MAGAZINE 2015

INTERNATIONAL ISLAMIC UNIVERSITY ISLAMABAD
العامعة الإسلامية العالمية

Female Campus

Department of Computer Science & Software Engineering

The Computer Sciences and Software Engineering Department of International Islamic University,Islamabad was launched in the year 1992. Accredited by the National Computing Education Accreditation Council (NCEAC) the department offers Bachelors, Masters and Ph.D programs.

Since its inception the Department of Computer Science has been a center for research and education at the undergraduate and graduate levels. Strong research groups exist in areas of artificial intelligence, robotics, foundations of computer science, scientific computing, and systems. Basic work in computer science is the main research goal of these groups, but there is also a strong emphasis on interdisciplinary research and on applications that stimulate basic research.

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EDITOR'S NOTE

As'salam-o-alaikum !

Dear Reader,

It is with immense pleasure and pride that I welcome you to this very first Magazine of the Department of Computer Science & Software Engineering.

I do hope this semester has been a crazy ride for all of you. Well, for me it was.

From spring celebrations to endless row of seminars and guest speaker sessions,

workshops and training sessions to competitions and other events this semester has been a jet ride of enjoyment, wonderful experiences and endless opportunities to gain knowledge and information.

This magazine is a small effort to remember all the great events that happened this Spring.

So, brace yourselves for a trip down the memory lane.

I hope you enjoy and have fun.

Good Luck :)

Best Regards,

Maham Akhtar

BSSE-F13'C'

SPRING

COMPETITION

Workshops

Outside

COMPETITIONS

THE DEBATE COMPETITION

A debate competition between BSSE F-14 and BSCS F-14 to speak on "Media has ruined the youth mindset" between BSSE F-14 and BSCS F-14 to speak on "Media has ruined the youth mindset" was held on May 5, 2015 in Auditorium of Hazrat Fatima R.A Block.

The organizers of this event were Ms.Mehak Liaquat, Ms.Sarah Ahsan and Ms.Noor ul Ain.

This was a course activity for "communication skills" subject. The purpose of this debate was that on a large scale it was observed that the students lack the courage of public speaking. Thus, it was decided to provide them chance to overcome their weaknesses and gain the confidence to prove themselves.

The event was a wonderful success and the following 3 targets were achieved:

1.Improving speaking and presentation skills of the students

2. Building up confidence in students

3. Nourishing their listening skills

The position holders were given a USB and a dictionary as a token of appreciation, whereas the participants and organizers were awarded with pocket size dictionaries.

THE HIFZ COMPETITION

A Hifz Competition of Last 20 Surahs of Juz 30 with running translation of the Holy Quran was conducted for BSSE-F 14 (A,B,C) & BSCS F14 (A,B) under the suervision of Ms.Horia and Ms.Asma Hussain as a course activity for 'Understanding Quran'.

The competition was held in auditorium of Hazrat Fatima R.A Block on May15, 2015.

The competition was judged by :

1) Ms. Saleha Batool (PhD scholar of Hadith and Asst. Director Usuluddin)

2) Ms. Ayesha Basheer (PhD Scholar of Tafseer, Instructor at Dr. Bilal Phillips' Islamic Online University)

The competition had 3 rounds.

In round 1, the Hifz test of last 10 surahs was taken and some of the participants were shortlisted.

In the round 2, the Hifz and Tajweed Test was taken from last 20 surahs and participants were shortlisted again.
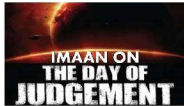
In the 3rd and final round, the Running Translation test was taken and winners were declared.

All the participants were given gifts and cash prizes.

The students enthusiaticaly participated and enjoyed this activity. Everyone loved the idea of such a unique competition.

THE
PRESENTATION
COMPETITION

A competition was held on May 18, 2015 for the students of BSSE–F13C as a course activity for the subject "Islamic World view and Civilization".

Ms.Horia supervised this one of a kind activity and the competition was divided in to two rounds.

In round 1, 9 groups from the class were each assigned a topic from "The pillars of Emaan & Islam" and had to make presentations and submit on May 5,2015. These presentations were judged by Ms.Horia and 4 groups were short-listed for the second and final round.

The 4 short-listed groups presented their given topics on May 18 and were judged by Ms.Horia and Ms.Noor ul Ain.

There was a very tough competition between the students and both the judges agreed that all the 4 groups performed beyond expectations. At the end 4 different prizes were given.

1. The 1st prize for the **Best Presentation** went to the Group which presented on the most difficult topic "**Predestination**". The group was awarded 2000 Rupee Cash Prize. Group members were **Maham Akhtar, Pakeeza Abbasi,Kinza Farooq, Farwah Aizaz & Sana Arif**

2. The prize for **2nd Best Presentation** went to the presenters of the topic "**Fasting**". They were awarded a Cash Prize of 1000 Rupees. Group members were **Saba Javed, Sumra Yousaf,Amna Akram,Fatima Waheed & Maryyam Irshad.**

3. The prize for **Best Slide Presentation** was given to the group which presented "**Zakat**" topic. The group Members were **Sara Malik, Iqra Hanif,Ammara Khan, Ammara Nadeem and Um E Habiba.**They were awarded a 500 Rupees Cash Prize.

4. The prize for **Best Presenter** was given to **Iqra Khurshid** for the topic "**Day of Judgement**". She was also awarded a 500 Rupee Cash Prize along with her group members **Sana Hameed, Faseeha Tehreem,Anum Mustafa and Sobia Ashraf.**

C++ COMPETITION

SPRING CARNIVAL '15 ACTIVITY

To encourage and assist the students of DCS&SE .a "C++ Competition" was held on April 22, 2015. Instead of "evaluation", a more serious form that has been adopted in the past, the program was conducted in a more lively approach of "competition", including activities such as C++ programming, experience sharing and discussion to provide the students with diverse learning opportunities.

21 groups of student took part in this competition. Each group consists of 2 participants. The overall number of participants are 41 including one single participant. The competition was held at Department Labs 119 and 120.

The teachers and staff of DCS &SE and Dean FBAS Dr.Muhammad Sher were invited as guests to witness the event. Two teachers Mr. Asim Munir and Mr. Nadeem from Male Campus IIUI were invited as judges for the event.

3 groups won showing that the winning students are robust and devoted to passing down their experiences.

In addition to the competition, Administration also arranged activities such as Web Designing, Advertisement Making and discussions for students to share their experiences and learn from each other. They also provided many valuable suggestions for the position and future directions of how the competition can be conducted in the future.

The Competition was a huge success and was highly appreciated by all the faculty members and participants of the Competition. The faculty and audience described the competition as informative, enlightening and a first step towards success in professional life.

On a side note...

Speed Programming Competitions

Ms.Shaista Rashid also conducted Speed Programming Competitions for Object Oriented Programming students on
18th May and 21st May 2015
and Speed Programming Competition for Data Structures on
22nd May,2015.

EXHIBITION
A COURSE ACTIVITY FOR ISLAMIC WORLD VIEW & CIVILIZATION

An exhibition was arranged as a course activity for the students of BSCS F13 A & B on 27th May 2015. The exhibition showcased different displays of charts and models depicting the following topics :

‣ Epistemology
‣ Creation of Universe
‣ Creation of Man
‣ Tawheed
‣ Sunnah & Science
‣ Art and Culture
‣ Architecture
‣ Muslim Contribution in technology

Ms.Asma Batool was called as the chief guest and the exhibition was made open to all students of the department.
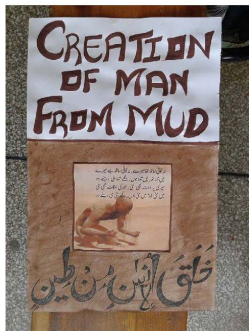
WORKSHOPS

5 DAYS WORKSHOP WITH MICROSOFT STUDENT PARTNERS

A series of 5 day workshop was held in DCS & SE conducted by Microsoft Student Partners Uroosa Manzoor, Areeba Azhar and Minahil Sherazi. These were a 1.5 hour sessions conducted consecutively from 3rd December 2014 to 8th December 2014.

The main focus was on Windows Phone App Development(Hello World + Hub Application), University Software Portal (Dreamspark), Details about Microsoft Virtual Academy, Appstudio, Unity Game Development (Basic introduction)

Students from different departments also attended the workshop. After successful completion of sessions students were able to create their accounts in DREAMSPARK UNIVERSITY PORTAL & MICROSOFT VIRTUAL ACADEMY. Students switched to genuine windows using the portal, learnt development using visual studio 2013 and appstudio.

On the last day of session 9th December 2014 an external Speaker: Irtaza Ahmed Qureshi joined us. It was 3 hour session and the strength ranged 30+ students in that session. Numerous topics were covered in that session including Database in SQL server using Grid View, Introduction on ASP.NET framework PHP JS HTML CSS AZURE, competitions in market, Web development introduction, guidance about FYP, Syntax of LINQ, Introduction about MVC, details about web forms web pages.

As a result of these sessions students are now aware of technologies used in development of industry level projects and market trends. And if any student faces any problem in development they are continually guided by Microsoft Student Partners of IIUI.
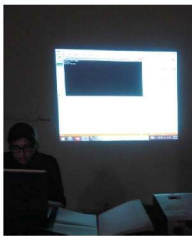
"SERIES OF INTERACTIVE SESSIONS BY MICROSOFT STUDENT PARTNERS "

1. Windows Phone App Development Session

1st Session was conducted on September 29, 2014. In this session an overview of Visual Studio 2013 and C# was given. As C# is language use to create windows phone apps so it was important to have a little knowledge of C#. To develop application visual studio 2013 is mandatory therefore understanding the development environment was important. Instructor was Areeba Azhar.

2. Introduction to C# workshop

Held on 16th March 2015, as part of the Windows Phone App Development Workshop, the workshop was open to all emphasizing more on Students of Fall11 to Fall13 especially the final year students doing their FYP's. The speakers for this activity were Maryam Zulfiqar, Huda Mehmood Khan and Rubab Tariq.The contents covered in this session was an overview of Visual Studio 2013, a brief theoretical introduction to C# with a couple of programs demonstration.how to make windows forms and do event handling, the use of several different tools and coding in C#.

3. App Studio & Game Basics

A Session was conducted on December 5, 2014. In this session the students were taught the use of AppStudio. As AppStudio is an online tool of Microsoft used to create windows/windows phone apps without coding! It is therefore an interesting tool for the developers who are more interested in front end development. Moreover, the students were provided with a short lecture on Game Basics, which consisted of detailed information on Game Development Basics i.e. what you need for a game, types of games and development environments, Game Assets, Game Engines, etc. Instructor was Minahil Sherazi.

4. Unity 2D & 3D Game Development

A Series of 5 sessions were conducted from March 9th to March 13th '2015. In these sessions the students were taught to develop 2D & 3D Game using Unity. Students were prepared for hands on practice on Unity. As Unity is a Game Engine used to develop games for multiple platforms. It is an interesting tool for the Developers who are interested in developing games for different platforms with quality display. The next sessions were delayed and are expected in summers.

Instructor was Minahil Sherazi.

Wiki Fact

Android software development is the process by which new applications are created for the Android Operating System. Applications are usually developed in Java programming language using the Android Software Development Kit(SDK), but other development environments are also available.

As of July 2013, more than one million applications have been developed for Android, with over 25 billion downloads.A June 2011 research indicated that over 67% of mobile developers used the platform, at the time of publication.In Q2 2012, around 105 million units of Android smartphones were shipped which acquires a total share of 68% in overall smartphones sale till Q2 2012.

Android App. Development

A workshop on "Android Application Development" under the supervision of Ms.Asma Sajjad was conducted on 15th May at Hazrat Maryam R.A block Lecture theater.

The workshop was a semester activity conducted particularly for BSCS F12 students in course "Advance Computer Programing".

The respected trainers Sobia Rasheed Malik and Muqaddas Sarwar delivered their lecture to the audience. Both the speakers are alumini of IIUI pursuing further education in computer sciences.

The Head of the Department Ms.Asma Batool Naqvi and Lecturer Ms.Zakia Jalil attended this seminar.

In the start Ms.Muqaddas guided the students about basic introduction and installations.

Later on Ms.Sobia Sarwar implemented 'hello world' program and made a simple application of a calculator.

At the end of the workshop there was a question and answer session.Students participated eagerly and asked queries.

The overall feedback from audience was satisfactory and they seem enthusiastic to see further activities in future.

android
Application Development

" An approach to computer networking that allows network administrators to manage network services through abstraction of lower-level functionality. **"**

SDN
WORKSHOP

Software-defined networking (SDN) is an architecture purporting to be dynamic, manageable, cost-effective, and adaptable, seeking to be suitable for the high-bandwidth, dynamic nature of today's applications. SDN architectures decouple network control and forwarding functions, enabling network control to become directly programmable and the underlying infrastructure to be abstracted from applications and network services.

This workshop was arranged for BSSEF12 to give them a detailed overview of SDN and make them familiar with the installation process.

A Mininet walk through was also given to the students with the simulator tool .Multiple topologies were built and tested. Project/ research ideas were provided to the students

1. DETAILED OVERVIEW OF SDN

2. STEP-BY-STEP INSTALLATION

3. MININET WALK THROUGH

4. PROJECT IDEAS ON SDN

Defining
SOFTWARE
DEFINED NETWORKING
An In-Depth Workshop on SDN

VENUE: L.T -- HAZRAT MARYAM R.A BLOCK -- BASEMENT -- FEMALE CAMPUS

TIMMINGS: 11TH MAY, 2015 -- 8:30A.M TO 10:00A.M

Office 365 Workshop for Faculty and Staff

Department of Computer Science & Software Engineering also organized a Training session on Microsoft Office 365 for the faculty and staff. The session was held on 7th April'2015 at Lecture theatre of the Department where Mr. Sheikh Rizwan & Mr. Abdul Wahab Najam from Microsoft guided the teachers and staff about Office 365.

The Training was said mandatory for all faculty members of department.

Faculty members of other departments also participated and showed their interest in the training.

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Under HEC & Microsoft EAA Please

JOIN US FOR
OFFICE 365 ONSITE EVENT

Office 365 ProPlus Adoption

Is your faculty or staff new to Office 365 or well on your way? Join us and learn how to get the most out of Office 365, quickly get your faculty onboard, and drive adoption with us.

Event Details:
29th May - Friday
10:30 AM till 02:00 PM
Venue: ONSITE –
International Islamic University Islamabad
Target Audience:
Faculty & Staff
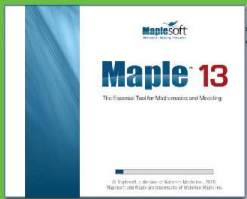
MAPLE 13
WORKSHOP

An activity was conducted by Sir.Asad Iqbal for the students of BSSE F13 B & C. He introduced the students with a software called Maple 13 which is used to solve mathematical problems. He demonstrated the class how they can use this tool to evaluate their integrals, determinants, solve expressions numerically, plot graphs, solve equation sets, etc.
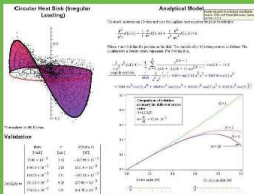
Maple™ 13

The Essential Tool for Mathematics and Modeling

Maple 13 is a software which helps to analyze, explore, visualize, and solve mathematical problems.

With over 5000 functions, Maple offers the breadth, depth, and performance to handle every type of mathematics. Maple's intuitive interface supports multiple styles of interaction, from Clickable Math tools to a sophisticated programming language. Using the smart document environment provided by Maple, we can automatically capture all of the technical knowledge in an electronic form that combines calculations, explanatory text and math, graphics, images, sound, and diagrams.

Maple allows the users to enter mathematics in traditional mathematical notation. Custom user interfaces can also be created. There is support for numeric computations, to arbitrary precision, as well as symbolic computation and visualization.

STATISTICS AND PROBABILITY LAB ACTIVITY

A Special series of lab activities were arranged for the students of BSSE-F14 A & B under the supervision of Ms.Maryam Murtaza.The students were given guidance on using different tools of statistical analysis.

On 15th April, 2015 the first lab session was held and the students were taught to do the following tasks using MS.Excel: Data entry,Mean, Median,Variance,Standard Deviation,Quartiles,Percentiles.The second lab session was held on 13th May,2015 to teach the students the use of Minitab, on 15th May,2015 the third lab session was held and students were taught the use of R Language and on 24th May,2015 the fourth lab session was held and the students were taught to do the different tasks using SPSS.

The students took keen interest in performing all the activities.

Minitab ►

HACKED DETECTED !!!

Two workshops for MS students was arranged on 6th & 20th March 2015 and made open for all the department students . The students were taught some important tools information security which are as follows:

1.Aircrack:

Wireless password cracking tool that is capable of performing dictionary and brute force attack.

2.PGP key generation:

A software for public and private key generation and sharing.

3.HTTrack Website copier

Make complete replica of the website. Download the complete live site to your computer. Analyze Monitor Scripts, Html, and CSS and update as you desire.

4. Cain and Abel

Cain and Abel is a Microsoft's Windows password recovery tool which recovers many kinds of passwords using different methods like network packet sniffing, cracking various password hashes by using methods such as dictionary attacks, brute force and crypt analysis attacks

5.Nessus

Nessus is a security scanner which will audit remotely a given network and find the vulnerabilities and gives solution to those vulnerabilities. This includes different kinds of scans including network scan, scanning live hosts in a network, malware detection in OS and many more. It is most powerful tool and is being widely used worldwide.

6.OpenVas

OpenVas (Open Vulnerability Assessment system) is a framework of tools and services which offers a powerful vulnerability scanning and vulnerability management solution. It finds the vulnerabilities of network and also it finds the vulnerabilities of any live server hosting multiple websites. It also gives solution to vulnerabilities if found.

The students found this series of workshops very interesting and showed their interest and enthusiasm in learning about information security.

VIDEO CONFERENCES

A number of Video Conferences were conducted with the help of Microsoft Student Partners. A list of them is as follows:

Date	Online Video Conferencing Sessions
19th Nov,2014	Unity game development
1st Dec,2014	Introduction to SQL
19th Feb,2015	Introduction to o365
24th Feb, 2015	Microsoft SQL server
25th Feb, 2015	Unity 3D
26th Feb, 2015	Windows phone and Universal Apps
23th Feb, 2015	Office 365
17th Mar, 2015	Universal Application Development
19th Mar, 2015	Universal Application Development
30th Mar, 2015	Entrepreneurship Skills Development
3rd Apr, 2015	SQL server & Databases
17th April,2015	Freelancing Session

SEMINARS

MICROSOFT SQL SERVER 2014 TRAINING SESSIONS

The Session on SQL Server 2014 was arranged with the compulsory course of F-13 Batch by honorable teacher Ms. Asma Batool (Acting Chairperson of DCS &SE) and Ms. Zakia Jalil .

Respected Speaker Mr. Irtaza Ahmed Qureshi Operations Manager of JustEHost Technologies & CodeDigita was asked to deliver his experience and share his knowledge with students about SQL Commands and the application usage in real world. Students who attended the session were already aware about what is database, especially RDBMS; definition and what a computer programming language is and were equipped with programming skills such as making logics using loops etc.

Different comparisons between SQL, MySQL and Oracle were told by the speaker with respect to feature, interface, language support, operating system and licensing. A brief demo was shown about SQL basics and creating databases in SQL Server 2014 when students were following the speaker with every steps and their every query was solved. Then a high level technique LINQ was discussed with its advantages over SQL and its working with Visual Studio. Students were fully active and participated well in the session.

At the end the students were presented with certificate of appreciation for participating in the session and the speaker Mr. Irtaza Ahmed Qureshi was presented a souvenir and a certificate of Appreciation for giving his valuable time to our students and University and sharing his knowledge and experience with us.

DATA WAREHOUSING AND DATA MINING

Department of CS/SE organized a Seminar "Data Warehousing and Data mining " on 8th May,2015 at Fatima Block auditorium, Female campus IIUI.

Head of the Department Asma Batool Naqvi, and Lecturer DCS/SE Zakia Jalil attended this seminar along with their 150 above students.

The honorable speaker Muhammad Imran Saeed was invited to deliver his knowledge and experience in field of Databases and data warehousing.
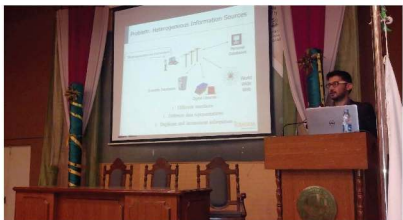
Muhammad Imran Saeed is an Assistant Professor and PhD pursing in Computer science.

He discussed databases and data warehousing, architecture of data warehousing. He also explained the detail process of data mining from data warehousing.

DATA WARE HOUSING USING TERADATA

Department of Computer Science and software engineering organized a seminar " Data Warehousing Using TeraData" on 15th May 2015 at Hazrat Fatima R.A block auditorium, Female campus IIUI.

The respected speaker Qaisar Aftab Kiani delivered his lecture to the audience. He is a graduate from IIUI with 10 years experience in TeraData. Head of the Department Ms.Asma Batool Naqvi, and Lecturer DCS/SE Ms.Zakia Jalil, Ms.Tehmina Amjad attended this seminar.

In the start Mr.Qaisar Aftab guided the students about Teradata , its customers in Telecom field. Later on he discussed Teradata products, their working and scope. He also discussed the logical and physical structure of Teradata. He focused on how Teradata works in data warehousing and data mining.

At the end, their was a question and answer session for an hour. Students participated and asked queries related to certifications, data base administration in Teradata, Internship opportunities in Teradata etc.

ORACLE 11G
SEMINAR

Department of Computer Science and Software engineering arranged a seminar on Oracle databases named 'OCA/ OCP', on 28th May, 2015. Mr. Hayat Khan was the honorable speaker of this seminar, he is Senior Manager Database and applications in PTCL. Mr. Hayat Khan is PhD scholar from Comsats university and have 15 years of experience in the field of Database. This session was totally based on informative and interactive lecture. Head of department, Research associates and honorable lecturers of Department of Computer Science and Software engineering also attended this seminar. The audience was from various semesters of the department.

In start he guided the students who want to step forward in field of Database and students who want to pursue Oracle and Java certifications.

Later on he discussed oracle products and their scope. Deep knowledge of logical and physical structure of oracle databases were given.

At the end, their was a session for installation Oracle 11g and implementation of basic queries used by database administrators. Students were appreciated with a Certificate of Participation.

TRANSACTION AND QUERY PROCESSING

Students from Batch F12 of Department of Computer Science & Software Engineering Organized a seminar on "Transaction & Query Processing" on 7th April'2015 in Auditorium, Fatima Block, Female Campus, IIUI. Dr. Ejaz Ahmed, Assistant Professor at FAST, NUCES Islamabad was the speaker at seminar.

Seminar was held under Supervision of Ms.Noshina Tariq, Course Instructor of Course: Database Technologies of Batch F12 and seniors.

The seminar covered concepts regarding Transaction and query processing. It also covered concurrent query execution, its problems and recovery mechanisms. Students actively took part in discussions and learned the concepts.

DISTRIBUTED DATABASES SEMINAR

A compulsory seminar was arranged on May 22, 2015 for the students of BSSE & BSCS F-13 Batch under the supervision of Ms.Zakia Jalil and Ms.Asma Batool.

Ms.Tehmina Amjad was invited as the guest speaker. She gave the students a basic overview of the topic and cleared their concepts about the distributed databases and how they work.

The session was arranged in the auditorium of Hazrat Fatima R.A Block on Friday.

This was an introductory session for the students to learn about the distributed databases. They will be learning the details about this topic in the upcoming semesters when they take this course.

The students took a lot of interest in learning how the databases are managed and queries are processed.

The session was very interactive and informative.

LAWS OF INTELLECTUAL PROPERTY

A seminar was conducted by the students of BSSE F12 A and B in collaboration with Ms.Humaira and the department of computer science and software engineering on 9th of April, 2015 in the Lecture Theater, Maryam Block.

The topic of seminar was Laws of Intellectual Property and Ms.Umal khair Fatima was the guest speaker.She is an Advocate in District Court Rawalpindi. She did her LLB from International Islamic University and graduated in 2014 with a gold medal. She is currently doing her LLM from International Islamic University . She delivered a lecture related to the Intellectual Property, conditions and limitations of copy right, Trade mark and taxation of software products.

The students actively participated and the answer to the queries of audience was given by our guest speaker.

NP COMPLETENESS
PROBLEMS

Department of Computer Science and Software Engineering (female) of International
Islamic University Islamabad (IIUI) organized a seminar for the students taking
"Analysis of Algorithm" on 12th May 2015 (Tuesday). The seminar was in Auditorium in Fatima block.
This seminar was organized by Ms.Sadia Arshid . Guest speaker of seminar was Dr.Ayyaz Hussain.
The purpose of seminar was to gain more knowledge about topic "NP Completeness Problems". The
speaker discusses this topic in detail.

The speaker was well experienced. He delivered the material in very friendly way. He
had great knowledge about algorithm and their problems. He delivered detailed
knowledge of NP Completeness Problems, Clique Problems, reduction, Vertex Cover
Problem and Decision Problem. Main point about these problems was that algorithm is
not developed yet; research work is still in progress. He told us that NP problems are
reduceable or inconvertible. If any NPC problem is solved, then it is easy to solve rest of
the problems as it reduces problem solution.

The students took keen interest in this seminar as a content delivered in seminar was part of their course.
At the end, there was Questions /Answers session in which students got the solutions for
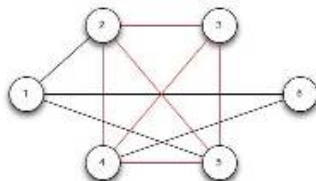their problems . It was also helpful for rest of the audience.

FUTURE OF DATA CENTERS

A special session was conducted for the course of "Computer Architecture and Assembly language" under the supervision of Mr.Farhan Khan for BS Mise batch.

The seminar took place in the Central Library, Video Conference Hall.

A speaker from 3W Networks, Mr.Mubashir Ahsan delivered a lecture on the future of Data Centers.

This was a very interactive session and students eagerly participated in this session and gained a lot of knowledge & professional tips and advises.

SEMINAR ON

FUTURE OF DATA CENTRES

23rd APRIL, 2015

SPEAKER: MUBASHIR AHSAN
CCIE – SERVICE PROVIDER
CCIE – DATA CENTER

ORGANIZATION : 3W NETWORKS

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VIDEO CONFERENCE HALL

INTERNATIONAL ISLAMIC
UNIVERSITY, ISLAMABAD

3w NETWORKS

WHAT IF SINS BECOME A NECESSITY???

This seminar was held on 10th March 2015 on Tuesday in Auditorium of Hazrat Fatima R.A Block by BSSE F11B.

Dr. Kanwal kaisser, a doctor (Child Specialist) by profession but a great humanitarian. She explained how 1400 years ago Nazar bin Haris travelled to Persia which was the super power of that time and got fascinated by a singing woman and brought singing instruments to Arabia to grow business to spread social gatherings. She discussed the current society trends like having tattoos on different parts of body,effects to be admired by others, juicy discussions, gossiping and backbiting about friends and relatives which are the bad factors of our society.

She emphasized that we want to be in to these things due to Peer pressure, Self-steam ,Relationships, to Compete with each other and any other reasons.In her conclusion she starts with beautiful Quote:

"Be in, But be in Sunnah way".

She explained how we can be acceptable members of the society and not be a part of any kind of Sin.

After that, Mr,Raju Zia ul Haq,President/CEO of Youth Club, a prominent motivational speaker, life coach & "spiritual cardiologist" from Islamabad came along and He covered the following topics:

1. What if Sins become a necessity

2. Indeed I was wrong

And further described that you can't even know about your strength until something bad happen to you or until you come out of your shell. ALLAH had made life and death to check you out that are you a true believer. And in all these situation you have to adopt two states, Sabar and Shaukar.

1. Good happens to you Do Shukar

2. Bad happens to you Do Sabar and Astaghfar

He gave many example from the past specifically about "Hassan Basri" to relate with the current situation. And gave references from the Surah Nuh(verse"10-12)and Surah Al-Baqrah(verse"2:35)

And After finishing their lectures speakers were awarded with shields by Sir Imran Saeed,and in the end the speakers and most respected faculty was delighted by a High Tea.
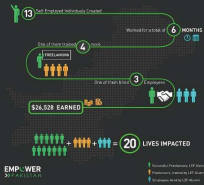
SPEAKER:
SAJID SHAH

CHIEF EXECUTIVE
EMPOWER PAKISTAN

WOMEN EMPOWERMENT SEMINAR

According to Pakistan Bureau of Statistics, 47% female population of Pakistan is educated, but only 5% of the formal labor force is women.

Societal biases, cultural restraints, religious limitations & gender discrimination are the main reasons of extremely high unemployment rates for 'educated' females in Pakistan. Our women are educated, yet unemployed.

"LEARN TO EARN THROUGH FREELANCING"

An interative session was arranged by Ms.Tehmina Amjad on May 11, 2015 in Fatima Block Auditorium in collaboration with Empower Pakistan.

Empower Pakistan brings a very unique solution to women unemployment problem, i.e work from home opportunities, Where they will train educated and skillful women resource, to start working for their own through the internet & become economically active members of the society.

Students from all batches attended this seminar. The seminar provided an introduction to freelancing and motivated the female students to work from home to eliminate their problems.

MATHEMATICS
IN DAILY LIFE

A speaker session was arranged by Ms.Sehrish Hassan Shigri for BSSE F13 (A) & BSCS F13 (A+B) students of "Multivariate Calculus".The session was arranged on May 18, 2015.

Ms.Sehrish, herself gave a very informative lecture to the students about the use of Mathematics in every day life.The topics included : Commercial Mathematics, Algebra, Statistics, Calculus,Differential equations, Geometry,Mechanics,etc.

The students enjoyed this activity and learned about many different fields in which Mathematics is being used practically on a daily basis.

APPLICATION OF MATHEMATICS IN DAILY LIFE

GRAPHS & THEIR APPLICATIONS

DCS&SE organized a seminar for the students of F14 Batch taking the course "DISCRETE STRUCTURES" on 15th May 2015 (Friday).

The Seminar was held in room * 002 in Maryam Block.

This seminar was organized by Ms Sabeen Masood & Ms Maria Ashraf. Guest speaker of seminar was Ms Farzana. She is currently a faculty member of MIU.

The purpose of seminar was to discuss applications of Graphs. The speaker discusses this topic in detail. As it was for the first year student so the speaker started with the basic of graphs and explain in detail the applications of graph in different fields of life.

The speaker was well experienced. She delivered the material in a very friendly way. She delivered detailed knowledge of graph theory.

At the end, there was Questions /Answers session in which students got the solutions for their problems. It was also helpful for rest of the audience.
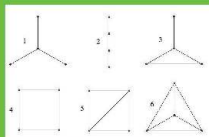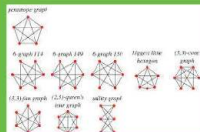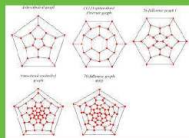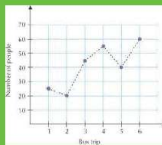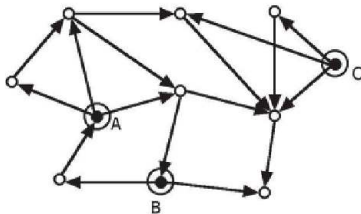
SOFTWARE DESIGN & ARCHITECTURE IN PRACTICE

Students from Batch F12-(B) of Department of Computer Science & Software Engineering Organized a session on "Software Design & Architecture in Practice" on 4th May, 2015 in Lecture Theatre, Department of Computer Science & Software Engineering, Female Campus, IIUI.

Seminar was held under Supervision of Ms. Iqra Basharat, Course Instructor of Course: Software Design & Architecture of Batch F12-(B). It was mandatory for all students of F12-(B) to be present at the seminar.

Mr. Wajaahat Raza, Development Lead of core development team in LMKR GeoGraphix, delivered the session.

MY NAME IS OPPORTUNITY

An activity based to interest students of the Fraj Batch. Mr. Talha Ashraf bin Zahoor Maqsood called as the guest speaker for this activity. This was a Confidence building seminar for the young students.

Confidence is a real you can use in your everyday life to do all kinds of cool stuff, and not to say more is guessing yourself, manage your fears and become able to do more of the things that really matter to you.

But not many people realize that their self-confidence works just like a muscle – it grows in response to the level of performance required of it. Either you use it or you lose it.

The theme won't be your level, and this seminar consisted of the following activities:

1- Network based introduction

2- Choose your personality

3- Life cycle

4- Golden circle

5- Power Walk

There were around 50 students and 5 faculty members who attended this interactive seminar. The details of some of the activities conducted during the seminar are as follows:

Activity Number 1:

Ball of crickets thrown towards every student. The crickets was spread throughout the room. Every student has to tell the first thing that came in their mind related to IBA.

Purpose:

To tell the students that they themselves make the environment of university and they have to be responsible for their acts. They should own their university.

Activity Number 2:

Fill the questionnaires provided by the speaker. They are listed at the end of the document. While answering each question they can take help from their fellow partners.

Purpose:

To use potential of students during their task.

Activity Number 3:

Make sketch of yourself and write 5 good qualities and 5 bad qualities.

Purpose:

To know about your self. Know about your personality. Know about your weak and good areas and how to improve weak areas.

SOFTWARE TESTING
WHY & HOW???

A seminar was arranged on May 15, 2015 under the supervision of Ms.Bushra Sharif as a course activity of the subject "Software Engineering-1".

Mr.Muhammad Nabeel, the Senior Executive IT of Ufone was invited as the guest speaker. He has done his MS Software Engineering (CASE) and Specialization in Software Quality Control.

The students of BSSE Misc A were the audience.

The speaker covered the following topics:

1. Software Quality Concepts/Quality Dimensions
2. Software Testing Techniques
3. Usability Testing Guidelines
4. Defect Tracking
5. Test Case development and execution plan
6. Testing Automation Tools
7. Automated Performance Testing using JMeter

This was a very interactive session and the students actively participated and asked a lot of questions and gave their opinions about improving the current industry practices of Software Testing.

The students and guests were entertained with a few refreshments in the end.

SYSTEM TESTING IN SOFTWARE ENGINEERING

A seminar on "System Testing " was organized by Ms.Farzana Naheed for the students of BSSE Misc B as a course activity for "Software Engineering-1".

Dr. Tamim Ahmed Khan, Head of Department (Department of Computers and Software Engineering) from Bahria University,Islamabad was invited as the guest speaker.

The speaker explained in detail the testing techniques and also explained with example how to develop Test Cases.

The students were told about the importance of System Testing and given practical advice on making good Test Cases.

ARE YOU CYBER SECURE?

A seminar "Are you Cyber Secure" was organized by BSSE F11 batch of Department of Computer Science and Software Engineering on 4th May'2015, under supervision of Mr. Muhammad Atif Husain, course instructor of "Professional Practices and Ethics" of batch F11. The seminar was sponsored by Hanif Rajput Catering Services.

Mr. Anwar Amjad, Director General IT (HEC), was the honorable chief guest. Whereas, Mr. Aamir Bashir (Web developer, Graphic Designer, Project Lead XTRANZA Pakistan), Mr. Muhammad Usman (Information Security Engineer, Certified Ethical Hacker, Certified Penetration Tester at TRANCHULAS), Mr. ZunNurain Khalid (CEO at UltraSpectra / Cyber Secure)and Mr. Talha Habib (Information Security Expert at UltraSpectra / Cyber Secure) were invited as the guest speakers. Mr. Fayyaz Ahmed (representative of HR catering Services) also joined the seminar.

A great number of students from Department of Computer Science and Software Engineering attended the seminar. Students from other faculties including Faculty of Basic and Applied Sciences, Faculty of Management Sciences, Faculty of Shariah and Law and Faculty of Social Sciences also joined the audience. The topics "Protect your Privacy", "Cyber security", "Views in against/favor of security" and "Are you cyber secure?" were covered by Mr. Talha Habib and Mr. ZunNurain Khalid, Mr. Muhammad Usman, Mr. Anwar Amjad , Mr. Aamir Bashir, Respectively.

The guest speakers concluded the seminar by expressing views regarding importance of Cyber Security today and in future. Mr. Fayyaz Ahmed ended the seminar with appreciation regarding the efforts of students & department, and advised regarding careful use of social media.

CAREER MANAGEMENT
SEMINAR

Career management is the process through which one can:

- Become aware of their own interest, values, strength, and weaknesses
- Obtain information about job opportunities within the company
- Identify career goals
- Establish action plans to achieve career goals
- To get to know your Professional excellence.

A seminar was arranged by Ms.Madeeha Hameed about Career Management for the students of BSCS F12 & F13. Two guest speakers, Mr.Raja Zia ul Haq and Ibraheem Ahmed, were called. The speakers came from different backgrounds and presented the audience with different practical experiences, insights, and views, both at an organizational and national level.

The seminar equips students with a standard set of career management skills that can be used in any future career search process, using self-assessment and market research tools to identify your goal(s), developing an effective resume and cover letter, professional networking and interviewing skills, and job search ethics and etiquette. The session emphasized on how to get a proactive job search process and teaches students how to leverage skills for future career moves.

ETHICAL HACKING SEMINAR SERIES

A series of seminars were arranged by Ms.Shafina & Ms.Ummarah for the students of F13 Batch on 25,27,28 May 2015 for the course of "Operating Systems".

Mr.Abdullah Abid, an information security specialist explained the students about the Elements of Information Security, Ethical Hacking : its importance and the concept of Penetration Testing,Kali linux installation, usage guidelines and metaexploit framework, usage for hacking a remote machine on the network, and exploiting the vulnerabilities of XP operating system.

He raised the importance of the subject of information security and encouraged students to explore this field.

He advised strictly to use the hacking skills for good purposes and encouraged the students to join the world of White Collar Hacking.

SPRING CARNIVAL '15

Our brilliant student, Minahil Sherazi , Batch F12 from the Department participated in Painting Competition and Fresh Flower Arrangements Competition in Spring Carnival

2015, Held at the University.

She got the following positions:

- Position: 2nd

   Competition: Painting

   Theme: "peace"

- Position: 3rd

   Competition: Fresh Flower Arrangement

FUNFAIR BY BSCS-F11

DCS&SE Students of BSCS-F11 organized a Fun Fair as an co-curricular activity for the students on March 12, 2015. Fun fair was arranged in the basement of Hazrat Maryam Block. The purpose of this activity was to freshen up students from the hectic routine of studies and take their minds into a little entertainment.

The fun fair was focused around food stalls, games, hand-made cards, jewellery and other things to buy.

Food stalls included Gol Gappy, Chicken Tikka, Chicken Biryani, Bakery Items, cupcakes, apple pie, macaroni,Russian salad etc.

Other stalls included handmade Jewellery "Funky Creations",cards, make-up accessories,Scarfs, bags etc. There were Mehndi & Face Painting stalls too.

All the faculty teachers were invited. Teachers from DCS&SE visited the stalls, expressed their good emotions towards student's efforts, and appreciated the students by buying food items and other things.

The teachers and students from other different departments also attended the fun fair .Organizer students earned profit from the stalls. After successful fun fair students were very happy and expressed their feelings as they really enjoyed the event. They got motivation for arranging such events in future.

Ms.Sadia Arshid was the head of this event and it was organized under her supervision.

After seeing the positive results of fun fair Department is willing to hold such events in future with more enthusiasm and zest.

THE SPRING FLING EVENT BY F13 BATCH

"SPRING IS NATURE'S WAY OF SAYING, 'LET'S PARTY!'"

Over a hundred and fifty students from the Department of Computer Science and Software Engineering stepped away from their tired and busy daily routine last Friday, 10th April 2015 to take part in the distinctive event planned by the F13 Batch to celebrate the spirit of the beautiful season of spring. The F13 Batch took the above saying serious and with the help of the Student Advisors Ms.Asma Sajjad and Ms.Shaista Rashid, sought out to plan an event for the students to enjoy and celebrate the season of colors, joys, happiness and beauty.

The event started at 10am in the Lecture Theatre where the students and faculty members along with our honorable chairperson Ms. Asma Batool as chief guest were welcomed .

The event consisted of three distinctive activities which were:

1. Mehndi Competition
2. Hair Styling Competition
3. Short Theatrical Plays
4. Food and Games Stalls

Everyone enjoyed the food and played minute to win it games and won instant prizes. All the participants will be given certificates and prizes very soon in a special prize distribution ceremony.

By the grace of Allah, the whole event was a complete success. It was appreciated by the students as well as the faculty members. Everyone agreed that such events should be planned more often so the students can get a chance to take a little break from their tough routines and relax and enjoy along with their fellows.

Spring is one of the four conventional temperate seasons, following winter and preceding summer. When all the world appears to be in a turmoil, and nature itself is feeling the assault of climate change, the seasons retain their essential rhythm. Yes, fall gives us a forewarning of winter,

but then, winter, will be forced to surrender, once again, to the new beginnings of soft greens, longer light, and the sweet air of spring.

DIYATECH INTERVIEW TEST

A written test for the students of graduating batch of DCS & SE was conducted by Mahrul Aziz and Minahil Sherazi from BSSE-F12 in collaboration with the rest of the batch, **Diyatech** and DCS&SE faculty members.

Diyatech is solutions focused company, committed to delivering creative and challenging software solutions. Their goal is to build positive relationships, add value, and provide highest quality of work to their customers in order to lead in providing technology solutions and web development services, all at very affordable cost. They endeavor to create a friendly and growth oriented environment for their employees, where there is plenty of challenge to stimulate their intellect while work

environment is full of enjoyment and fun.

Ms. Tayyaba Tariq (HR representative) from Diyatech along with her colleagues came for the invigilation of the test, and there were above 60 highly talented and motivated students from the graduating batch of BS software engineering and computer science who took this test.

Masters and Ph.D. Students' Activities

EndNote

A session was held by Sir.Asim to introduce the students with the uses of EndNote.

It is the industry standard software tool for publishing and managing bibliographies, citations and references on the Windows and Macintosh desktop.

He guided the students to manage the references of Research papers during their thesis work.

Thesis Meeting

A "Thesis Meeting" was held on April 22, 2015 for the MS and Ph.D students in which Dr.Muhammad Sher, Dean of FBAS told the students about the 'Basics of Research Work'.

The students were given guidance on how to do their thesis and select out their topic in their specific fields.

The students were also given information about the duration of the whole research work and how can they complete their research work on time

Reference Management Meeting

A "Reference Management Meeting" conducted by 'Ms. Tehmina Amjad' on May 5, 2015.

She guided the students to manage the references of Research papers during their thesis work.

She gave practical demonstration of installation of Zotero Software and MS word Plugin. This meeting gave the student best directions for managing references during their thesis work.

How to find a research topic ?

A session was conducted by Ms.Tehmina Amjad for the MS students of Computer science and software engineering. The purpose of the session was to guide the students about finding their research topics.

Ms. Tehmina also gave a brief introduction of her own research topic that she conducted during her PhD. The session was helpful for students in identifying a research question in their own field of interest.

Dua Sessions

In this whole semester "Dua sessions" were organized by MS students of the department on every Friday of the week. In these sessions the speakers recited some verses of the Holy Quran and then explained the importance of these verses to the audience.

The speakers also guided the students in solving their daily life problems and implementing the teaching of Quran and Sunnah in their lives.

Some Achievements Outside Campus...

IIUI STUDENTS SHINE IN PTA MOBILE APP AWARDS

2 brilliant young ladies from DCS & SE students have clinched *1stposition in "Pakistan Mobile App Awards 2015" for developing the "Pre-School Champs Mobile Application" in a competition organized by "The Pakistan Telecommunication Authority (PTA)", Islamabad.

Rabia Jabbar and Humna Shaheen were conferred awards and cash prizes by PTA in a ceremony which was also attended by IIUI Rector Dr. Masoom Yasinzai.

Federal Minister of state for IT and Telecom Ms. Anusha Rahman presented the awards to the winners of the competition.

Dr. Masoom felicitated the students while adding that the university is proud of the winners as they brought fame to the institution by showcasing their exceptional talent.

-The Daily Times

GOLF CHAMPION: SPE&PAPG WOMEN GOLF TOURNAMENT

Komal Baig, a student of BSCSF14-B participated in the SPE and PAPG Islamabad Golf Tournament organized by SPE and PAPG (Society of Petroleum Engineers and Pakistan Association of Petroleum Geoscientists) on 18th April 2015. The tournament was for young ladies of under 20 age group and after a tough competition Komal got the *1stposition and was awarded a trophy.

The students of DCS&SE are highly talented individuals which are eager to show their abilities everywhere.

"**APTRONIX'15**" was a national event and joint venture of GCU-ACM Student Chapter, GCU-IEEE Branch, Google Student Ambassador and Microsoft Student Partner; held at GCU (Government College University) Lahore on **28th, 29th and 30th of April 2015.**

The event included competitions of technology and arts, hosted at the university campus along with Microsoft & Google tech talks, seminars and workshops for 3-days.
How can it be that such a great event is happening in the country and we don't participate?

So, 9 students of **Batch F12** went straight to Lahore to show the folks there what we are capable of. They participated in different competitions along with Tech Talks and workshops, and represented IIUI at the event. Our most brilliant student **Minahil Sherazi** won the **2nd prize** in **Painting competition** on the theme '*Sab Keh Do'* and the amazing duo of **Mehwish Afzal & Sidra Khan** snatched the **1st prize** in '*Minute-to-win-it* competition'.

Participants: Minahil Sherazi , Mehwish Afzal , Sidra Khan , Momina Maqbool , Hajra Khan , Izza Saman, Rabiya Jalil and Sundas Shahid

HOUR OF CODE

The students at the Department of Computer Sciences & Software Engineering are highly enthusiastic about their field and want to raise awareness in the children of today about the world of Computer Sciences.

Our Microsoft Student Partners Minahil Sherazi, Areeba Azhar Usmani and Uroosa Manzoor organized three "Hour of Code" sessions in different schools, i.e. "The Apple's Grooming School", "Army Public School FWO Campus,Rawalpindi" and "Government Girls High School Hassan Abdal".
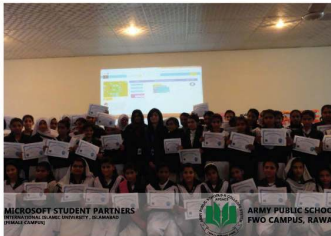
In these sessions, the students were taught all the basic concepts of 'How to Code and the Use of Technology in the world of today.'

Every Student was given a chance to create a logic and write a code on Computers.

Moreover, they were provided with Microsoft Virtual Academy website and some guides and tutorials to practice. The tutorials included Angry bird, Frozen, Flappy Bird, etc.

This activity was conducted at three different schools and the children at all those three schools loved it and took keen interest in every word they were told.

The children were awarded with certificates and their happiness was on cloud nine.