 10 projects were displayed for the whole day. These were from LUMS Branch, UET Branch, COMSATS Branch, FAST NUCES Branch, GCU Faisalabad Branch and NFC-IEFR Branch Faisalabad.

4. **Seminar on Quad-copter Design. A lecture delivered by Dr. Muhammad Tahir at UET Lahore on September 29, 2012.**

This technical lecture was delivered Dr. Muhammad Tahir, Associate Professor, Electrical Engineering Dept, UET Lahore. Quad-copters are different from the ordinary helicopters because of their simpler mechanical design. Quad-copters is a helicopter that is lifted by four rotors, placed in a square formation at equal distance from the center of frame. Quad copters are controlled by adjusting the speed of four motors. The first successful design of quad-copter was proposed in early 1920s.

The talk covered in detail the design and development of a quad-copter.

### **Executive Committee Meetings**

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A total of Eight Executive Committee Meetings were held during 2012. All the meetings took place at Beaconhouse National University, 3-C Zafar Ali Road, Lahore. Details are as under:

1<sup>st</sup> IEEE Executive Committee Meeting held on January 21, 2012 at 3:00 p.m.

2<sup>nd</sup> IEEE Executive Committee Meeting held on February 25, 2012 at 3:00 pm

3<sup>rd</sup> IEEE Executive Committee Meeting held on March 31, 2012 at 3:00 pm

4<sup>th</sup> IEEE Executive Committee Meeting held on May 5, 2012 at 3:00 pm

5<sup>th</sup> IEEE Executive Committee Meeting held on June 16, 2012 at 3:00 pm

6<sup>th</sup> IEEE Executive Committee Meeting held on September 15, 2012 at 3:00 pm

7<sup>th</sup> IEEE Executive Committee Meeting held on October 20, 2012, 2012 at 3:00 pm

8<sup>th</sup> IEEE Executive Committee Meeting held on at December 1, 2012 at 3:00 pm

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

1. Organization of Technical Events
2. Support and Funding of Student Branches.
3. Lahore Section Final Year Project Competition
4. Industry-Academia Collaboration
5. Membership Development
6. Organization of INMIC-2013
7. Presentation of accounts of Section

### **Administrative Meetings of 2012**

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

1. Meeting of ExCom members with student representatives.
2. Meeting with Lahore Section Auditors Aftab Zafar & Co
3. Meeting of Teller Committee for conduct of Section elections.
4. Meeting of Awards Committee.

### **Annual General Meeting of 2012**

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The Annual General Meeting of Lahore Section for the year 2012 was held on December 29, 2012 at the Lahore University of Management Sciences, DHA, Lahore. Dr. Aisha G. Pasha, Director, Institute of Public Policy, Beaconhouse National University, Lahore was the Keynote Speaker. The topic of her keynote address was “Energy Crises and Pakistan’s Economy”.

## **B. 3 Awards and Achievements**

### **Section Awards**

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In the past the Section has given awards to the Best Volunteers, Best Student Volunteer and Best Student Chapter 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 2012 are:

- |  |                 |
|--|-----------------|
| 1. Best Student Volunteer of the Year:                 | Rabail Raza     |
| 2. Best Student Branch of the Year:                    | UET, Lahore     |
| 3. Best WIE Affinity Group Student Branch of the Year: | NFC, Faisalabad |

### **Achievements in Section**

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At the Pakistan Student/Gold/WIE Congress 2012 held on 7-9 Sep 2012 in GIKI, Chair IEEE NFC Branch Faisalabad, Anwar Ahmed Sabri got the best volunteer award named as Abdul Sattar Edhi International Volunteer by IEEE RDP Pakistan and this award presented by Dr. Shaukat Hameed Khan.

Five teams from LUMS participated in IEEE Xtreme coding competition; a 24-hour marathon coding event. One of the LUMS team achieved 30<sup>th</sup> place in the world, which is an accomplishment.



## **Achievements in Region 10**

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Mehvish Zahoor was awarded Region 10 WIE Vounteer Award.

On IEEE Day in October 2012, NFC-IEFR team distinguished itself for submitting one of the 10 Best pictures in worldwide IEEE student branches competition. The team was awarded prize of USD 500.

### **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. B.4.1 Beaconhouse National University, Lahore
2. B.4.2 COMSATS Lahore
3. B.4.3 FAST NUCES, Lahore
4. B.4.4 GCU Faisalabad
5. B.4.5 GCU Lahore
6. B.4.6 Islamia University, Bahawalpur
7. B.4.7 LUMS Lahore
8. B.4.8 NFC Faisalabad
9. B.4.9 UET Lahore
10. B.4.10 University of Faisalabad
11. B.4.11 University of Management and Technology, Lahore

## **B.4.1 IEEE-Beaconhouse National University Activities 2012**

The IEEE BNU Lahore just established itself last year and we didn't let our inexperience slow us down. This year has been a very busy year for us in whom we learned a great deal of how to work with other people and raise money. Our events include Kick It 12, Extreme Programming 1.0, membership drive, student mentoring session Search engine optimization workshop and Web Application Seminar

### **Membership Drive**

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This year the new students were given a detailed presentation about the IEEE BNU branch on their orientation day in which they were informed about this organization and were showed details of all the events we made possible that year and because of that we were able to successful register about 12 new members into our team.

### **Kick IT 12 – 25<sup>th</sup> April 2012**

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BNU IEEE's Kick It event turned out to a massive success at the BNU as both students and faculty were eligible to participate in the extremely fast and pace futasl encounters. This sporty event still tends to be the most popular event managed by BNU IEEE Chapter over the course of previous year. The 4-a-side event was held at BNU City Campus, as being one of a kind event, the response of entrants was excitingly massive in numbers as at least 120 entrants participated and the courtyard at the campus witnessed a huge gathering of at least 200 on spot. This event was dubbed as "unveiling of IEEE at BNU" hence we didn't charge anyone for the registrations. The enthusiasm and excitement still lives with those who experienced the 8 hours of non-stop entertainment on 27th April, 2012.

### **Student Mentoring Sessions - 15th May 2012**

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Before the final exams our IEEE members decided to help out the students prepare for their final exams. This session lasted 3 days where students brought their problems to our mentors and we explained to them the solutions and get better marks. In these three days crash course was also given for the subjects that students thought they needed extra understanding to. These courses included Linear Algebra, Discrete Structure and Computer organization and assembly language.

### **IEEE XTREME PROGRAMMING 1.0, '12**

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IEEE BNU arranged Programming Competition, more students participated then we expected. It was nice to see that a lot of students participated with enthusiasm and that made the competition fierce. The best part of this competition was that girls also participated who otherwise don't readily go to other universities for these types of programming.

### **Final Year Project Exhibition – 14th July 2012**

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Project Exhibition was held at Beacon house national University City campus where student from various universities were short listed for the best engineering project. Exhibition lasted two days and the winners were announced on the second day. During this whole time our IEEE members were right there to serve the participants with the equipment and technical assistance. Though these two days were exhausting but the smiles on the face of the participants as they waved us good bye made it all seem worth it.

### **Web Application Seminar – 1<sup>st</sup> October 2012**

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We aimed to provide our members some benefits of being with the IEEE for that that we thought up of

giving them a workshop on the subject of “Web Application”. This seminar was delivered by our own faculty member Sir Harris and he covered various topics in the two hour seminar. This seminar briefly explained the working of CSS and PHP and also showed how and where they could learn more on this subject right from their home.

#### **Search Engine Optimization –2nd November 2012**

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Search Engine Optimization was supposed to be our first event on which we were going to charge and finally generate some revenue this year. We sold around 50 tickets to our students and the seminar date was all set and our students were also ready but in the very last hours our speaker called in sick and for that reason we had to postpone the seminar to a later date. This seminar will be held later this year or at the start of next year.

## **B.4.2 COMSATS Lahore Activities 2012**

IEEE-CIIT is continuously working to bring out value for the students of CIIT since the day it was established. Several workshops, seminars and tremendous events were organized by it. Since the day of its inception, IEEE-CIIT has had huge growth.

### **PLC Programming Workshop**

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PLC is one of the most common tools used for industrial automation. Keeping its importance in mind, IEEE CIIT organized a workshop on PLC Programming. During the workshop various industrial automation professionals explained the basic mechanism and concepts of PLC Programming

### **eXcode Programming Competition and E- Gaming Challenge**

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eXcode Programming is an initiative taken by IEEE-CIIT to be held biannually. The purpose of this nail-biting competition is to promote and encourage the programming skills of the students. The theme of the competition is to judge the students on their approach to programming problems. This is the reason that the students are given an option to program in the language of their desired choice. The students participated with great interest and zeal and the feedback was very favorable and positive.

### **Final Year Project Exhibition, Fall 2012**

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Final Year Project is an important part of the degree program. It is a platform through which students show all their potential and skills through their single meaningful application. IEEE-CIIT provided the final year students an opportunity in the form of an exhibition to showcase their projects. Professionals from various industries were invited to evaluate the projects. IEEE Lahore Section chair Dr. Khaver Zia and vice chair Dr. Syed Amjad Hussain Shah also examined the projects critically. After exhibition the chair and vice-chair addressed the students and invited the winning students to participate in IEEE Lahore Projects Competition.

### **IEEE Orientation**

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IEEE-CIIT set up a promotional desk on the orientation ceremony of CIIT Lahore. IEEE-CIIT team introduced the society to the new comers and distributed the brochures and promotional material to encourage them to be a part of IEEE. IEEE-CIIT team briefed them about the IEEE and its role in CIIT-Lahore as well as internationally.

### **IEEE & WIE Promotional Seminar**

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IEEE-CIIT organized a promotional seminar to encourage students to understand the essence and importance of IEEE and WIE and also to make them understand the mentoring provided by these societies. Various IEEE-WIE-GCUL and WIE-UET graced the occasion with their participation. Mr. Ijlal Haider, a lecturer at University of Lahore, represented IEEE-GOLD Lahore and addressed the students. The event proved to be very fruitful and made a great impact on the recruitment process.

### **IEEE Membership Drive**

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IEEE-CIIT started its membership drive immediately after the commencement of classes in which we got tremendous response from the students. This semester more than 56 international students were registered, which is a record in itself.

### **Seminar on Smart Grid Technologies by Dr. Murtaza Hashmi**

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Smart Grid Technology is the next big thing in the energy sector. It is a method to make power distribution system more efficient and smarter. The students at CIIT Lahore were interested in doing their final year projects on this emerging technology. To facilitate them, IEEE-CIIT invited Dr. Murtaza Hashmi, a renowned scientist from VTT research center based in Finland, to give the students an overview of this technology.

### **IEEE Day 2012 Celebrations**

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Members and volunteers of IEEE-CIIT and WIE-CIIT celebrated IEEE Day with great passion and enthusiasm. On this occasion a number of recreational activities were planned.

### **Seminar on Career in Embedded Systems by Mr. Zeeshan Altaf from Mentor Graphics**

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Mentor Embedded is a leading embedded systems software vendor in the world. IEEE CIIT invited them to guide the students at CIIT Lahore about careers in embedded system engineering and the opportunities offered by Mentor Graphics.

### **Seminar on Volunteerism – A Social Gift by Dr. Sabeeha Khursheed**

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WIE CIIT organized a seminar on Social Role of Individuals and the essence of volunteerism. Dr. Sabeeha Khursheed addressed the students as the guest speaker. The speaker has dedicated her life in working as a volunteer by creating medical awareness amongst masses and setting up free medical camps in affected areas.

### **IEEE Mobile Apps Ideas Competition in Collaboration with Blue Nile Apps**

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IEEE CIIT took an initiative to conduct IEEE Mobile Apps Ideas Competition. Participants were invited to bring forward innovative ideas for catchy and marketable applications for smart phone and tablet platforms like iOS, Android and Windows Mobile. The co-founder Mr. Junaid Rehmat shared his experiences and valuable knowledge with attendees. He announced that Blue Nile Apps will award two best ideas, cash prizes of \$200 or 5% royalty for winner and \$100 or 3% royalty for runners up.

### **Seminar on Intellectual Property Ownership by Dr. Bilal Siddique**

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The technologies of today make it increasingly easier to transfer intellectual property from one person to another. What kinds of “things” do people have a right to call their property? To what kind of compensation are they entitled if someone takes that property? These questions are not easily answered. That’s why WIE CIIT invited Dr. Bilal Siddique a renowned scholar to help the professionals of tomorrow to find these answers.

### **Seminar on Real Time Operating Systems for Embedded Systems by Zeeshan Altaf from Mentor Graphics**

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Real time operating systems are a major concern in the field of embedded systems. Mr. Zeeshan Altaf was once again invited by IEEE CIIT to give a lecture on the need and fundamental concepts of RTOS for embedded systems. Mr. Zeeshan highlighted the significance of RTOS for an embedded system and informed the students about basic considerations like deterministic behavior, power consumption and low latency in embedded systems. Students found this lecture very interesting and informative.

We have a series of events to be organized in the near future, some of which are:

- Circuit Hoppers, IEEE eXcode 2013
- Web Development Workshop

- Mobile Application Development Workshop
- APTEC 201
- Seminar on Final Year Project Selection
- Series of seminars and workshops

Under the vigilant leadership of its Counselor the IEEE-CIIT Student Branch hopes to prosper, advance and grow in the near future. IEEE-CIIT will, God Willingly, ensure the fulfillment of IEEE motto, “Advancing Technology for Humanity”.

### **B4.3 FAST- NUCES Lahore Activities 2012**

This year, 2012, has been an extremely productive one, not only for the IEEE NUCES branch but also for our students of FAST-NU, since a number of events including an introductory session, membership drive and workshops had been organized for the students to get to know what the platform is all about and learn to apply their knowledge and skills in developing apps.

#### **Software Testing Workshop**

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On the 21<sup>st</sup> of April a workshop was scheduled to educate the students regarding software quality assurance. Its basic aim was to give the youngsters an insight into learning the industry wide standards of Software Testing methodology, tricks of the trade and the rules and regulations central to the test. Since it was a lecture regarding software testing, an essential, yet, technical procedure, therefore, the speaker of the workshop was **Shahzad Bhatti**, a personality with sound profile. He has over 30 years of experience in the design, development and deployment of large scale software systems for companies such as Samsung, Hewlett Packard, Storagetek (now part of Oracle), Fujitsu and NCR. The workshop was attended by a large number of people, who showed a great amount of interest in the topic of Software Testing. The speaker emphasized the need for the quality assurance, and also enlightened the attendees with the fundamentals of the testing, with a brief talk regarding the do's and don'ts essential for the practicality of the test. The lecture was followed by the questions and answer session in which the students actively participated to enhance their knowledge and clear out the relevant questions in their minds.

#### **Orientation '12**

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On 16<sup>th</sup> October, 2012, an orientation session was conducted with the purpose of emphasizing the need for the platform of IEEE, enlightening the students regarding the international membership and its benefits as well as to highlight the importance of technology in student development. The brief introduction of IEEE was followed by a lecture delivered by **Mr. Muhammad Shahid Aziz**, Technical Manager of one of the renowned service providers, i.e. Microsoft Pakistan. He educated the students about Windows 8 as well as the steps and procedures involved in the development of a mobile application. He also informed them regarding the Microsoft Innovation Centre built in the Arfa Technology Park, equipped with X-boxes and labs, with latest software from Microsoft. Moreover, he announced the commencement of WOWZAPP, a worldwide, 3 day Hackathon for application development. Apart from this, some fun filled activities were also arranged for the attendees to make the session more lively and interesting for the audience, including quizzes related to basic general knowledge. Based on this, some handy prizes were given to the winners, with wireless mouse and keyboard being our mega prizes provided by our sponsors, an 8 GB USB, earphones and Tosdown discount cards being other prizes. The turnaround was around 150, highly encouraging for the IEEE team.

#### **Membership Drive '12**

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The orientation session was followed by a membership drive to make the students a part of the society in a way to make the society more diverse and innovative. The students who showed eagerness in becoming a part of this platform were asked to specify their area of interest, to be adjusted accordingly within the team under a particular department.

#### **Microsoft WOWZAPP Install-fest 2012**

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On 1<sup>st</sup> and 2<sup>nd</sup> November, 2102, IEEE NUCES branch held an Install-fest in collaboration with Microsoft with the primary objectives of introducing the participants to the WOWZAPP Hackathon, equipping everyone with the required tools for the event that is Windows 8 DVDs and Windows App Development Tools and training the attendees on how to use the App Development Tools to make their own Windows 8

App. . Students from different universities from all over Lahore took part and attended the session with a lot of enthusiasm. **Mr. Zaigham Ikram Butt**, from MIC Pakistan, was the guest speaker, who introduced the audience to the event Appathon, a worldwide event, for programmers from all over the world to compete by making their own applications.

On the second day, Windows 8 DVDs and Development Tools were distributed to make sure everyone had the required tools to start developing Windows Apps. This was followed by a Workshop by **Mr. Usman-Ur-Rehman Ahmed** on “**Windows 8 App Development**” on the second day who highlighted the importance of having a good exposure to the Windows Applications; the necessity of staying in touch with the International Forums, and how it helps in App development. The importance of playing around with the Sample Apps was also a part of his discussion.

### **Windows Phone App Development Short Course**

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On 22<sup>nd</sup>, 23<sup>rd</sup> and 26<sup>th</sup> November 2012, a Short Course on Windows Phone App Development was held at FAST NU, to enable the participants to design and code their own applications and submit them at Windows Phone Store. Day 1 and Day 2 mainly focused on Windows Phone 7's application development. The participants were required to have installed Windows Phone SDK 7.1 and 7.1.1. However the main focus of Day 3 was Windows 8 Application development. Mr. Usman explained the main differences between Windows 7 and Windows 8 applications. He offered a lot of ideas to the audience and encouraged them to go further with their coding abilities.



## **B4.4 GCU Faisalabad Activities 2012**

The IEEE GCUF has been an active Student Branch during the year 2012. It has hosted a number of events as well as participated in many events hosted by other institutions. The IEEE-GCUF has actively participated in the IEEE Lahore Section meetings.

### **Orientation Session**

Orientation session has arranged on 7<sup>th</sup> Jan, 2012. Following events have been held:

- Membership Campaign
- Intro to IEEE  
(Mr. Sharak Nadeem, Ex-Chair of IEEE GCUF)
- Leadership seminar  
(Mr. Amir Zahoor, IEEE R8 GOLD Chair)

### **Elections and Oath taking ceremony**

IEEE GCUF conducted elections and oath taking ceremony on 25<sup>th</sup> March, 2012

### **Future Trends in Mobile Networks**

On 3<sup>rd</sup> May, 2012 IEEE GCUF Organized a Seminar on “Future Trends In Mobile Networks”. The speaker of this event was Engr. Omar Jamsheed (RF Optimize and Planning Engr.)

### **Born to Innovate**

IEEE GCUF WIE arranged one daylong event exclusively for Women on May 28, 2012. Following activities were conducted

- Importance of IEEE Membership and Benefits  
(Muhammad Arslan Maqsood, Chair IEEE GCUF)
- History of IEEE and Importance of WIE in Society  
(Saleha Kiran, Ex-Chair IEEE GCUF WIE)
- Why should I be the IEEEian  
(Nafeesa Mazhar, Ex-Vice Chair IEEE GCUF)
- Importance of Women in the field of Engineering  
(Rabia, Faculty of CS, GCUF)
- Experience Shared  
(Dr. Noreen, Dean of Sciences and Technology, GCUF)
- Motivational Documentary on Arfa Kareem
- Puzzle Games

### **ICT information and Communication Technology Exhibition**

Miss. Maryam Naseem participated in an Technology exhibition held at Expo center on 7<sup>th</sup> to 9<sup>th</sup> June, 2012. The project “Antenna design uses Cognitive Radio” was displayed there.

### **Project Exhibition**

Project Exhibition was conducted on 7<sup>th</sup> June, 2012 in which three groups were selected by Dr. Khaver Zia and Dr. Amjad Husain for the FYP competition of Lahore Section.

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### **Pakistan Student/WIE/GOLD Congress**

IEEE GCUF team participated in Pakistan Student/WIE/GOLD congress on 7<sup>th</sup> to 9<sup>th</sup> Sep, 2012 at GIKI and won 2<sup>nd</sup> prize in WIE video contest.

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### **IEEE Day**

IEEE GCUF celebrated IEEE Day on 2<sup>nd</sup> Oct, 2012 with the collaboration of NFC, TUF and UET Fsd.

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### **STAR Project (R10)**

STAR is a project of Pakistan WIE Forum. IEEE GCUF conducted “Young Women Exploring Science and Technology” under this project. The basic purpose of this project is to bring awareness among students of backward areas towards Technology and Science.

- Star project 1: On 2<sup>nd</sup> Oct, 2012, M.C girl’s Government High School was visited.
- Star project 2: On 29<sup>th</sup> Nov 2012, Alkareem Government High School was visited.
- Star project 3: On 1<sup>st</sup> Dec 2012, Govt. Muslim Girls High School was visited.
- Star project 4: On 1<sup>st</sup> Dec 2012, Government Iqbal model high school was visited.
- Star project 5: On 3<sup>rd</sup> Dec 2012, Government College for Women Karkhana bazaar was visited.

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### **Web Designing**

Web designing workshop was conducted by Miss. Sehar Naqi on 20<sup>th</sup> Nov, 2012

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### **WIE Day**

IEEE GCUF participated in WIE Day which was conducted by IEEE WIE UET Lhr. on 1<sup>st</sup> Dec, 2012.

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### **Celebration**

Miss Mehvish Zahoor won best WIE Volunteer award from R10. IEEE GCUF celebrated her success on 2<sup>nd</sup> Dec, 2012

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### **Say Hello**

Say Hello was conducted on 4<sup>th</sup> Dec, 2012. It was an interactive session among juniors and IEEE members.

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### **International Volunteer Day Celebration**

IEEE WIE GCUF celebrated International Day on 5<sup>th</sup> Dec, 2012 to promote the spirit of volunteer ship.

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### **TechFair’12**

A mega event named as TechFair’12 was conducted by IEEE GCUF on 22<sup>nd</sup> & 23<sup>rd</sup> Dec 2012. Following events were held at this event.

#### **Seminars**

- Career Development
- CV Writing
- Professional Ethics
- Rediscover yourself through self-motivation

#### **Competitions**

- The king codra
- Web development

- Speed wiring
- $\mu$  Geek

**Project Exhibitions**

- Software
- Engineering

**Fun Corner**

- Scavenger hunt
- Bonfire
- 2Xtreme
- Little E

## B4.5 GCU-Lahore Activities 2012

The GCUL organized many promotional and interactive events, and participated in external events during the year 2012. The IEEE-GCUL Student Branch Chair has actively participated in the three Executive Committee meetings of the IEEE Lahore Section. The IEEE-GCUL Student Branch has also contributed in spreading the IEEE cause by providing guidance and support to students of other institutions when and where needed. Some of the important activities are:

- IEEE Orientation at GIFT University Gujranwala
- Talk by Ms. Synnia Tanveer (Mentor IEEE-GCUL) and Mr. Ali Turab Gilani on IEEE Day
- Workshop on Windows 8 Application Development
- Attended the WIE promotional Seminar at Comsat's Lahore
- Will Participate in the Brainiac Uet
- Organized IEEE WIE TechFusion 3 day event at GCUL
- Participated in the IEEE-Pakistan Student Congress 2012
- IEEE Orientation at UOL
- Will organize IEEE S-PAVe (Student Professional Awareness Venture) in December

### IEEE-WIE-GCUL

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WIE remained substantially active on the departmental as well as Section level, having a fair blend of different types of activities. WIE conducted many promotional activities, competitions and events within the department and partook in others at Section level. An **IEEE-WIE TechFusion** was also dedicated to IEEE-GCUL

### IEEE-GCUL Electronics Wing

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This smart team participated in the **Pakistan Student Congress'12**, and also plan to organize the intervarsity event **NAGS – Nerds of Art, Gurus of Science 2012**, in collaboration with the Photography Club of the GC University, Lahore. 300 students from 27 educational intuitions of Pakistan will participate in the three-day event. This will be a collection of competitions including robotic race, circuit designing, technical quiz, speed writing, science project exhibition, best proposed scientific solution, best scientific idea, photography, essay writing, short film contest, sketching, painting, sculpture, dress designing, short story writing, poetry, recycling, dubbing, e-gaming and flash war

### Branch Achievements

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- 1- Managing IEEE Lahore Section Website
- 2- IEEE Student branch GCUL also got the honor of **“Best Branch of the Year 2011”**
- 3- Syeda Synnia Tanveer was nominated for best volunteer award also got the **“Trophy of Best Volunteer”**

## **B4.6 Islamia University Bahawalpur Activities 2012**

### **IEEE Orientation 2012**

---

IEEE Orientation was held on 4 April 2012. In this seminar our branch councilor & Ex-com members motivated students for joining IEEE. We successfully achieved the target this year. Membership percentage increases by 23%. Presenter: Engr. Qaiser Ijaz.

### **Workshop on “Proteus ISIS schematic capture and ARES PCB layout”**

---

IEEE UCET successfully conducted a workshop on “Proteus ISIS schematic capture and ARES PCB layout” on 9 April 2012. The invited speaker Engr. Bilal shahid elaborated the means of this simulating software & PCB layout programs to provide a powerful, integrated and easy to use suite of tools for professional PCB Design.

### **IEEE UCET Day 2012**

---

It is the second time in history of UCET. Our Branch celebrated its birthday. Invited speaker Engr. Muhammad Saqib Jamil elaborated the working of IEEE in the past. Alumni were invited for talk on “Empowering students” and experience sharing.

### **A Short Course on "Practical Approach towards Microcontroller"**

---

UCET successfully conducted 10 Weeks Short Course on "Practical Approach towards Microcontroller" that started on 20 April 2012.

#### **CONTENTS:**

- Week 01: Introduction to Microcontroller
- Week 02: Microcontroller and Microprocessor
- Week 03: MCS-51 Family Introduction
- Week 04: Instruction Set
- Week 05: Timer Operation
- Week 06: Serial Port Operations
- Week 07: Assembly Language Program
- Week 08: Program Structure and Design
- Week 09: Tools and Techniques for Program Development
- Week 10: Design and Interface

#### **Resource Persons:**

Eng. Bilal Shahid  
Eng. S. M. Fasih ur Rehman

#### **Supervisor:**

Dr. Abid Javed

### **Workshop on “Industrial Automation and Process Control”**

---

UCET IUB successfully conducted workshop on **Industrial Automation and Process Control** on Thursday, April 26, 2012. Invited person Engr Abbas Abbasi elaborated the means of process control and its usage in Industry Automation. 116 students participated in this healthy workshop. Certificated & shields were given to resource person.

### **IEEE UCET Ideas Competition 2012**

---

UCET conducted a competition on 6 may 2012, in which students submit their Ideas that can change the world & our panel of teacher selected best ideas & prizes were given to the wining students. Top 3 ideas were also submitted to Government think tank.

### **Workshop on “Windows 8 & its Apps”**

---

UCET IUB successfully conducted a workshop on **Windows 8 & its Apps on October 2, 2012**. Invited person Technopreneur Abu Bakar Sadeeq elaborated the usage, working & benefits of windows 8 & its apps. More than 150 students attend the workshop.

### **Seminar on “How to write Research Paper & its benefits”**

---

UCET believes in improving skills of students’. UCET conducted a seminar on **“How to write Research Paper & its benefits”** on October 2, 2012. The invited person Engr. Usman Ali Khan elaborated how to write research paper & hurdles. More than 100 students attended the seminar. This Event was conducted with the collaboration of IEEE RDPP (research development program Pakistan).

## **B4.7 LUMS Activities 2012**

IEEE LUMS Student Chapter had a great year of 2011-12/13 with back to back successful events. The summaries of those events are as follows.

### **LUMS Grid Station Tour**

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The tour was arranged for the Electrical Engineering students of SSE for practical understanding of their electrical power concepts. Around a 100 students participated in this activity where they were briefed about the different installations by one of our senior faculty members and ex vice president of Techlogix, Mr. Nauman Zaffar. The tour was very well received by everyone especially those who cannot go to such places outside the campus for one reason or the other.

### **IEEE Xtreme coding competition**

---

As with many previous years, IEEE LUMS Student chapter once again organized the setup for IEEE Xtreme coding competition. 5 teams from LUMS participated in this 24-hour marathon coding event. The setup was placed in Smart Lab of Computer Science department in SSE. One of the LUMS teams went on to get the 30<sup>th</sup> place in the world, which was a huge accomplishment.

### **3 Minute Madness**

---

This event is held annually by the IEEE LUMS Student chapter. Various faculty members from different disciplines of LUMS were invited, who shared their ongoing or recent research with students strictly during the course of the three minute time allotted for each person. They presented in various ways, either by talking or using professional presenting tactics like presentation slides, videos etc. 13 Faculty members from all three schools of LUMS participated in this event and presented in front of a full house in Sayyed Saigol auditorium. The atmosphere was further electrified by a unique voting system where the audience was asked to raise their voting cards after each session of presentation. The raised cards were captured by a camera and later the computer software automatically counted the number of votes. The competition was won by Dr. Sohaib Khan, HoD Computer Science department. The second and third positions went to Dr. Aurangzeb Hanif of Social Sciences department and Dr. Kamran Haider of Biology department respectively. The winners were presented with souvenirs. IEEE LUMS Student Chapter received great acclaim throughout LUMS for organizing such a multidimensional event.

### **All Pakistan Codinguru**

---

Codinguru is a coding competition in which teams of 3 students each participated from all over Pakistan. Teams were given a set of problems which they had to solve in 4 hours. Live score was being updated on the electronic scoreboard. Many different universities and colleges participated in the event including LUMS, FC College Lahore, Bahria University Islamabad, UCP and UMT to name a few. LUMS managed to grab the first and third position while FC College got the 2<sup>nd</sup> prize. The winners were presented shields by IEEE LUMS' patron Dr. Ijaz Naqvi. The certificate of participation was given to all the participants. After four hours of rigorous programming, the participants were given refreshments.

## **Faculty On the Line (FoTL)**

---

Faculty on the line is the premiere and most anticipated event of the IEEE LUMS student chapter. Part of its appeal is the student-faculty interaction aspect that goes beyond the boundaries of purely academic interests and allows the whole LUMS community to glimpse the softer side of their instructors. It therefore not only brings together faculty members of highest caliber but also proves as one of the biggest crowd pullers in any of the intra-LUMS events in the calendar. Last year around 20 faculty members from across LUMS participated in this event where they played games like tug of war, arm wrestling and dumb charades. The whole event was thoroughly enjoyed by a large audience present in LUMS Sports complex. The winners were presented with souvenirs.

## **FIRST LEGO League (FLL)**

---

'FIRST LEGO League' is an international school robotics competition held in more than 50 countries of the world. This year was their pilot year in Pakistan. IEEE LUMS Student chapter was responsible for hosting this pilot season event. The event included school teams of 5-10 players each making their robots participate in a speed robotics competition. The contest took place in a robotics arena which consisted of a flex sheet on a wooden table. More than 40 school students participated in that event. There was an audience of 200 people and around 40 volunteers working in the organizing team. The event was covered by various channels of television. The winning teams were given shields and medals for different categories. Certificates of participation were given to all the students. Moreover, the event judges and referees were also presented with shields and certificates. Volunteers were given free lunch coupons and T-shirts. The event ended with a dinner at the executive dining centre (EDH) in LUMS. The event was hosted by president IEEE LUMS Student Chapter, Ms. Kainat e Ali.

## **Celebrating EE at LUMS**

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IEEE LUMS Student Chapter held a celebratory event in regard of the accreditation of Electrical Engineering program at SBASSE by PEC. The idea behind this event was to appreciate and highlight the efforts of the pioneers of EE department in making this department grow to where it has and to appreciate the efforts of those who have worked for the PEC accreditation issue directly. The idea also included to celebrate the graduation of first SBASSE batch.

Many prominent personalities attended the event including LUMS Vice Chancellor, Dr. Adil Najam, SBASSE dean, Dr. Sohail Qureshi, HoD EE Dr. Shahid Masud along with the whole of EE and part of CS faculty. Some faculty members said a few words about this whole idea followed by the VC and the dean. Shields were given to respective faculty members for their contribution to the whole scheme. Shields were also presented to the guests of honor; the VC and the dean. At this moment a beautiful looking 4-story cake was cut to symbolize the celebration. The session was followed by refreshments for student audience of over 200 and all the faculty members. The whole organization and proceedings of the event were greatly appreciated by one and all including the LUMS vice chancellor.

## **Graduate admissions session**

---

Lastly IEEE LUMS Student Chapter held a talk on how to proceed on the graduate admission application thing. The talk was categorized into three regions where different speakers told about their experiences of applying in each one of them. They talked about graduate admissions in U.S., Australia and Europe (Germany & Sweden in particular). The session was directly helpful for many, especially the graduating batch of 2013 who were about to begin their application processes.



## **IEEE-NFC Activities 2012**

### **IEEE Membership Promotional Seminar**

---

In every year we arrange a seminar for new coming student's i.e electrical and computer science students. The main purpose of this seminar is to create the awareness and benefits of IEEE and importance in practical life. We arranged 2<sup>nd</sup> IEEE Membership Promotional Seminar on 12<sup>th</sup> January 2012. It gives very positive response and it increases our membership of IEEE and WIE as well. Our main speakers were:

- Muhammad Saqib Jameel, Vice chair IEEE GOLD Lahore Section
- Mehvish Zahoor, Chair Pakistan WIE Forum Lahore Section

### **Celebrate IEEE NFC Day**

---

Annual ceremony of IEEE NFC was celebrated on 16<sup>th</sup> January. A cake cutting ceremony was arranged on that day. Guests were:

- Dr Javed Rabani, Director NFC IEFR Faisalabad
- Engr. Tahir Raza, HOD Electrical Engineering Department
- Engr. Asma Adeel, Branch Councilor IEEE NFC Faisalabad

We planned future events on that day.

### **Seminar on Research Paper and Thesis Writing Methodology**

---

We arranged this seminar on 21<sup>st</sup> February 2012. The main purpose of this seminar was to create the skills of thesis and research paper writing for engineering students. For this seminar we invite Dr. Mohsin, UET Faisalabad. He delivered a lecture and gave some out line and key points which proves very helpful for students.

### **WIE Talk on Pakistan WIE Mission to Progress**

---

IEEE NFC student branch also have its affinity group named as IEEE WIE NFC student branch Faisalabad. WIE activities and the participation of WIE NFC are very important in Lahore Section. WIE NFC has the maximum number of international student member. IEEE WIE NFC is arranged a meeting on 21<sup>st</sup> Feb 2012. In this meeting, we discussed the mission and future planning of WIE NFC and Pakistan WIE Forum as well.

### **Women Day 2012**

---

On 8<sup>th</sup> March 2012 WIE NFC-IEFR student branch organized a grand event WOMEN'S DAY. The main motive was actually to show how strong a Woman can be and how she can prove her existence in this society so that's why, our theme was "MAI HUN MAI BHE HUN".

The guests invited for the penal discussion were:

- Saleha Saeed, Deputy Health Secretary Punjab
- Naveeda Zia, President Sarsabz Foundation
- Humaira Ejaz, RJ FM-90

The main competitions were:

- Video competition
- Poem Recitation
- Video armed forces
- Photo easy Competition
- Technical Quiz Competition
- Short Skit Competition

On this particular day a number of small events were organized and the students from the whole university participated. This event went very well.

#### **Discussion with Mrs. Director NFC**

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As discussed earlier, we celebrate International Women's Day 2012 on 8<sup>th</sup> March 2012. After event a meeting was arranged for the appreciation of IEEE students by Mrs. Javeed Rabbani, Director NFC IEFB Faisalabad on 12<sup>th</sup> March 2012. A memorable shield was awarded to Mrs. Javeed Rabbani by IEEE NFC Student Branch Faisalabad.

#### **Get-to-Gather with Chair Person Pakistan WIE Forum**

---

Rabia Khalid, Chair Person Pakistan WIE Forum visited WIE affinity groups of Faisalabad region. On this occasion, we arranged a get to gather in Al-Maida Pizza Garden Faisalabad on 25<sup>th</sup> March 2012. In this get-to-gather IEEE NFC and IEEE GCUF students were participated

#### **Lecture to Final Year Students for Final Year Project**

---

As we know that selection of final year project is most difficult and important part for students. For this we arranged a lecture at the platform of IEEE. We invited Dr. Noor A. Mamon, he told the important point for the selection of project. This seminar held on 19<sup>th</sup> April 2012.

#### **Participation in IEEE GOLD Lahore Section Awards Distribution Ceremony**

---

IEEE GOLD Lahore Section Awards Distribution Ceremony was held on 28<sup>th</sup> April, 2012 at University of South Asia, Tufail Road Lahore. Dr Khaver Zia (Chair IEEE Lahore Section), Dr Tanveer ul Haq (Vice President Operations Wi-tribe) and Sajjad Kirmani, (CEO Infogistics) were chief guests on this occasion. In this event Chair Person IEEE NFC Faisalabad, Anwar Ahmed Sabri got the best volunteer award.

#### **Tea with Executives of NFC**

---

After the achievement of award on IEEE GOLD Lahore Section Awards Distribution Ceremony, IEEE NFC student branch celebrate this memorable movement and arranged a tea with the executives of university. The main guests are:

- Engr. Tahir Raza HOD Electrical engineering department
- Engr. Asma Adeel, Branch counselor IEEE NFC Faisalabad

This get-to-gather was held on 30<sup>th</sup> April 2012

#### **Project Exhibition Visit Chair IEEE Lahore Section Dr. Khaver Zia**

---

Final year project is the most important part of engineering study. We can estimate the skills of student related to project from their final year project. To support and to support for financial, Lahore section arranged a final year project competition. For the first phase of competition, Dr. Khaver Zia Chair IEEE

Lahore Section and Dr. Amjad from FAST Lahore visited NFC and completed their evaluation for first phase. They selected 4 projects from NFC for second round. They visited NFC on 12<sup>th</sup> June 2012

### **IEEE and WIE Discussion**

---

We arranged meeting of IEEE and WIE students for future plans and events. This meeting arranged under the supervision of our branch counselor Engr. Asma Adeel, Assistant Professor NFC IEFr Faisalabad on 12<sup>th</sup> July 2012.

### **Lecture on Energy Crises**

---

Energy crises are main problem of Pakistan. We arranged a lecture on energy crises. Sheikh Muhammad Ashraf, Chief Engineer FESCO delivered a lecture for the solution of these crises that how engineers can solve these crises. This lecturer delivered on 17<sup>th</sup> July 2012.

### **STAR Project**

---

This project is basically Student-Teacher and Research Engineer/scientist. The main motive 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. WIE-NFC arranged The IEEE Student-Teacher and Research Engineer/Scientist (STAR) Program with the collaboration of **Pakistan WIE Forum**. We are very happy that our country now has a good facility for students compared to before ... and also there be good teachers who encourage the students to pursue their studies. But some of the students don't pay attention to their future or to their country and that is the biggest challenge. There isn't always enough money, or people who actually care about school. So it is hard to gets students to like school more if they aren't supported. This tour was held on 1<sup>st</sup> of September in a school named Govt. Girls higher secondary school Nishatabad. This activity held on 1<sup>st</sup> September 2012. Events are:

- Class room activity
- Fun activity

Committee of STAR project is:

- Rabail Raza, Chair Person
- Tooba Hameed, Treasurer
- Fareha Rasheed, Head Fine Arts
- Saira Anjum, Branch Secretary

### **IEEE Stall on Entry Test Day in NFC**

---

ECAT Engineering College of Admission Test was held on 2<sup>nd</sup> Sep 2012. On that day a stall of IEEE was arranged in NFC. The main purpose of this stall is to create the awareness of Engineering and IEEE and WIE for girls.

### **WIE Get-to-Gather**

---

In our student branch, some meeting and get-to-gather were arranged with the spam of time. Similarly a WIE get-to-gather is arranged on 3<sup>rd</sup> Sep 2012. WIE NFC IEFr arranged a dinner at SARDINES for all girls. After the dinner, there was a little variety show organized by a few members of WIE. The audience thoroughly enjoyed the show and appreciated the performances. It was a memorable party.

## **Collaborative Seminar on GIST competition/Innovation Technology on PSC in GIKI with UET Faisalabad**

---

In PSC Pakistan Student Congress 2012, IEEE NFC Student Branch Faisalabad arranged a workshop on Technological competition GIST Global Innovation of Sciences Technology with the IEEE UET Faisalabad student branch at the platform of IEEE GOLD Lahore. This workshop held on 9<sup>th</sup> September 2012. This workshop proves very helpful for young engineer entrepreneur.

## **Participation on GIKI PSC 2012**

---

Pakistan Student/Gold/WIE Congress 2012 held on 7-9 Sep 2012 in GIKI. In this event, participation of students of IEEE NFC Student Branch Faisalabad was maximum. In this event Chair Person IEEE NFC Faisalabad, Anwar Ahmed Sabri got the best volunteer award named as Abdul Sattar Edhi International Volunteer by IEEE RDP Pakistan and this award presented by "Dr. Shaukat Hameed Khan". He is a Pakistani nuclear physicist. He is the Ex-Rector of GIKI. He also worked with Pakistan Atomic Energy Commission.

## **IEEE NFC Dinner for the Appreciation of International Award in PSC 2012**

---

After the achievement of best volunteer award named as Abdul Sattar Edhi International Volunteer by IEEE RDP Pakistan IEEE NFC student branch celebrate this memorable movement and arranged a dinner in Silver Spoon, Faisalabad. The main guests are:

- Engr. Tahir Raza HOD electrical engineering department
- Engr. Asma Adeel, branch counselor IEEE NFC Faisalabad

This dinner was held on 12 Sep 2012

## **IEEE and WIE meeting on Discussion on IEEE and WIE Forum**

---

Meeting and discussion is important tool to solve the problem and it generates the team work. We arranged a meeting of all the students of IEEE and WIE. In this meeting we make some future plans. This meeting arranged on 25<sup>th</sup> September 2012.

## **IEEE Day 2012**

---

The IEEE Day team is made of IEEE student volunteers, young professionals and staff to assure that this year celebration will be even bigger and more impressive than the last two editions. The main task of the IEEE Day Team is to initiate, motivate and coordinate events and efforts to celebrate this day worldwide. On this day, IEEE NFC Student Branch Faisalabad was arranged a cake cutting ceremony. This event was held on 2<sup>nd</sup> Oct 2012.

## **Collaborative Event on IEEE Day 2012**

---

In the history of Lahore section, IEEE Day was celebrated with the collaboration of 4 student branches:

- IEEE NFC Student Branch
- IEEE GCUF student Branch
- IEEE TUF student Branch
- IEEE UET Fsd student Branch

In this collaborative event, we take some snap shoot for IEEE day photo contest 2012. Students of these 4 student branches take part actively and we learn team work for this event. This collaborative activity held on 2<sup>nd</sup> October 2012

### **S-PAC in NFC**

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S-PAC abbreviated as Student Professional Awareness conference. This is the program initiated by IEEE USA and first time arranged in NFC. They provide us aid or fund for this S-PAC. At the platform of S-PAC we arranged a lecturer on PCB that how we made PCB (Printed Circuit Board) for simulation and implementation of projects. This lecture is delivered by Engr. Awais Anjum, Lecture NFC Faisalabad. We arranged this lecture on IEEE Day 2<sup>nd</sup> Oct 2012.

### **Teachers' Day 2012**

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Teachers' Days are intended to be special days for the appreciation of teachers, and may include celebrations to honor them for their special contributions in a particular field area, or the community in general. We celebrated Teachers' Day 2012 in NFC for appreciation of our teachers on 5<sup>th</sup> October 2012.

### **IEEE NFC with Punjab Youth Festival**

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To extend the area of technology, leaders of IEEE NFC Faisalabad:

- Rabail Raza, SSR Lahore Section
- Anwar Ahmed Sabri, Chair IEEE NFC

We participated in Punjab Youth Festival 2012 and we are the ambassadors of Engineering and IT section. We attend different competitions like speed wiring, circuit designing, programming competitions etc with the students of IEEE NFC. This festival was held on 16<sup>th</sup> Oct to 26<sup>th</sup> Oct 2012.

### **Award celebration; Win International IEEE Day Photo Contest**

---

A photo contest is took place on the Day of IEEE. On this day, IEEE NFC Student Branch Faisalabad was arranged a cake cutting ceremony. We have to upload a motivational picture of IEEE. We won this global photo contest. Only 10 teams were selected from all over the world and only 2 pictures were selected from Region 10. It is great honoring for Lahore section that they won and got international recognition. Result announced on 16<sup>th</sup> November 2012.

### **Lecture to New Cabinet of IEEE UET Faisalabad Branch**

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IEEE UET Faisalabad is the new branch in Faisalabad. Anwar Ahmed Sabri (Chair IEEE NFC Student Branch Faisalabad) is the advisor of UET Faisalabad student branch. Many meetings and lecture were delivered by us for branch petition, new student member's promotions and other matters. Last meeting were arranged on 15<sup>th</sup> November 2012 with the Mr. Waheed, Chair IEEE UET Fsd and Mr. Farooq, Ex chair IEEE UET Fsd and others.

### **Election for cabinet 2012-13**

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Election for new cabinet for year 2012-13 was arranged on 20<sup>th</sup> November 2012. Ex-Chair IEEE NFC and the Branch counselor were interviewed. New chair person of IEEE NFC is Rai Ali Hassan and Rabail Raza is Chair of IEEE WIE NFC.

## TechnoWar'12

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**IEEE NFC student branch is arranging IEEE NFC Techno war 2012 in the end of** December 2012 at NFC Institute of Fertilizer and Research Faisalabad. This interactive competition will combine technical input, personal effectiveness and practical hands on experiences. This will ensure that delegates go away with skills to enable them and their teams to perform at the peak of their abilities. Main events are:

- Techno Brain Competition
- Speed wiring competition
- Mind wobble
- Shake the brain
- Mill the skill
- Boom strike
- Pace Race
- Future Ideas
- Ideas Extreme competition
- T-shirt designing
- Snap the shot
- Photo essay
- Wild salvage
- Shoot the Shot

## **B4.8 UET Lahore Activities 2012**

### **BRAINIAC 2011**

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Last decade of December 2011 marked all the glory that IEEE UET has achieved during the year 2011. There could not be any better epilogue for IEEE UET in 2011 than BRAINIAC. For IEEE UET BRAINIAC personifies team work, dedication, hard work and excellent management. 5th International Conference on Open Source Systems and Technologies (ICOSST-2011) and associated open source series workshop was arranged by KICS where participants and practitioners from all around the globe mustered in UET. The events devised by IEEE UET Lahore Student Branch included:

- Speedy and Spidy
- Color the Idea
- Fun Gala
- Junkyard Wars
- Fight to Convince
- Business Idea Competition

### **Talk on Final Year Project Selection**

---

Ms. Nudrat Liaqat, an Electrical Engineer from 2006 batch of UET and currently employed at a managerial post at Dawlence Ltd., presented the students of UET with a brief yet very informative discussion on final year project selection, its selection's impact on becoming an entrepreneur and internship opportunities for students on March 20th in Electrical Engineering Department.

### **Fulbright Scholarship Orientation**

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An orientation was arranged by the Embassy Staff employing HEC's video conference network on the 28th of March, 2012. The one and a half hour orientation, starting at 10 am, presented the students with the directions and guidance in preparing themselves and applying for the Fulbright Scholarship, which is one of the most prestigious scholarships provided by HEC.

### **Technofest 2012**

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IEEE UET Student Branch, in collaboration with the other leading societies of UET including IET UET, ACM UET, ASME UET and ASHRE came under one roof to present one of the biggest events arranged at the university, that is Technofest 2012, held on the 17th and 18th of April. The events organized by IEEE UET Student Branch include:

- Break the Logician's Code
- Conceptualize the Notion
- Control the Controller
- Dodge the Snake
- Engineering Marathon
- Install the Stall
- Minute to Win it
- Snap the Idea

## **SPAC 2012**

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IEEE Students Professional Awareness Conference (SPAC), an annual event organized by IEEE UET Student Chapter and held on the 17th of April, served as an exciting major forum for scientists, engineers and practitioners throughout Pakistan to present and discuss the issues regarding professional development as well as further techniques to nurture self-confidence.

### **Talk on 'The Global Trends in Chip Design' and 'Local/Foreign Career Choices for Pakistani students'**

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Mr. Fahad Ali, a senior engineer at Qualcomm, discussed about what chip design is and Qualcomm's perspective on chip design. He also discussed the opportunities and obstacles out there for career hunting Pakistani students in local as well as foreign universities.

### **Seminar on Career Opportunities in Computing Industry**

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Mr. Zia Imran delivered a valuable seminar on career opportunities available nowadays in the computing industry in which he emphasized on the ever expanding computing industry and opportunities for students in that field.

### **BBQ and Cricket Match for Fund Raising**

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A chance for IEEE UET members to celebrate the team and its efforts lied in the BBQ and cricket match organized to help raise funds. It proved to be a fun evening filled with enjoyment and entertainment.

### **English and German Classes: Session 1 and Session 2**

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Mr. Muhammad Talha, one of the best graduates of UET, gave up a lot of his valuable time to the students of UET in preparing them for the IELTS test. Session one was held during the summer break from 7th August till 19th August and the second session started from 15th September and ended on the 15th of October. The classes covered vocabulary building, IELTS tips, an introduction to German Language and much more.

### **Pakistan Student Congress 2012**

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The Pakistan Student Congress is the annual general meeting of all the student branches of IEEE working inside Pakistan. This event gives all branches a platform to sit together and discuss the activities of IEEE Chapters that were done throughout the year. The events that IEEE UET Student Branch participated in included the following:

- Race to Innovation
- Programming Competition
- WIE Video Contest
- Social Innovation Contest

### **Web Development Workshop 2012**

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One of the most well organized and highly praised events was held in fall of 2012 by IEEE UET WIE Student Branch. Miss Hina Khalid, a lecturer at University of Engineering and Technology, was the instructor for the workshop, which aimed at providing its attendees with an introduction to developing a basic website for example, displaying text on a website, creating and displaying tables, etc.



## **Quad Copter Presentation**

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Dr. Muhammad Tahir, one of the best faculty members at University of Engineering and Technology, Lahore, contributed a valuable and educational presentation about the "Quad copter", for which he was an advisor and supervisor to a group of students of UET session 2008 and session 2009. The presentation was held on September 29th, 2012.

## **IEEE Day**

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The IEEE UET student branch started off their academic year by celebrating one of the most widely celebrated events by all student branches all around the world, IEEE Day, on the 13th of October. This day included many interactive activities like presentations on career opportunities, finding the right job the right way and branch activities, drama skits performed IEEE student members as well as a BBQ feast afterwards.

## **IEEE Orientation**

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A fantastic orientation for the freshmen at University of Engineering and Technology was organized and arranged, which covered all those areas of confusion that usually trouble the freshmen in universities. The orientation was held over a five days' time from the 16th of October till the 20th of October, making sure that the whole new session of students were provided with a sufficient amount of helpful information.

## **IEEE Xtreme**

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IEEE Xtreme is an international 24-hour programming competition, which consists of participants being provided with a sufficient set of problems, to be solved in the form of C, C++, Python, Java and other languages and submitted within the 24-hour time span. This year, IEEE UET Student Branch participated in the competition with a total of 10 teams under the proctorship of Dr. K M Hassan, a well-known professor of the Department of Electrical Engineering, University of Engineering and Technology, Lahore.

## **Webinar on GRE**

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The webinar was presented by Mr. Shahid Bashir, an alumnus and electrical engineering graduate of '91 session of University of Engineering and Technology. He started his professional career at INTECH Automation Industries, later moving towards Techlogix and Descon. The webinar, presented on 12th October 2012, was arranged to provide an introduction towards GRE for students intending to pursue higher studies.

## **Punjab Youth Festival**

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Punjab youth festival, held throughout the month of October, was a high level festive event comprised of a vast array of sub events consisting of technical and non technical as well as athletic competitions. This festival was held at the provincial level and all engineering and IT sector events, including Circuit Wiring, MIC Interfacing, Build from the Waste and many more, were organized by our very own IEEE UET Student Branch.

## **WIE Day**

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A day, to commemorate and encourage women in engineering, was celebrated as WIE day for the first time in the student branch history on the 1st of December, 2012. It was joined by the active members of IEEE UET Student Branch who are also active promoters of WIE UET as well as motivational speakers from WIE Lahore Section.

## **WIE's Why Engineering Orientation**

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This year WIE initiated an orientation in different elementary schools for girls in Lahore to encourage them to opt for the engineering field as their career. The orientation, held during a span of two weeks, starting from 25th of November, was conducted by female working graduates who gave the girls an insight into the world of engineering and technology.

## **Avanceon Seminar and FYP Funding Drive**

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IEEE UET created a great opportunity for the students of UET Lahore by introducing a well-established human resource based company, Avanceon, in a seminar on the 4th of December. Avanceon, showed great interest in the prospective graduate students and offered funds for the projects for final year as well as junior students, who are on their way to finalizing the project they will be working on.

## **BRAINIAC 2012**

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Held on the 20th and 21st of December, BRAINIAC 2012, arranged by IEEE UET student branch in collaboration with ACM UET student branch, was an extravaganza filled with many technical and non-technical events to match anyone's personality and interests. It provided students with a common stage where they could compete with each other and develop leadership skills as well as strong bonds as a team to accomplish common goals. The events held in this multi-event extravaganza are as follows:

- Engineering Marathon
- Clash of Technical Acumens
- Junkyard Wars
- Ma'rka
- Trick the Microcontroller

## **B4.10 University of Faisalabad Activities 2012**

### **Welcome dinner and party for the new entrants**

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IEEE-TUF organized a dinner and a fun filled party to give a warm welcome to the new entrants in our electrical department.

### **Techfest Season1**

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IEEE-TUF started 2012 with a major event named TechFest. It was composed of three competitions listed as

- General Quiz
- Project competition
- Snapseed

The aim of the event is to introduce juniors to the IEEE-TUF Branch.

### **IEEE Orientation**

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An orientation session was held for the new comers at The University of Faisalabad headed by Hammad Armghan (chair) and Mubashir Hussain (Vice chair) at IEEE TUF. Purpose of this event was to inspire the students to join IEEE. This interactive session was started with the name of Allah followed by naat shareef. After the formal starting of the session Mr. Mubashir presented an interactive presentation about IEEE benefits and explain why an engineer should join IEEE and how to get benefits from this platform.

### **Participation in Mega-events**

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#### **Technofest 2012**

Technofest 2012 is an inter-universities IEEE mega event organized by the University of engineering and technology (UET-Lahore). Different fun activities and electrical competition were organized to develop skills and competition spirit in student. IEEE-TUF branch chair Hammad Armghan stood 2<sup>nd</sup> in Poster designing contest. It was a morale booster for all the students.

#### **IEEE Pakistan Student Congress 2012**

**PSC 2012** is organized by IEEE-GIKI chapter which was really a memorable and learning curve for the IEEE-TUF students. IEEE-TUF students participated whole heartedly and won Mubashir Hussain of our student branch won 3<sup>rd</sup> prize in social innovation contest.

#### **Punjab Youth Festival**

PYF is a national event in which the universities from all over Punjab, Pakistan participated in engineering and IT sector events. IEEE-TUF partnered with Youth Festival and helped them to organize different events.

### **Workshops**

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Workshops are the finest way to involve student practically and help them understanding different software, tools and techniques. This year IEEE-TUF took a big step forward and organized workshops on different topics. Workshops were much appreciated and students enjoyed the learning experience

List of workshops are given below

- Matlab
- Introduction to C-Sharp and Proteus

- Three day workshop on Microsoft office
- Workshop on Microcontroller Pic16f877A
- Web Development and SEO introduction

### **Seminars**

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Seminars are very important for those engineering students who have hunger to gain knowledge. Following CPD seminars were arranged by IEEE-TUF in collaboration with PEC for the engineers to help them understand the core concepts of Electromagnetic.

- Biomedical Application of Electromagnetic Field and Waves
- Electromagnetics in Telecommunication

Both the seminars were presented by well respected and renowned scientist in the field of Electromagnetic Dr. Syed Ali Mohsin.

### **Programming Class**

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A special class is arranged for the students who have interest in microcontroller programming. The idea behind it is that we are our own teachers, the students who really want a strong hand on microcontrollers and embedded system must research and after that a platform is provided to them through which they communicate and discuss their knowledge and problems they faced. Some programmers as supervisor are also available for that.

### **Techfestseason2**

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The 2nd major event organized by the IEEE-TUF Student Branch was Techfest 2 to end the year on high note. It was compose of five competitions listed as

- Mathlete
- Fungama
- Gaming mania
- Snap the shot
- Introduction 2 Virtual Electricka

## **B4.11 University of Management and Technology Activities 2012**

IEEE UMT Student branch is established under the aim to bring a productive extracurricular environment to the students. It is providing a platform to the members and students to explore their management and technical skills and polish them accordingly. It was established in 2007 and from that time it is flourishing and its popularity is increasing with its motivational and thought-provoking seminars and competitions. IEEE UMT student branch has conducted many promotional seminars to increase its members. It also arranged many workshops and activities to encourage students.

### **Gaming Competition**

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Gaming competitions are becoming increasingly popular amongst the younger generation. Students from School of Science and Technology and IEEE UMT student branch organized an intervarsity gaming competition in Lab 2n-9 and IPC at the UMT campus. Teams from FAST Lahore, SKANS, Lahore School of Economics (LSE),

University of Lahore (UoL), and University Of Management and Technology (UMT) participated in the event.

After a thrilling competition, SKANS was declared the winner. The winning team was awarded with a cash prize of Rs 5000/-. The event was held on 7<sup>th</sup>, Jan 2012

### **Workshop on PLC**

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PLC (Programmable Logic Control) is a widely used industrial automation tool. It is almost everywhere in the industry. IEEE UMT team arranged a workshop on PLC which was conducted by an expert from Malik Automation. There were 5 sessions in which 150+ students participated. Each workshop was about 3 hours duration. The feedback was very positive at the end. There were practical demonstrations of the real life problems that were being explained. The event was held in 4<sup>th</sup> April 2012.

### **Workshop on AVR Microcontroller**

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After the successful workshop on PLC, IEEE UMT team arranged a workshop on AVR microcontroller. It is also an extensively used automation tool. It is also helpful in designing final year projects. The workshop was again generated very positive response and more than 200 participants registered themselves for that. AVR development boards were prepared for the workshop and students performed practices on them. The workshop was conducted by our faculty member sir Muhammad Aqeel Arshad. This event was held in May 2012.

### **Robotics Competition**

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Robotics is an important aspect of electrical engineering. IEEE UMT team organized a competition on robotics. The main idea behind this competition was to understand the microcontroller and automation. Students used different type of automation tools and prepared their robots. The theme of the competition was "Line Following Robot". After a great action of robotics one of the groups won. This encouraged the students to participate and use their skills to win next competitions. This event was held in June 2012.

### **Visit to PCSIR Laboratories**

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Students of the School of Science and Technology ( SST UMT ) visited Pakistan Council of Scientific and Industrial Research (PCSIR) Laboratories to learn more about instrumentation and measurements on . This visit was organized by IEEE UMT team. It may be noted that PCSIR is one of the best scientific

laboratories in Pakistan. Students learned the basics of calibration techniques which is an important aspect in instrumentation. The lab staff showed their labs and their most precise instruments for the calibration of different types of industrial instruments. The idea of calibration was clearly explained by the engineers working there. the visit was very beneficial for the students as they witnessed how calibration instruments are used in an industrial setting.

### **Visit to Orient Energy Systems, Lahore**

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A group of about 40 students visited Orient Energy Systems on November 22, 2012 . 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. For future we have a series of events to be organized, some of which are:

- IEEE Promotional and motivational seminar
- Visit to a LESCO Grid Station
- PIC Microcontroller Workshop
- Quiz Competition
- Matlab Workshop
- Projects Competition
- Series of seminars

### **Achievements this year in 2012**

Bilal Sheikh was awarded Excellent Event Organizer Award from IEEE GOLD Lahore Section 2012.  
Bilal Sheikh was the Ambassador of IEEE Pakistan Student Congress 2012.

Bilal Sheikh was awarded SuperFan Award from IEEE Communication Society in May 2012.

## B. 5 Chapter Activities

### B5.1 Computer Society Activities 2012

This year IEEE Computer Society Lahore Section secretariat got established at Al Khawarizimi Institute of Computer Sciences, KICS, UET, Lahore in order to accelerate and strengthen the linkage between the academia, research and industry with an objective to maximize the collaborative potential between the society members, professions and students.

IEEE Computer Society has conducted and provided technical assistance and guidance for various activities throughout year 2012. It has arranged instructors for Android and other computer software trainings besides telecom and network courses. In addition, IEEE Computer Society Lahore Section has co-organized 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 2012 and OSSW 2012.

This year IEEE has technical co-sponsored the 6<sup>th</sup> International Conference on Open Source Systems and Technologies (ICOSST-2012) with Al Khawarizimi Institute of Computer Sciences UET Lahore. Furthermore, the Open Source Series Workshops (OWSS-2012) and Open Source Projects Exhibition (OSPE-2012) were also technically assisted and co-organized.

#### OFFICE BEARERS & EXCOM FOR 2012

- 1) Chair - Dr. Waqar Mahmood, KICS, Lahore
- 2) Vice Chair – Dr. Farooq Ahmad, UCP, Lahore
- 3) Secretary – Jamshaid Iqbal Janjua, KICS, Lahore
- 4) Treasurer – Dr. Syed Ahsan, CS, UET, Lahore
- 5) Member ExCOM- Dr. Sarmad Hussain, CLE, UET, Lahore
- 6) Member ExCOM- Dr. Ali Hammad Akbar, CS, UET, Lahore

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## **B5.2 Communication Society Activities 2012**

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 committees that: *Foster original work in all aspects of communications science, engineering, and technology.*

The set of events organized by IEEE UET Communication Society during the year of 2012 included:

- Networking and Career Counseling Session with Mr Shahryar Khan. (25<sup>th</sup> Feb 2012)
- Talk on 'The Global Trends in Chip Design' and 'Local/Foreign Career Choices for Pakistani students' (9<sup>th</sup> May 2012)
- Workshop on Optical Devices and Systems from 11<sup>th</sup> June to 22<sup>nd</sup> June 2012; conducted by Dr. Umer Shahid
- Quad copter Presentation (29<sup>th</sup> Sept 2012)

## **B. 6 Affinity Group Activities**

### **B6.1 GOLD Activities 2011**

#### **South Asia GOLD Cluster**

In December 2011, South Asia GOLD Cluster was formed to monitor the operation of GOLD in Pakistan, Sri-Lanka, Bangladesh and India. The committee works under the IEEE Region 10 GOLD and representative from all the countries were included in it.

Mr. Maroof Raza from Lahore Section was appointed as Pakistan GOLD Representative in the South Asia GOLD. He participated in all the committee meetings on South Asia GOLD and presented Pakistan GOLD.

#### **IEEE GOLD Lahore Election**

Elections were held for the executive team of IEEE GOLD Lahore affinity group in February 2012 and Mr. Maroof Raza was elected unopposed as Chair of Affinity Group.

#### **Esprit de IEEE**

The objective of the event was to rejuvenate the volunteering spirit of members in Lahore Section and provide them motivation for the continuous efforts especially the recent graduates and graduating students. Most active volunteers from all branches of Lahore section were invited to the event and awards were presented to them as token of appreciation for their untiring efforts for IEEE activities. The following events were organized:

- GOLD Lahore, Empowering Young Professional by Mr. Saqib Jamil
- Inauguration of WIE Lahore Affinity Group by Ms Mehvish Zahoor
- WIE Lahore Oath taking ceremony



- Talk by Section Chair Dr. Khaver Zia
- Talk on Entrepreneurship by Dr. Tanveer ul Haq VP Wi Tribe
- Talk on IT Industry in Pakistan: Challenges & Opportunities by Mr. Sajjad Kirmani, CEO INFOGESTIC
- Volunteer Recognition & Award Ceremony

### **IEEE GOLD Congress**

IEEE GOLD Pakistan Congress was national level event organized by GOLD Lahore during the PSGW Congress where GOLD, Student & WIE AG from across the country participated. A glimpse on the event organized is below

- Entrepreneurship Talk by Dr Fazl-e-Moqem
- GOLD Lahore Introduction & Future Activities by Mr. Maroof Raza
- Engineering for change seminar by Ms. Sahar Sultan
- Social Innovation Contest
- Leadership workshop by Mr Mehran Khizar and Mr. Ijlal Haider
- Website Workshop by Mr. Usman Ali CEO INNOVA Networks
- Mentoring Connection Program by Mr Sulman Farrukh

### **IEEE DAY**

IEEE GOLD Celebrated the IEEE DAY at LCWU along with the worldwide IEEE Community. IEEE GOLD Lahore initiated several program on the day. Dr. Khaver Zia, Chair IEEE Lahore Section and Dr. Amir Zafar Director- General PITB were the Chief Guests for the event. Following is the summary of activities during the event

- Talk on IEEE Lahore Section by Dr. Khaver Zia, Chair IEEE Lahore Section
- Leadership Training Workshop by Mr. Mehran Khizar (IEEE GOLD Lahore)
- Seminar on Engineering for Change by Ms. Sahar Sultan (IEEE GOLD Lahore)
- Student Branch Operation Guideline & Training by Mr. Maroof Raza (GOLD Lahore)
- IEEE GOLD Lahore Mentoring Connection Program by Mr. Sulman Farrukh (GOLD Lahore)
- Keynote Speech by Dr. Aamir Zafar Chaudhary, DG PITB
- Closing Speech by Dr. Farhat Saleemi Dean Electrical Engineering Department LCWU
- Cake Cutting Ceremony

### **Graduate Internship Program**

The program was re-initiated in June 2012 to bridge the gap between industry and academia; and to provide young graduates with their first real job experience in shapes of internships. The journey started and due to hard work of our team who provided the opportunities on their personal links for internships. During the program we have offered 25 jobs and internships in a number of companies.

### **Website Design Workshop**

The workshop was designed for students who had keen interest in website design and development. It was held in University of Faisalabad. Before the workshop, an introduction of GOLD Lahore and it activates was given to the audience. Web Development Training was conducted by Usman Ali CEO Innova Networks who is professional website developers.

### **South Asia GOLD Coordinator**

Mr. Maroof Raza (Chair IEEE Lahore Section) has been appointed as South Asia GOLD Coordinator for 2013. The committee works under R10 GOLD and monitors the operation of GOLD in Pakistan, Sri Lanka, Bangladesh and India.



## **WIE Lahore Activities 2012**

IEEE WIE Lahore has annual theme named as “**WIE MOTIVATIONAL VALUES**”. Under this theme we have certain points to follow which are under as **Career guidance/consultation** (Seminars, Workshops, Discussion panels or sessions and CV writing. **Opportunity** (Internship opportunities, Recruitment test, Recruitment interviews, Job portal, CV scanning, Trainings/Webinars/Seminars and R&D focus ,Research work / paper writing and Exposure.)

### **IEEE Public Visibility- WIE Facebook drive**

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A plan was initiated to involve a broader online community within Facebook to engage in discussions around the topics relevant to IEEE Women in Engineering. There has been a renewed focus on engineering education reform this year that is motivating academicians and those people responsible for hiring engineers. We want to make sure that young professionals and students are not left out and we plan to continue to reach out to them via the growing Facebook community interested in the profession and the challenges that women face.

### **IEEE Day Celebrations**

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The members and volunteers of IEEE from the universities NFC ,TUOF and GCUF celebrated the IEEE DAY with full of zeal n zest. The conversation session got active. All IEEE'ians talked about their way of works for the IEEE society. Fruitful suggestions and ideas were shared among them related to get best volunteers. It enhanced the leadership qualities along a pride being a member of most active engineering society (IEEE) in whole over the world was felt. That was marvelous experience. Miss Asma Sajid presented the talk about website benefits. We discussed how to do the best use of seed money assigned to affinity group from section. Discussion was based on ,How to manage ,organize and arrange event in a suitable budget. We discussed visualization is the best source of information flow so by the help of software handlers or any expert we will make exciting videos which indicates the summary of the events ,activities and exciting happening has been occurred or would be happened soon for developing spirit.

### **STAR (Student Teacher and Researcher) Program 2012**

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The IEEE STAR program (Students, Teachers and Research) is a pre-university outreach initiative that encourages involvement of professional engineers and scientists with high school teachers and students. Introduction of STAR project with inspirational know how of all the fields of engineering was given by WIE Lahore Team. Girls asked questions regarding their interest in engineering and got satisfied replies from GCU-F WIE team.

A activity named, “What will be the world in 2050?” was arranged for girls. Girls have to draw, write and whatever they think what can be happened in 2050.charts and marker colors were given to them. It was fun activity along informative too.

A motivational video of the youngest Microsoft expert IRFA RANDHAVA was showed there.

### **IEEE WIE LAHORE-GIP**

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(Graduate Internship Program) is specially designed for the student and graduated Female members of IEEE Lahore Section and IEEE WIE Lahore. The purpose for this program is to help graduated and graduating students in their professional liives by providing them industrial linkage. Especially for those who have competence but they don't get jobs due to lack of contacts in industry. We are currently gathering internships and job opportunities which will be advertised as soon as we gather some audience here. The uniqueness of this program is that we will not only be letting you know about opportunities like other

forums but we will be putting you there if you deserve the opportunity. We will also be holding career guidance and professional networking seminars and workshops in this context as well.

## **WIE Day 2012**

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On December, 2012 WIE Day was organized by WIE UET with collaboration of WIE Lahore team. Many professionals were invited as guests to share their working experience as female engineers. Their addresses motivated the audience and they were encouraged to participate in future WIE activities. WIE Training session by WIE Lahore Section, in which all branches shared their upcoming ideas and activities and problems they faced in running their respective WIE branches. Miss Javeria, treasurer WIE Lahore and Miss Adila Shaukat ,Secretary WIE Lahore Region answered all questions and removed any ambiguities that may have made the exercising of the branch operations difficult.

## **WIE Lahore in the news and achievements**

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WIE Lahore news In Pakistan WIE Forum's newsletter: <http://sites.ieee.org/pakistan-wie-forum/pakistan-wie-forum-newsletters/volume-iii/> and **WIE Lahore news in R10 Newsletter:** issue September 2012: [http://ewh.ieee.org/reg/10/Newsletter/2012/R10\\_eNewsletter-Sept2012.pdf](http://ewh.ieee.org/reg/10/Newsletter/2012/R10_eNewsletter-Sept2012.pdf)

WIE Lahore Vice-Chair **Miss Anum javed** recently completed Pakistan Mission to Progress Project by IEEE Pakistan WIE Forum and WIE Lahore. (<http://sites.ieee.org/pakistan-wie-forum/projects-by-ieee-pakistan-wie-forum-2/pakistan-mission-to-progress-project/>)

**Mehvish Zahoor** (Chair, WIE Lahore Section Affinity group) got 2012 BEST WIE Volunteer award from R10 WIE Committee. (<http://sites.ieee.org/r10-wie/?p=530>)

**WIE UET** received **All Pakistan BEST Affinity Group award 2011-2012**. And WIE GCUF got 2nd position in WIE Video contest. Mehvish Zahoor received Outstanding WIE services award as chair, Pakistan WIE Forum'11 signed by Ramaltha Marimuthu, Global WIE Chair.

## **Pakistan WIE Forum 2012 | Year in a Review**

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Second Executive Committee of IEEE Pakistan WIE Forum took over April 4, 2012. Not only Pakistan WIE Forum carried its previous projects, but also initiated some new projects this very year. It turned out to be a very successful year for Pakistan WIE Forum as we also won a couple of regional awards this year. Worth mentioning is the fact that Pakistan WIE Forum initiated the STAR Pakistan Project where they are conducting STAR Programs all over Pakistan. Two activities of this STAR Project have also been carried out under Lahore Section. Also, in collaboration with IEEE GIKI Student Branch, we planned and organized the WIE Congress 2012 along with the Pakistan Students Congress. Major highlights of the congress were the National WIE Awards which were purely the initiative and tireless efforts of Pakistan WIE Forum.

The Discover WIE – membership drive series and the newsletter carries along with other activities.

## **Major Achievements PWF 2012**

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Ms. Mehvish Zahoor, Former Chairperson & Founding Member of Pakistan WEI Forum and Ms. Rabia Khalid, Current Chairperson, won the FIRST and SECOND position respectively in the IEEE Region 10 WIE Volunteer Award. Also Maryam Saeed, former General Secretary IEEE Pakistan WIE Forum has recently been appointed as the mentor for IEEE SEECS Student Branch and the Women in Engineering (WIE) SEECS Affinity Group.

## **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. Organisation of INMIC-2013 as major event for 2013.
6. Increase membership through a concerted drive and activate dormant members
7. Offer value for membership.
8. Effective use of web presence for realization of goals
9. Invitation to industry professionals
10. 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 2012:**

- IEEE Student Project Competition (July 2012)
- Participation of Lahore Section Student in IEEE Pakistan Student Congress 2012 held at GIKI, District Swabi, KPK

### **D. 2 Problems Anticipated**

The following problems could be anticipated:

- Resource constraints in organizing events.
- Motivation of members for organizing INMIC-2013