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Capital University of Science and Technology Islamabad

NEWSLETTER



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CUST Convocation 2019

Convocation 2019 of Capital University of Science and Technology was held on December 05, 2019 in Convention Centre, Islamabad. Altogether, 872 graduates including BBA, MBA, BS, MS, and PhD in the fields of Management Sciences, Electrical Engineering, Mechanical Engineering, Computer Science, Software Engineering, Engineering Management, Project Management, Bioinformatics and Biosciences were awarded degrees.

Chaudhry Fawad Hussain, Federal Minister of



Science and Technology graced the occasion as the Chief Guest. Mian Amer Mahmood, Chancellor Capital University of Science and Technology presided over the Convocation. Prof. Dr. Anis Ahmed and Prof. Dr. Samar Mubarakmand, renowned atomic scientist were the Guests of Honour. A large number of distinguished guests and parents of the graduating students were also present.

Prof. Dr. M. Mansoor Ahmed, Vice Chancellor CUST congratulated the graduates and their parents on

that occasion. He hoped that the graduates will contribute towards scientific and technological development of the country through their ability, dignity, determination and commitment. He highlighted the contribution made by the University in the field of higher education by putting high emphasis on R&D activities and its graduate programs.

Mr. Fawad Hussain Chaudhry appreciated the efforts and contribution of the University in the field of higher education. He also said that in the present day scenario, education does not end with acquiring a degree; it is a lifelong affair exploring new horizons, and broadening of the vision, marching on a never-ending journey towards new frontiers of knowledge. We are now faced with challenges of different types and it is the higher education which plays a key role in determining the position of a nation in today's knowledge driven economy.

Dr. Samar Mubarakmand, in his keynote address shared that education plays a vital role in economic development of a country. It raises the productivity and efficiency of individuals and thus produces skilled manpower that is capable of leading the economy towards the path of sustainable economic development.

In convocation 2019, 31 PhD graduates from different faculties received their PhD degrees. 54 medals, including 39 Gold, 12 Silver and 11 Bronze were also awarded to the graduates who stood 1st, 2nd, and 3rd in their respective degree programs. The 'Jinnah Gold Medal' was also awarded to Mr. Nakhshab Ajaz of BS Civil Engineering, on his overall distinguished performance in curricular and extracurricular activities.



7th International Conference on Biological and Computational Sciences (C-Bics 2019)

The Department of Bioinformatics and Biosciences of Capital University of Science and Technology organized 7th International Conference on Biological and Computational Sciences (C-BICS 2019) on November 28, 2019. 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 ceremony started with the recitation of Holy Quran, followed by talk of Dean Faculty of Health and Life Sciences, CUST 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.

Keynote speakers was Dr. Abida Raza Rao, Principal Scientist Head NILOP Nanomedicine Research Labs (NNRL). At the end of inaugural session, worthy Chief Guest Dr. Zafar Iqbal Qadir, Chairman Taleem Foundation Islamabad shared his experiences with the audience.

Total 205 Participants and guests attended the conference, 37 oral presentations were held in 6 sessions. During poster session, 34 posters from externals and 27 posters from CUST research students were presented.

In concluding session, Prof. Dr. M. Mansoor Ahmed Vice Chancellor CUST graced the event as Chief Guest. Prof. Dr. M. Mansoor Ahmed enlightened the audience with a refreshing and inspiring talk. Prof. Dr. Shaukat Iqbal presented the brief over view of the conference. Shields were distributed among position holders and organizing committee members before formal closure.

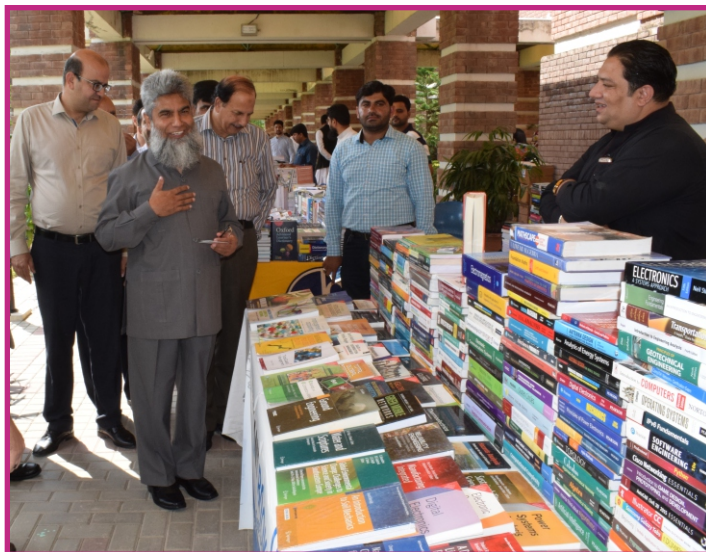


Annual Book Fair CUST-2019

The Library and Information Resource Center, Capital University of Science & Technology, organized "Annual Book Fair 2019" on October 7, 2019. The basic purpose of the Book Fair was to promote the reading culture among students and connect them with the books. Book Fair gives a motivation to read by offering a wide selection of books to choose and buy. Thousands of books on Engineering, Medical Sciences, Management sciences, Computer sciences, Software Engineering and Literatures were displayed by well-known publishers and Book sellers of Rawalpindi/ Islamabad.

Prof. Dr. Muhammad Mansoor Ahmed, Vice Chancellor, inaugurated the book fair. The participants of the Book Fair included faculty members, staff and students.

The Library Staff and Book sellers were thanked and acknowledged by the Vice Chancellor at the end of Book Fair.



8th International Business Research Conference (CIBRC)

The Capital University of Science and Technology (CUST) organized its 8th International Business Research Conference (CIBRC), on December 19, 2019. The theme of the conference was “Management Excellence through Sustainable Change Management”. 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 Dr. Kayoshi Taniguchi, Principal Economist, Asian Development Bank (ADB) and Excellency Madame Teresa

Daban Sanche IMF Resident Country Representative. Dr. Kayoshi Taniguchi 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 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. Madame Teresa Daban Sanche added that students must engage in analyzing the projects at designing phase.

The closing session was graced by Dr. Asad Zaman, Member Pakistan Economic Advisory Council and Mr. Muhammed Ahmed Chairman, Islamabad Chamber of Commerce and Industry (ICCI). 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.



Al-Funoon Gala 2019

IEEE CUST Student Branch organized its annual event named “Al-Funoon Gala 2019” on 18th December, 2019. The event started at 9:00 am with the opening ceremony. Students from all the departments of the university showcased their talent by participating in 16

different modules. These modules include e-gaming, quiz, mushaira, chess, table tennis, scavenger hunt, debate and many more. A motivational session was also arranged for the students. The event ended at 4:00 pm with the closing ceremony, where certificates and souvenirs were awarded to the winners and runners up of specific modules and the organizing team for organizing a splendid event.



IEEE Day 2019

IEEE Day-2019 was commemorated under the umbrella of IEEE CUST Student Branch on October 07, 2019 at Capital University of Science & Technology. The event was divided into two segments, one was speed wiring competition and the other one was photography competition. In the first event, there were ten groups having three members each. The task was to make IEEE emblem using LED lights on breadboard. The group which implemented the circuit correctly in the shortest time was declared as the winner. The main objective of the photography competition was to examine the photography skills of the students and to train them for covering big events. In the end certificates of appreciation were awarded to the winning group and the participants.

SIGHT Week's Celebration

IEEE CUST Student Branch organized an interactive session on December 06, 2019 with the chairperson of IEEE Special Interest Group on Humanitarian Technology (SIGHT), Islamabad section, Mr. Haris Zaman Chaudhary. The session started with the introduction of the guest speaker and then he briefed the audience about SIGHT. He also shared his past experiences for the better understanding of IEEE SIGHT to the audience. In the end, an activity was performed in which



everyone in the audience had to write a social problem and had to provide an idea for its implementation. A bouquet was also presented to the guest and hi-tea was served in the end.

Interviews for EX-COM 2019-2020

IEEE CUST Student branch conducted interviews for new EX-COM for Year 2019-2020. A panel of six conducted interviews which include Mr. Qazi Abdul Moqueet and Mr. Waleed Farooq (Patron and Vice Patron of IEEE CUST Student Branch), Miss. Nayab Ali and Mr. Jahanzeb (Chairperson and Vice Chairperson of IEEE CUST Student Branch), Miss. Maria



Mashkoor and Miss. Sharmeen. The interview sessions continued for three days dated from 30th September 2019 to 2nd October 2019. More than 120 students applied for different posts. Most of the students were very competent and qualified, which made the selection procedure very tough for the panel. At last, the best among them were selected.

MATLAB Competition

MATLAB Competition was held under PES Chapter, IEEE CUST Student Branch on December 02, 2019. The main aim of this event was to provoke competitive spirit among the students. Moreover, it also helped them to gain substantial experience. Besides, its key purpose was to boost confidence level in students and provide them a platform to showcase their skills in MATLAB. Mr. Hamza Attique Rana was the winner of this event. In the end certificates were distributed among all the participants.



PES Inaugural & Oath Taking Ceremony of EX-COM 2019-2020

IEEE CUST Student Branch hosted the oath taking ceremony for the Executive Committee 2019-2020 on October 24, 2019. The event started with the recitation of the Holy Quran. First, Mr. Qazi Abdul Moqueet encouraged all the new members for joining the organization. Then the Ex-Chairperson of the IEEE CUST Student Branch, Mr.

Muhammad Zeeshan Javed marked the importance of joining the IEEE CUST student branch. Then, he took oath from all the new Ex-Com members. The inaugural ceremony of Power and Energy Society (PES), a new chapter held after taking the oath from the members. The event was concluded with PES inaugural cake cutting and hi-tea.



Power Soul Competition

Power Soul Competition was organized under the umbrella of PES Chapter, IEEE CUST Student Branch on December 02, 2019. The purpose of this event was to provoke competitive spirit among the students. Moreover, it also helped them to gain substantial experience. The main objective of the event was to boost confidence level in students and provide them a platform to showcase their skills. Mr. Iqar was declared as the winner of the competition. In the end, certificates were distributed among the participants.

Prolog Based Artificial Intelligence Competition

Computer Society, IEEE CUST Student Branch



organized the competition named "Prolog Based Artificial

Intelligence Competition". This event was held under the supervision of Mr. Muhammad Saqib. Challenging task related to Artificial Intelligence was given to the participants and in the end the most competent participant was declared as the winner. In the end Mr. Muhammad Saqib distributed the certificates of appreciation to the winners and all participants of AI Competition.

Stefan Bergmann's Session on High Voltage Lab's Importance

Stefan Bergmann, from HIGHVOLT Prüftechnik Dresden GMBH Germany and Engr. Shahab ud Din of Rastek Technologies were approached by IEEE CUST Student Branch to have a session with the Head of Department Dr. Noor Muhammad Khan and other faculty members of Electrical Engineering Department, CUST on September 27, 2019. The solitary purpose of this meeting was to enlighten the importance of HIGH VOLTAGE in the department of Electrical Engineering. The delegation proposed a detailed plan regarding installation of HIGH VOLTAGE lab for the students of Electrical Engineering Department. They mentioned that the lab must contain right technology for every testing situation, including different types of AC and DC test systems, impulse voltage and impulse current test systems and the measurement equipment associated with it.

Body Image

WIE Affinity Group, IEEE CUST Student Branch organized a seminar on “Body Image” on October 14, 2019 under the supervision of Ms. Maria Mashkoor. The honorable speaker of the event was Ms. Sonia Lodhi, Director of 36 days fitness challenge. By profession she is a fashion designer but five years ago she left her profession and focused on fitness. She is a trainer, international certified fitness expert and motivational speaker. Right after the recitation of Holy Quran Ms. Sonia Lodhi delivered an informational lecture on fitness. She insisted upon daily exercise routine. She mainly focused on the health and fitness maintained by continuous workouts and highlighted the misconceptions regarding proteins intake. The specific objective of the seminar was

to analyze on goal about gym. She suggested to gradually start gym and carry it on daily basis. At the end there was an activity of pushups challenge and a question answer session.



Dengue Awareness

WIE Affinity Group, IEEE CUST organized the seminar on topic “Dengue Awareness” on October 11, 2019 under the supervision of Ms. Maria Mashkoor. The guest speakers were “Dr. Nadia Shamshad Malik” and “Mr. Zulkifal Malik”. Dr. Nadia Shamshad, Assistant Professor in Pharmacy Department of CUST. Mr. Zulkifal Malik is serving as Lecturer in Pharmacy department of CUST. The guests

Zulkifal Malik focused on the treatment of dengue virus in which he highlighted the advice for patients, preventions and home remedies for dengue fever. At the end there was a question answer session. It was a fruitful session for the students.

Thalassemia Awareness Talk

On October 08, 2019 a seminar on “Thalassemia Awareness” was held under the supervision of Mr. Saboor Amed. The guest speaker was Mr. Mohammad Iqbal. He is the Chairman of Kashif Iqbal Thalassemia Centre and President Thalassemia Federation of Pakistan. He was also awarded with Quaid-e-Azam award. He was also given award in England Parliament. The guest speaker told the students about the issues which are arising in our country because the people are unaware of this condition. Thalassemia is a blood disorder passed down through families (inherited) so he raised awareness related to this. He shared his entire life experiences and what he has gone through for getting treatment of Thalassemia for his son. Session proved to be very fruitful for the students.



were received with bouquets. Dr. Nadia Shamshad delivered an informational lecture on the Dengue Fever with the brief description of statistical information gathered in different regions including America, Africa, The Middle East, Pacific Islands and Asia. She explained in details the originating point of this dengue mosquito. She added the types of fever caused by infected mosquito or severe dengue mosquito. Dr. Nadia Shamshad discussed the symptoms at different stages of dengue fever and its diagnosis. The awareness and safety precautions were also directed. After that, Mr.



Sensor Based Communication Using Harmonic Potential Fields

Control Systems Society, IEEE CUST Student Branch organizes CASPR meeting. A topic of this session was “Sensor Based Communication Using Harmonic Potential Fields” held on October 29, 2019 under the supervision of Dr. Aamir Iqbal Bhatti. Honorable speaker was Dr. Waqas Afzal. He gave his presentation on the Sensor-Based Communication-Aware Path Planning Using Harmonic Potential Fields. Right after the recitation of Holy Quran, Dr. Waqas Afzal delivered his presentation. He mentioned that mission planning and execution has gained a lot of attention in recent years. Also, falling costs and increasing efficiency of sensors have

significantly increased the interaction of agents with their environment. The aim of this study was to induce motion in agents operating in cluttered environments using techniques that integrate sensing, motion, control and communication constraints. Control signals that move the agent in a manner that enhances the communication performance of the agent, based on realistic channel models that include the effects of path-loss, shadowing and multipath propagation, are studied. During his presentation questions were also being asked.

Timer Implementation Competition on PLC

Control Systems Society, IEEE CUST Student Branch organized a Timer Implementation Competition on PLC on December 17, 2019 under the supervision of Engr. Attabik Tabib. In this competition 4 teams participated, each comprising of 5 members. Timers and counters have been in existence for as long as relays and provide an important

component in the development of logic. Timers were constructed in the past as an add-on device to relays slowing down the transition of the plunger from immediately opening or closing. The time delay was accomplished with a pneumatic bladder that allowed the air to escape either quickly or slowly depending on the setting of the timer. In the end certificates were awarded to the winner and runners up teams.

BOG Meeting of CUST Held at Islamabad

The meeting of Board of Governors (BOG) of the Capital University of Science and Technology was held on December 04, 2019 at Islamabad. Mian Amer Mahmood, Chancellor of the University presided over the meeting. Dr. Samar Mubarakmand, renowned scientist; Mr. Muhammad Saeed Mehdi, Former Federal Secretary; Mr. Wahaj us Siraj, CEO, Nayatel; Senior Academician of the University and other members of

BOG participated in the meeting. The Vice Chancellor gave detailed presentation to the BOG regarding the major academic activities/operations of the University. The Board discussed the agenda and gave approval for the academic and operational matters.

The members of the Board appreciated and showed satisfaction over the academic growth of the University. The members hoped that the University will continue to grow its academic excellence and provide educational corridor and oversees to the new generation of the country.



Web Front End Designing Competition

Computer Society, IEEE CUST Student Branch organized the competition named Web Front End Designing Competition. This was held under the supervision of Mr. Fawad bin Tariq. Challenging task related to Web Front End Designing was given to the participants and the most competent participant was declared as the winner. In the end, Mr. Fawad bin Tariq distributed the certificates of appreciation to the winners of the mentioned competition.

Web Development Skills

A seminar was arranged to enhance Web Development Skills of the students. The seminar was organized by the Software Engineering students of Technical Report Writing, Section 1. It was conducted under the supervision of Ms. Humera Aftab. Seminar started with the recitation of Holy Quran and then the Guest speaker, Mr. Umair Jassa, an alumna of MAJU was invited to share his knowledge and skills with the students. Mr. Umair Jassa is successfully running his own Software House. The purpose of seminar was to engage students in the discussion of an academic subject with an aim to gain a better insight into

the subject. Web development broadly refers to the tasks associated with developing websites for hosting via intranet or internet. The web development process includes web design, web content development, client-side/server-side scripting and network security configuration, among other tasks. It was a good experience for students to learn more about web development. The students enjoyed the interactive session and it was a good opportunity to understand things in a better way. At the end of Seminar, a shield was presented to the guest speaker by Ms. Humera Aftab. Hi-tea was served to the guest speaker and the faculty members.



Fun-Filled Football Freestyle Event

An amazingly fun-filled football freestyle event was organized by Capital Media Club (CMC), capital University of Science and Technology. Irish born Pakistani football-freestyler, Mirza Shahrukh Baig featured the show and exhilarated the audience by showcasing his amazing football

freestyle skills. The event rendered a surprised appearance of infamous YouTuber, Shahveer Jaffery. The auditorium echoed with cheers and rumbles by the audience. Team-CMC took all joyous moments and captured them into their camera-rolls to cherish them with all!



Astrobiology and Extremophile Microbiology

A seminar on “Astrobiology and Extremophile Microbiology” was organized by the Genix Society of Department of Biosciences, Faculty of Health and Life Sciences, Capital University of Science and Technology Islamabad, on October 17, 2019 under the supervision of Dr. Arshia Amin Butt. The program started with the recitation of Holy Quran followed by an introduction of the guest speaker, Dr. Fariha Hassan, Professor of Microbiology, Quaid e Azam University Islamabad.

Dr. Fariha Hasan, started the seminar with a brief introduction of Astrobiology and Extremophiles. Further, she discussed about the possibilities of Life in outer space. The main aim of the seminar was to deliver the idea and knowledge about the vastness and immensity of the universe and to inform the students that there are planets besides earth which are habitable and suitable for the survival of

life. Overall the session was interactive, students showed quite an interest in the topic. Students asked questions to the guest speaker after the seminar ended. The souvenir was presented to the guest speakers by the Genix Patron, Dr. Erum Dilshad along with Dr. Arhsia Amin Butt and Hi-tea was served to the guest speaker and the faculty afterwards.



Educational Trip to Margalla Hills National Park, Trail-5

An Educational trip was organized on December 07, 2019 by the Department of Bioinformatics and Biosciences to Margalla Hills National Park, Trail-5, Islamabad. It was held under the supervision of Dr. Arshia Amin Butt and Mr. Ziauddin Tanoli. The Islamabad Wildlife Management Board welcomed the students and faculty on their arrival and briefed them on the biodiversity present across Margalla Hill National Park, particularly trail-5 which was very informative and gave the students an in depth knowledge and idea about the diversified wildlife, ecosystem present.

Mr. Shujjat Hussain and Mr. Shafaqat (Wild Life Officers) engaged the students in seed ball activity and highlighted the significance of conservation of native plant species. Despite its small size, the fauna of the MHP is quite diverse

due to its rich variety of habitats including thick vegetation cover and steep hillsides that provide shelter to a variety of animals, birds, and reptiles. The national park was setup to provide refuge to the Grey Goral, Barking Deer and the Leopard, as well as the Rhesus Monkeys, Jackals, Wild Boars, Porcupine, Mongoose and the Pangolin or scaly anteater. This park has been placed in The World Conservation Union (IUCN) Management Category V (Protected Landscape). After the educational session the IWMB let the students to proceed for hiking of trail-5 which is estimated to be 5 or 6 km and takes about 3.5 hours to cover the hike till the peak. Overall the trip was quite entertaining, informative and the students enjoyed outdoor learning.



Educational Trip to National Tea and High Value Crops Research Institute

An educational trip was organized on October 05, 2019 by the Department of Bioinformatics and Biosciences to National Tea and High Value Crops Research Institute Shinkari, Mansehra. It was held under the supervision of The Head of Bioinformatics and Biosciences Department, Dr. Sahar Fazal and Dr. Erum Dilshad, Patron Genix Society; accompanied by Dr. Arshia Amin Butt, Miss Fatima and Mr. Ziauddin Tanoli. The trip was organized in a well-managed

and entertaining way which also provided the students with great knowledge and information about the research being done on plants and the benefits of high value crops being used and produced for the betterment of Pakistan. The students were given a tour of the institute and educated about the process of making tea of different varieties such as, white tea, green tea and black tea using advanced machinery and technology.



Graduate Research Seminars

In almost every week, Dept. of Computer Science, Faculty of Computing holds Graduate Research Seminar which is formally announced. The faculty members and PhD scholars attend this seminar and the designated scholar presents

his/her research work and progress. The main purpose of research seminars is to provide a forum where scholars are guided that how they can define research gaps and novel solutions of their research problems.

In Fall 2019, a total of 10 research seminars were held on the following topics.

Date	Scholar Name	Topic
26-Sep-2019	Rabia Asif	Name Entity from English Text
11-Oct-2019	Rafiullah Khan	Privacy Exposure Measure (PEM): A Privacy Preserving Technique for Private Web Search
18-Oct-2019	Saifullah Saifi	Socially-Aware Adaptive DTN Routing Protocol
25-Oct-2019	Mohib Ullah	ObScure Logging (OSLo): Single group privacy-preserving protocol for private web search
08-Nov-2019	Altaf Hussain	SLA RALBA: cost efficient and resource aware load balancing algorithm for cloud computing
13-Dec-2019	Muhammad Asif	Resource-aware scheduler for streaming applications on Cloud
20-Dec-2019	Lubna Zafar	Impact of Field of Study Trend on Citation Count
27-Dec-2019	Waqas Ahmed	FLAG-PDFe: A framework for Structure and Metadata extraction from digital scientific publications using textual and geometric features
03-Jan-2020	Said Nabi	RADL: A Resource-Aware Dynamic Load-balancer for Deadline Constrained Cloud Tasks
10-Jan-2020	Sajjad Haider	GrRB: Automatic Identification of Eyewitness Messages on Twitter during Disasters

New Induction Faculty Fall-2019

S#	Name	Designation	Qualification	Institution	Department
1.	Dr. Irfan Anjum Manarvi	Professor	PhD	University of Strathclyde, Glasgow, UK	Mechanical Engineering.
2.	Dr. M. Shahid Iqbal Malik	Asstt. Professor	PhD	Int. Islamic University, Islamabad	Software Engineering
3.	Dr. Nadeem Anjum	Asstt. Professor	PhD	Queen Mary University of London, UK	Computer Science
4.	Dr. Maryam Abdul Ghaffoor	Asstt. Professor	PhD	LUMS, Lahore	Computer Science
5.	Dr. Sabahat Haqqani	Asstt. Professor	PhD	The University of Edinburgh, UK	Management & SS
6.	Dr. Ishrat Yousaf	Asstt. Professor	PhD	University of Peshawar	Management & SS
7.	Dr. Shahzia Faiz	Asstt. Professor	PhD	CUST, Islamabad	Management & SS
8.	Dr. Samyia Safdar	Asstt. Professor	PhD	University of International Business and Economics, China	Management & SS
9.	Dr. Jamshid Ali Turi	Asstt. Professor	PhD	University Malaysia Pahang, Malaysia	Management & SS
10.	Mr. M. Umer Jadoon	Lecturer	MS	NUST, Islamabad	Civil Engineering
11.	Mr. Huzaifah Zahran	Lecturer	MS	University of Sheffield, UK	Civil Engineering
12.	Mr. M. Wajahat Ali Khawaja	Lecturer	MS	UET. Taxila	Civil Engineering
13.	Mr. Talha Bin Tahir	Lecturer	MS	NUST, Islamabad	Civil Engineering
14.	Mr. M. Rizwan Siddiqui	Lecturer	MS	GIKI, Topi, Swabi, KPK	Mechanical Engineering
15.	Mr. M. Zia Ullah Khan	Lecturer	MS	Arizona State Uni. Arizona, USA	Mechanical Engineering
16.	Mr. Muhammad Sulaiman	Lecturer	MS	GIK, Institute KPK	Computer Science
17.	Mr. Shahzad Qaiser	Lecturer	MS	University Utara Malaysia Kedah, Malaysia	Computer Science
18.	Mr. Arslan Amjad	Lecturer	MS	PIEAS, Nilore, Islamabad	Computer Science
19.	Mr. Muhammad Hammad	Lecturer	MS	FAST, Islamabad	Computer Science
20.	Mr. Affan Ahmad Toor	Lecturer	MS	SZABIST, Islamabad	Computer Science
21.	Hafiz Abdul Basit Shah	Lecturer	MS	HITEC University, Taxila	Computer Science
22.	Ms. Talat Noureen	Lecturer	MS	HITEC University. Taxila	Software Engineering
23.	Ms. Rabia Afzal Minhas	Lecturer	MS	UET, Taxila	Software Engineering
24.	Mr. Younas Khan	Lecturer	MS	NUST, Islamabad	Software Engineering
25.	Ch. Anwar ul Hassan	Lecturer	MS	COMSATS, Islamabad	Software Engineering
26.	Ms. Bushra Sharif	Lecturer	MS	NUST, Islamabad	Software Engineering
27.	Ms. Anam Ijaz	Lecturer	MS	UET, Taxila	Software Engineering
28.	Ms. Namra Mubarak	Lecturer	MS	CUST, Islamabad	Management & SS
29.	Mr. M. Irfan Mustafa	Lecturer	MS	CUST, Islamabad	Management & SS
30.	Mr. Danish Hamid	Lecturer	MS	FAST, Islamabad	Management & SS
31.	Mr. Akash Syed	Lecturer	MS	COMSATS Abbottabad Campus	Pharmacy
32.	Mr. Muhammad Majid	Lecturer	MS	QAU, Islamabad	Pharmacy
33.	Mr. Fahad Khan Tareen	Lecturer	MS	QAU, Islamabad	Pharmacy
34.	Mr. Muhammad Yasir	Lecturer	MS	COMSATS University, Islamabad	Pharmacy

Shining Star of Computer Science Department, CUST

Aleena Zahid

Aleena is a student of Computer Science Department, CUST. She was nominated by the CS Department to apply for Huawei scholarship which she was able to win. She shares her learning experience at Huawei and tour to China with CUST Newsletter.

Q.1: Tell us about the Program “Huawei Seeds for the Future”, and how did you get selected for it?

Aleena: “Huawei Seeds for the Future” is a scholarship program which selects students from over 30 countries for an opportunity of two weeks’ study trip to China. The program is fully sponsored by Huawei. The visit is divided into two parts. First 3 to 4 days are spent in Beijing and the rest of the stay is in Shenzhen where Huawei headquarter is located. In Beijing, students are familiarized with the Chinese culture and language. They take classes at Beijing Language & Culture University. There they are taught Chinese language and Chinese Calligraphy. At Shenzhen, students visit the Huawei Headquarters and are given a hands-on ICT training.

I got selected for this program on the basis of my CGPA. The university had to nominate a student from Computer Science Departments, having the highest GPA in the batch and the student had to be in the 3rd or final year. I fulfilled the criteria and won this scholarship, a great opportunity to learn and an exposure to Chinese culture and language.

Q.2: What did you learn from this program?

Aleena: Honestly, I learned a lot. All those things that I have learned in three years in classroom were turned tangible. In my first class at Huawei training university, I got to know that there was so much more to Huawei than making smartphones. I learned that Huawei is one of the biggest vendors of telecommunications equipment and services, building telecommunications networks and manufacturing communications and smart devices. Huawei is contributing greatly to the field of artificial intelligence and internet of things and how it has achieved so much success in the realm of 5G. They taught us how these 3G, 4G and 5G technologies operate and how they differ from each other. We visited Huawei Research and Development Center and Exhibition Center where all Huawei’s latest technology was displayed. Huawei’s mission is to bring digital to every person, home and organization in order to build a fully connected world.

Seeing a company of this much magnitude, operating so smoothly and so efficiently, I got really inspired. Everyone and everything at Huawei was so organized and disciplined, despite having nearly 60,000 employees based at Shenzhen headquarter. One thing that

I found really interesting was the nap time at Huawei. Huawei’s employees, after their lunch break, come back to their cubicles and sleep on their roll-beds with all the office lights turned off and blinds drawn for an hour approximately. It gives a break to the mind and refreshes the employees, and enables them to resume with focus and revitalized energy.

This program has offered me so much to experience and so much to remember. I got to know the Chinese culture and Chinese people and I loved both. It has instilled a great interest in me to read and know more about Chinese history and culture.

Q.3: Which cities did you visit in China and share your visit to some memorable places?

Aleena: First I visited Beijing and then I went to Shenzhen. Both are largest and highly developed yet quite dissimilar cities. Though Beijing is the Capital of China and has historical appeal with wonders like the Great Wall of China and the Forbidden City, I found Shenzhen far more beautiful and attractive. Even with



all the skyscrapers, Shenzhen doesn’t feel crowded as the tall buildings are located far from each other giving the city an open view. A beautiful coastal city that stands against mountains.

The Great Wall of China is so glorious. I also visited the Olympic Green Park in Beijing where I was blown away by the spectacular architecture of the buildings. In Shenzhen I visited the Shenzhen museum, Dameisha beach, Splendid China Folk Village, Shenzhen Fairy Lake Botanical Garden and saw the Shenzhen light show at Shenzhen Civic Centre. I had the most extraordinary experience of seeing the beautiful temple surrounded by greenery. There were so many temples, all having a god for a specific purpose.

Q.4: Share few words to guide you juniors?

Aleena: I must say to my juniors that they should keep looking for any such scholarship as they provide an opportunity to learn a lot and the exposure to a new culture itself is fascinating. Keep working hard and confidently apply for any such opportunity as our department and university fully supports its students.

Welcome to Pharm-D Pioneer Fall-19 Batch

Capital University of Science and Technology (CUST) organized orientation/welcome party for the newly enrolled students of Pharm-D. Orientation/welcome party was held on November 11, 2019. The event was arranged to give a brief overview to the newly enrolled students regarding curriculum, university rules and regulations and teaching methodology etc.

Prof. Dr. Muhammad Mansoor Ahmed, Vice Chancellor CUST addressed the students and welcomed them. He informed the students that you are a unique and talented mix of students who have come to join us from every corner of the country. We are all happy and excited to receive you as newly born members of this great family called as CUST family. The CUST community consists of academicians, administrators, and support staff who are all

dedicated to ensure that you achieve your goals. We have endeavored and we shall continue to provide facilities in the form of books, workshops/ laboratories to facilitate the program. After the briefing session, students were taken on a visit to the campus, including the library, academic blocks and other important sections. Later on, lunch was served to the students and accompanied parents.



Khewera Mines

Department of Civil Engineering organized a site visit for students to “Khewera Mines” under the supervision and team lead of Engr. Muhammad Usman Farooqi on November 17, 2019. The faculty members of department demonstrated the geological conditions and briefed about the soil strata and their variation in different region. Faculty members also briefed about the effects of salt range in potable and drinking water. The sole purpose of the visit was to familiarize the students of Batch 2018 with the

Geological Site and strata of soil.



Building Codes

A seminar was conducted in Civil Engineering Department, Capital University of Science and Technology Islamabad on October 25, 2019. The target audience was students of Civil Engineering. The guest speaker was Engr. Asad Mehmood, Technical Manager at Energy Conservation Fund-National

Energy Efficiency & Conservation Authority Pakistan. Engr. Asad Mehmood delivered a very well-structured lecture which covered and highlighted every aspect of “Building Codes”. At the end, a souvenir was presented to Engr. Asad Mehmood by Engr. Dr. Ishtiaq Hassan, the Head of Civil Engineering Department.



1st Conference on Sustainability in Civil Engineering

First Annual Conference on Sustainability in Civil Engineering was held by Civil Engineering Department, CUST to emphasize on the importance of sustainability in the field of Civil Engineering. It also provided a platform for Civil Engineers from academia and industry to share their experiences and different research findings in relevant specializations.

Engr. Dr. Majid Ali chaired the conference with the help of Conference Secretary, Engr. Sohaib Naseer. Separate parallel sessions of different specialties were held where researchers and engineers interacted and tried to enhance their understandings of sustainability in the field of civil engineering. Six renowned and enlightened keynote speakers were invited for opening edition of conference presentations. A total of 132 manuscripts were received

internationally. All papers were undergone double blind review process by a review committee comprised of 46 PhDs serving in different honored international industries and institutes. A total of 59 papers were presented in conference after final review.

Vice Chancellor CUST, Prof. Dr. Muhammad Mansoor Ahmed also attended the opening ceremony of CSCE' 19 and gave his encouraging remarks towards the conduct of conference. Civil Engineering Department CUST organized and participated in conference chores wholeheartedly to make the event successful. The conference sessions were proceeded by two mid tea breaks and a lunch. During the lunch buffet, participants were distributed with their conference certificates. All the participant of conference including authors, presenters and audience gave their worthy feedbacks at the end to help make this event more emerging successful the following year.



Development Projects in Public Sector

Department of Civil Engineering organized a seminar on "Development Projects in Public Sector" under the supervision of Engr. Sana Gul and Engr. Wajahat Ali on December 16, 2019. The guest Speaker, Engr. Sumera Khalid is a Civil Engineer by profession, she did her Masters in Structural Engineering from UET Taxila, currently serving as A/X En (Civil works,) and Infrastructure & Services Design Engineer at Planning & Development Directorate Fatima Jinnah Women University Rawalpindi. Engr. Sumera Khalid delivered a very well-structured lecture which covered and highlighted every aspect of Development Projects in Public Sector. At the end, a souvenir was presented to Engr.

Sumera Khalid by Engr. Usman Farooqi, Assistant Professor, Department of Civil Engineering.



Social Responsibility: In the light of Surah Al-Furqan

Department of Civil Engineering organized a seminar on “Social Responsibility: In the light of Surah Al-Furqan” under the supervision of Engr. Faiza Khalid and Engr. Ali Ejaz, on December 17, 2019. The guest Speaker, Dr. Abdul Karim Usman, is an active public speaker with a doctrate degree in Sharia and Law from International Islamic university Islamabad and more than two decades of teaching experience.

This event was arranged to reconnect our youth with the guidance provided in Quran regarding Social responsibility. The key aspect, explained in detail by the guest speaker, was kindness. He said that Allah loves his slaves who are kind and humble. The speaker focused that

each human being is Allah’s creation and being an educated/ privileged person we should be empathetic. Other aspects discussed were Inter-Faith harmony, respecting parents & respecting all the sources of knowledge. A souvenir was presented to Dr. Abdul Karim by Engr. Usman Farooqi.



A Site Visit to Rasool Barrage

Department of Civil Engineering, CUST organized a site visit to “Rasool Barrage, Mandi Bahudin” under the supervision and team lead of Engr. Abdul Qadeer on December 15, 2019. The trip was assisted by the sub engineer of the barrage. During the visit, students were instructed and briefed about the barrage head, barrage components and turbine installed on the barrage. One of the bay was operated to demonstrate it to the students for better understanding of overall barrage working. The sole purpose of the visit was to familiarize students of Batch 2017 with turbine installed at the specific barrage and its working.



Change Your Mind, Change Your Life

Department of Civil Engineering, CUST organized a seminar on “Change Your Mind, Change Your Life” under the supervision of Engr. Faiza Khalid and Engr. Ali Ejaz on October 30, 2019. The guest Speaker, Mr. Tehseen Wahid, is a Civil Engineer by profession and an entrepreneur with a vast range of experience. Mr. Tehseen is co-founder of institute “Shaping Future” which focuses on training three dimensions of society, Students, Teachers and workforce.

The guest speaker discussed that students should prepare themselves for the trials in professional life by improving their skill set. Speaker emphasized that failures are what really make you. The seminar provided students with an opportunity to look at the life of a successful man in the light of failures he faced and opportunities he had because of those failures. The speaker focused that each

human being has something special and this is what makes us unique. At the end, souvenir was presented to Mr. Tehseen Wahid by Dr. Ishtiaq Hassan, Head of CE Department.



Mountain Eco Friendly Walk

Energy & Environment Society organized a "Mountain Eco Friendly Walk" on Margalla hills (Trail 3 & 5) for garbage collection under the supervision of Engr. Iqbal Ahmad & Engr. M. Umer Jadoon on December 22, 2019. This walk was arranged to educate the students about the harmful effects of not preserving the environment. A rapid increase in floods and droughts is the evidence of climate

change. The mountains are not less than an asset for us and they need to be preserved. Not only the ecosystem and biodiversity, but the existence of the mankind will be in danger if we do not take proper precautionary measures to preserve our environment and natural resources. The students of Civil Engineering Department not only collected the litter all over the two trails but also educated the general public present at the tracks about the needs of saving our environment.



Colours of Happiness

Department of Computer Science, Capital University of Science and Technology organized a Colour Week to create a sense of unity, creativity, diversity and life among students. The colourful week was celebrated in the second week of Fall 2019 semester, under the umbrella of JSpark Society. Five lively colours were selected to be worn on each day. Main purpose of this event was to create a happy environment in university, and to break the monotonous



routine of the students. Moreover, a sense of unity was also created among students. The event turned the university vibrant and colourful. For an entire week, students followed a particular theme and enjoyed this event. Such types of events are good enough to create a happy environment and a sense of unity and enthusiasm among students.

3D Graphics and Rendering

Software Engineering Society organized a seminar on the topic of "3D Graphics and Rendering" on November 26, 2019 under the supervision of Mr. Syed Awais Haider. The seminar was organized to provide students an overview of the role of computer graphics in film-making and Gaming industry. The guest speaker, Mr. Abdul Qavi, having a vast industrial experience, discussed a number of concepts in the area of computer graphics including various rendering techniques. It was an interactive session that lasted more than an hour with a question & answer session at the end. Prof. Dr. Nayyer Masood, Head of CS Department presented the shield to the speaker afterwards. Hi-tea was served to the guest speaker and faculty.



CUST Celebrates Iqbal Day

Iqbal day is celebrated on November 09 each year to pay tribute and recognition to the efforts of Sir Alama Muhammad Iqbal, the Poet of the East. Students of Technical Report Writing, Department of Computer Science, CUST organized a speech competition on "Educational Philosophy of Iqbal" on November 15, 2019. The main objective of this event was to revive the educational philosophy of Iqbal. Besides, the key purpose of the event was to boost confidence level in students and provide them a platform to showcase their communication and oration skills.

Syed Ali Ather Zaidi, Ex Principal Federal Government College for Boys, Islamabad was invited as guest speaker. He dedicated his entire life to the noble profession of teaching, particularly literature. He had always been active as a literary personality. His major research is also about Sir Alama Muhammad Iqbal. Prof. Dr. Nayyer Masood, Head of CS Department also graced the occasion with his presence. The event consisted of speeches by the students on the

philosophy of Sir Iqbal and some students paid him tribute by singing Kalam-e-Iqbal. Then, Syed Athar Zaidi was invited to enlighten students about the educational philosophy of Iqbal. Students really learnt a lot about poet of east that day. Dr. Nayyer Masood presented souvenir to the guest speaker. In the end, hi-tea was served to the faculty and the guest speaker.



Annual Musical Festival 2019

As per tradition, Capital University of Science and Technology, Islamabad organized Annual Musical Festival 2019 at Open Air Theatre Shakarparian, Islamabad. The renowned singer of Pakistan performed at Annual Musical Festival. The festival was meant for all students of all faculties of CUST. A large number of students were present to enjoy

the music. A large number of faculty members were also present at the event to enjoy and to maintain discipline of the students. Such events provide the students a break from their hectic study routine. Students really enjoyed the event.



CUST Auto Show Chapter 3

Co-curricular activities are the true and practical experiences received by students. they enable the students to express themselves freely through their hidden abilities. In this backdrop, CUST Auto Show 2019 was organized, by

the Department of Management & Social Sciences, on December 31, 2019 at Capital University of Science and Technology. Students brought different types, models and styles of vehicles in the show. Students, especially boys, showed keen interest in Auto Show. It was a day full of fun.



Entrepreneurial Marketing Gala 2019

Entrepreneurial Marketing Gala 2019 was organized, by the Department of Management & Social Sciences on December 31, 2019 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. More than 100 stalls were displayed which were comprising

of entrepreneurial startup, marketing stalls, Gaming Zone, and Food Junctions.

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, Dean Management Department, Dr. Arshad Hassan, gave the shields and cash prizes to the winners of event. During his address, he appreciated the efforts of organizing teams and emphasized that these kinds of activities should be continued in future as well.



Individualism, Collectivism and Empathy

On November 06, 2019, a workshop on the concept of "Individualism, Collectivism and Empathy" was conducted by Ms. Maryam Khan for Personal Grooming Students. The guest speaker was Ms. Maria Mashkoor. Based on a series of three hands on activities, involving balloons, the students were taught the nature, pros and cons of each

type of culture, namely, individualism and collectivism. The concept of selfishness and selflessness were highlighted. In the end, the concept of Empathy was highlighted which involved developing real feelings, rather than, sympathy. The students were practically shown that majority can be wrong, and instead of jumping on the bandwagon, they should see what is the right thing to do and not merely follow the crowd.

Conversation Skills

On November 06, 2019, a seminar was conducted on the topic of "Conversation Skills" by Management & Social Sciences Department, under the supervision of Ms. Maria Mashkoor. The guest speaker was Mr. Adeel Iqbal who is CEO of Tech Company, Concept & Advertising Specialist, Marketing Professional, Research Analyst, Graphic Designer, Photographer and Entrepreneur.

Mr. Adeel discussed about the importance of conversation skills in practical and professional life. He mentioned the point that why is it important for a person to work on choosing the right words, to avoid unnecessary and meaningless conversation and should have the information about what they decide to talk about. In the end, he advised the students to put their little achievements in their CV because as an employer he finds it really important since it tells an employer the candidate is goal-oriented person and is proud of his/her achievements.

Roadshow to Digi Skills

On October 16, 2019, a seminar on "Roadshow to Digi Skills" was held under the supervision of Ms. Maria Mashkoor, Dr. Ansir Ali Rajput, Dr. Jaleel and Mr. Hafiz Adnan. The guest speaker was Ms. Syeda Yumna Hasany. She spearheaded the development of women empowerment center project for female prisoners in Lower Dir, Malakand that aimed to provide vocational training to female prisoners. She is also affiliated with Radio Pakistan since 2009, in addition to being a member of Legislative Fellowship Program for India and Pakistan, organized by US department of state for policy makers and development practitioners.

The guest speaker informed the students about Digi Skills which is a nation-wide program funded by the Ministry of Information Technology & Telecom with the aim of training 1 million people in the future of work using technology. Digi Skills allow the students to get enrolled in their programs which are taught by the experts, totally free of cost. The 12 courses include Search Engine Optimization, AutoCAD, WordPress, Digital Marketing, e-commerce Management, Freelancing, Digital Literacy, QuickBooks, Graphic Design and Creative Writing.

Islamic Banking and Finance

Department of Management & Social Sciences, CUST organized a seminar on "Islamic Banking and Finance" on November 22, 2019 under the supervision of Dr. Sajid Basheer. Honorable speaker was Mr. Zulqarnain Haider, Assistant Vice President of Product Development and Shariah Compliance Department of Meezan Bank.

Mr. Zulqarnain Haider delivered an informational

lecture on working model of banks within the boundaries of Islamic principles. He did the correction of wrong general perception regarding banking system in public which states that banking system is totally usury rooted so concept of Islamic banking cannot be justified. He clarified this by giving brief description of model based on trade which is allowed by shariah with reference to the Holy verses of Quran instead of interest-based model. Islamic banking is basically to do banking with shariah perspective. He explained the difference between Islamic banking and conventional



banking in terms of the both deposit account and bank term loans. further elaborated the partnership types as Mudarabah and Musharakah offered by Islamic banking. He gave the statistical information of Meezan Bank's statement of inventory accumulated capital of Rs.36.5 billion which includes inventory of agriculture and food, chemical and pharmaceutical, petroleum products, textile, wholesale and retail trade, construction and others etc. He concluded the seminar with precise details of Islamic banking global perspective. He shared that Meezan bank is the first Islamic bank that has been awarded with the best bank of Pakistan award in 2018. It was a very informative session for the students.

How to Run a Successful Business?

A seminar on "How to Run a Successful Business" was organized on October 24, 2019 under the supervision of Ms. Maria Mashkoor. Dr. Asad Rafi, who is the owner of four companies, namely, Micronox, Ghar.org, Vision TV and Ibtada Events, was the guest speaker.

Starting with his personal life story, he took the students on the journey which emphasized on starting from the scratch and making it to the top. According to him obedience is the key to success and not hard work. He emphasized on creation of ideas, stating that an idea always attract money but money can't buy an idea. To run a successful business, one must have a clear business plan in mind and a passion to lead that plan through. He guided students that one must start small, and then eventually through consistent efforts, make it big. Employee relationships matter a lot and taxes must be paid on time. It was an interactive and interesting talk for the students.

SPORTS NEWS

Athletics at CUST

Series of “athletics” matches including tug of war, relay race, legged races, shotput, javelin throw, discuss throw and long jump were arranged at interdepartmental level. The Department of Civil Engineering won the title of winner in tug of war and long jump(boys). Results of all athletic matches were compiled and at the last the shields were presented to the winning teams.



Chess Competition

Civil Engineering Department, CUST arranged an inter-batch chess competition for Civil Engineering students from November 28, 2019 to November 29, 2019 at Irrigation & Hydrology lab. Students participated in the competition with full zeal and zest and provided them a change from their hectic study routine.



Hockey Tournament

An interfaculty hockey tournament was held at Shehnaz Sheikh Hockey Stadium Rawalpindi on December 7, 2019. There were total four teams which participated in the event from faculty of Management Sciences, Faculty of Computing, Faculty of Health Sciences and Faculty of

Engineering. Draws decided the playoffs between Faculty of Engineering and Faculty of Management Sciences. Faculty of Engineering won comprehensively, beating their rivals Management Sciences by 5-0, and qualified for final.

Final match was played between faculty of Engineering and Faculty of Computing. Faculty of Engineering won the final match by scoring 4 goals and not conceding any goal. Faculty of Engineering team did not concede any goal throughout the tournament. Although Faculty of Engineering covered this milestone after long journey but Coach and Players give credit to their former Players (Mr. Usman & Mr. Nakhshab) who continuously strive for promotion of Hockey in University.



2nd Inter-session Football Tournament-Fall 2019

Civil Engineering Department, CUST arranged an intersession football tournament from October 16, 2019 to October 25, 2019 at University ground. Opening match of the tournament was played between Batch 163 and Batch 193. Students affair cooperated with Department of Civil Engineering in successful completion of the tournament. Final match of the tournament was played between Batch 193 and Batch 163. Batch 193 Won the tournament by defeating their opponents, 1-0. Muhammad Ismail scored the winning goal. Faculty of Civil Engineering Department attended the final and appreciated the efforts of the students and organizers in the successful completion of the tournament. They also motivated the students to keep participating in such events which will enhance their abilities such as team work, leadership etc.



MEET THE FACULTY

Dr. Ishtiaq Hassan

Associate Professor/Head of Civil Engineering Department

He did his PhD in Civil Engineering from UET Taxila. He has rich experience in both Design and Management at NESPAK. He holds outstanding professional educational background. He has got excellent presentation skills and command over English language. He is Member BASR UET Taxila and member of various Research Committees CED of UET Taxila.

Q.1. Kindly share your academic achievements.

I am a Civil Engineer by passion and profession. I did my BS from UET Taxila in 1999 with honors. My MS is from UET Taxila in 2006 and PhD is also from the same institute in 2011. Blessings of Allah Almighty, and the prayers of my parents and teachers enabled me to earn merit certificates twice in BS and I also secured top position in MS in my batch.

Q.2. We would like to know about your professional journey as well.

I started my professional journey with Pakistan's leading consultant firm that is NESPAK. I was given the responsibility of Head (Public Health Engineering, PHE, section) just after four months of joining NESPAK. I also served as Project Manager and Head Infrastructure as well in 2006 onwards. However, being the son of an educationist and fulfilling the desire of my father, I joined Department of Civil Engineering, CUST (then MAJU) in 2014. I found CUST a well-established purpose-built campus, conducive environment with a diversified management helped me to have comfortable stay in this esteemed institution till now. Whatever I am today is due to the prayers and efforts of my parents.

Q.3. Being Head of Civil Engineering department, would you like to apply some of the things that you experienced/learned in your professional life?

I think it is very advantageous for the students that they are being taught by the faculty having field experience. The way of working that I learnt during my professional life helped me a lot to do administrative and OBE (Outcome Based Education) tasks in a streamlined traceable manner. All those who are dedicated to their tasks (both teaching and administrative) are highly acknowledged. As the foresight of the leader matters, so is the valuable contribution of team members important for the uplift of the department / organization. Both are none without each other.

Q.4. What are your areas of research?

My research areas are related to sub-fields of Civil

Engineering e.g. climate change, water resources management, irrigation engineering, rainwater harvesting, and green infrastructure.

Q.5. How is the field of Civil Engineering contributing to the development of Pakistan; and how is the department of Civil Engineering CUST playing its role?

The profession of Civil Engineering is the profession of all-times. Civil Engineers execute major infrastructural works like air-ports, highways & motorways, dams, water and electric transmission lines, high-rise buildings, shopping malls, residential colonies, bridges etc. which are backbone



for the development of a country. The department of Civil Engineering at CUST is focusing to produce competent professionals who are instrumental in development of a prosperous Pakistan. The grooming of students on OBE, right from the establishment of this department, is a key indicator of the quality of output being focused. However, it will take a little time to prove the achievement of this focal point in terms of a sufficient and competent professionals from this department serving in many areas in Pakistan and abroad.

Q.6. Your message to the students.

The students should be thankful to Allah Almighty who gave them chance to get professional education. Secondly, they should pay homage to their parents who are managing their professional studies and fulfilling their needs. Thirdly, the efforts and contributions of their teachers cannot be put aside who gave them knowledge necessary for their professional survival. Finally, I would say that students should put 100% focus on their studies and learning because their life depends on efforts made in their 8% professional educational life. Do fulfill your obligations to the Creator, and come up to the expectations of your parents, teachers and others.

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