



Capital University of Science and Technology Islamabad NEWSLETTER









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Patron Prof. Dr. Muhammad Mansoor Ahmed Chief Editor Dr. Nayyer Masood Editor Mrs. Humera Aftab Sheikh **Members** Dr. Ansir Ali Rajput Mr. M. Usman Farooqi Mr. Qazi Abdul Muqueet Mr. Abdul Haseeb Afridi Graphic Designer and Photographer Taaruf Ullah Khaweri

14th Convocation-2018

Capital University of Science and Technology, Islamabad held its 14th convocation on December 06, 2018. The Chief Guest on this auspicious occasion was former Finance Minister and the current Governor of the State Bank of Pakistan Dr. Shamshad Akhtar. The Guest of Honor was renowned scientist Prof. Dr. Inam-ur-Rehman. His academic achievements includes the creation of one of the most dynamic institutes of Pakistan, Pakistan Institute of Engineering and Applied Sciences (PIEAS). The Chancellor of Capital University of Science and Technology, Mian. Amer Mahmood; and the Vice Chancellor Prof. Dr. Muhammad Mansoor Ahmed also graced the occasion. Graduates of Faculty of Engineering, Faculty of Computing, Faculty of Social Sciences and Faculty of Biosciences and Bioinformatics received their degrees. A total of 867 students graduated this year. Altogether 32 PhD scholars had the honor to receive their degree from all 4 departments. Other than that, 323 scholars received their MS degrees in their respective fields. This year, 32 students secured Gold Medal. 12 students conferred the Silver Medal and 10 students received the Bronze Medal. The Jinnah Gold medal was awarded to Faraz Kaiser Malik, a student of BS Mechanical Engineering (Batch 4) for his outstanding performance in both curricular and co-curricular activities.

The Convocation commenced with the permission of the Chancellor, Mian Amer Mahmood. Hafiz Muhammad Tayyab Zahid, recited verses from Holy Quran. It was followed by an opening speech by the Vice Chancellor, Prof. Dr. Muhammad Mansoor Ahmed. He congratulated the graduates and their parents for achieving a very important milestone in their lives' journey. He appreciated the students' devotion for gaining knowledge and the dedication of the faculty. He also thanked the Chancellor, Chief Guest and the Guest of Honor for taking some time out of their busy schedules in order to be a part of this Convocation. He was also pleased to introduce the Faculty of Health and Life Sciences. Moving on, Dean Faculty of Management Sciences, Dr. Arshad Hassan; Dean Faculty of Computing, Dr. Abdul Qadir; and Dean Faculty of Engineering, Dr. Imtiaz Ahmed Taj presented their candidates to the Chancellor. On the recommendation of the Deans, the Chancellor conferred upon the students their respective degrees. The Chief Guest, Dr. Shamshad Akhtar addressed the graduates. She started off by congratulating the degree holders and their parents. She emphasized on the role of women in developing a society. She stated that Pakistan's future depends on how swiftly we deploy creativity and innovation to enhance productivity which is a key for the social, economic and environmental transformation of Pakistan. She appreciated the faculty's role in imparting knowledge to their students. She acknowledged the valuable contribution that Chancellor Mian Amer Mahmood has made in the progress of Higher Education. She also recognized the persistent effort of Vice Chancellor, Prof.

Dr. Muhammad Mansoor Ahmed in providing quality education at the Capital University of Science and Technology, Islamabad. Furthermore, she praised the University's mission to promote research in a meaningful and positive way through its Graduate programs. Afterwards, The Chief Guest, Dr. Akhtar, along with



the Chancellor and Vice Chancellor, awarded degrees to PhD graduates and to the academic excellence award winners. She was also given the University crest by the Chancellor Mian Amer Mahmood. Following this, the Guest of Honor Prof. Dr. Inam-ur-Rehman opened his speech by congratulating the degree holders. He emphasized on the role of character building within students. In this regard, he congratulated the Chancellor and Vice Chancellor for promoting character building attributes within the students of Capital University of Science and Technology. He thanked Vice Chancellor Mian Amer Mahmood for his contributions to the nation. He ended the speech by wishing all the students the best of luck. The Chancellor presented the University Crest to the Guest of Honor. Afterwards, the Guest of Honor, along with the Chancellor and Vice Chancellor, awarded degrees to the graduates. The remaining degrees were presented by the Chancellor and Vice Chancellor to the graduating students.

In the end, the Vice Chancellor declared the convocation closed. The convocation concluded amidst the cheers of the graduating students. This was followed by a lavish lunch arranged for the students, guests and faculty. Overall, the function ended at a memorable note for the students, faculty and for the guests



6th International Conference on Biological and Computational Sciences (C-Bics 2018)

The Department of Biosciences of Capital University of Science and Technology organized 6th International Conference on Biological and Computational Sciences (C-BICS 2018) on December 13, 2018. The objective of the conference was to provide a platform where researchers and practitioners in the field of Bioinformatics and Biosciences could meet and share their experiences. The conference witnessed an active participation of Bioinformatics and Biosciences community from across the country.

Inaugural session was followed by the talk of Dean, Faculty of Health and Life Sciences, Dr. Muhammad Abdul Qadir. He highlighted the importance of biological sciences and various research areas of human genetics and other advanced biological sciences research areas. He identified various gaps which needed to be explored by Immunologists, Microbiologists and Biotechnologists.

Two keynote speakers, Dr. Aneel Paulus, Assistant Professor of Medicine and Cancer Biology, Mayo Clinic (US) and Prof. Dr. Khalid Farouk, Professor and Head of Urology Department, Foundation University, Islamabad also graced the event. Dr. Aneel Paulus introduced his research group and ongoing projects and mentioned various areas where collaborative research could be planned. Dr. Khalid Farouk enlightened the audience with the clinical aspects of urinary tract infections and treatments. At the end of inaugural session worthy Chief Guest, Prof. Dr. Ahsan Raza enlightened with his experiences. He mentioned evolution of biological researchers during the course of time, the use of molecular tools for sequencing and then next generation sequencing, pyrosequencing and now advent of pharmacogenomics which helped medicine scientists to produce therapeutic personalized drugs.

Later on 5 parallel sessions were run. Total 171 Participants and guests attended the conference, 34 oral presentations were held in 5 sessions. During poster session, 27 posters from externals and 25 posters from CUST research students were presented. Participants came from various Universities from all over Pakistan. International participants also graced the event. International representation was witnessed



from these institutions, University of Stockholm, Sweden, Cologne Germany and Mayo Clinic (US).

Prof. Dr. Aqdas Naveed Malik, Pro Vice President, International Islamic University Islamabad graced the event as Chief Guest of concluding session. He enlightened the audience with a refreshing and inspiring talk. Shields were distributed among position holders and organizing committee members before formal closure.

Seminar on Personality Development & Career Opportunity

Department of Computer Science, Capital University of Science and Technology, Islamabad organized a seminar on "Personality Development and Career Opportunities" under the supervision of Miss Sadaf Adalat, on October 30, 2019. The guest Speaker was Mr. Raza Nemati Ali. He is a Certified Training Professional (CTP) from FAA Malaysia, He is a speaker of rare charisma.

The main purpose of seminar was to make students realize how important it is to discover their strengths and areas of interest, to set goals and to have explicit path in life with the aim to be successful and prosperous. The primary aspect, scrutinized by the guest speaker, was how students can prepare themselves for the challenges in life, how they can compete in life and how they can develop skills to improve social behavior and how they can choose their career according to their interest. The seminar provided students with an opportunity to look into their own strengths and use them to excel in life and to get a clear vision of the career they want to choose according to their field of interest. At the end, souvenir was presented to Mr. Raza Nemati. After that he was treated with a proper refreshment with the faculty members and organizer students.

7th International Business Research Conference (CIBRC)

The Capital University of Science and Technology (CUST) organized its 7th International Business Research Conference (CIBRC), which was held on December 20, 2018. The theme of the conference was "Multidisciplinary Research in Management: Challenges and Prospects". Along with the technical sessions, graced by scholars and researchers from across the country as well as from the international universities, the conference program also included a PhD consortium, consisting of talks and lectures from the top-notch scholars of the country. The objective of the consortium was to provide the platform to the PhD students for enhancing their work and collaborating with other researchers, to boost the research output consequently, and to get a valuable feedback on their dissertation in progress.

The opening session of the conference was graced by Mr. Faheem Sardar, MD Tangent, Former CEO Askari Securities and Dr. Habib ur Rehman Asim, Assistant Professor. Mr. Faheem Sardar delivered his keynote talk about the importance of collaboration between academia and industry, following the lines of the theme of the conference. He appreciated Capital University of Science and Technology, Islamabad for providing a platform for the academic experts, entrepreneurs and practitioners from the corporate world to exchange their ideas in order to capitalize from the much needed collaboration. Dr. Habib ur Rehman Asim added that students must engage in analyzing the projects at designing phase.

The closing session was graced by Dr. Kamran Naqi, Acting Dean, Hamdard University Islamabad Campus and Dr. Hamid Rafiq Khattak, CEO of Imperial Institute which is an initiative of MANTECH and ARC, partnering with United Nations and World Trade Organization. Both the speakers delivered an enlightening speech on the importance of academia and industry collaboration and acknowledged CUST's efforts in bridging the gap between the two.



CUST Students win the Parliamentary Quiz Competition on International Democracy Day-2018

On September 14, 2018, to celebrate the International Day of Democracy-2018 and 21st Anniversary of Universal Declaration of Democracy, Pakistan Institute for Parliamentary Services, Islamabad organized a quiz competition among different universities from all over Pakistan. Two students from Capital University of Science and Technology, Islamabad participated in the competition and won the first prize. The team included Ms. Warda Imtiaz and Mr. Hamza Toor, under the supervision of Ms. Samra Minhaj from the Faculty of Management and Social Sciences. The other participating universities included National University of Sciences and Technology (NUST), International Islamic University, Islamabad (IIUI), and Pakistan Institute of Development Economics (PIDE). The quiz was based on Pakistan's Constitutional History, History of the Parliamentary system and Democracy, Universal Declaration of Democracy and the Constitution of Pakistan.

The auspicious event was chaired by Honorable Senator Faisal Javed, Honorable MNA Ms. Shahida Akhtar Ali along with Executive Director PIPS, Mr. Zafarullah Khan. The panelists addressed the 2018 theme of Democracy Day: Democracy Under Strain – Solutions for a Changing World. They expressed their views on "What if Parliamentary Oversight did not exist?" followed by an interactive question answer session with the students. The winning team from CUST received prizes, certificates and souvenirs from the Honorable chief guests and were praised for their outstanding efforts towards promoting the knowledge of Pakistan's Constitutional History among the young generation.

Conference of Mathematics (CUCoM)

Department of Mathematics, Capital University of Science and Technology, Islamabad organized its first Conference of Mathematics (CUCoM) on December 01, 2018. CUST was the sole sponsor of the event. The chief organizer of the event was Dr. Abdul Rehman Kashif. It was chaired by the Vice Chancellor of Capital University of Science and Technology, Islamabad Prof. Dr. Muhammad Mansoor Ahmed. The conference commenced with the recitation of the Holy Quran. In his welcome speech Dr. M. Mansoor Ahmed highlighted the importance of Mathematics. The event hosted ninety participates, along with five keynote speakers. These keynote speakers were invited from different Universities within Islamabad.

The objective of this conference was to focus on the active areas of research within the field of Mathematics. The first keynote speaker of the day was Prof. Dr. Asghar Qadir from the School of Natural Sciences, NUST. He is not only considered a top mathematician but a prominent cosmologist as well. His academic achievements include publishing twelve books and more than 140 articles in reputed international journals. Prof. Qadir gave a riveting talk on "Black Holes".

The next speaker was a renowned and pioneering mathematician in the field of Fluid Dynamics in Pakistan, Prof. Dr. Saleem Asghar, from COMSATS. He has published more than 400 articles and supervised more than 40 PhD students. He presented paper on, "Hartmann Boundary Layer in Peristaltic Flow for Viscoelastic Fluid".

The third speaker was Prof. Dr. Muhammad Aslam Noor, another eminent professor of COMSATS University. He has more than 925 research papers to his credit. Moreover, he has supervised several MS and PhD students. In his presentation, he introduced and analyzed the three step iterative methods for solving non-linear equations and variational inequalities using novel and innovative methods. These methods are known as Noor iterations and include Mann and Ishikawa iterations as special cases.

Prof. Dr. Liaqat Ali Khan, from Quaid-e-Azam University Islamabad, was the fourth speaker of this conference. Dr. Khan has a vast experience of more than 50 years in teaching and research at various institutes. He is credited with publishing three books and almost 80 research papers in internationally reputed journals. His research focuses on the study of spaces of continuous vector-valued functions in the framework of general topological vector spaces. The topic of his lecture was "Multipliers and Qausimultipliers on Topological Algebras".

The last speaker was Prof. Dr. Arshad Zia from International Islamic University, Islamabad. He, currently, holds the position of Dean of Basic Sciences in IIUI. Dr. Zia has published more than 118 papers in ISI indexed or HEC recognized journals. He has produced six PhDs along with 12 MS scholars. He gave interesting insights on "Fixed Point Theorems for Weakly α_s Admissible Pair of F- Contraction with Application".

The conference ended with a closing speech by Prof. Dr. Muhammmad Sagheer, the Head of Mathematics Department. In his closing remarks, Dr. Sagheer emphasized on the importance of this conference for Graduate students of Mathematics. Furthermore, he thanked the speakers and participants for being a part of this conference. He ended with a note of appreciation for the University management and their cooperation in making the conference a successful event.



Entrepreneurial Marketing Gala-2018

Co-curricular activities are the true and practical experiences received by students. To a greater extent, the theoretical knowledge gets strengthened when a relevant cocurricular activity is organized related to the content taught in the classroom. In this backdrop, Entrepreneurial Marketing Gala-2018 was organized by the Department of Management & Social Sciences, on December 27, 2018 at Capital University of Science and Technology. Students organized various stalls. The event was an experiential activity of Entrepreneurship and Marketing Students where students displayed their products / services for selling and promotion perspective. The total 100 stalls were displayed which were comprising of 44 entrepreneurial startup and 61 marketing stalls which further categorized in Business / Marketing Stalls (53), Gaming Zone (8) and Food Junctions (39). Students of CUST showed great quality of planning to make the event successful. The University students took keen interest in the event and participated with full enthusiasm. At the end, the Vice Chancellor, CUST, Prof. Dr. Muhammad Mansoor Ahmed, gave the shields and cash prizes to the winners of the event. During his address, he appreciated the efforts of organizing teams and emphasized that such kinds of activities should be continued in future as well.

Seminar on "Ethics? Oh Chadoo Ji"

Aseminar was conducted in Civil Engineering Department, Capital University of Science and Technology, Islamabad on December 31, 2018. The Student Counselling Society – Civil Chapter plays a significant role in grooming the personalities of students. The guest speaker was Engr. Muhammad Wajeeh, who is a trainer, counselor and working as a teacher in a well renowned organization, Alchemist. He delivered a very well-structured lecture which covered and highlighted various aspects of ethics in the light of relegion. At the end, a souvenir was presented to Engr. Muhammad Wajeeh by Dr. Ishtiaq Hassan, Head of Civil Engineering Department.

RKETING GALA 2018





Endangered Species of Pakistan

A seminar on "Endangered Species of Pakistan" was organized by the Department of Biosciences, Faculty of Health and Life Sciences, Capital University of Science and Technology Islamabad on December 24, 2018 under the supervision of Dr. Sahar Fazal and Genix Society.

The lecture was delivered by Mr. Sakhawat Ali, Assistant Director Information and Outreach of Islamabad Wildlife Management Board, Islamabad Wildlife Management Board. The lecture was found very informative and helpful in generating awareness among the students regarding the proposed topic. Starting from the very introduction of the topic, Mr. Sakhawat Ali gave an overview about what endangered species are and what is the importance of saving them. He gave historical background about the endangered species and stated the conservation policies and strategies through which these species could be conserved. Moreover, he gave the overview of the services of WWF in the conservation of endangered species. At the end, he concluded the whole seminar in the discussion session. Finally, the souvenir was presented to the guest speaker by the HoD of Biosciences Department, Dr. Sahar. Hi-tea was served to the guest speaker and the faculty members in the staff room.



Seminar on Industrial Applications of Tissue Culture Technology

A seminar on "Industrial Applications of Tissue Culture Technology" was organized by the Department of Biosciences, Faculty of Health and Life Sciences, Capital University of Science and Technology Islamabad, on December 5, 2018, under the supervision of Dr. Arshia Amin Butt and Genix society. The guest speaker was Dr. Kazim Ali who is Scientific Officer at National Institute for Genomics & Advanced Biotechnology (NIGAB), National Agricultural Research Center (NARC).

He shared the importance of biotechnology which has been globally accepted as one of the most important tools for

direct application in agriculture, its stronger and positive influence on agricultural sector worldwide. He told the students that the tissue culture is no more a nascent industry; it is flourishing with multidirectional growth. Several crop plants are being routinely propagated by tissue culture technique and are being traded domestically and internationally for many decades. The souvenir was presented to the guest speaker by the HoD of Biosciences, Dr. Sahar Fazal. The session proved to be very fruitful to the students.

Interactive Education

A seminar on "Interactive Education" was organized by the Department of Bioinformatics and Biosciences, Faculty of Health and Life Sciences Capital University of Science and Technology Islamabad on November 22, 2018 under the supervision of Prof. Dr. Shaukat Iqbal Malik, and Genix Society. The guest speaker was Dr. Zafar Iqbal Qadir, founding director and chairman of Taleem Foundation. He has a wide experience of project management, public administration and revenue administration.

The guest speaker enlightened the students regarding interactive education which is an approach that incorporates social networking and urban computing into course design and delivery. He discussed about the E-learning program initiative taken by Taleem Foundation in Sihala Government School. He even invited the CUST students to visit the school. Lastly, the speaker discussed the university assessment policy and emphasized that lectures should be given through videos to ensure that students use their own creativity instead of cramming things. The seminar was a great source of information for the students.

The souvenir was presented to the guest speaker by the HoD of BI & Biosciences, Dr. Sahar Fazal. Hi-tea was served to the guest speaker and the faculty members in the staff room.



The Impact of Human Activities on Climate Change

A seminar on "The Impact of Human Activities on Climate Change & Endangerment of Species" was organized by the Department of Biosciences, Faculty of Health and Life Sciences, Capital University of Scienceand Technology Islamabad on October 17, 2018, under the supervision of Dr. Sahar Fazal, Head of Department of Biosciences. The guest speaker was Mr. Hans J. Hausmann who is an advisor from German Red Cross at Climate Change Adaptations Department in Pakistan Red Crescent Society. He holds Bachelor's degree in Forestry and Maters degree in Rural Resource Management, both from UK. He has more than 20 years of experience regarding Climate Change Issues in Asia, Middle East and Africa.

He enlightened the students regarding the severity of climate change issues such as, global warming, water scarcity, plastic pollution and threats to flora and fauna and linked it all as the consequences of human activities. He guided the students to stop strangling the natural beauty for human benefits and becoming a part of something bigger than themselves. One of his best quotes was about plastic pollution "When you say you are throwing it out, remember there is NO OUT". He highlighted the endangered species of Pakistan such as, Markhor, Indus dolphin, and various others and described the kinds of human activities which pose a threat to their existence.

This seminar was a great source of information for the students and motivated them to become nature friendly as the Earth is our home and we are the ones who have the responsibility to save it. The souvenir was presented to the guest speaker by the HoD of Biosciences, Dr. Sahar Fazal. Hi-tea was served to the guest speaker and the faculty members in the staff room.



Seminar on Human-Wildlife Conflict in Western Himalayan Eco-Region of Pakistan

A seminar was arranged by the Department of Biosciences, Capital University of Science and Technology, Islamabad on November 28, 2018, supervised by Dr. Erum Dilshad (Patron Genix). A team from "WWF: World Wildlife Funds for Nature" comprising of Muhammad Waseem, Manager Research & amp; Conservation-Pakistan; and Muhammad Awais, Officer -Youth Development Program. The main aim of the seminar was to spread awareness about the conservation status, efforts and measures taken in Pakistan. Mr. Muhammad Waseem briefed about the general conservative measures and specifically his work for the conservation of Asiatic Black Bear and Common Leopard. A documentary was shown by the team which gave the audience an opportunity of visualizing the people affected by the attack of these animals as they were deprived of their natural habitats, their families and gaining knowledge about their experiences. Mr. Awais explained the details of the Eco-internship program, held by WWF for all the students who want to participate in direct at hand interactive activities for the Wildlife and Nature Conservation. He explained the kind of activities they hold in this internship program and also the official formalities and the benefits students can avail from the program specially mentioning that it officially completes their 40 hours of volunteer service.

At the end of the seminar a discussion session was held among the students and the honorable guest speakers, for catering all the queries of the students and faculty members. Souvenirs were presented to the team of WWF by the HoD of the Department of Biosciences, Dr. Sahar Fazal, followed by a refreshment session.

Revit Architecture Fundamental-BIM CoE

A seminar on "Interactive Education" was organized by the newly established department BIM Center of Excellence (BIM CoE) at Department of Civil Engineering, Capital University of Science & Technology Islamabad in collaboration with H-cube. It has successfully conducted its first training workshop on "REVIT Architecture Fundamentals" for two days on January 11-12, 2019.

Ten individuals with different educational/industrial background (i.e. CDA, Designmen, PMO-NUST, IIUI etc). participated in this training. During the two days sessions, the participants were briefed about the fundamentals of BIM and experienced hands on training of Revit Architecture. At the end the training, certificates were distributed among the participants.

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Seminar on Introduction to CDM, Safe by Design and Influencing

A seminar was conducted for the students of Civil Engineering Department, Capital University of Science and Technology Islamabad on October 31, 2018, by the society of Engineer's Forum. The guest speaker was Engr. Malik Jawaid, Alliance Responsible Engineer East West Rail ATKINS United Kingdom. Engr. Jawaid Malik delivered a very well-structured lecture which covered and highlighted every aspect of "Construction Design Managment", and "Health and Safety". At the end, a souvenir was presented to Engr. Jawaid Malik by Engr. Dr. Majid Ali.

Seminar on Is Ethics Possible?

Aseminar was conducted in Civil Engineering Department, Capital University of Science and Technology, Islamabad. It was arranged by Mr. Muhammad Usman Farooqi on October 15, 2018.

As the saying of Cicero goes, 'Neither can embellishments of language be found without arrangement and expression of thoughts, nor can thoughts be made to shine without the light of language'. Participation in events of public speaking and rhetoric makes the person more articulate and less narrow-minded. Therefore, in order to develop the art of public speaking and to create awareness among the undergraduate students about the message of Iqbal to celebrate the birth anniversary of Allama Iqbal in best possible way, Engineer's Voice Society of Civil chapter under the umbrella of ASCE Capital Chapter has organized an event of speech contest with a theme of Iqbal's Message for Youth. The The Student Counselling Society-Civil Chapter plays a significant role in grooming the personalities of students. The guest speaker was Dr. Yousaf Raza, who is a well renowned psychiatrist and leading a number of organizations as well. Dr. Yousaf Raza delivered a very well-structured lecture which covered and highlighted various aspects of ethics in the light of religion. At the end, a souvenir was presented to Dr. Yousaf Raza by Dr. Ishtiaq Hassan, Head of Civil Engineering Department.



Iqbal Day Speech Competition

contestants were given four verses of Iqbal poetry as an option to choose the theme for their speeches. A total of 12 contestants from all departments have participated in the event.

Three faculty members have critically evaluated the speeches of participants. As a result of their evaluation, Erum Amin from Management Sciences Department, Shahzaib from Computer Sciences Department, and Sajjad Haider from Civil Engineering Department secured 1st, 2nd and 3rd position in the contest respectively. A cash prize of Rs. 2000/- was also given to 1st position holder. Certificates of appreciation were given to all the contestants and organizers of the event in the end.



Bridge Building Competition-2018

The Science Society of Capital University of Science and Technology arranged a Popsicle Sticks Bridge Building Competition on November 29, 2018. This competition had its sponsors including Earnest Pakistan (Pvt) Ltd.; DAR Dubai and Kasib Associates. This was not an actual bridge building task but a startup for the students. The event brought together a number of students to participate. The material needed for bridge building was provided by the organizers. The maximum number of members were three and minimum of two. Time of 3 hours was allocated to the participants. The competition provided an opportunity to the young future Civil Engineers to become familiar with the upcoming possibilities in their field.

* * *

Inauguration Ceremony of BIM (Building Information Modeling) Center of Excellence

Building Information Modeling (BIM) is one of the newest construction technologies over the globe in 21st century. BIM is an integrated multiphase process of designing, modeling and construction. On the initiative of Civil Engineering Department, an inauguration ceremony of BIM Center of Excellence was held on December 15, 2018. Inauguration of BIM Center of Excellence was one milestone achieved by Capital University of Science and Technology, Islamabad. BIM Center of Excellence will provide young students and professionals a platform to enhance and master new horizons of BIM. Noteworthy Representatives of academia and industry of Civil Engineering field, Islamabad attended the inauguration ceremony. Respected Vice Chancellor of CUST, Prof. Dr. Muhammad Mansoor Ahmed, and Dr. Ishtiag Hassan, Head of Civil Engineering inaugurated the BIM Center of Excellence along with other guests. Dr. Khurram gave the introductory presentation on BIM and its various modules. Afterwards, ceremony was addressed by Dr. Abdul Qadeer (GM,

Jashan-e-Jinnah

Directorate of Corporate Linkages, Capital University of Science and Technology, Islamabad celebrated Jashan-e-Jinnah Under the direction of Higher Education Commission (HEC) to celebrate the birthday of the founder of Pakistan and father of nation Quaid-e-Azam Mohammed Ali Jinnah on December 26, 2018. The event consisted of different competitions like Dress Competition, Banner competition and debate competition. A large number of students took part in the event enthusiastically. Souvenirs, certificates and different prizes were given to the Nespak Islamabad) and Col. Murtaza Ali Shah (CEO, H-Cube) who were the chief guests of the ceremony. Brochures about the BIM Center of Excellence, CUST were provided to the attendees. In the end of the ceremony, guests were served lunch.



students.

The theme for the dress competition was to dress like Quaid-e-Azam Mohammed Ali Jinnah and Mohtarma Fatima Jinnah. Jury selected the best dress models. On December 27, 2018 at night, the movie named "Jinnah 1998" was also shown to the students. The Vice Chancellor CUST, Dr. Muhammad Mansoor Ahmed and Associate Dean Corporate Linkages Dr. Ansir Ali Rajput addressed the students about the importance of Quaid-e-Azam Mohammed Ali Jinnah's sacrifices for this nation. Jashan-E-Jinnah was a successful event.



Workshop on Job Search, Resume Building and Interview Skills

Under the Department of Corporate Linkages at Capital University of Science and Technology, Islamabad, a series of capacity building workshops were organized for graduating students who would soon be entering their respective professional fields. The participating students were from the finals semesters of Faculty of Engineering. Topics covered during the workshops were Job Search in today's market, and Effective Resume Building, Job Interview Skills. The workshop was conducted on December 17 & 31, 2018.

The workshop was launched in order to familiarize the students with the current trends in the national and international job market, to help them build effective resume and personal profiles, and to help them in interview preparation in their areas of interest. The major objective was to acquaint the students with the current job application process and to ensure their placement in valuable organizations. An overall positive feedback was received regarding the University's efforts towards the capacity

Capital Media Group (CMG) & Capital Media Club (CMC)

Founded in 2017, Capital Media Group (CMG) has grown from a social, cultural and videography service to an all-round student experience. CMG, being one of the most active group in Capital University, having representation from all the departments, is eager to portray the university at different forums by joining the rush of the real world. For the last two years CMG has played its part in capturing lives of students inside and outside. The media group gives the outsiders a view into Capital University as a successful organization in making its students grow in every sector whether it's literary, sports, dramatics or academics. CMG makes sure every detail about CUST's happenings and works tirelessly, so that every event at CUST is just as memorable as the day it happened.

CMG also empowers students by providing students an opportunity to step out of the academic sphere and to take decisions into their own hands and through that power, Capital building of its graduating students and working on their successful job placements.

Paper Presentation at 13th International Congress on Advances in Civil Engineering, Izmir, Turkey

Mr. Hamza Muzaffar Khan, recently graduated student of first batch (BCE -143) of Civil Engineering Department, Capital University of Science and Technology, Islamabad presented a paper in 13th International Congress on Advances in Civil Engineering, held from September 12 to 14, 2018 in Izmir, Turkey. The title of paper was "Construction Delays Assessment- A Case Study of Interchange Project in Pakistan". The research was supervised by Dr. Syed Shujaa Safdar Gardezi, Assistant Professor, Department of Civil Engineering, CUST. The paper was outcome of research conducted by group of students of BCE-153 as their Design Project. The other members of the research group included Mr. Mueiz Basit Ali and Mr. Khushnood Ateeq.

Media Club (CMC) has become a platform for hosting competitions, interactive discourses and festivals. CMC is the pictorial face of Capital University of Science and Technology, Islamabad among the students at campus and at inter-university level as well. CMC is a platform where all the academic and extra-curricular activities are captured giving them potential touch of professional photography. Not merely restricted to photography, the club also encompasses various fields in keeping up with the diversity of the students' interests, such as Editorial wing, FM Radio, Dramatics, Event management, Graphic Designing and Videography. With CMC, students can keep a part of Capital University of Science and Technology, Islamabad with them, long after university is over.

CMC will combine several skills and ideas to end up with a creative product. Any student who is creative and willing to learn is welcomed to join and become a member of this ever-growing club. Media Club is the place for creativity and "Sky is the limit".



Study Tour to Khanki Barrage, Gujranwala

One-day study tour was arranged to Khanki Barrage, Gujranwala by Civil Engineering Department, Capital University of Science and Technology, Islamabad on December 16, 2018. It was organized under the supervision of Engr. Muhammad Usman Farooqi. Students were excited to know the details of barrage and its allied infrastructure during the visit. SDO and site engineer gave detailed briefing about the operation and purpose of barrage. Fish ladder constructed on barrage for the purpose of fishery was shown to the students. Practical demonstration of working of electronic gate valves of barrage was given to the students. The canal system and river (i.e. River Chenab) associated to Khanki Barrage were also discussed. The accompanying faculty members also gave physical demonstration of various aspects of water resource engineering.



Study Tour to Khewra Salt Mines

One-day study tour was arranged to Khewra Salt Mines by Civil Engineering Department, Capital University of Science and Technology, Islamabad by Engr. Muhammad Usman Farooqi. The trip was arranged on December 30, 2018. Objective of the trip was to make the students aware about different concepts of mining, excavation, soil stability and other civil engineering concepts related to Salt Mines, Khewra. The accompanying faculty members also gave the physical demonstration of various aspects of engineering geology and meteorology of rocks. Students asked different questions regarding the soil stability and salt architecture in mines which were answered by the faculty.



E-Gaming Competition 2018

Software Engineering Society, Capital University of Science and Technology, Islamabad, organized E-Gaming competition on October 29, 2018. The event offered four competitions including the following games: DOTA-2, Call of Duty (CoD), FIFA and Tekken

The objective of this event was to provide a platform to the students for healthy contest with their peers, and to reward outstanding individuals and teams. It was a great opportunity for them to showcase their skills and ingenuity. Around 22 teams and 70 participants registered themselves for competitions. For each winning team and runner-up team, there were cash prizes and certificates were distributed among all participant team.

Seminar on Site Supervision and Entrepreneurship

A seminar was conducted by the Civil Engineering Department, Capital University of Science and Technology Islamabad on December 27, 2018. The society of Engineer's Forum played a significant role in ensuring the participation of students in this seminar. The guest speaker was Engr. Haseeb Taj, Managing Director M/S Muhammad Ali Taj construction. Engr. Haseeb Taj delivered a very well-structured lecture which covered and highlighted every aspect of "Site Supervision and Entraprenurship". At the end, a souvenir was presented to Engr. Haseeb Taj by Engr. Dr. Ishtiaq Hassan HoD, Civil Engineering Department.



Campus Sustainability Campaign & Poster Competition

Energy and Environment Society (CED) Civil Engineering Department, Capital University of Science and Technology, Islamabad arranged "Campus Sustainability Campaign" under the umbrella of ASCE from December, 10-14, 2018. Students from all departments of the university participated in the campaign. The campaign was ended on another event of "Poster Competition on Water and Energy Conservation" held on December 14, 2018. The concept was to aware the students about the importance of natural resources to conserve for meeting future demands. The students from Civil Engineering Department, Mudasir Sheikh and Ahmed Shaheen won the competition and shield was awarded to them.

Bilingual Speech Competition

On January 01, 2019, Software Engineering Society arranged a Bilingual Speech Competition to celebrate the birth of Quaid-e-Azam Mohammad Ali Jinnah under the supervision of Ms. Humera Aftab Sheikh and Ms. Asma Naz. The topic of the speech was "Relevance of Jinnah's Leaderships Principles in Today's World". Ms. Humera Aftab Sheikh, Mr. Inam Elhai and Mr. Maqsood Alam were the judges of the competition. Around 15 students participated in the competition. There was a close competition among the contestants. In the end, first three position holders and all the participants and organizers were awarded with certificates. It was a successful event that provided a platform to the students to express their views on Quaid's principles.



Emerging Computer Programming Competition-Fall 2018

Dr. Muhammad Aleem and Mr. Salman Ahmed in collaboration with JSpark society organized "Emerging Computer Programming Competition-Fall 2018" on January 08, 2019. The aim of this competition was to encourage first-semester Computer Science students to compete in programming skills. In this competition 29 students participated from 08 different sections of "Introduction to Programming" course. Dr. Nayyer Masood, Head of Computer Science Department awarded certificates to all the participating students and cash prizes were awarded to the top three position holders.

Editing Skills in Photography

A seminar on "Editing Skills in Photography" was held on December 12, 2018. The seminar was supervised by Ms. Humera Aftab Sheikh, under the umbrella of JSpark society. The guest speaker of the day was Mr. Zulqarnain Ali Syed who is a computer scientist, roboticist, graphics designer and photographer. The guest speaker started off with basic editing skills in photography and moved on to the complex one. He provided maximum information in a short span of time. He also introduced the tools and the software used to edit pictures.



After sharing the information related to photography editing skills, he considered queries and questions from the audience and answered them properly with the help of examples. At the end of the seminar he shared his personal experience related to his final year project just to give us a reason and motivation to gain interest in this field. A large number of students attended the seminar and found it really interesting and fruitful. In the end, souvenir was awarded to the guest speaker and Hi-tea was served.



Naat Competition

Department of Computer Science, Capital University of Science and Technology, Islamabad arranged a Naat Competition on December 17, 2018. The event was organized by Ms. Humera Aftab Sheikh, under the umbrella of JSpark. In this competition, around 23 students participated with great spirit of love and devotion for the Holy Prophet Muhammad (SAW). The event was attended by a lot of devotees. There was a close competi tion among the contestants which made the task of judgement difficult. The sacred event ended with the certificate distribution ceremony among the first three position holders and all participants as well.

Qirrat Competition

Department of Computer Science, Capital University of Science and Technology, Islamabad organized a Qirrat Competi tion for the students. It was organized by Ms. Humera Aftab Sheikh, under the umbrella of JSpark Society. Around 15 Qari parti cipated in the event and a lot of audience were present at the blessed occasion. The sacred event ended with the certificate distribution ceremony. First three position holders were awarded certificates while the rest of the contestants were also given participation certificates. Hi-tea was served to the judges and faculty members at the end.

Mock Interview Session for Graduate Students

Department of Computer Science, Capital University of Science and Technology, Islamabad arranged a Mock Interview Session for the Graduate students of Computer Science. Volunteers from the industry were requested to conduct this session. Mr. Ali Raza Nemati (CTP, CIFE & CLDP), Mr. Ahmed Qazi (United Nations), Ms. Sehrish Jahangir (HR Manager APEX), Mr. Muhammad Tariq (CEO, Macrocon) and Mr. Aziz Ullah Khan (MTO, Macrocon) had been cooperative enough to accept the request of the department and conducted the session successfully which proved really fruitful for the students.

The main objective of the session was to enable students to enhance their skill for preparing themselves for future recruitment opportunities This mock interview session was great opportunity for the fresh graduates to get to know what interview questions might be expected and how to articulate their thoughts during an interview. A mock interview can help students to formulate smart answers and show where their weak spots are. Thematic focus of the session was to boost student's selfconfidence, communication and intrapersonal skills, educational and professional knowledge, appearance and dressing which will help them in a real job interview in the future. In the closing ceremony, Dr. Nayyer Masood, Head of Computer Science Department presented souvenir to the guests from the industry.



Self Defense & Fitness

Software Engineering Program organized a seminar on "Self Defense & Fitness" on December 18, 2018 under the supervision of Ms. Asma Naz and SE Society. The seminar was organized to spread the awareness among male and female students about the importance of self-defense and health that how they can make themselves strong and prepare for any critical situations. The yoga instructors motivated the female students and told them that they are not less than boys. They should be strong enough to face any problems. In the end, chief guest delivered a lecture on the importance of self-defense & fitness and its benefits. Dr. Aamer Nadeem, Head of Software Engineering Program presented the shield to the chief guest. It was a knowledgeable session for the students.





Welcome Party-New Faculty

Department of Computer Science, Capital University of Science and Technology, Islamabad arranged a welcome party for the newly inducted faculty. A dinner was arranged in the river side café for all the faculty members. The event was attended by all. The event was also attended by the Dean Faculty of Computing, Dr. M. Abdul Qadir and the Head of Computer Science Department, Dr. Nayyer Masood. In a very pleasant environment the new faculty was welcomed warmly.

Oath Taking Ceremony CUST Student Branch

The Oath Taking Ceremony, CUST Student Branch was held on October 17, 2018 under the supervision of Mr. Qazi Abdul Moqueet. All the EXCOM members attended the ceremony along with concerned faculty members. The ceremony started with the recitation of Holy Quran. Hina Khalil Raja, Ex-chairperson IEEE CUST Student Branch was invited to take the oath from the newly selected EXCOM members. The main purpose of this ceremony was to officially announce the new executive committee and encourage them for upcoming challenges. In the end Mr. Qazi Abdul Moqueet addressed the new EXCOM, following the hi-tea.

Seminar on Presentation Skills

WIE Chapter IEEE CUST Student Branch organized a seminar on "Presentation Skills" on December 14, 2018. The guest Speaker was Mr. Qazi Abdul Moqueet, lecturer, Department of Electrical Engineering, Capital University of Science and Technology. He is also the Patron of IEEE CUST Student Branch Islamabad. The main purpose of seminar was to make students



aware of how to deliver the best presentations, with the aim to make the presentations successful and for this, how to plan presentations. The guest speaker gave really good tips and practical suggestions to the students to improve their presentation skills. At the end, students paid a lot of thanks to the guest speaker.

Educational Trip to Mangla Power Station

IEEE CUST Student Branch arranged field trip to Mangla Dam & Power Station for undergraduate students of final year of Department of Electrical Engineering on October 27, 2018 under the supervision of Mr. Qazi Abdul Moqueet. 60 students along with 03 faculty members went on the trip. The key purpose of this trip was to enhance the concepts related to power generation and its transmission. At the power station, students met with power house authorities who briefed the students about power house. Right after that students visited generating station where they were briefed about turbines and governor stations. In addition to generation capacity of that power station is 996 Megawatt. Further, students were served with lunch at Mirpur, AJK. After the lunch buses departed for CUST and reached the campus at 6:00 pm.

Seminar on Women Empowerment

On October 25, 2018 WIE Affinity Group IEEE CUST Student Branch organized a seminar on the topic of "Women Empowerment" under the supervision of Ms. Maria Mashkoor (Patron of WIE IEEE CUST STB). The guest speaker of the event, Ms.



Syeda Hifza Miraj is an anchor person of a TV show "The Healing Room" and also GS Marketing of Robotics and Automation Society IEEE. Mr. Abdullah Sajid hosted the event.

The main purpose of seminar was to make women realize that how important they are, to discover their strengths and areas of interest, to set goals and to have explicit path in life, with the aim to be successful and prosperous. The primary aspect, scrutinized by the guest speaker was how girls can prepare themselves for the challenges in life, how they can compete in life and how they can develop skills to improve social behavior. The seminar provided students with an opportunity to look into their own strengths and use them to excel in life. At the end, souvenir was presented to Ms. Hifza Miraj.

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IEEE Day 2018 & Announcement of EXCOM 2018-2019

IEEE CUST Student Branch celebrated IEEE Day 2018 following the announcement of new EXCOM for 2018-2019 under the supervision of Mr. Qazi Abdul Moqueet on October 06, 2018. The guest of the event was Mr. Syed Fahad Sajid (SSR IEEE Islamabad Section). Vice Patron IEEE CUST Student Branch, Mr. Osama Akbar Raja and Patron WIE IEEE CUST Student Branch, Miss Maria Mashkoor also graced the occasion. The main purpose of this event was to appreciate the achievements of previous EXCOM and also to encourage newly appointed members. In addition to, celebration of IEEE Day to enlighten its aspects worldwide. In the end Mr. Qazi Abdul Moqueet announced the new EXCOM 2018-2019. In the end, cake was being cut to celebrate the IEEE day.

Training Session on V Tools

A Training Session on V tools was held on October 26, 2018 under the supervision of Mr. Qazi Abdul Moqueet. The guest speaker was Mr. Muhammad Zeeshan Javed, the Chairperson enhanced the importance of V tools, mentioning that volunteer tools (v tools) site provides information on a wide range of tools developed by volunteers for IEEE members and IEEE volunteers. The key purpose of this session was to give training to the newly hired EXCOM about the way to pin events on it and to keep an up to date record of their respective branch's activities.

Guidance Session about Undergraduate & Graduate Projects

IEEE CUST Student Branch organized the guidance session for students of undergraduate and graduate regarding selection of their respective final year project and thesis on October 29, 2018. Prof. Dr. Naeem Ramzan, University of the West Scotland was invited as the guest speaker. Key purpose of arranging this session was to guide the students for better selection of their projects and thesis. He mentioned that one's project should be some unique work that doesn't exist before. In addition to, he elaborated how Multi model Interface, Network Media App, Multimedia Processing and Machine Learning help in development of new things. Moreover, work on publications should be done which help one in his career as well. The session proved to be very fruitful for the students.



Seminar on How to Organize a Seminar?

WIE Chapter IEEE CUST Student Branch organized a seminar on How to Organize a Seminar?" on October 19, 2018. The guest Speaker, Miss. Maria Mashkoor is an Assistant Professor of BBA Program and social events coordinator. She is the Patron of WIE Affinity Group IEEE CUST Student Branch.

The main purpose of seminar was to make students aware of how to organize a seminar with the aim to make it successful and for this, how to handle the organizing team. The primary aspect, scrutinized by the guest speaker was how students can prepare themselves for arranging a seminar. The seminar provided students with an opportunity to look into their own strengths and use them to excel in life. At the end, a group photo of all the organizing team along with the guest speaker was taken.





Session on How to Manage WIE?

WIE Chapter IEEE CUST Student Branch organized a session on "How to manage WIE Affinity Group?" under the supervision of Mr. Zeeshan Ahmed, on November 30, 2018. The guest Speaker, Mrs. Qudsia Bano, is a Chair Person of WIE Affinity Group Islamabad Section & Lecturer in Fatima Jinnah Women University and a student of PhD as well. Her field is Computer Engineering.

The primary aspect, scrutinized by the guest speaker was how students can prepare themselves for the challenges in life, how they can compete in life and how they can develop skills to improve social behavior. The seminar provided students with an opportunity to look into their own strengths and use them to excel in life. At the end, students paid thanks to Mrs. Qudsia Bano

Industrial Visit to Attock Gen. Ltd., Morgah, Rawalpindi

Department of Mechanical Engineering, Capital University of Science and Technology, Islamabad organized an industrial visit for the final year students to Attock Gen. Ltd., Morgah, Rawalpindi under the supervision of Dr. Liaquat Ali Khan HoD Mechanical Engineering Department; and Dr. Muhammad Irfan, Industrial Visit Coordinator on December 12 & 13, 2018. Mr. Ahmed Sheikh, Lab. Engr. also accompanied the visit.

The main purpose of the visit was to introduce the students to the power plant environment, their operation, maintenance and the control room activities. The students visited the engine room, fuel treatment facility, waste heat recovery units and the control room. Finally, Mr. Adil Farooq Qureshi, Chief Financial Officer/ Company Secretary delivered a very thoughtful lecture about ethics and morality. Dr. Muhammad Irfan presented a shield as a token of thanks on behalf of the Capital University of Science and Technology, Islamabad for conducting a nice and informative trip.



Industrial Visit to Bestway Cement, Hattar

Department of Mechanical Engineering, Capital University of Science and Technology, Islamabad organized an industrial visit for the 3rd year students to Bestway Cement Plant, Hattar under the supervision of Dr. Liaquat Ali Khan, HoD Mechanical Engineering Department; and Dr. Muhammad Irfan, Industrial Visit Coordinator, on November 22 & 26, 2018. Mr. Saif Ullah, Asst. Prof. and Mr. Abubakr Ayub, Lab. Engr. also accompanied the visit.

The main purpose of the visit was to introduce the students to the industrial environment, observe the industrial practices, broaden their understanding of the mechanical processes, operations and maintenance and experience the application of theoretical knowledge they have learned at the campus in the process industries. Mr. Muhammad Tahir, Deputy Manager (Admin) received the visit at the cafeteria and tea was served. In the meantime, Mr. Muhammad Tahir briefed the students about Bestway group and the cement production process. Dr. Muhammad Irfan presented a shield as a token of thanks to Mr. Muhammad Tahir for conducting a nice and informative trip. Afterwards, the students visited the whole plant in sequence. They observed the operations and equipment including the conveyer belts, pan conveyors, silos, kiln, cement mill, etc. The visit proved to be fruitful for the students.



Dr. Sahar Fazal Head of Biosciences Department, CUST

Q.1. Kindly share your academic and then professional journey with us.

Dr. Sahar. My academic journey started from F.G Girls High School, Multan Cantt. I did my FSc from F.G College for Women, Multan Cantt. Then I joined Bahauddin Zakariya University, Multan for BSc (Hons) in agriculture. I did my MSc (honors) from Faisalabad Agriculture University. Immediately after MSc in 2000, I competed for the PhD scholarship offered by Ministry of Education for China (South China Agriculture University, China). After PhD I got back Pakistan in 2004 and joined Bahauddin Zakariya University, Multan in 2005, I joined Mohammad Ali Jinnah University, Islamabad. In 2008, I went to Sussex, England for Post Doctorate on HEC Post Doc Fellowship. In 2009, I came back and again joined the M.A.J.U. (CUST). Currently, I am an Associate Professor and Head of Biosciences Department, CUST. So far my 20 research papers have been published, 01 PhD student has graduated under my supervision while 05 PhD students are currently under my supervision.

Q.2. What significant role Biosciences are playing in a developing country like Pakistan?

Dr. Sahar. The imperative role of science to national development cannot be neglected. Science questions have immediate concerns and are directed towards solving specific problems or conditions associated with humanity or society such as medical research emphases on finding answers to questions like why cancer cell develop and how to cure that. Other biological sciences pursue questions more distant from current everyday concerns: It can help to eradicate extreme poverty and hunger, ensure environmental sustainability and Improved health in developing countries.

Q.3. What is the scope/job placement opportunity of bio scientists in Pakistan?

Dr. Sahar. The career choices are huge and unlimited in Bioscience. More specific degrees like Biochemistry or others root you in one particular biological discipline, Biological Sciences lets you taste a little bit of everything. All a student requires is good skills with updated knowledge and practical understanding of his/her subject of expertise. Depending on areas of interest and specializations studied within the degree, career options could include scientific research and analysis, environmental and conservation management, ecologist, toxicologist, microbiologist, medical laboratory officer.

Q.4. Being the head of Bioscience Department of CUST, how

MEET THE FACULTY

would you convince the new students to join your department?

Dr. Sahar. Biology is a fundamental and fascinating literal word for all the struggles that human beings are doing in current era for their survival. It's all about life: how things live, created, breath and die. Bioscience helps the individuals to understand the interaction between humanity and the world. It also develops interests in the lives of living organisms in an effort to preserve



them. It plays a very important role in improving their quality of life. Day-to-day requirements of humans are dependent on plants and animals. We rely on them either directly or indirectly as they each contribute something through their life on earth. Without Life there is nothing and without biology there is no life.

Q.5. Your message to the students.

Dr. Sahar. I have one message to the students that is to be honest and do not lose faith in Allah. Put your full effort in life with honest and strong faith in Allah. After that even if you do not succeed then do not be disappointed, you will be awarded at appropriate time when you are in extreme need of some thing. Success achieved by unfair means is always temporary.



SPORTS NEWS

Inter Faculty Hockey Tournament -Fall 2018 enjoyed a lot.

The Inter Faculty Hockey Tournament of Capital University of Science and Technology, Islamabad was scheduled on December 02, 2018. Teams from all Faculties participated in this tournament and showed great spirits. There was a close competition among teams. Team from Management and Social Sciences Department proved their metal and won the tournament while team of Electrical Engineering Department stood as runner up team.



Inter Departmental Lawn Tennis (Singles, Doubles) Tournament-Fall 2018

The Inter Departmental Lawn Tennis (Singles, Doubles) Tournament of Capital University of Science and Technology, Islamabad was held from November 26 to 29, 2018 & December 03 to 04, 2018. In this tournament teams from all departments participated with full zeal and zest.



All teams played well but the team of Electrical Engineering Department excelled and won both singles and doubles tournament while team of Computer Sciences Department stood as a runner up in singles and team of Management and Social Sciences Department stood as a runner up team in doubles tournament. This tournament was conducted in a very organized and cheerful atmosphere and all students

Inter Departmental Snooker (Singles, Doubles) Tournament-Fall 2018

The Inter Departmental Snooker (Singles, Doubles) Tournament was held on December 22, 2018. In this tournament teams of all Department of Capital University of Science and Technology, Islamabad participated. Though all teams performed very well but the team of Electrical Engineering Department excelled and won both singles and doubles tournament while the Computer Sciences Department team stood as a runner up in singles and Management and Social Sciences Department team stood as a runner up team in doubles tournament. This tournament was conducted in a very peaceful atmosphere and provided an opportunity to the students to enjoy a healthy activity.



Inter Departmental Volleyball Tournament-Fall 2018

The Inter Departmental Volleyball Tournament was held from October 15 to 22, 2018. In this tournament teams of different Departments of Capital University of Science and Technology, Islamabad participated. All teams played with great energy. Mechanical Engineering Department team won the tournament while Civil Engineering Department team stood as a runner up team. This tournament was conducted in a very friendly atmosphere and all students enjoyed a lot.



Faraz Kaiser Malik Jinnah Gold Medal, 2018 Department of Mechanical Engineering, CUST

Q.1. Kindly share your academic journey, starting from school till CUST? Had you always been a shining student?

Faraz: I started going to school at the age of 5, and studied in different institutions. My teachers felt that I was doing very well, so I was double promoted more than once over the duration of my school studies. Being curious from a young age about the production and workings of mechanical devices resulted in studying science subjects. I completed IGCSE and A-Levels before joining Capital University of Science and Technology, Islamabad back in 2014.

Q.2. How did you manage to win Quaid-e-Azam Gold medal?

Faraz: As a student member of societies such as ASME and ASHRAE, I was involved in organizing seminars, lectures, competitions and other event, and participating as well, in the university. Having completed my undergraduate studies at the age of 17 with good CGPA may have strengthened my case for Jinnah Gold Medal. I am extremely thankful to my parents, teachers and colleagues, their cooperation played a vital part in this achievement.

Q.3. What role did your parents play in winning this medal and your overall grooming?

Faraz: My parents have had a major role in my success. When I was a child, they encouraged me to engage in productive hobbies such as photography and book reading which helped to build my knowledge at a young age and to make me curious about scientific phenomena. They have provided support throughout my academic career and given me the courage to face hardships.

Q.4. Do you think CUST enhanced your personality?

Faraz: I had never studied at any single academic institution for as prolonged a period as I did at CUST. This alone made for a unique

learning experience where I interacted with the same set of classmates for 4 years. Working on multiple group & individual projects, submitting reports and giving presentations each semester greatly improved my patience, teamwork and communication skills. The faculty also provided valuable guidance regarding future endeavors and career



prospects, thus broadening our minds and helping us set out clear goals for ourselves.

Q.5. What are your future plans?

Faraz: I intend to pursue higher education and to get involved in academia, possibly teaching while carrying out high impact research. It is my goal to work with an international research group involved in solving complex problems, thus providing engineering solutions to improve living standards for my nation as well as the global community. I aim to study topics that address issues of global concern, such as combustion, energy efficiency and climate change.

Q.6. Your advice to those who wish to win Quaid-e-Azam Gold medal in the future.

Faraz: Setting targets for oneself, learning from mistakes and helping fellow students is an important part of getting through the four years of undergraduate studies successfully. In addition to maintaining a good CGPA, it is important to be involved in co-curricular and extra-curricular activities, combine to result in success.

Publications - Fall 2018

- A. Ayub, N. A. Sheikh, R. Tariq, M. M. Khan, C. M. Invernizzi, "Exergetic Optimization and Comparison of Combined Gas Turbine Supercritical CO2 Power Cycles", Journal of Renewable and Sustainable Energy, 2018, 10(4). [Impact Factor : 1.337]
- M. M. Khan, J. Hélie, M. Gorokhovski, "Computational methodology for non-evaporating spray in quiescent chamber using Large Eddy Simulation", International Journal of Multiphase Flow, 2018, 102, 102-118. [Impact Factor : 2.592]
- 3. M. M. Khan, N. A. Sheikh, A. Khalid, W. A. Lughmani, "Experimental

characterization of sprays under highly evaporating conditions" Heat and Mass Transfer, 2018, 54(5), 1531-1543. [Impact Factor : 1.494]

- E. Khalid, S. Manzoor, N. A. Sheikh, M. Ali, H. M. Ali, M. M. Khan., "Numerical Investigation of Transient Response of a Coupled Two Degrees of Freedom Symmetric Airfoil before Flutter", International journal of Aeroacoustics, 2018, 17 (3), 275-294. [Impact Factor: 0.603]
- 5. M. M. Khan, J. Hélie, M. Gorokhovski, N. A. Sheikh, "Experimental and Numerical study of Flash Boiling in Gasoline Direct Injection

20

Sprays", Applied Thermal Engineering, 2017, 123, 377-389. [Impact Factor: 3.771]

- M. M. Khan, N. A. Sheikh, "Experimental characterization of sprays under highly evaporating conditions," Journal of Mechanical Science and Technology, 2017, 31(4), 2015-2022. [Impact Factor: 1.194]
- M. M. Khan, J. Helie, M. Gorokhovski, N. A. Sheikh, "Air Entrainment in Multi hole Gasoline Direct Injection Sprays", Journal of Applied Fluid Mechanics, 2017, Volume 10 (4), 1223-1234. [Impact Factor: 1.09]
- M. Ali, M. H. Iqbal, N. A. Sheikh, H. M. Ali, S. Manzoor, M. M. Khan "Performance investigation of air velocity effects on PV modules under controlled conditions", International Journal of Photoenergy, 2017, 2017, 1-10. [Impact Factor: 1.277]
- M. R. Bhatti, N. A. Sheikh, S. Manzoor, M. M. Khan, "Numerical studies of Hydrogen Peroxide Thermal Decomposition in a Shock Tube using OpenFOAM", Journal of Thermal Science, 2017, 26(3). [Impact Factor: 0.678]
- A. Ayub, N. A. Sheikh, R. Tariq, M. M. Khan "Thermodynamic Optimization of Air Bottoming Cycle for Waste Heat Recovery", Energy Systems for Sustainable development, Lahore, 2018.
- M. Irfan and M. Muradoglu, "A front-tracking method for particleresolved simulation of evaporation and combustion of a fuel droplet", Computers & Fluids, 174, pp.283-299 (2018)
- Madiha Ameer, Sumera Murtaza and Muhammad Aleem, "A Study of Android-based Ransomware: Discovery, Methods, and Impacts", Journal of Information Assurance and Security, ISSN: 1554-1010, Volume 13, Issue 3, Dec 2018, pp.109–117 (Thomson Reuters Indexed, ESCI)
- Altaf Hussain, Muhammad Aleem, Muhammad Arshad Islam, Muhammad Azhar Iqbal, "A Rigorous Evaluation of State-of-the-art Scheduling Algorithms for Cloud Computing", IEEE Access, Dec 2018. (ISI Impact Factor 3.557)
- Shafiq Ur Rehman Khan, Muhammad Arshad Islam, Muhammad Aleem, Muhammad Azhar Iqbal, "Section-Based Focus Time Estimation of News Articles", IEEE Access, PP (99):1-1, DOI: 10.1109/ ACCESS.2018.2882988, Nov 2018. (ISI Impact Factor 3.557)
- Altaf Hussain, Muhammad Aleem, "GoCJ: Google Cloud Jobs Dataset for Distributed and Cloud Computing Infrastructures", Data 3(4), 38; https://doi.org/10.3390/data3040038, MDPI AG, Basel, Switzerland, September 2018. (Thomson Reuters Indexed, ESCI)
- 16. Shafiq Ur Rehman Khan, Muhammad Arshad Islam, Muhammad Aleem, and Muhammad Azhar Iqbal, "Temporal specificity-based text classification for information retrieval", Turkish Journal of Electrical Engineering & Computer Science, Volume 26, No. 6, Pages : 2915–2926, 2018. (ISI Impact Factor 0.580)
- Ammara Sajjad, Aleena Aqdus Khan, Muhammad Aleem, "Energy-Aware Cloud Computing Simulators: A State of the Art Survey", International Journal of Applied Mathematics Electronics and Computers, ISSN 2147-8228, Volume 6, Issue 2, DOI: 10.18100/ ijamec.2018241182, July 2018, pp. 15–20
- Muhammad Shafiq, Muhammad Salman, Muhammad Aleem, "Evaluating Cloud Task Scheduling Algorithms Using Three Synthetic Datasets", In the 3rd International Conference on Emerging Trends

in Engineering, Management and Sciences (ICETEMS-2018), Ref No. ICETEMS-18-205, Peshawar, Pakistan, Oct, 2018

- Anum Munir, Sana Elahi, Nayyer Masood, "Clustering Based Drug-Drug Interaction Networks and Possible Drugs Repositioning against EGFR Mutations", Accepted in Journal of Computational Biology and Chemistry, 75, Page 24-31, (IF= 1.4), 2018
- Gul Jabeen, Nayyer Masood, "Implementation of tuned schema merging (TuSMe) approach", Mehran University Research Journal of Engineering and Technology (HEC Recognized in 'X' Category), Volume 37, No. 4, October 2018, DOI : 10.22581/muet1982.1804.05
- Riaz Ahmad, Muhammad Tanvir Afzal, "CAD : an algorithm for citation-anchors detection in research papers", Scientometrics, 117 (3), pp. 1405-1423, 2018 (IF : 2.173)
- 22. Muhammad Touseef Ikram, Muhammad Tanvir Afzal, Naveed Anwer Butt "Automated citation sentiment analysis using high order n-grams : a preliminary investigation", Turkish Journal of Electrical Engineering and Computer Sciences, 27th July 2018 (IF : 0.578).
- 23. Sajjad Haider, Muhammad Tanvir Afzal, Muhammad Asif, Herman Maurer, Awais Ahmad, Abdelrahman Abuarqoub (2018), "Impact Analysis of Adverbs for Sentiment Classification on Twitter Product Reviews", Concurrency and Computation : Practice and Experience, 29th August 2018, (IF: 1.114)
- Samiullah Khan, Muhammad Abdul Qadir, Fawad Ali Khan, "Adaptive Fast Retransmission With Respect To Receiver Buffer (Rbuf) Space: In Simultaneous Multipath Transmission (Smt)", Malaysian Journal Of Computer Science 31 (3), 228-237, 2018 [2017 Impact Factor 0.65]
- Khan, M., Cao, M., and Ali, M., "Effect of Basalt Fibers on Mechanical Properties of Calcium Carbonate Whisker-Steel Fiber Reinforced Concrete", Construction and Building Materials (Impact Factor = 3.485), Volume 192, Pages : 742-753, 2018
- Khan, M., and Ali, M., "Effect of super plasticizer on the properties of medium strength concrete prepared with coconut fiber", Construction and Building Materials (Impact Factor = 3.485), Volume 182, Pages: 703-715, 2018
- Farooqi, M.U., and Ali. M., "Contribution of plant fibers in improving the behavior and capacity of reinforced concrete for structural applications", Construction and Building Materials (Impact Factor = 3.485), Volume 182, Pages: 94-107, 2018
- Ishtiaq Hassan, "Simulating precipitation and temperature trends in pakistan using three gcms under rcp8.5 scenario." 7th International Conference on Advances in Civil, Structural and Mechanical Engineering - CSM 2018, the IRED, 27-28 October Rome, Italy. 2018.
- Hamdanullah, Sohaib Naseer, "Finite Element Analysis of Piled-Raft Foundation in Clayey Soil", 3rd International Conférence on Emerging Trends in Engineering, Management & Sciences (ICETEMS-2018) Pakistan 2018.
- N. Sohaib, M. Sarfraz Faiz, G. Sana, "Use of Acrylic polymer for stabilization of clayey Soil", International Journal of Scientific & Engineering Research, Volume 9, Issue 11, 433 - ISSN 2229-5518 2018.
- (This list includes only a part of total publications due to shortage of space)

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Capital University of Science and Technology Off Kaak Pul, Sihala Road, Zone-V, Islamabad UAN: (051) 111-555-666 http://www.cust.edu.pk