



Vol.IX, No.2

Capital University of Science and Technology Islamabad

NEWSLETTER



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ExclTe Cup-2018

Department of Computer Science, Capital University of Science and Technology, Islamabad organized its annual national mega event, ExclTe Cup, on April 28, 2018. This year the event offered 9 competitions including E-Gaming, App-Thon, Programming Competition, Poster Designing Competition, Software Exhibition, Scavenger Hunt, Table Tennis, IT-Mushaira, and IT Quiz. It was the 6th episode of the ExclTe Cup. Around 101 teams and more than 253 participants from different universities from all over the country participated in different events.

The colorful event was inaugurated by honorable chief guest, Dr. Shimail Daud Arain; the Vice-Chancellor of C.U.S.T., Prof. Dr. M. Mansoor Ahmad; Dean Faculty of Computing, Prof. Dr. Abdul Qadir; and Head of Computer Science Department,

Professor and Convener of the Event embraced and obliged the participant teams of various universities.

In the closing ceremony, the Chief Guest, Mr. Haroon Kanth, Country Head, Teradata, Islamabad joined the stage and shared his precious words with the attendees. He thanked



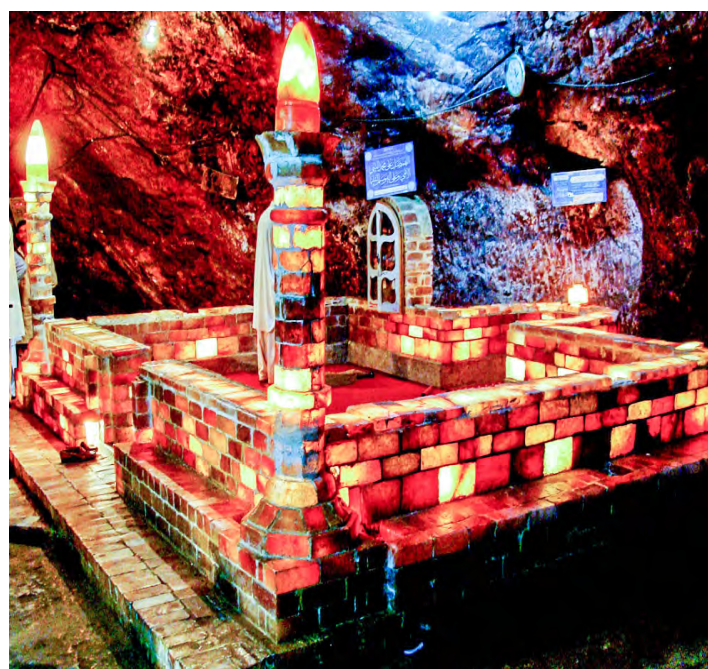
for inviting him on this occasion. After his speech, Prof. Dr. Muhammad Abdul Qadir, Dean Faculty of Computing; Head of CS Department, Prof. Dr. Nayyer Masood; and the honorable Chief Guest presented the shields to all the judges of different competitions, and to all the organizers who worked hard for this event. The winning participants of different universities were presented with shields, prize money and certificates. Prof. Dr. Abdul Qadir presented the shield to the Chief Guest, Mr. Haroon Kanth. Finally, the colorful and buoyant event reached to its end by serving High Tea.



Prof. Dr. Nayyer Masood. Ceremony started with the recitation of verses from the Holy Quran. Dr. Tanvir Afzal, the Associate

A Trip to Salt Mine

At the end of Fall 2017, the Department of Computer Science, Capital University of Science and Technology, Islamabad arranged the faculty trip as an acknowledgment of the hard work of faculty members. The faculty members gathered at the pick-up point, university campus, at 09:00 am and headed towards Khewra Salt Mines at 09:30. All the members relished the journey by singing songs and playing other road-trip games. Finally, they reached the destination at 11:00 am. They entered the salt mines through a train. There were alluring pieces of art purely built using salt. Everyone cherished the beauty and bought the stuff as to have a memory of the place. Then they had lunch at 03:00 pm. Since it was a trip, so faculty had a chance to have informal dialogues. Then the returned journey started at 05:00 pm. That journey became one of the mesmerizing trips for all the joiners.



UNESCO Science Programs in the Context of Pakistan's Water Issue

A seminar on “UNESCO Science Programs in the Context of Pakistan's Water Issue” was organized by Department of Management Sciences in collaboration with the Office of Research Innovation and Commercialization (ORIC). The guest speaker of the seminar was Prof. Dr. Shahbaz Khan, Director and Representative UNESCO Regional Science Bureau for Asia and the Pacific. Dean Management Sciences, Dean Engineering, and HoD Management Sciences welcomed the guest speaker to Capital University of Science and Technology, Islamabad.

The presentation by Prof. Dr. Shahbaz Khan covered the introduction of UNESCO and its evaluation since 1945. He focused on the UN Strategic Development Goal (SDG) number 06 in the context of Pakistan, which is clean water and sanitation. He also proposed trans disciplinary water research sustainable for Pakistan. After the presentation, there was a detailed question-answer session in which the audience put forward their queries and suggestions to the guest speaker.

Prof. Dr. Shahbaz Khan also had a brief meeting with the Vice Chancellor Capital University of Science and Technology who presented University memento to the guest speaker and thanked him for his visit to Capital University of Science and Technology, Islamabad.



Lecture on Integrating Indoor Air Quality and Energy Efficiency in Buildings

C.U.S.T. American Society of Heating, Refrigerating and Air-Conditioning Engineers, ASHRAE Student Branch organized a lecture on “Integrating Indoor Air Quality and Energy Efficiency in Buildings” delivered by Dr. William P. Bahnfleth on May 11, 2018. The lecture was arranged in collaboration with ASHRAE

researcher and educator. Dr. Bahnfleth was ASHRAE President for the term 2013-14. The guest speaker was accompanied by ASHRAE senior executives and industry leaders, Mr. Farooq Mehboob, Mr. Akbar Zaheer, Mr. Mohammad Abbas Sajid, Mr. Khurram Malik, and Mr. Ather N. Siddiqui. ASHRAE NP President Mr. Ahmed Nawaz also joined.

Dr. Bahnfleth started his lecture by introducing the importance of Indoor Air Quality (IAQ) in the buildings. He discussed various standards and techniques used to maintain and enhance indoor quality with the help of results from his research projects. He discussed that energy efficiency is the top priority in the installation of building systems. In the end, Dr. Saif ur Rahman HoD (ME) appreciated ASHARE for providing C.U.S.T. the opportunity of this lecture under DL program. He thanked the speaker for such a valuable lecture and sharing information. Mr. Ather Siddiqui presented three plants to C.U.S.T. as a gift to remind the ASHRAE's commitment toward the clean, green and safe environment.



Northern Pakistan Chapter under ASHRAE Distinguished Lecturers (DL) Program.

Dr. William P. Bahnfleth is a Professor and Director of the Indoor Environment Center at The Pennsylvania State University in the USA. He holds a doctorate in Mechanical Engineering from the University of Illinois at Urbana-Champaign. He has more than 30 years of experience as a consulting engineer,



National Police Summit & Expo-2018

A group of 60 students went for attending “National Police Summit & Expo 2018” organized by HEC in collaboration with Islamabad Traffic Police at Jinnah Convention Centre, Islamabad. Minister for interior Prof. Ahsan Iqbal was the chief guest in that event. The Police Department of all provinces including Azad Jammu & Kashmir and Railway Police showcased their latest weapons and equipment. This event showcased projects from students of public and private sector Universities/ Higher Education Institutions of Pakistan on technological ideas for innovating Police Department processes. The expo would be a valuable opportunity for exposure to technological solutions for social problems



Visit of Punjab College Students

Students of Punjab College along with their teachers visited Capital University of Science & Technology on April 14, 2018. The objective of this visit was to make those students familiar with the education system and the building of the

university. They were also informed about all those perks that they can enjoy there being the students of Punjab Group of Colleges, especially the scholarships. They were taken to the different departments and their labs as well. They really enjoyed and appreciated the conducive learning environment of C.U.S.T. It was a memorable trip for them.



Antibiotic Resistance to Bacteria Isolated from Water Stream

A seminar on “Antibiotic Resistance to Bacteria Isolated from Water Stream” was organized by the Department of Biosciences, Faculty of Health and Life Sciences. Capital University of Science and Technology, Islamabad on April 15, 2018. It was held under the supervision of Dr. Shaukat Iqbal Malik.

The lecture was delivered by Dr. Muhammad Arshad from Institute of Environmental Sciences and

Engineering (IESE), NUST Islamabad. Starting from the very introduction of the topic, Dr. Muhammad Arshad gave an overview of what antibiotic resistance to bacteria isolated from water stream is and how it is useful in our daily life. He told the participants that antibiotic resistance to bacteria isolated from water stream issued for purifying water and also gives treatment for different diseases. In the end, he concluded the whole seminar in the discussion session. Finally, the HoD Biosciences, Dr. Sahar Fazal presented the souvenir to the guest speaker. Then lunch was served to the guest speaker and the faculty members in the staff room.

End TB Awareness Symposium

A seminar on “End TB Awareness Symposium” was organized by the Department of Biosciences, Capital University of Science and Technology, Islamabad on April 12, 2018. Dr. Shaukat Iqbal Malik supervised the event. Dr. Sajid Ali, Molecular Biologist, Provincial Tuberculosis Reference Lab KPK (PTRL) was invited as the guest speaker.

Dr. Sajid Ali gave an overview of TB and its causes. He shared that Tuberculosis (TB) is a disease caused by bacteria called *Mycobacterium tuberculosis*. The bacteria usually attack the lungs, but they can also damage other parts of the body. He told the participants about the symptoms and the treatment of the TB. Then he discussed the precautionary measures to control TB. Finally, the souvenir was presented to the guest speaker by the HoD of Biosciences, Dr. Sahar Fazal and by Dr. Shaukat Iqbal and high-tea was served to the guest speaker and the faculty members.



Seminar on TMV: An Excellent Natural Biotemplate for Nanoscale Assemblies

A seminar on “TMV: An Excellent Natural Biotemplate for Nanoscale Development” was organized by the Department of Biosciences, C.U.S.T. on March 05, 2018 under the supervision of Dr. Erum Dilshad. The lecture was delivered by Dr. Abid Ali Khan, Assistant Professor, Department of Biosciences, COMSATS Institute of Information Technology, Islamabad.

Dr. Abid Ali Khan shared what TMV is and how it is useful for nanoparticle synthesis. He told that TMV is used for targeted drug delivery. Then he discussed its beneficial aspects that it is not harmful to human as it is a plant virus. In the end, he concluded the whole seminar in the discussion

session. The souvenir was presented to the guest speaker by the HoD Biosciences Dr. Aamer Nadeem. This session proved to be very useful for the students of Biosciences.



Seminar on A Path to Career: From University to Industry

Software Engineering Program organized a seminar on “A Path to Career: From University to Industry” on May 16, 2018. The seminar was held under the supervision of Mr. Shahzad Rafique. The core objective of the activity was to introduce SE and CS students to the industrial trends, career paths for the novice, technologies in demand, and domains that could be potential areas to work in future. This was the first seminar in this series and the guest speaker was a well-known personality nationwide with extensive industrial experience and is pioneer team member of JUMP Start Pakistan. The respected speaker stressed students to focus on presenting their skills set in an effective manner. He further extended to focusing on learning technologies

such as NET Framework and J2EE Framework for enterprise solution development. Careful Final year project selection and engineering can potentially lead students to such an extent that they can market their projects. Team work is the spirit of software industry. Working in effective teams and learning team harmony is quite important aspect of software industry. In the end of seminar, Dr. Tanvir Afzal, Associate Professor, Software Engineering Department presented souvenir to the guest.





Seminar on Me and the Universe

Students of Technical Report Writing course, Department of Biosciences organized a seminar on “Me and the Universe” under the supervision of Ms. Humera Aftab on March 15, 2018.

Mr. Khurram Ilahi was invited as guest speaker. He is a student of Ph.D. in Human Resource Management at Iqra University and Alumni of C.U.S.T.

He discussed briefly how Islam teaches us to treat our mother planet with courtesy and that this land is a blessing for the mankind from our Lord. There are so many things for us to learn from our universe and to explore as well. Once the lecture was over, there was a question and answer session, students asked their questions to clear their confusions. In the

end, the guest speaker was presented with a souvenir by Ms. Humera Aftab.



Win If You Can

The event “Win If You Can” was organized by Genix, Society, Department of Biosciences, C.U.S.T. on May 7, 2018, under the supervision of Dr. Erum Dilshad, Patron Genix Society. The event provided an opportunity to various departments of the university to participate. The number of teams that participated in the event was 15.

There were three levels of the game. Different activities were to perform at each level. The team completing the task first was declared the winner. For the concluding ceremony, respected faculty members were invited. Prize money and certificates were distributed among winners and participants by the faculty members.

organizers and participants. Ms. Nosheen, a student of PhD Electrical Engineering Department was declared the winner among all the participants who was given shield by Ms. Humera Aftab.



International Women Day Celebration

WIE Chapter IEEE C.U.S.T. Student Branch in collaboration with JSPark organized a non-technical event “Women Day Celebration Speech Competition” under the supervision of Mr. Qazi Abdul Moqueet, on March 13, 2018. The judge of the speech competition was Ms. Humera Aftab, Assistant Professor, Department of Computer Science, CUST. Ms. Kainat Bukhari, a student of the Department of Electrical Engineering hosted the event. The program started with the recitation of Holy Quran by Ms. Iqra, followed by the speeches. The speakers threw light on the hardships being faced by women of our society and also enlightened the achievements. The audience were invited to share some personal experiences which were really great. The main purpose of the event was to celebrate women’s achievements – from the political to the social – while calling for gender equality. Also, to throw light on the hardships being faced by women of our society. The event came to its end by the certificate distribution among the

Honor for Department of Civil Engineering

Engr. Dr. Majid Ali, Department of Civil Engineering, has been awarded “Certificate of Outstanding Contribution in Reviewing” in recognition of the contributions made to the quality of the journal “Construction and Building Materials” published by “Elsevier, Amsterdam. The Netherlands”. The journal has an ISI impact factor of 3.169. Recently, Dr. Majid has also attained the number of 50 publications including 14 ISI impact factor journal papers (having a cumulative impact factor of 40+), 3 SCIMAGO impact factor journal papers and 2 other international journal papers. In these 50 publications, he has an average per paper contribution of ~65%.



Seminar on Sustainable Building Standard

A seminar was conducted in Civil Engineering Department, Capital University of Science and Technology, Islamabad on April 02, 2018. The Society of Engineer's Forum played a significant role in ensuring the participation of students in this seminar. The target audience was students of Civil Engineering. The guest lecturer was Mr. Muhammad Shoaib who serves as the Sustainability and Project Management Consultant, Ambassador Present International Living Building Future WELL AP, LEED Green Associate, and Building Performance Analyst. Mr. Muhammad Shoaib delivered a very well-structured lecture which covered and highlighted various aspects of sustainable building standards and green building

technologies. In the end, a souvenir was presented to Mr. Muhammad Shoaib by Dr. Syed Shujaa Safdar Gardezi, Assistant Professor, Civil Engineering Department, Capital University of Science and Technology, Islamabad.



Counseling Session, CE Department

Student counseling is an important aspect to be kept in mind in university education. During the undergraduate studies, the students may face life challenges such as stress, academic difficulties, personal issues, etc. If such issues are dealt with appropriately, they can facilitate emotional growth, studies and maturity of the students. A counseling session for Civil Engineering students (New comers) of C.U.S.T. was arranged on March 20, 2018. Head of the Department, Dr. Ishtiaq Hassan delivered the lecture and interacted with students regarding their issues and counseling.

Furthermore, Mr. Muhammad Usman Farooqi also motivated the students for participating in extra and co-curricular activities. Certificates of appreciation were also distributed among various students for outstanding performance in extracurricular activities.

Accreditation of Signatory Status of Washington Accord (WA) by C.U.S.T.

Pakistan has become a full signatory of WA- a highest prestigious global standard on engineering education and accreditation system. The membership grants substantial equivalence of engineering degrees, among signatory countries. The global recognition of our academic standards is a remarkable milestone for Pakistan.

Capital University of Science and Technology, Islamabad is one of the four leading HEIs, who prepared their programs in-line with OBA guidelines before WA Reviewers, and successfully completed the evaluation process.

The Chairman PEC, has appreciated the dedication, efforts and hard work done by our institute, achieved through leadership and experienced faculty. The devotion put forth by

Vice Chancellor, and perseverance demonstrated by faculty, has been recognized by PEC. Our institution has successfully adopted the paradigm shift of OBE in teaching methodology and assessment system. Capital University of Science and Technology, Islamabad is the only university in Pakistan which has aligned all of its programs, in accordance with Washington Accord (WA) criteria. C.U.S.T. has always played an important role in elevating and upholding the international level educational standard in all disciplines.

Farewell of Batch 2014, CE Department

Welcoming the newcomers and saying goodbye to the graduating student are two regular events in any institute. The first batch of Civil Engineering student graduated in Spring 2018 semester. The students of Batch 2015 arranged a farewell party for their seniors on May 14, 2018. Besides the interaction of these two batches, faculty members were also present who gave the graduating students some important guidelines to be prepared for the professional life waiting ahead.

Seminar on Kashmir Issue

The Directorate of Corporate Linkages, Department of Management and Social Sciences, Capital University of Science and technology, Islamabad arranged a PTV news talk show with Naheed Chaudhary on April 12, 2018. Member of constitutional assembly Azad Kashmir, well known social worker, and journalist participated in the talk. In questions and answers session, students asked very intellectual and relevant questions from the panel. Students contempt the Indian army abusing in Kashmir and showed the strength with the people of Kashmir.

The World NGO Day

Capital University of Science and Technology, Islamabad celebrated World NGO Day (UN Calendar day) along with more than a hundred organizations from social and development sector. The Directorate of Corporate Linkages, as a tradition, celebrated under the supervision of Dr. Ansir Rajput, Associate Dean, Corporate Linkages.

The chief guest of the day, the Portuguese Ambassador.

The desk was all ready for the students, visitors, faculty members and exhibitors to visit by 10 in the morning on February 27, 2018. More than 100 people visited the desk. The Directorate of Corporate Linkages desk was also visited by the Honorable Vice Chancellor, Prof. Dr. Muhammad Mansoor Ahmed. The Vice Chancellor Dr. Muhammad Mansoor Ahmed and the chief guest Portuguese Ambassador deeply encouraged the collaboration between social and academic sector. Such events are necessary for creating a likable and safer world.



Ayaadat Lafafa

Ayaadat Lafafa, a campaign with an objective to revive the culture of financial aid to the family of an ill person. This concept was supervised by Dr. Ansir Ali Rajput and organized by MBA Batch 163 within the premises of the university and it was attended by faculty members and students. The concept was greatly acknowledged and efforts were appreciated. Years ago, whenever our forefathers and parents went to visit any patients they used to give them some money as their

ayaadat, so that ill person could meet his expenses easily.

MBA Batch 163, arranged a walk within university premises in order to give awareness to their university students, faculty members and others. Dr. Ishfaq addressed the audience about this campaign and concept.

Vice-Chancellor of C.U.S.T., Prof. Dr. Muhammad Mansoor Ahmed; Dean of Management Sciences, Dr. Arshad Hassan; Head of the Department of Management Sciences, Dr. Sajid Bashir and many other faculty members were there to support this campaign .



Chinese Language Program

Capital University of Science and Technology, Islamabad offered a Chinese Language Certification Program of 3 months to its students and C.U.S.T. & MAJU alumni. Chinese Language classes held at C.U.S.T. Over 1900+ students registered for the program which constitutes 500+ students and 1100+ C.U.S.T. & MAJU alumni. A Limited number of students and alumni were selected through a computerized draw.

The orientation of students took place on February 24, 2018. Dr. Ansir Ali Rajput, Associate Dean, Directorate of Corporate Linkages gave an introduction to this course and its

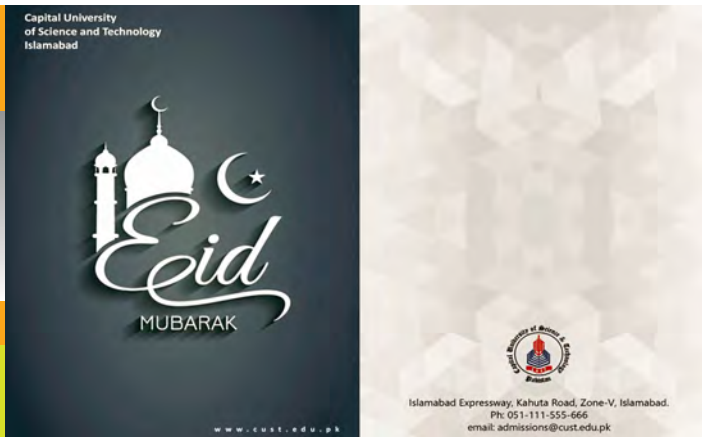
objectives.

The first Chinese Language class was held on the same day. Two classes were held that day, both attended by C.U.S.T. & MAJU alumni. Classes for students were scheduled in the weekdays whereas on weekends for alumni. A total of four sections were made, two for students and two for alumni.

The course consists of 70% of language learning, 20% of cultural knowledge and 10% of general office manners. The course was taught by Muhammad Idress, a trilingual from China. This language program will help the participants to widen their horizon of thinking, to know about new investment opportunities and most importantly will give them command over a language which will soon become a need in Pakistan.

Directorate of Corporate Linkages Revives Tradition

On this Eid, June 2018, Directorate of Corporate Linkages designed traditional Eid Greeting cards and sent to more than 600 alumni, around 200 professional bodies and university academic and non-academic partners. The response of the Eid Greetings cards was great as the recipients sent the acknowledgement.



CPEC Symposium and Alumni Dinner 2018

CPEC symposium and alumni dinner was organized on May 11, 2018 by Associate Dean, Corporate Linkages Dr. Ansir Ali Rajput and newly elected president Mohammad Usman Javed. The event was co-organized by Obortunity Consulting Pvt. Ltd.

The chief guest for the event was Hamza Saeed Orakzai, founder and CEO, Obortunity Consulting Pvt. Ltd. and Muhammad Idrees, the Chinese language consultant. Mr. Orakzai enlightened the audience on the importance of CPEC. He shared that strategic ties between Pakistan and China have been on an upward trajectory with a visible thrust on economic interaction after the initiation of China Pakistan Economic Corridor (CPEC) Project. He further added, CPEC would be a game changer for Pakistan and for the region as well.

In the end the Chinese language consultant sang a song with his students present there and expressed a humble gratitude towards the hospitality, care and affiliation of Pakistani nation with the Chinese people; moreover, Dr. Ansir Rajput gave vote of thanks to all the guests and participants. In the end, dinner was served to all.

Capital University Business Plan Competition 2018

On May 14, 2018, "Capital University Business Plan Competition 2018" was organized by the Faculty of Management and Social Sciences (FMSS). The guests included Mr. Sheikh Amir Waheed, President, ICCI Islamabad; Mr. Asad Umar, Former CEO Engro Foods; Mr. Wahaj Siraj CEO Nayatel; and Mr. Zahid Latif Khan, President RCCI. The event began with a warm welcome by the Dean of the Faculty of Management Sciences, Dr. Arshad Hassan and the HoD Dr. Sajid Bashir. This was conducted by the head of the Entrepreneurship Development Center, Dr. Muhammad Ishfaq Khan. The guests appreciated the various faculties at C.U.S.T. and the many

achievements undertaken by its students and faculty.

Students from other universities of Pakistan were invited to participate in the competition. There were 22 participants who presented their business ideas. The first winner was Team N.U.S.T, Islamabad; the second winner was from University of Lahore, Gujarat; and the third winner was from Capital University of Sciences and Technology, Islamabad. After this, the esteemed speakers spoke to the students and motivated them about their Business Ideas and then there was the distribution of Shields and certificates to the students, organizers, faculty and the guest speakers.



Faculty Development Program-Spring 2018

Among its multiple development initiatives, The Directorate of Corporate Linkages at Capital University of Science and Technology, Islamabad has recently launched a training and development program for the faculty members, named as Faculty Development Program, in order to polish the teaching and management skills of the university's faculty through interactive learning sessions and discussions with professional academic experts. This program was spread over four training workshops, encompassing training subjects on different areas of expertise required for a career in academia.

The Faculty Development workshops were scheduled during the months of April and May 2018. The facilitators and speakers of the workshops included experienced in-house trainers who led the training in a highly efficient manner, using practical rather than theoretical approach. The first workshop was led by Dr. Mueen Aizaz Zafar on Students' Engagement Techniques. Dr. Amir Qayyum conducted a workshop on Personal Management. The third session included a deliberate discussion on Islamic Perspective on Teaching Methodology.

The last session was headed by Dr. Mehdi Raza Naqvi, in which classroom management techniques were discussed in detail. The participants included permanent faculty members, newly hired teachers, along with lab engineers and technicians. Each workshop comprised of well-designed lectures, structured group tasks, interactive discussions, brainstorming sessions, and sharing success stories in different departments.



Budget Seminar

On May 03, 2018, Capital University's Post-Budget Seminar 2018-19 was organized by the Faculty of Management and Social Sciences (FMSS), in collaboration with the Talk World Program of Career Pakistan. The guests included Mr. Patchamuthu Illangovan, Pakistan's Country Director, World Bank; and Mr. Faheem Sardar, CEO Askari Securities Ltd. The event began with a warm welcome by the Honorable Vice

The students, faculty and staff benefited from the seminar. It was of special benefit to the Budget Project student-groups who shall now be undertaking complete study and calibration of the Federal Budget under the supervision of Dr. Saira Ahmed and Dr. Junaid Ahmed. Finally, it is encouraging to note that the recommendations proposed during the seminar have been shared with the National Assembly's and Senate's Standing Committees for Finance, Revenue and Economic Affairs.

In his discussion, the Chief Guest focused on Pakistan's 70 years of economic progress and the much-needed budgetary reforms at the federal as well as provincial levels. The seminar ended with an engaging questions and answers session and the distribution of shields by the Vice Chancellor and Dean FMSS, Dr. Arshad Hassan.

Seminar on Building Information Modeling (BIM)

Department of Civil Engineering arranged a seminar on "Building Information Modeling (BIM)" on May 14, 2018. Mr. Hamza Ashraf from H-CUBE and representative of AUTODESK in Pakistan delivered the lecture on different aspects of BIM. Faculty of CE Department was also present during the session. Students of batch 2014, 2015 and 2016 attended the seminar. Participants were briefed about the scope and benefits of BIM along with its future prospects in the construction industry. The students were also informed about the planned training of BIM in C.U.S.T. and its certification financials.



Chancellor C.U.S.T. Prof. Dr. Muhammad Mansoor Ahmed, followed by a meeting with all the Deans and Heads of different Departments. This was conducted by the Dean of Quality Enhancement Cell, Dr. Amir Qayyum.

Accreditation of BS Civil Engineering Program on OBA

Capital University of Science and Technology, Islamabad is among four Pakistani universities whose BS Civil Engineering Program is accredited on Outcome Based Assessment by Pakistan Engineering Council. It is an honor of Capital University of Science and Technology (C.U.S.T.) for being among four out of forty Pakistani universities whose BS Civil Engineering Program is accredited on Outcome Based Assessment (OBA) by Pakistan Engineering Council. It may be noted that there are 40 universities across Pakistan which are offering BS Civil Engineering Program (33 are already accredited and 7 new are now accredited in PEC latest EA & QEC/EAB meeting). C.U.S.T. also has the

honor to become the only university to get the accreditation on OBA for its pioneer batch of Civil Engineering. This milestone is being achieved by the dedication of its faculty and higher management with the vision of ensuring high-quality standards in education. Faculty and staff of Civil Engineering Department are committed to maintaining OBA in its true letter and spirit. On the other hand, the hard work of students cannot be ignored who are being trained in Civil Engineering through OBA. Faculty of Civil Engineering Department of C.U.S.T. is also being invited by various universities for delivering lecture and training of their faculty for OBA.

8th Industrial Open House-2018

Every year Capital University of Science and Technology, Islamabad (C.U.S.T.) organizes its annual event entitled as "Industrial Open House". The event provides a platform to the graduating engineers, programmers and young innovators of C.U.S.T. to showcase their design projects and prove their skills in front of renowned professionals from industry and academia. This year, C.U.S.T., organized its 8th Industrial Open House on July 19, 2018. This year altogether 98 Final Year Projects of the students from Department of Computer Science, Electrical Engineering, Mechanical Engineering, Civil Engineering and Bioinformatics & Biosciences were exhibited and visited and evaluated by the representatives from industry and academia. Chairman Pakistan Engineering Council (PEC), Engr. Javed Saleem Qureshi inaugurated the 8th Industrial Open House at C.U.S.T., Islamabad. The Chief Guest along with the Vice Chancellor of C.U.S.T., Prof. Dr. Muhammad Mansoor Ahmed, all

Deans, all HoD's and Faculty Members visited the exhibition. The chairman showed his extreme satisfaction upon accreditation of all the three engineering program at C.U.S.T., on OBA. He also appreciated the contribution of C.U.S.T. in obtaining the Washington Accord status. He advised the same level of efforts in ensuring a high standard in engineering education.

More than 90 industrial and academia personnel attended the Open House, showed a keen interest in projects, and appreciated the hard work of students and guidance of highly professional faculty. Some of the participants gave considerable suggestions to students for future professional life and to the department for their design projects. Many of the students were evaluated on the basis of their projects and then they were interviewed for possible hiring and some students also managed to get conditional offer letters. The representatives from industry and academia were also invited to evaluate the projects for the top three positions. Top three Design Projects from each department were awarded shields and certificates in the closing ceremony.



Cultural Festival-2018

In collaboration with Careem, the Faculty of Management and Social Sciences, students of BBA batch 143, S2 organized “Capital University Cultural Festival 2018” on March 29, 2018. Vice Chancellor, Prof. Dr. Muhammad Mansoor Ahmed inaugurated the festival. The culture of any country comprehends some specific values, virtues and

code of conduct that is held by the nation of that country. Pakistan comprises of very diversified cultures. Pakistani society is a mixture of distinctive areas and tribes. On the occasion, colourful programmes to highlight Sindhi, Balochi, Pushto, Kashmiri, Gilgiti and Punjabi culture were presented by the students. Famous artist Imran Aziz Mian “Qawalistan Band” performed on Sufi Night. Students enjoyed and learned about the culture of other provinces of Pakistan.



Workshop on Cyber Attack and Investigation

A workshop was held on March 7, 2018, by the Department of Electrical Engineering, C.U.S.T. on “Cyber Attack and Investigation”. 90 plus participants from different universities of Pakistan attended this workshop. Mr. Zeeshan Qaiser Ali, Former Senior Information Security Engineer at Tranchulas, former Training and Implementation Engineer at Interactive Group, former System Engineer at Lycus was the trainer of the workshop. It started by giving the basic introduction of information security and its importance. Security is to combine systems, operations and internal controls to ensure integrity and confidentiality of data and operation procedures in an organization.

After the introductory session, workshop moved towards practical work where participants learned the usage of different tools for Vulnerability Assessment, Exploitation, Steganography and OS Forensics also taught in the ethical way. Then workshop moved towards its climax with the final thoughts of Mr. Zeeshan Qaiser Ali who appreciated all the participants for their active participation. After that Mr.

Muhammad Shaheryar IEEE C.U.S.T. CS Chapter’s counselor handed over the shields to Mr. Zeeshan Qaiser as a token of appreciation.

The workshop ended with the lunch given to the trainer and all the participants from different universities of Pakistan. The response received from the participants regarding the workshop was also overwhelming.



National Curriculum Revision Committee (NCRC) Preliminary Meeting

The Curriculum Section of Higher Education Commission (HEC) organized a three days National Curriculum Revision Committee (NCRC) preliminary meeting in the discipline of Economics at HEC Regional Centre, Lahore. This was followed by a Final NCRC at HEC Regional Centre, Peshawar.

Dr. Saira Ahmed from Faculty of Management and Social Sciences, C.U.S.T. participated in both the meetings. Having been elected as the Secretary of the NCRC, she formulated and compiled the curricula for BS and MS/Ph.D Economics programs as per the OBE guidelines of Washington Accord. New and contemporary courses in Economics were also introduced

at all levels. These included Competition Law, Economics of Regulation and Competition Policy, Real Estate Economics, Intellectual Property Law, Economics of Defense, Sustainable Development and Climate Change.

In this regard, close collaborations were done with Dr. Muhammad Idrees, Director HEC Curriculum Wing; Dr. Muhammad Idrees (Committee Convener), Head of Department, Department of Economics, Quaid-i-Azam University; and Mr. Ahmed Qadir, Director General, Competition Commission of Pakistan.

Mall of Humanity by VIS-C.U.S.T. & Helping Hand for Relief and Development

In Spring 2018 semester, 67 Students of C.U.S.T. in collaboration with local community and Helping Hand for Relief and Development (HHRD) organized "Mall of Humanity" at Rahimabad, Government Elementary School, Dhok Charighdin, Rawalpindi where different gifts like clothes, Jackets, sweaters, shoes, blankets, toys and bags were distributed among more than 500 hundred families. Engaging the students in community service to give them the flipside of the real world has been reflecting in the vision of C.U.S.T. Leadership.

Students of Capital University of Science and Technology and the team of VIS Directorate headed by Dr. Iqbal Shaukat, Director VIS managed the event professionally. Students were

facilitated during the event as per university authority. The event was well appreciated by the team of HHRD and by the local community as the beneficiaries paid special thanks to the provider of gifts, (HHRD), facilitator, locale community under the leadership of Mirza Khalid, member cantonment board, Chaklala.

All the activities of Mall of Humanity were organized by the team of students and coordinated by Manager VIS, Mr. Naeem Saud. This activity carries 50% weightage towards 65 hours of volunteer service which is a degree requirement for all undergrad students of C.U.S.T.



MOU Signing Ceremony between HIT & C.U.S.T.

Capital University of Science and Technology (C.U.S.T.), Islamabad a Federally Chartered University, established through an Act No XVI of 2015 of parliament, published by the Senate Secretariat, Government of Pakistan vide No. F.9 (19)/2015-Legis dated September 22, 2015, is a research-centered University.

Heavy Industries Taxila was envisaged in the early seventies and its first production unit i.e. Heavy Rebuild Factory (T-Series) went into production in 1980. Today HIT has grown into a military industrial complex which consists of six major production units, support facilities and administrative establishment.

There was a need to formalize the collaboration between Heavy Industry Taxila and Capital University of Science and Technology, to make it durable and sustainable.

In this connection HIT team under the leadership of Brig. Dr. Syed Waheed ul Haq came to Capital University of Science and Technology, Islamabad for the signing of the MOU on June 21, 2018.

On this auspicious occasion Dean Faculty of Engineering (FoE), dr. Imtiaz Taj and Dean Research & Innovation, Dr. Aamer Iqbal Bhutti welcomed the honorable guests. Dean of FoE addressed the audience about the extensive research activities of Capital University. Brig. Dr. Syed Waheed ul Haq briefed the audience about the main product lines of HIT R&D activities taking place at ARDIC, HIT. He emphasized the need for stronger research collaboration between HIT and C.U.S.T. The MOU signing ceremony was followed by the presentation of University memento to Brig. Dr. Syed Waheed ul Haq by Dean of FoE.



RESEARCH CORNER Data Management and Analytics (DMA)

Data Management and Analytics Research Group (DMA) was formed in Fall 2016 with the focus on the investigation of state-of-the-art data storage technologies in order to analyze large amounts of data of a variety of types to uncover hidden patterns using tools from the fields of Data Science and Machine Learning. The Data Management and Analytics is an interdisciplinary group of faculty and students, dedicated to the exploration and analysis of real-world datasets in an effort to create knowledge and insights. DMA research group is a pioneer to initiate research related to student dropout ratio using the data obtained from C.U.S.T. students portal. The analytics performed by the students have given unique insights to the decision makers to reduce the drop out ratio in the first two semesters of the BS-CS program.

DMA research group is co-chaired by Prof. Dr. Nayyer Masood, Head of the Group and Dr. M. Arshad Islam. Prof. Dr. Nayyer Masood who has more than 25 years' experience of

teaching and research. Dr. Muhammad Arshad Islam has been associated with academia since 2002 and has experience in the fields of network analysis and cluster computing. Currently, four Ph.D. students are pursuing their research in the fields related to Data Analytics. Two of the doctorate students are focusing on "Predicting the Authors' impact on the Research Horizon" along with "The Investigation of the impact of following research trends". One student is focusing on "The Efficient Mechanisms of Information Diffusion in Social Networks and the Factors Driving Behind Identification of Influential Nodes" while the fourth one is working on the topic "Modeling Adversarial Attacks to verify the effectiveness of Web Search Engine Privacy-Preserving Protocols". So far, six students have completed their research thesis on the topics that fall under the purview of the group. Two IF journal papers have already been published and several papers are in the pipeline.

Prof. Dr. Muhammad Sagheer

Head of Mathematics Department

Dr. M. Sagheer did his MPhil from Quaid-e-Azam University, Islamabad and earned his Ph.D. from Sussex University, England. He joined M.A.J.U. in 2007; currently serving as the Head of Mathematics Department and the Director of Student Affairs at C.U.S.T. He has 25 years' experience of teaching at different levels.

Q. Kindly share your academic and professional background?

My academic journey started from Govt. Pilot School, Wahdat Colony, Lahore. I did my FSc and BSc from F.C. College, Lahore and later joined Quaid-e-Azam University, Islamabad for MSc Mathematics. After completion of my MSc degree, I joined MRF Degree College as a lecturer in Mathematics. I earned my MPhil degree from Quaid-e-Azam University, Islamabad. During the MPhil research work, I was selected by the Federal Public Service Commission for the position of lecturer in any of the Islamabad Model Colleges. Meanwhile, I competed for a Ph.D. scholarship offered by the Ministry of Science and Technology. In 2001, I went to the UK for Ph.D. from Sussex University. I came back in 2005 and joined NUST as Assistant Professor. In 2007, I joined Muhammad Ali Jinnah University, Islamabad.

Q. Why did you choose Mathematics as a career?

My school teacher, Mr. Safdar Ali, made me realize that I have some kind of natural inbuilt mathematical skills which should be further polished. While solving a Mathematics-problem, there is a flexibility of introducing the novel ideas and strategies. I think this is what distinguishes Mathematics from other sciences. The opportunity of introducing innovative methods and techniques triggers my interest in learning and teaching Mathematics.

Q. The Director Student Affairs or the Head of the Mathematics Department, which job you like the most?

It's quite hard to answer that, but I feel both these duties are equally important. As the head of the department, I have this benefit that through sharing my teaching methodology and philosophy with other colleagues and students, I can benefit them. As The Director of Student Affairs, I think I have the opportunity to extend my services to all the students of the university, not just for Mathematics students. Though it is always near to impossible to meet the expectations of every student, I am doing my level best to facilitate the students' community wherever there is a need.

Q. What duties as The Head of Student Affairs you are

performing?

The implication of discipline, handling the issues that students face in the university, looking after the transport system. Above all, we help and advise through counseling when they are not getting settled in university academically.

Q. Your message for the students?

I want to convey one message to my students that always be honest in your life. If someone thinks that a country can only achieve success through modern science and technology,



it's totally wrong. A country can gain actual success through honest efforts. So I want to advise my students that if you are unfortunately unsuccessful to achieve a goal, even after an honest effort, you will at least feel spiritual self-satisfaction which will motivate you to improve, but if you try to achieve your objective through unfair means, it will be a temporary success and it would always pinch your inner self.

The Inter Departmental Badminton Tournament - Spring 2018

The Inter Departmental Badminton tournament was held on March 10, 2018, in which teams of different departments participated. Electrical Engineering Department team won the single event and Computer Science Department team stood as a runner-up and in team event of badminton tournament Electrical Engineering won the event and Mechanical Engineering stood as runner-up team.

The Inter-Departmental Badminton Tournament for Girls - Spring 2018

The Inter Departmental Badminton Tournament for girls was scheduled on March 31, 2018 in which teams of different departments participated and Computer Science

Department won the singles event and Management Science Department stood as a runner up and in team event of Badminton Tournament Computer Science Department won the event and Management Science Department stood as runner up team.

The Inter Departmental Basketball Tournament - Spring 2018

The Inter Departmental Basketball Tournament was held from May 09 to 14, 2018. In this tournament teams from all departments participated and Electrical Engineering Department team won the tournament and Management Sciences Department team stood as a runner up team. This tournament was conducted in a very peaceful and friendly atmosphere and all students enjoyed it a lot.



The Inter Departmental Basketball Tournament for Girls - Spring 2018

The Inter Departmental Basketball tournament for girls was held on April 25, 2018, in which teams of different departments of C.U.S.T. participated and Management Sciences Department won the tournament and Computer Science Department stood as a runner-up.

The Inter Departmental Chess Tournament for Girls - Spring 2018

The Inter Departmental Chess Tournament for girls was held on March 26 to 29, 2018, in which teams of different Departments of C.U.S.T. participated and Management Science Department won the tournament and Mechanical Engineering Department stood as a runner-up.



The Inter Departmental Football Tournament - Spring 2018

The Inter Departmental Football Tournament was held from May 02 to 8, 2018. In this tournament teams from all departments of C.U.S.T. participated. This tournament was won by Management Sciences Department team and Civil Engineering Department team stood as a runner-up team. This tournament showcased true sportsmanship and friendly environment. Participants and audience all enjoyed it a lot.

The Inter Departmental Lawn Tennis Tournament for Girls Spring 2018

The Inter Departmental Lawn Tennis Tournament for girls was scheduled on April 30, 2018 in which Management Sciences and Computer Science Department participated. This tournament was won by Management Sciences Department while Computer Science Department stood as a runner-up.



The Inter Departmental Squash Tournament - Spring 2018

The Inter Departmental Squash Tournament was scheduled on March 10, 2018 in which teams of all departments participated and Computer Science Department team won the tournament and Electrical Engineering Department team stood as a runner-up team.

The Inter Departmental Table Tennis Tournament for Girls - Spring 2018

The Inter Departmental Table Tennis Tournament for girls was scheduled on March 27, 2018 in which teams of different departments of C.U.S.T. participated and Computer Science Department won the singles event and Management Sciences Department stood as a runner up and in team event of table tennis tournament Computer Science Department won the event and Management Sciences Department stood as runner-up team.







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- N. Ikram, **M. A. Qadir**, **M. T. Afzal** (2017): "Investigating Correlation between Protein Sequence Similarity and Semantic Similarity Using Gene Ontology Annotations", In: IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2018 May-Jun;15(3):905-912. doi: 10.1109/TCBB.2017.2695542 (IF: 1.955)
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(This list includes only a part of total publications due to shortage of space)

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