

Table of CONTENTS

- CUST Convocation-2020
 GENIX 2021 DENGUE AWARENESS
- Meeting of CUST Board of Governors
 General Zia and Islamization
- 9th International Conference on Biological and Computational Sciences (C-BICS 2021)
 Annual Musical Festival 2021
- 6th International Conference on Engineering Technologies (ICET 2021)
- Programming Quiz Competition
 Motor Control Wiring 2022
- Workshop on Arduino 2022
 ROBOCUST EVENT
- 7 DNA FINGERPRINTING AND QTL MAPPING HUMANITY'S STRUGGLE IN SPACE EXPLORATION
- 8 TALK SHOW ON SUSTAINABILITY
 Bridge Building Competition
- 9 HULT WEEK
 Creative Poster Designing Ideas
- Color's Week

 Breast Cancer Awareness Seminar
- Role of Pharmacist in Drug Regulatory System
 Faculty Development Week
- 9th International Business Research Conference 2021 Seminar on Islamic Banking & Finance
- Development of Low Cost System for Recycling of Plastic Waste
 Water Rocket Competition

- The Critical Role of the Telecommunication Industry in the Economic Development of Pakistan Python Data Analytics Workshop
- Seminar on E-commerce
 Iqbal Day Debate Competition
- Seminar: Envision through Emotional Intelligence
 Game Development
- Seminar on Growth Challenges and Opportunities of the 21st Century
 - Seminar: Awareness Program on Future Trading
- Poetry Recitation Together We Rhyme
 Commemoration of Anti-Corruption Week
- Professional Development Program on
 'Avoiding Under-theorization Through Critical Review
 of Literature'
- Seminar on Blockchain & Logo Designing Competition UML: "An Instrument to enhance Software Reliability"
- MoU Signing Ceremony with Vision Building Future
 Kashmir Day
- Renewal of MoU with The NGO World
 CUST 1st Cohort Competition 2021
- 23 CUST ICONS Dr. Amir Qayyum
- 24 CUST ICONS Mr. Malik Arshad Mehmood
- 25 OUR SHINING STAR Aaiman Arshad
- 26 Sports News
- 28 SOCIETY IN FOCUS: IEEE
- DSE Activity Report Oct, 2021 Jan, 2022
 Green Metric World University Ranking 2021
- 31 List of Publications

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CUST Convocation-2020

The Convocation-2020 of Capital University of Science and Technology (CUST) was held on Saturday, the 13th of November, 2021 in the CUST Campus Islamabad wherein 993 graduates including BBA, MBA, BS, MS and PhD in the fields of Management Sciences, Electrical Engineering, Mechanical Engineering, Computer Engineering, Engineering Management, Project Management, Computer Science, Bioinformatics and Biosciences were awarded degrees.

Prof. Dr. M. Mansoor Ahmed, Vice Chancellor Capital University of Science and Technology, presided over the Convocation. In his inaugural speech, he welcomed the graduating students for their presence in this memorable and happy occasion and declared this event as a significant milestone in their lives. He congratulated the graduates and highlighted the contribution made by the University in the field of higher education. He hoped that the graduates will contribute towards scientific and technological development of the country through their ability, dignity, determination and commitment.

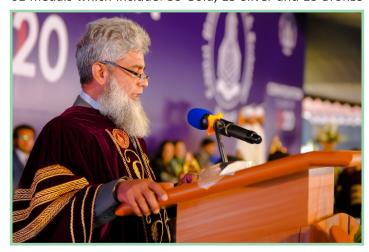
He informed that the University has earned a prominent position amongst its competitors by putting high emphasis on R&D activities and its graduate programs.

Ms. Syeda Eeman Zahra Bokhari, a graduate of BS Biosciences, shared her views as a student of this university with audience. She, on behalf of graduating students, thanked the management, faculty and the administration for providing congenial teaching and learning environment

and guidance. She further wished all the graduating students' success for all their personal and professional future endeavors.

In this Convocation, 28 graduates were awarded PhD degrees; including 12 in the field of Management Sciences, 6 in the field of Engineering, 04 in the field of Computing, 01 in the field of Bioinformatics and 05 in the field of Mathematics.

The Capital University of Science and Technology recognizes the outstanding performance of its graduates by awarding Academic Excellence Medals. In this Convocation, 61 medals which include: 33 Gold, 15 Silver and 13 Bronze



medals were awarded to the graduates who stood 1st, 2nd and 3rd in their respective degree programs. The 'Jinnah Gold Medal' was also awarded to an overall best graduate of the Convocation; Eiman Arshad of BBA, on her overall distinguished performance in curricular and extracurricular activities.

GENIX 2021 DENGUE AWARENESS

Genix society came together to organize a session where misconceptions around dengue were discussed under the supervision of Dr. Saba Haq and Ms. Sumayya Ijaz. This session was recorded in collaboration with Capital FM.

Awareness about such prevalent disease is necessary as it can save thousands if not millions of lives. Sometimes, symptoms are mild and can be mistaken for those of the flu or another viral infection. Younger children and people who have never had the infection before tend to have milder cases than older children and adults. Campaigns regarding Dengue should be practiced on regular basis.





Meeting with the President of Islamic Republic of Pakistan at the President's Secretariat (Public) Aiwan-e-Sadr

Prof. Dr. Muhammad Mansoor Ahmed, Vice Chancellor, Capital University of Science and Technology, Islamabad in a meeting held on Sep 14, 2021 with the honorable President of Islamic Republic of Pakistan at President's Secretariat (Public), Aiwan-e-Sadr, Islamabad gave detailed briefing about the University. Other Senior

Academicians and Officers of CUST also attended the meeting. After having detailed briefing, the President showed overall satisfaction on the academic operations of CUST. He also advised the University to continue for the growth of higher education as per its Act.



Meeting of CUST Board of Governors

11th meeting of the Board of Governors of Capital University of Science and Technology was held on December 30, 2021, under the Chairmanship of Mian Amer Mahmood, Chancellor

of the University, in which prominent educationists and professionals participated. The Board considered the academic and administrative matters of the University. The Board expressed its satisfaction over the performance and growth of the University.



General Zia and Islamization

The computer science department invited Ex. MNA Mr. Ijaz UI Haq for a guest lecture to highlight the importance of understanding Pakistan and its culture by young generation. Mr. Ijaz UI Haq shed light on the importance of Pakistan Studies and the valuable lessons history has taught us as a nation. The guest of honor was presented shield by Honorable VC, CUST.





9th International Conference on Biological and Computational Sciences (C-BICS 2021)

The Department of Bioinformatics and Biosciences of Capital University of Science and Technology organized the 9th International Conference on Biological and Computational Sciences (C-BICS 2021) on November 25th, 2021 (Online). The conference witnessed an active participation of Biological and Computational Sciences community from across the world. Inaugural ceremony was hosted by Ms. Sumayya Ijaz and recitation was performed by Ms. Amina Abdul Rehman. Dr. M. Abdul Qadir delivered the welcome addressed. Chief Guest, Prof. Dr. Muhammad Mukhtar Vice Chancellor National Skills University Islamabad, enlightened the audience with his experiences. He emphasized that in the current era, viral pandemic, the COVID-19 caused by an infectious particle suggests that advancement in science and technology made us more vulnerable to deadly infections.

Dr. Naresh Poondla, Clinical Research Scientist Richmond University, New York discussed the significance of iron deficiency in cardiovascular disorders. Iron deficiency anemia may lead to a rapid or irregular heartbeat. Heart must pump more blood to compensate for the lack of oxygen carried in blood when a person is anemic. This can lead to an enlarged heart or heart failure. Dr. Yasir Waheed, Associate Professor and I/C MDL Foundation University

Medical College Islamabad talked about the impact of variety of the treatments being given to the patients admitted in Fauji Foundation Hospital, Islamabad. Available treatments in practice for COVID-19 are used for antiviral medicine of SARS-CoV-2 to suppress propagation of the virus.

Subsequently, 6 sessions were held using Microsoft team (C-BICS 2021). A total of 107 people participated in conference, including 06 session chairs, 33 oral presentations were held in 6 sessions and 17 posters were presented in poster session.



Annual Musical Festival 2021

Capital University of Science & Technology (CUST) organized Annual Musical Festival 2021 at Open Air Theatre Shakarparian, Islamabad. The renowned singer of Pakistan

performed at the Annual Musical Festival. The festival was meant for all students and faculty of CUST. A large number of students attended the concert. The faculty members enjoyed as well as maintained the discipline during the concert. Such events provide the students and the faculty a break from their hectic routine.





6th International Conference on Engineering Technologies (ICET 2021)

Capital University of Science and Technology (CUST) in collaboration with IEEE Islamabad section organized 16th International conference on emerging technologies (ICET-2021) virtually on 22nd and 23rd December 2021 through Microsoft Teams online platform. The whole conference was a two days event divided into 8 technical sessions with a scope covering new and exciting technologies in various research domains. Therefore, the conference captured interest of a large audience. The conference targeted research presentations by academic and professional researchers. The conference also included keynote talks from renowned academicians that enabled participants to learn about the latest trends in technology. The event started on 22nd December 2021 with the recitation of Holy Quran. After that, conference General Chair Professor Dr. Noor Muhammad Khan gave a brief introduction about the conference and Capital University of Science and Technology Islamabad's contribution in the whole process. He emphasized on the importance of industry academia collaboration in organizing such activities. He also highlighted the role of IEEE in overall conference activity. After this, a keynote speech on 'Research directives in Emerging Technologies' was given by Professor Dr. Shoab Ahmed Khan, chancellor CASE, Islamabad. He highlighted the new and emerging technologies and their applications in solving the socio-economic problems of the country.

A total of 40 research papers were presented online in 8 technical sessions in two days. Every session was chaired by two session chairs. Conference activities also included two tutorial talks by renowned researchers from the academia and industry. After two days of multiple technical sessions, finally the event was brought to a close on the evening of December 23rd, 2021. At the closing ceremony, another keynote speech was given by Professor Dr. Celia Shehnaz, IEEE WIE Chair-Elect on 'Research and Innovation for Women

Empowerment to support Sustainable Development Goals'. She highlighted the role of women in the engineering field and numerous ways to increase their contribution through IEEE. After this, Dr. Saira Ahmed, member Evaluation Committee, announced the best paper awards in student and professional category. Evaluation Committee, under the supervision of Dr. M. Abdul Qadir selected the paper 'Urdu Miner: An Application for Urdu Text mining' as the



best paper in student category and the paper 'BirdView Retina-Net: Small-Scale Object Detector for Unmanned Aerial Vehicles' as the best paper in professional category. Dr. Saira congratulated the authors on their achievement. Finally, conference Co-Patron, Professor Dr. Mansoor Ahmed Khan gave the vote of thanks speech as he applauded the hard work of organizing team and their tireless endeavors in making this online conference a success. He also informed the audience about the review criteria for all submitted papers. The review criteria included significance of the problem, novelty, clarity, completeness, and accuracy. He praised the performance of all the participants as he acknowledged the fact that without these conferences it is very difficult for the industry to reach academia and only through solid partnership this goal can be achieved. Event was brought to a close on concluding remarks by the conference General Chair Professor Dr. Noor Muhammad Khan.





Programming Quiz Competition

CS Chapter IEEE C.U.S.T. student branch conducted an interdepartmental Programming Quiz Competition on January 5th, 2022. The main theme of this event was to lift a competitive spirit among the students. Moreover, it helped



students to brush up on their programming knowledge and check where they stand as far as the subject knowledge is concerned.

Motor Control Wiring 2022

In order to spark a friendly competition among the participants, a speed wiring competition was held on January

3rd, 2022. The competition featured a total of eleven teams, each with two members. The competition went smoothly, and it accomplished what it set out to achieve. The event was organized to make a positive struggle among students via the DC Motor Speed Control competition and to provide a platform for students to evaluate their skills.

Speed Coding 2022

On January 5th, 2022, a Speed Coding competition was held. The competition focused on the coding skills of



students and how quickly they can respond to a coding query. The competition went smoothly, and in the end, certificates were distributed among the participants.

What to Expect as an Engineer When you Graduate in 2022?

IEEE CUST student Branch arranged a seminar on "What to expect as an Engineer When you Graduate" dated January 25th, 2022. A guest speaker Mr. Soban Ahmad alumni of CUST, was invited to talk about the prospects of engineering after graduation. He told the audience that engineering is a broad subject that splits into many different disciplines, including chemical, civil, mechanical,

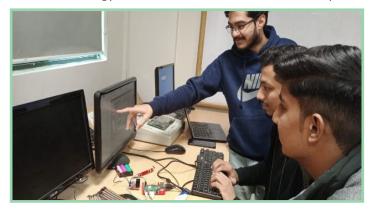
and electrical engineering. He emphasized that the careers open to engineering graduates are wide and varied, although you may wish to choose the career most relevant to your engineering specialization and related skills. It was a very informative session. In the end, a shield was presented to the worthy presenter.





Workshop on Arduino 2022

IEEE CUST student Branch arranged a workshop on Arduino dated January 17th, 2022. It was discussed that when working in a robotics program, using Arduino and other technology, students need to be creative. They also



learn how to fix problems while creating new inventions. These are skills that can be used in the real world. Arduino and Arduino IDE were discussed in detail and Arduino programming was taught to students. The working of a line follower robot was also discussed in the workshop. It was a very informative session.

Speed Wiring Competition

A Speed wiring event was conducted on Wednesday, January 5th, 2022. The sole purpose of this event was to have a healthy competition between the students. The competition started at 11 pm till 12:30 pm. A total of 10 teams (2 persons in each) participated in the competition. The competition was conducted successfully, completing the purpose that was meant to be achieved.

ROBOCUST EVENT

Keeping up with the ever-evolving technology is the future. ROBOCUST was the event organized by the dedicated members of the IEEE CUST Student branch and SEEK CUST Student branch on Saturday January 5th, 2022. The purpose of this event was to give students a safe space to practice their creativity and help bringing their visions to life at the same time sharpen their competitive potential. The event comprised of two major races where students had shown great skills in designing, building, and programming robots.

The ceremony started with the recitation of the Holy Quran. Qazi Abdul Moqueet, the PATRON of IEEE welcomed

and introduced the event to the audience. Later, Mr. Waleed Farooq the head organizer of ROBOCUST introduced the event to the judges.

Roborace was the first competition where 7 teams from CUST, 4 teams from UCP, 2 teams from Baitussalam school, Talagang, and 1 team from RobotMea Edu tech participated in this round. 14 teams competed in pairs. This segment was distributed into two categories: university, and college category. The task was to follow the black line on the mat till the end. Whichever eam completes the task first qualifies for the next round. In the university category, the winner was CUST and in the college category, the winner was Baitussalam.

Robomaze was a more complex task. 2 teams from UCP and 3 teams from Baitussalam School, Talagang



participated. The teams competed individually. As this segment was time-based so the main aim was to complete the maze with the best record. Whoever completed the task the quickest would win this event. In this segment, Baitussalam was a winner in both the categories, university, and college.

The cash prize for the first position and runner-up in roborace from university-level was rupees 15,000 and rupees 7,000 respectively and for robomaze competition, in the university-level category, the winner, and runner-up received 15,000 and 10,000 cash prizes. For college-level winners, the cash prize in robomaze and roborace was rupees 10,000. The event was concluded by awarding shields to the management team for their service and hospitality.





DNA FINGERPRINTING AND QTL MAPPING

Genix society returned back to hosting in person seminars with a very interesting topic on DNA fingerprinting. Chief guest speaker for the event was Dr Muhammad Babar who is currently working in Institute of Molecular Biology and Biotechnology Baha Uddin Zakariya University, Multan.

He initiated the seminar with some motivational words.

"Where there is life there is DNA, and where there is DNA there is biotechnology."

As per the guest speaker, genetic engineering does not always show a 100% result as genes act as a family they are not very accepting of a foreign gene. An alternative molecular breeding method can be used in the same environment to get a specific phenotype in progeny. As environment has a major role to it, the results cannot be seen in all products. For example, But cotton and sub

related products are the only persisting products of genetic engineering that are being globally used at commercial level.

Dr. Mohammad Babar further explained how polymorphism and SNPs play a major role in diversity.



HUMANITY'S STRUGGLE IN SPACE EXPLORATION

Dr. Arshia Amin and PACE supported by Dr. Saba Haq (GeniX) arranged an informative webinar on Space exploration. Mr. Gabe Gabrielle who evaluates and reviews the facilities/infrastructure on Kennedy Space Centre, NASA was invited as a guest speaker.

Major part of the session involved short video clips from space station at Kennedy, rockets take off, its engineering and the training of astronauts. "Astronauts train in Houston and live there, then come to Florida, jump



into the ship. Take off. Come back to Florida and then go back to their homes in Florida", Gabrielle said.

Particular attention was paid towards night rocket launches, which were depicted via video clips. As Mr.

Gabrielle said and I quote: "night launches are spectacular, they are party. Everything is pitch black, we are sitting 5 km away and then countdown 10...7..5..4.3..2..1..LAUNCH!. fuels from the rocket light up the night as if it were a day." "Everything is brought to the launch pad 5 km away. General public is 50 km away. Liquid hydrogen and nitrogen make up the fuel and the rocket – 3 million kilos move against gravity. Vibrations make your body shake, siren is going off, lights sparkling- its MAGICAL! 8 and a half minutes later u are in space. that's how much it takes."

The speaker pointed out that 69 nations are involved in building space station over 25 years ago and he concluded the event with meaningful advices:

Never give up on your dreams. They come true when you least expect it.





TALK SHOW ON SUSTAINABILITY

Genix organized a talk show on Sustainability. Ms. Rafia Shakeel, Ms. Zainab Noor, Ms. Sukaina and Ms. Rahim Khalil were the guest speakers. Overall talk encompassed sustainability at all levels namely, environment, social and economic. Sustainable development goals designed by UN in 2015 were outlined and amongst environmental issues,



pollution, soil degradation, oil spills and climate change were highlighted and supported with recent statistics. The focus was primarily on how to slightly change our day-to-day lifestyle so as to take a step towards sustainability on individual level.

Bridge Building Competition

Department of Civil Engineering organized a "Bridge Building Competition" under the supervision of Engr. Abdul Qadeer and Engr. Talha bin Tahir on December 24th,2021.

The event was held with full zeal and enthusiasm by the ACE executive body supported by civil engineering faculty. The main purpose of the event was to involve students to build their interest in civil engineering related



structures. It also helped the participants to know more about bridges and its load taking patterns, various types and designs of the bridges.

Entrepreneurship

Department of Civil Engineering organized a seminar "Entrepreneurship" under the supervision of Engr. Abdul

Qadeer on 10th January, 2022.

The Guest of Honor was Syed Mureed Abbas Bukhari who is a fervently passionate, driven and rapt business leader, who specializes in business marketing. With more than 19 years of experience in the field, he is exceedingly qualified in managing sales, business development, developing marketing strategies, as well as leading and motivating others to achieve sales quotas.

The speaker gave students an insight of business



strategies. He told the students about the approaches to business has always been brainstorming out of the box sales solutions suited to each clients' unique business needs, and thereby creating a strong vision for the team as well as motivating others to reach both for individual and common goals. Speaker has mentored 15 various startups, and has also facilitated students in designing their business models, as well as conducted the fundraising pitches for which he guided the students as well.

Naat Competition

The faculty of pharmacy organized a Naat competition at the university campus. The event was held on November 8th, 2021. Dr. Muhammad Tariq Khan and Mr. Mateen Abbas were the event's judges. At the end of the session, Dr. Muzaffar Abbas, Dean Pharmacy, distributed the certificates among the participants.





HULT WEEK

The Department of Civil Engineering organized "Hult Prize 2.2 Registration week" under the supervision of Eng. Abdul Qadeer from 24th January, 2022 to 28th January, 2022

The event was held with full zeal and enthusiasm by the ACE executive body, civil engineering faculty and Hult Prize organizing team. All the students throughout the university participated in this event.

Hult Prize is an international event held per year with a partnership of United Nations and Hult Business school. It crowd-sources ideas from university level students after challenging them to solve a pressing social issue around topics such as food security, water access, energy, and education etc. Hult Prize theme for this year was "Getting the World Back to Work" and the hult challenge was "Creating Two-Thousand Jobs by 2024 by Thinking Global and Acting local".

Registration remained open for the entire day throughout the week and different organizing team members were available throughout the day to guide the students about Hult Prize in the best possible ways. The response from all the university students was extremely encouraging. Many students from different departments registered their teams. A total of 47 teams registered their teams comprising of 3-4 members. Students seemed really excited to share their amazing business ideas with others.



Creative Poster Designing Ideas

Department of Civil Engineering organized a seminar on "Creative Poster Designing Ideas" under the Supervision of Engr. Abdul Qadeer, Engr. Talha Ahmed, on Friday- January 1st, 2022

The event which was organized by ASCE bodies, in which the discussion topic was "Creative poster Designing Ideas". The guest of honor, Engr. Talha Ahmed, graduated from Capital University of Science and Technology in 2019;

served as internee engineer in Pakistan Atomic Energy Commission and Highway Design Engineer in Zeeruk International Pvt. Ltd. He is currently serving as Lab. Engineer in Department of Civil Engineering and Technical/ Creative Head in Capital Media Group at Capital University of Science and Technology. Engr. Talha Ahmed has research interests in Materials and Water Resources Engineering and has multiple publications in different research areas.

Na'at and Qira'at Competition

CUST Girls Club held a Na'at and Qira'at Competition on November 02, 2021 under the supervision of Dr. Dur-e-Shehwar Sagheer. The competition began after the arrival of the esteemed judges: Ms. Raabia Habib and Ms. Bushra Furqan. Competition started with the recitation of the verses of Holy Quran. Later, eleven contestants for Na'at and Thirteen for Qira'at took part in this competition and exhibited their talents. Even though the competition was tough and the audience was beyond impressed, the judges had to pick the winners as follows:

1st - Hina Zainab, 1st - Mariam Afzal, 2nd - Afshan and Rimsha Liaquat, 2nd - Iqra Shahzadi, 3rd - Saman Zahid, 3rd - Zunaira Sadia.

In the end Dr. Dur-e-Shewar Sagheer and Mrs. Qurat-ul-Ain Jalil distributed the shields to winning students

and the organizing committee.





Color's Week

CUST Girls Club organized a color week from 05 January to 07 January. Each day was dedicated to a different color. This activity was a perfect opportunity for the girls of CUST to get together and increase interaction. Not only did it create a sense of unity, but also helped students participate in a recreational and refreshing activity. Each day four girls were selected as girls of the day. Whole team of CGC under the supervision of Dr. Dur-e-Shehwar Sagheer was able to



make the girls help each other, beyond just educational purposes.

Breast Cancer Awareness Seminar

Faculty of Pharmacy organized a breast cancer awareness & prevention seminar on 18th October 2021 (Monday). Dr. Tahira Shahid, Director of Advanced Diagnostic Centre, was the guest speaker. The Students from Pharmacy and Biosciences department participated in the session. This event was arranged to inform the students about the causes, risk factors, signs and symptoms, diagnosis, treatment modalities, and preventive measures of breast cancer. A walk within the university premises followed the awareness session.

The honorable guest was presented university shield by Assistant Professor Dr. Nadia Shamshad Malik.



Dean's Honor Ceremony

Dean's Honors Ceremony of the Faculty of Pharmacy was held on December 27, 2021, at Auditorium A1. Among all, forty-one students were given certificates on their academic excellence. Thirty-Eight students were given Dean's Honor certificate, whereas Chancellor's Honor was given to three students. Dr. Muzaffar Abbas, Dr. Samra Bashir, Dr. Mahboob Alam, Dr. Nadia Shamshad Malik, and Dr. Nisar ul Khaliq distributed the certificates among the students. At the end of the session, Dr. Muzaffar Abbas, Dean Pharmacy, applauded the shining stars for their outstanding performance and wished them the best of luck in the future.



Naat Compilation and Release

Faculty of pharmacy celebrated Eid Milad-un-NABBI (SAWW) by compiling and releasing a soulful Naat Sharif in honor of our beloved PROPHET MUHAMMAD (SAWW). The Naat was written and composed by Mr. Mateen Abbas (Lecturer, FoP). The Naat was recited by four students: Ali Hassan Kaleem, Fatima Munir, Syeda Sheherbano, and Muhammad Hassaan from the Faculty of Pharmacy. Naat was recorded on 28th October and released during the Naat competition organized by Faculty on November 08, 2021.





Role of Pharmacist in Drug Regulatory System

The Faculty of Pharmacy organized a seminar on the Role of Pharmacists in the Drug Regulatory System; the guest speaker was Dr. Maria Zafar, who is working as Inspector of Drugs, Islamabad Capital Territory, Health Department, Ministry of National Health Services, Regulation and Coordination, Government of Pakistan. This event was arranged to motivate students and help them understand how pharmacists play a critical role in the drug regulatory system.

The honorable guest was presented University

Shield by Dr. Muzaffar Abbas, Dean Faculty of Pharmacy.



Faculty Development Week

Faculty development week (FDP) was organized from August 23, 2021, to August 30, 2021, by the Faculty of Pharmacy (FoP), Capital University of Science & Technology (CUST). Different sessions were planned for faculty to develop skills and abilities that can help them cope with various challenges of the time, emerging trends, and applications in various fields of pharmaceutical sciences. Dr. Nisar Ul Khaliq coordinated all activities of faculty development week. Senior CUST faculty members, including

Dr. Nisar UI Khaliq coordinated all activities of faculty development week. Senior CUST faculty members, including Dr. Muzaffar Abbas, Dr. Samra Bashir, Dr. Mahboob Alam, Dr. Nadia Shamshad Malik, Dr. Nisar UI Khaliq, Dr. Muhammad Tariq Khan, Mr. Muhammad Majid, and one external resource person Dr. Noor Bahadar delivered lectures with the follow-up discussion sessions and brainstorming. Classes consisted of the latest drift in the pharmaceutical field, including advanced drug delivery systems, precision medicine, management of global threats to healthcare system including novel coronavirus disease, and support program for faculty including stress management and innovative teaching techniques. The week also consisted of a one-day workshop on reference management tools, i.e., Endnote and editing EndNote styles.

Plantation Drive By Mechanical Department

A plantation drive was held on 4 August 2021 by the students of Introduction to Robotics and Alumni of Capital University of Science and Technology under the supervision of Ms. Shummaila Rasheed (Lecturer), Department of Mechanical Engineering. 36 successful plantations were

carried out.

Trees provide clean environment to every individual to lead a healthy life. Aside from all these necessities, tree preserve biodiversity, preserve soil, conserve water and control climate among other things. Moreover, trees control



noise pollution, slow down storm water run off, act as wind breakers and enhance the beauty of the area.

Imagine Cup

CAUSE Society provided a platfrom for students to participate in the HEC organized event named as "Imagine cup 2021" on January 10, 2022 under the supervision of Mr. Ibrar Arshad. Students from all semesters were encouraged to participate in the Imagine cup. Final year project (FYP) group under the supervision of Mr. Samir Obaid and Mr. Ch. Anwar-ul- Hassan qualified for the regional final of Imagine cup. It was a great achievement for the students of software engineering department who qualified to this level.



9th CUST International Business Research Conference 2021

On December 30th, 2021, Faculty of Management and Social Sciences organized the 9th CUST International Business Research Conference (CIBRC). Theme of the conference was "Business Sustainability in the New Normal – A Way Forward". Through this conference, a global platform was provided for researchers, entrepreneurs, academic experts and practitioners to share their research work, knowledge and skills; and receive valuable feedback from the experts.

Dr. Lakhi Muhammad, Head, Department of Management Sciences was the Conference Chair. Dr. Irum Saba (Associate Professor, IBA, Karachi) and Mr. Muhammad Athar Awan (Risk Management Consultant, Government of New Zealand) were invited as the keynote speakers. Dr. Irum Saba address focused on contribution of researchers, teachers and students in society, technical infrastructure, collaboration linkage between industry and academia; and potential research topics for young researchers and practitioners. Mr. Muhammad Athar Awan

keynote addressed on the dynamic business environment, innovation and integration with industry.

Being a one-day event, the conference comprised of 7 tracks, divided in two technical sessions during which 93 research papers were presented with the following breakdown:

- Human Resource Management & Organizational Behaviour track - 17 research papers.
- Accounting, Finance & Economics track 28 research papers.
- Marketing, Management & Entrepreneurship track –
 25 research papers.
- Psychology track 14 research papers.
- Technology and Project Management 9 research papers.

Best research papers were selected in each track after a rigorous blind peer review and unanimous decision of the technical review committee. These papers will be considered for Jinnah Business Review (JBR), ISSN: 2070-0296.

Seminar on Islamic Banking & Finance

A seminar regarding "Islamic Banking & Finance" was conducted on 18th January 2022. One hundred students of BBA and BSAF attended the seminar.

Mr. Zulqarnain Haider, Vice President Meezan Bank Ltd, was a guest speaker. He shared his knowledge regarding "Islamic Banking & Finance." He spoke about the concept of Islamic banking, the role of Islamic banking and its structure, Philosophy, Misconceptions, Products & Practices, and Local & Global Perspective of Islamic Banking. The seminar was full of knowledge for the participants. The meeting was concluded after the Q & A session.



Seminar: "Be Strategic Amid Conflict"

Department of Management Science arranged a seminar on "Be Strategic Amid Conflict" on 15th December 2021 and the guest speaker for this workshop was Dr. Sundas Azeem (Lecturer, SZABIST, Islamabad). She is a teacher, trainer, researcher, and currently teaching at SZABIST, Islamabad. Her expertise lies in human behavior at the workplace, psychology, and management.



The Thematic Focus of the seminar was to develop personal communication skills, Managing Conflict, Confidence Building, Self-Assessment, Understanding Others' styles, and Effective Communication.



Development of Low Cost System for Recycling of Plastic Waste

On Wednesday 8th December, 2021 Pakistan Science Foundation (PSF) hosted an event in Quid-e-Azam auditorium of International Islamic University, Islamabad. The purpose of this event was to showcase the plastic recycling projects done by different universities. This project was mediated by PSF and sponsored by UNDP,



UNIESCO and Coca-Cola Foundation. The project was about recycling plastic bottles such as PET, HDPE, PE etc., and converting them into plastic tuff tiles. These tiles can be used on pavements. Speeches were given by different supervisors including the event supervisor Dr. Salman Sagheer Warsi. They all highlighted the importance of plastic recycling and how this project was accomplished. After the speeches, prize distribution was commenced in which head of UNDP and UNICEF handed out shields to the students who were part of this project. At the end, different television channels interviewed the participants of the project, highlighting the fact how and why the project was done.

Water Rocket Competition

A water rocket competition was organized by Al-Muhandis society of mechanical engineers on January 14, 2022. More than 50 teams of students from all faculties participated in this mega event. The purpose of the event was to provide an opportunity to the students to apply their science and engineering knowledge by participating in such kind of practical events. In this water rocket competition there were two modules. The first one was to design the attractive bottle rockets by using the principals of rocketry and aerodynamics. The second module was to check the

performance of their bottle rockets filled with water by launching through air pump. This event was organized under the supervision of Dr. Jabir Mumtaz Patron Al-Mohandis society, Department of Mechanical Engineering. Dr. M. Mahabat Khan (HoD, Mechanical Engineering) and Engr. Saifullah awarded shields to winners and certificates to all the participants.



Industrial Trip

The Department of Mechanical Engineering arranged an industrial trip to Wnsfeild Pharmaceuticals for its final year students on January 22, 2022 under the supervision of Mr. Muhammad Haroon. The trip was very informative for students where they learnt about the operation and maintenance of HVAC system for a pharmaceutical industry.

The delegation was welcomed by the Plant Manager Mr. Ahmed. He briefed the students about the overall operation of the plant and its major sections. Students were guided through the medicine manufacturing facility following the strict safety protocols. The students witnessed the real-world application of machines, mechanisms and the automated equipment in the medicine production and packing facility.





Critical Role of the Telecommunication Industry in the Economic Development of Pakistan

A seminar was organized by the students of the 2nd semester of the Department of Psychology at the Capital University of Science and Technology (CUST). The topic of the seminar was "The Critical Role of the TelecommunicationIndustryintheEconomicDevelopment of Pakistan." It was conducted by Mr. Hassan Ali, an Executive, Priority Services at Ufone Telecom Limited.



The seminar aimed to educate the students about quality enhancing telecom industry and boosting economy. Other major discussion points included telecom trends in Pakistan, the investment, GST contributions and tax revenues collected from the telecoms, foreign direct

investment in the telecom sector, and telecom's industry status.

Webinar on digital literacy workshop

Musheer, an NGO, conducted the digital literacy workshop with 70 students of Capital University of Science and Technology, Islamabad, Pakistan, on January 13, 2022. Musheer arranged these workshops under Alumni Small Grant (AGS) titled "Digital Literacy for Youth to control the Negative effects of Social Media," supported by U.S. Mission in Pakistan in partnership with Pakistan -U.S. Alumni Network. The students found this workshop very useful. The workshop was organized by Dr. Ansir Ali Rajput and Mr. Faraz Ali Shah, faculty members of the Management Sciences department.



Python Data Analytics Workshop

The Department of Accounting and Finance, Capital University of Science and Technology (CUST), conducted a one-day workshop on "Python Data Analytics" on 30th August 2021. About 15 participants attended the workshop. The workshop was organized by Dr. Nousheen Tariq Bhutta under the Jinnah Business Research Centre (JBRC). The trainer of this workshop was Muhammed Arslan, who has expertise in

data analytics, artificial intelligence, and machine learning. The workshop's objective was to introduce Python to the participants for data analytics. He explained the installation process and essential functions of Python. He briefed about quantitative operations using python and interpreting results.



Seminaar on E-commerce

Department of Management & Social Sciences organized a seminar, "Introduction to E-Commerce," under the supervision of Dr. Ansir Ali Rajput, on November 11, 2021. The guest speakers, Mr. Abdul Jaleel, and Mr. Naeem are public relations managers, training heads, and program coordinators. CUST student Zeeshan Ahmed hosted the event.

The primary purpose of the seminar was to aware students about the importance of e-commerce platforms that work worldwide, how people sell and purchase their products from these types of media, and how we can be a part of this online trading world. He briefly explained the three models

of amazon through which we can do online trading. The modals were Private label (Building your brand), Amazon Dropshipping and Amazon Wholesale.



the students about how to develop a prosperous economy by focusing on the young generation. She also advocated the role of women in developing a progressive nation by giving examples of Bangladesh, Nepal, Indian and Sri Lanka and later compared them with Pakistani society.

The second secon

Iqbal Day Debate Competition

The computer science department held a debate competition in honor of Dr. Allama Iqbal. The chief guest Dr. Jalil Aali from Iqbal National Academy chaired the event. Dr. Jalil was invited to express his views on the life of The great poet.



Workshop on "Extracting Theoretical Framework from Literature Review"

On 27th December 2021, under the supervison of Ms. Maria Mashkoor, a workshop on "Extracting Theoretical Framework from Literature Review" was conducted for the students of Business Research and Report Writing. The trainer was Ms. Zahra Afaq (Business Development Manager, NEDC, Namal, Mianwali). She has several impact factor publications. During the activity session, she first gave an in-depth awareness regarding how and why literature review is carried out, followed by in-class activity on making theoretical frameworks. Students thoroughly enjoyed and learned important research concepts in a play mode.



Gender & Sustainable Development:

The computer science department invited Dr. Sundas Saleemi to deliver a lecture regarding sustainability on economy by managing household budget. She guided

Seminar: "Sustainable Finance"

A seminar on the topic "Sustainable Finance" was conducted on January 19th, 2022 by Ms. Rabia Habib. The guest speaker was Dr. Sohail Rizwan, IPFP Fellow in Fatima Jinnah Women University, Rawalpindi.

The guest speaker gave a brief overview of Sustainable Finance, its drivers, and developments. Dr. Sohail explained ESG (Environment, Social & Governance) reporting with examples from public borrowing and optimal decision making. He emphasized the role of ESG to improve economic efficiency, competitiveness, and contribution

towards protecting and restoring the ecological system and enhancing cultural diversity and social well-being.

Dr. Sohail highlighted the importance of sustainable finance concerning the policy objectives of the European Green Deal and the EU's international commitments on climate and sustainability objectives. The guest speaker discussed the fundamental role of governance in public and private institutions. He also shed light on management structure, employee relations, and executive remuneration to incorporate social and environmental considerations in the decision-making process.



Seminar: Envision through Emotional Intelligence

The seminar's goal was to convey the basic understanding of Emotional Intelligence/EQ and its importance in our daily lives. Dr. Sarmad explained different human emotions and



behavioral patterns that cause an imbalance in our routines and personalities and how our mental health is as important

as our physical health.

Furthermore, the guest speaker emphasized the positive/negative mindsets we grow on ourselves unconsciously. There are different exercises and practices to control your emotions and take charge of your mood, but it is only possible when you start acknowledging the concept of Emotional Intelligence.

Game Development

CAUSE Society organized a seminar on the topic of "Game Development" on February 2nd, 2022 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. Umair ahmed, Mr. Hamza from the company named as The Knights, 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. Mr. Kashif Basir and Mr. Syed Awais Haider presented the shield to the speaker afterwards.



Seminar on Growth Challenges and Opportunities of the 21st Century

A seminar on Growth Challenges and Opportunities of the 21st Century was organized on December 24, 2021 under the supervision of Dr. Samyia Safdar. The guest speaker was Saith Usama Chitrali, who has been working as a development practitioner since 2012. He has been serving as an executive consultant to Secretary General of UN General Assembly.



In the seminar, he discussed today world's growth challenges and opportunities. He explained that one must be career-oriented instead of job-oriented. Whenever you get a chance to work, avail it even if it is unpaid. This will increase your exposure and experience of working in different organizations.

Seminar: "Awareness Program on Future Trading at PMEX"

The seminar titled "Awareness Program on Future Trading at PMEX" was organized on January 07, 2022,



under the supervision of Dr. Arshad Hassan, Dr. Nousheen

Tariq Bhutta, Ms. Maria Mashkoor, Ms. Rabia Habib and Ms. Namra Mubarak. This seminar aimed to enlighten the participants on the importance of alternative business routes, particularly in commodity trading at PMEX.

Mr.Irfan Kasana, senior manager at PMEX, responsible for business development and working as the branch in charge, was the guest speaker. He informed the students that (PMEX) "Pakistan Mercantile Exchange Limited" is Pakistan's first futures, commodity market, having its registered head office in Karachi, Sindh. It is the only company in Pakistan to provide a centralized and regulated place for commodity future trading and is regulated by the Securities and Exchange Commission of Pakistan". This activity informed the students about the future trading opportunities.

E-Gaming Competition

CAUSE society organized an event on E-gaming on December 21, 2021. In this event participants registered in Tekken 7, FIFA, Call of Duty 4 and PUBG. The Tekken 7 event was based on knock-out rounds. 10 Participants took part in this event. After knocking-out everyone Asad Shahzaib won



the tournament. The event of FIFA took place on December 23, 2021. A total of 16 participants took part in the event. Ayan Javed showed his skills and made the tournament easy for himself and won the tournament. The event of Call of Duty 4 was organized on December 23, 2021. 4 teams were made, each team consisting of 5 members. Team ReD showed their team work and their aiming skills and won the tournament. On December 22, 2021, the event of PUBG was organized, the total number of players that participated in event were 50, out of which 36 were in Classic and 14 were in solo Team Death match. The winning team captain for the PUBG classic mode was Roohullah and winning player for the PUBG Team Death Match mode was Taha Bin Ansar.

Poetry Recitation – Together We Rhyme

Faculty of English designs multiple sets of extracurricular activities for the students of the Department of English to enhance their social skills along with their cognitive ability. In this regard, a total number of four activities were designed for the students of the

first semester and one of them was Poetry Recitation. Dr. Hashim Khan and Ms. Asma Qandeel were assigned the duty to execute the activity. A total number of thirteen students participated from three different departments. Certificates of Appreciation were distributed among the students.



Commemoration of Anti-Corruption Week

To create public awareness against corruption, the anti-corruption week was observed in the Capital University of Science and Technology, Islamabad, from 1st December to 9th December 2021. Different activities such as Awareness walk, Poster Competition, Essay Writing Competition, and Declamation Contests were arranged. The Essay Writing Competition was organized exclusively by the Department of English. The topic of the essay was: Say No to Corruption, Stand up for Transparency and Fair play.



A ceremony was held on 24th December 2021 to award cash prizes, certificates, and shields to the winners and runners-up. The winner of the Essay Writing Competition received five thousand cash prize, and the runners-up got three thousand rupees. The winners and the runners-up were also awarded certificates and shields. The organizers were also awarded shields.

Professional Development Program on "Life Narratives"

Professional Development Planning Department of English, organized its 1st seminar on November 17th, 2021. Ms. Ayesha Zahoor, Senior Lecturer Department of English, served the occasion as a guest speaker. Ms. Ayesha Zahoor is a Ph.D. scholar at NUML, Islamabad campus, and has good teaching experience. The seminar was organized to enlighten the participant faculty with different concepts and approaches related to the said genre in literature. Additionally, the importance of "Life Narratives" as an emerging genre, the related literature, its historical background, the three waves of autobiographical writing, and the constitutive process of autobiographical subjectivity were highlighted. The session lasted for an hour and a half, followed by academic discussion among the participants.





Professional Development Program on 'Avoiding Under-theorization Through Critical Review of Literature'

Professional Development **Planning** Department of English, organized its 2nd seminar on January 18th, 2022. Dr. Inayat Ullah, Head of English Department, Graduate Studies, NUML Islamabad, served the occasion as a guest speaker. Dr. Inayat Ullah is a well-known academician and researcher who has worked in many reputable local and international organizations. He delivered a brief and compelling lecture on 'Avoiding Under-theorization through Critical Review of Literature' to enlighten the participants with the approaches related to the literature review. The honorable speaker also discussed how a specific theory could be supported and augmented by critically reviewing the literature. The session ended with a productive discussion in the form of questions/answers, and the honorable guest appreciated all the efforts.



English Certificate Distribution Ceremony

In collaboration with Englishers LLL International, the Department of English organized a Certificate Distribution Ceremony on February 25, 2022, to distribute certificates among the participants of an international conference on 'The Philosophy of Language, Literature & Linguistics.' The meeting was held at Khazar University, Azerbaijan, from September 24, 2021 to September 25, 2021. Academicians and experts from various universities of the country attended the ceremony. Vice-Chancellor CUST, Dr. Mansoor Ahmed, awarded the guests and participants shields and certificates. Dr. Irada Khalilova, Rector, Khazar University, also attended the session online

and praised the participants.



ICPC online programming competition 2021

Students from software engineering department participated in 2021 ICPC online programming competition organized by GIKI. It was two days event starting from 25th January 2022 to 26th January 2022. On first day, students were trained on programming tool and rules to be followed. The actual event was held on 26th January and 12 groups (having 3 students in each group) participated in the event.

Apart from students, members of CAUSE society and faculty members actively participated to organize the event and encouraged students.

The head of department, Dr. Nadeem Anjum was personally observing activities on both days of the event. His presence and enthusiasm was a source of motivation for both students and faculty. On event day, the vice chancellor Prof. Dr. Muhammad Mansoor Ahmed graced the event by his presence and his visit to the event was honor for the department.



Seminar on Blockchain & Logo Designing Competition

CAUSE society at Capital University of Science and Technology, organized a seminar on 19th of January, 2022. CAUSE society invited Mr. Mudabbir Ali as guest speaker. Mr. Mudabbir Ali is a lecturer at Federal Urdu University of Art, Science and Technology (FUUAST), an inspiring data scientist and an expert in Blockchain technology. He has also been



studying in-depth about NFTs and Cryptos and following the trends in advanced on technology towards blockchain. The speech mainly focused on Web 3.0 which is the new world of internet. After the speech a question answer session was held where all the students who were interested in the Blockchain domain asked the guest speaker questions about the new era of Internet. After parting words from our guest, Mr. Syed Awais Haider and Ibrar Arshad presented him with souvenir at the end of Seminar and thus the event concluded successfully.

UML: "An Instrument to enhance Software Reliability"

CAUSE society at Capital University of Science and Technology, organized a seminar on 31st January 2022. Dr. Tahir Jameel, the guest speaker, is the Director of Software Quality Assurance Department at NESCOM. He is an inspiring



Software Engineer and a researcher in Software Reliability.

The seminar kicked off with Recitation of Holy

Quran and after that the guest speaker gave a speech. The speech mainly focused on UML: "An Instrument to Enhance Software Reliability". After the speech a question answer session was held. This seminar proved to be very helpful for our students who wish to gain expertise in the field of Software Reliability as it helped them gain new insights. After parting words from the guest, Dr. Aamer Nadeem, Qamar-uz-zaman, and Mr. Syed Awais Haider presented him with souvenir at the end of Seminar and thus the event concluded successfully.

Pre-Departure Orientation of VIS-CUST Volunteers

The last pre-departure orientation session was organized by VIS Directorate for the students of department of Pharmacy on 05 August, 2021. The orientation started with the recitation of Quran. Around 100 students participated in this session and Directorate placed them in their assigned organizations.

Director VIS-CUST, Dr. Shaukat Iqbal explained aim



and objectives of VIS community training in the session. Managing Director, Ms. Sabeen Farooq and Director Admin & PR, Vision Building Future, Mr. Waqas Asghar were present during the session. Vice president Al-Khidmat Foundation Pakistan, Dr. Mushtaq Ahmed Mangat, Head of Volunteer Management Department Al-Khidmat Foundation Pakistan, Mr. Muhammad Sannan Akbar and President Al-Khidmat Islamabad, Mr. Hamid Ather Malik were also present during the session.

Director VIS has also explained some important instructions for their successful community service training at assigned organizations. There were also a Question & Answer session in the seminar. The last Pre-Departure Orientation Session will be held on 5th of August for the students of Pharmacy due to their engagement in their final practical's.



MoU Signing Ceremony with Vision Building Future

The VIS Directorate CUST signed the MoU with Vision Building Future for the period of three years.



Renewal Ceremony of MOU with Al Khidmat Foundation

The VIS Directorate CUST renewed the MoU with Al Khidmat Foundation Pakistan for the period of three years.



Renewal of MoU with Rifah Trust

There was a MoU renewal ceremony between VIS-CUST and Rifah Trust in CUST campus, Islamabad on October



04, 2021. The Trust mainly focuses on Education, Health and Technical Trainings sectors. Dr. Amir Qayyum is chairman of Rifah Trust and Professor in Capital University of Science

and Technology. Rifah Trust is one of valuable partner of VIS-CUST. It was discussed in the meeting with Chairman Rifah Trust that around 45 students will be registered per semester for Rifah Trust. The group will be comprised on 12 to 15 students. And a meeting will be held between partners prior one month to placement of volunteers to discuss mechanism.

Kashmir Day

On February 04, 2022 Arts and Literary Club, Capital University of Science and Technology organized a declamation contest followed by a solidarity walk to observe the Kashmir Solidarity Day. The event was open to all the students of CUST and approximately 110 people were in attendance. A short documentary paying tribute to the freedom fighters of Kashmir was played at the beginning of the event. Total of 6 speakers took part in the declamation contest. After a healthy contest Mr. Muhammad Tayyab Ramzan from Pharmacy department took the first position followed by Ms. Maryam Afzal who bagged the second position. During the contest, speakers vigilantly used the rostrum to raise their voice in favor of the oppressed people of the occupied Kashmir.



Patron CALC, Ms. Qurat ul Ain Jalil and President CALC, Mr. Ibrahim Saeed; were on hand as the event judges. Other senior faculty members of the university were also present to observe the contest. Ms. Qurat ul Ain Jalil later distributed shields and certificates among the position holders and participants. She lauded the preparation of the students and encouraged them to participate in further such activities.

After the declamation contest, all the audience gathered in front of the Block-C for a solidarity walk. Both students and faculty joined the walk very enthusiastically. The participants were holding banners, posters and flag to show solidarity with Kashmiri people. Slogans demanding the end of cruelties on the Kashmiri people were raised. Participants reaffirmed on their support and commitment for the Kashmiri cause. At the conclusion of the event, the honorable Vice Chancellor Dr. Mansoor Ahmed joined the CALC team and the walk participants for a group photo.

Renewal of MoU with Taaleem Foundation

An MoU renewal ceremony was held between VIS-CUST and Taaleem Foundation at their premises in Islamabad on October 01, 2021. Taaleem Foundation mainly focuses on Education and Health sectors. Dr. Zafar Qadir is the chairman of Taaleem Foundation, he is a former bureaucrat and he completed his doctorate in Development Studies. Taaleem Foundation, Islamabad is one of the valuable partners of VIS-CUST. It was discussed in the meeting with Chairman Taaleem Foundation that around twenty students will be registered per semester for Taaleem Foundation. A meeting will be held between the partners prior to one month of placement of volunteers to discuss the mechanism. Female students will be given priority in placement with Taaleem Foundation. Mr. Naeem Ullah Khan, Deputy Director VIS-CUST and Dr. Zafar Qadir, Chairman Taaleem Foundation, Islamabad signed the renewal MoU.



Renewal of MoU with The NGO World

Mr. Zafar Iqbal, Executive Director The NGO World (TNW) visited VIS Directorate-CUST office on September 28th, 2021 to renew the MoU. He formally requested to renew the MoU with VIS Directorate-CUST in meeting. The MoU with The NGO World had expired in January, 2021. He promised to strengthen the coordination with VIS-CUST volunteers



and engage them properly. He also showed keen interest to hire CUST graduates as internees in his organization and for this purpose VIS Directorate-CUST will play the role of mediator between VIS-CUST Placement office and TNW.

The VIS Directorate-CUST principally agreed to renew MoU with The NGO World for three years and it was decided that thirty students will work with The NGO World as volunteers in every semester.

Renewal of MoU between VIS-CUST and Al-Khidmat Raazi Hospital, Islamabad

As part of the partnership drive of VIS-CUST, an MoU renewal ceremony was held between VIS-CUST and Al-Khidmat Raazi Hospital, Islamabad at their premises on September 29, 2021. A long track record of voluntary services to society shows that Al-Khidmat Raazi Hospital, Islamabad is one of the most appropriate partners for VIS-CUST. It was also discussed in the meeting that the students of concerned faculties i.e., Pharmacy and Health & Life Sciences will be given priority to join Al-Khidmat Raazi Hospital, Islamabad. Around thirty students will be registered per semester with Al-Khidmat Raazi Hospital, Islamabad. A meeting will be held between the partners prior to placement of volunteers to discuss the mechanism. Both male and female students will be treated equally for the placement

Mr. Naeem Ullah Khan, Deputy Director VIS-CUST and Dr. Tahir Farooq, Medical Superintendent from Al-Khidmat Raazi Hospital, Islamabad signed the renewal MoU.



CUST 1st Cohort Competition 2021

Office of research Innovation and commercialization (ORIC) under the mentorship of Vice Chancellor initiated the concept of Incubation center at CUST. The center known as CUST Incubation Center (CIC) started its operation in February 2021. The purpose was to help CUST students and Alumni to initiate new startups and develop their business by providing facilities like workspace, high applications for its first Cohort: A pitching competition was conducted to hunt for startups on November 19,2021. CAUSE society mobilized the faculty and students to participate in this event. Mr. Samir Obaid and his team participated in this competition. The shortlisted startups were called to present their ideas in the 2nd CUST innovation committee on 24th January 2022. The committee members unanimously agreed and selected top two startups.



CUST ICONS

Dr. Amir Qayyum (DEAN ELIC)

Please tell us about your experience in developing programs and partnerships with external constituents?

I am pursuing international collaborations since 2010 through various programs. Since then, we have collaborated on twelve different projects. Both students and faculty members participated in these projects. They visited European universities under these programs. These were very successful collaborations. Around five projects were under Erasmus Mundus Program, whereas four were under Erasmus Plus Program. We also had an international level collaboration under ICT Asia Program and PHC Peridot with the Government of France.

What, according to you, are the needs and challenges of collaborative research in the modern era? How can students overcome them?

Usually, when we ask new foreign collaborators for collaborations, they check the university ranking, and CUST being a new university, chartered in 2015, is in the process of subscribing and fulfilling the requirements of various university rankings, like QS, THE, Shanghai, etc. However, as we have already collaborated as a partner in major international funding programs like Erasmus, ICT Asia or PHC Peridot. We will maintain our reputation and are working on new projects, by involving many departments of the university.

For industrial linkages, we have conducted many informative sessions for students. For example, with National Institute of Banking and Finance (NIBAF) and the Accounting and Finance Department, we arranged an awareness session wherein many renowned bankers talked to our students. We also collaborated with Career Pakistan to guide students about choosing appropriate career, by holding talks of senior executives (e.g. CEO of Khyber Bank, etc.). We also arranged awareness sessions in collaboration with CHRS to guide the students about their final year projects. We have also signed an MoU with Rawalpindi Chamber of Commerce and Industry (RCCI) and participating in their activities to provide industry exposure to our students.

What steps have you recently taken to ensure the branding and image building of the university?

The Office of Corporate Linkages has been renamed as the Office of External Linkages and International Collaborations (ELIC) in March 2021. We have already signed 31 MoUs with various organizations and rigorously pursuing to generate activities under these MoUs. In this regard, some very successful events were held in collaboration with CHRS, RCCI, NIBAF and Career Pakistan. After Ramadan, we will be signing MoUs with three

more organizations. Recently, we have registered with the Ministry of IT and Pakistan Software Export Board for their Hitech Skill Development Program for Youth, where they will offer free certificate courses to our students in certain hitech areas. This will help the students and provide a competitive edge in their professional career.

Please tell us about your research interests and how you see them fitting with the Office of External Linkages and International Collaborations' mission and direction?

I usually do applied research through funded projects and international collaborations. Most of the time, in funded research, we need to make consortiums with partners and apply for funding. I have been doing this for the past 12 years, and can



continue the same through the office of ELIC. In January, we did an Awareness Session about Erasmus Plus projects for CUST faculty. It was an informative session explaining the administrative and technical challenges of the Erasmus Plus project proposals, including how to find the international partners. They were told how ELIC office can help them in refining their project proposals to work with international partners.

What future projects are you planning to boost the university's ranking, external collaborations and international exposure?

We are rigorously pursuing the process for university ranking with well known university ranking databases, like QS Ranking, Times Higher Education (THE), Shanghai Ranking, etc.

Through external linkages, our objective is to hold regular events for the professional grooming and industrial exposure of our students.

Apart from the opportunities for international collaborations through Erasmus Projects and through HEC, we have started tapping some embassies for their programs in academic and research collaborations. For example, we invited the Scientific and Education Attache of the French Embassy to talk about various opportunities for research collaboration. We plan to pursue the same with the Italian Embassy, and with the German Embassy for their DAAD scholarship program.



CUST ICONS

Mr. Malik Arshad Mehmood

(REGISTRAR)

Tell us a bit about your professional experiences and how they contributed to your role as a registrar?

I have a long administrative and educational experience of over 31 years in the erstwhile University Grants Commission and Higher Education Commission of Pakistan. During those 31 years, I have served as Director Academics, Director Curriculum and Director Human Resource Management. Currently, I am working as Registrar at Capital University of Science and Technology with effect from 01-04-2013 till date.

What role does a registrar office play in the smooth running of the university?

The Registrar Office is responsible to ensure that all its statutory bodies such as Board of Governors, Executive Committee, Academic Council, Board of Advance Studies and Research, Board of Faculty, Board of Studies and all other



bodies constituted as defined in the Act are functioning as per Act. The Registrar Office provides administrative support/ facilitation to all faculties and academic departments to ensure smooth execution of their academic programs. Being custodian of the university's official documents, it ensures that the record of the University policy is properly maintained. The Registrar reports to the Vice Chancellor of the university for his assignments.

What necessary steps do you have to take to maintain the integrity and efficiency of the registrar office?

The Registrar Office in the beginning of year, prepares calendar for the meetings of all statutory bodies and make sure that all meetings are conducted timely according to the schedule given in the calendar. After the conduct of meetings, it ensures to record the minutes of the meetings well in time and circulates them to all the stakeholders with the approval of the Vice Chancellor for implementation of actions taken in the meetings. The Registrar Office also ensures that the actions on decisions taken by the relevant Statutory Bodies are implemented. Besides, the Registrar Office also keeps close liaison with the regulatory bodies including HEC, Professional Councils and other government educational departments for affairs related to the university.

How does the administrative set up of CUST compare to the national and international standards?

The management of CUST believes in educational excellence and for this purpose Registrar Office is fully equipped with the trained manpower. So, the Registrar Office provides the secretariat support to the authorities and the academic departments of the university. The administrative setup of CUST can be compared to any excellent national and international higher learning institution. Its infrastructure, labs, teaching and record keeping and proceeding of different statutory bodies are appreciated on several occasions by the visiting teams of regulators and councils.

What measures will you take to maximize the collaboration between academic and administrative operations?

Collaboration between academic and administrative operations in a university is very important. Basically, the main objective of both is to grow the institution as of a good higher education learning. It involves cultivating a shared vision, mutual respect and in-depth understanding of each other's role to achieve the desired goals at excellent level and come to the satisfaction of end user. For this purpose, the following measures are ensured to improve the collaboration: -

- To have a mutual understanding between academic and administrative departments. They can make the operation of university smoother and more effective.
- To help the employees understand the constraints and challenges faced by the different departments.
- To create a sense of responsibility to help each other work/assignment. This can improve the efficiency and coordination.
- To keep addressed each other with university related information.
- To promote healthy relationships between the departmental heads which can have a significant influence in solving important issues.



OUR SHINING STARS Aiman Arshad

Q: How does it feel to be awarded with the most prestigious award at CUST?

It was incredible to be awarded with not one but two gold medals – academic gold medal for my bachelors program and Jinnah Gold Medal. It was one of the most uplifting and gratifying moments of my life. But I believe that this is just one milestone of my journey and I have a long way to go.

Q: Tell us a little about your experiences with faculty and classes at CUST?

I had the most wonderful and amazing time at CUST. I met many aspiring teachers who have always gone extra miles to make the course interesting and fruitful with the help of practical projects. Their constant efforts have brought out the best in me. However, more industry visits/collaborations should be arranged to bridge the gap between academia and industry.

Q: Have you always been a high-achieving student academically? What obstacles, if any, did you overcome while attending CUST? What kept you motivated?

Yes, throughout my school and college I have topped my class. I used to struggle with group projects as I liked to work alone at my pace but four years at CUST was a great learning experience which helped me in improving my teamwork and communication skills. What keeps me going and still motivates me is the drive to learn new things and improve my skills with time.

Q: How do you think CUST has prepared you for life after graduation?

Choosing CUST for my bachelor's degree was one of the best decisions I have made. The university provides a conducive environment for learning and polishing our skills. The regular project presentations incorporated inevitable confidence in me to face job interviews. When it comes to extracurricular activities, CUST has given me wonderful opportunities to organize various remarkable events including business research conference, seminars, job expo, and marketing gala. Such social and networking events provide exposure to the real business world and further enrich the experience of students. This combination

of classroom learning and practical experience made me future-ready. I got my first job right after graduation as Trainee Officer in Competition Commission of Pakistan.

Q.: What would you tell someone considering coming to CUST? Do you have any advice for current or future students?

I would recommend CUST because of its unique learning environment and highly qualified faculty members. My



advice to current and future students is to pursue the field they feel passionate about, set clear goals for yourself and then work hard to achieve them. You can achieve anything, as long as your focus is clear and you are willing to work hard. Keep working hard, success will follow sooner than later.



Basketball Tournament for Boys – Fall 2021

The Inter-Departmental Basketball Tournament for Boys was held from January 13, 2022 to January 21, 2022. Teams from 11 different departments participated in this event. Teams were divided into four pools, and one group from each collection qualified for the semifinals. The final match was played between the civil engineering department and the department of computer science on January 21, 2022, in which the civil engineering department won after an exciting game. In the final ceremony, Dean Engineering Dr. Imtiaz Ali Taj awarded the trophy to the winning team. The tournament was conducted in a very peaceful atmosphere, and all the teams played with whole sportsman spirit and enthusiasm.



Inter-Departmental Cricket Tournament for boys - Fall 2021

The Inter-departmental Tap ball Cricket tournament was inaugurated by the worthy Vice Chancellor Dr. Muhammad Mansoor Ahmed. In this tournament, 12 teams from different departments were participating, so to arrange the sequence of matches, a concept of BYE was in place by the consent of all the team managers. A lucky draw was performed in front of every team manager.



The tournament concluded with a final between Civil Engineering Department and Bio-Sciences Department. Both the teams played with great zest and enthusiasm. After a thrilling match, the Civil Engineering team won the trophy. The award was handed over to the group by worthy Dean Faculty of Computing, Dr. Muhammad Abdul Qadir, in the closing ceremony. He appreciated the efforts of the students and congratulated them

Inter-Departmental Basketball Tournament for Girls – Fall 2021

The Inter-Departmental Basketball Tournament for Girls was held from January 13, 2022 to January 21, 2022. Teams from 8 different departments participated in this event. Teams were divided into four pools, and one group from each collection qualified for the semifinals. The final match was played between the department of pharmacy and the department of psychology on January 21, 2022, in which the department of psychology won after a nailbiting match. In the final ceremony, Dean Engineering Dr. Imtiaz Ali Taj awarded the trophy to the winning team. The tournament was conducted in a very peaceful atmosphere, and all the teams played with whole sportsman spirit and enthusiasm.





Inter-Departmental

Girls Cricket Tournament - Fall 21

The Inter-departmental Female-Cricket was inaugurated by the worthy Vice-Chancellor, Dr. Mansoor Ahmad. He assured that the University would make every possible effort to encourage students to participate in different sports activities organized at the local and national



levels. He also played the first two balls on the pitch as an opening gesture.

The tournament concluded with a final between Software Engineering Department and Bio-Sciences Department. Both the teams played with great zest and enthusiasm. After a thrilling match Bio-Sciences team won the trophy. In the closing ceremony, the award was handed over to the group by worthy Dean Faculty of Computing, Dr. Muhammad Abdul Qadir. He appreciated the efforts of the students and congratulated them.

Inter-Departmental

Football Tournament – Fall 2021

The Inter-Departmental Football Tournament was held from December 27, 2021, to January 17, 2022. The tournament aimed to engage the university students in extracurricular activities, especially after the Novel Coronavirus lockdown. The students actively participated in the game and expressed their talents. In the closing ceremony, Dean, Faculty of Management and Social Sciences Dr. Arshad Hassan distribute the trophy to the winning team.

The final match of boys was played between Computer Sciences (CS) and Civil Engineering (CE) departments. The Computer Science department (CS) team was the winning team for the Fall 2021 Football boys Tournament. The tournament was conducted in a very peaceful atmosphere, and all students enjoyed it a lot.

Inter-Departmental

Table Tennis Tournament – Fall 2021

The inter-departmental table tennis tournament was organized by the Faculty of Health and Life Sciences from November 15 to November 18, 2021. The tournament was scheduled for both girls and boys in the CUST gymnasium. A committee to organize and execute the matches successfully was formulated under the chairmanship of Dr. Muhammad Abdul Qadir, Dean, Faculty of Computing and Health and Life Sciences.

The tournament concluded successfully on November 19, 2021, with the victory of the Department of Psychology in the girls' single and double events and



the Department of Computer Sciences in the boys' singles and doubles events. Closing remarks were given by Dr. Muhammad Abdul Qadir, along with souvenir distribution among the winners at the end of the tournament.

Inter-Departmental

Volley-Ball Tournament - Fall 2021

Faculty of Pharmacy organized Inter-Departmental Volleyball Tournament. The tournament started on December 13, 2021, and concluded on December 24, 2021 at the university sports ground. Dr. Mahboob Alam was the convener of the game. The boys and girls teams from all the departments participated in the tournament.

Girls' final Volleyball match was held on December 23, 2021, between Psychology and Computer Science. The Computer Science Department won the final. Prof. Dr. Muhammad Mansoor Ahmed, Vice-Chancellor, and Dr. Muzaffar Abbas, Dean Pharmacy, distributed the trophy to the winning team.

The boys' final Volleyball match was held on December 24, 2021, between Pharmacy and Civil Engineering. The Civil Engineering department won the final. Prof Dr. Muhammad Abdul Qadir, Dean Faculty of Computing and Faculty of Health & Life Sciences, and Dr. Muzaffar Abbas, Dean Pharmacy, distributed the trophy to the winning team.



SOCIETY IN FOCUS: IEEE

IEEE is the world's largest technical professional organization dedicated to advancing technology for the benefit of humanity. IEEE and its members inspire a global community through its highly cited publications, conferences, technology standards, and professional and educational activities.

IEEE CUST STUDENT BRANCH

IEEE CUST Student branch is among the 27 student branches under the Islamabad section. It has total of more than 100 student members and around 10 to 15 professional members. Students are registered every year. The international registration number is allotted to student for a year. The society is divided further into 3 technical chapters i.e. Computer Society, Control Systems Society and Power and Energy Society. An additional affinity group, Women in Engineering is also there. IEEE CUST Student Branch is presided by Mr. Qazi Abdul Moqueet who works as a counselor for the branch. Each subbranch then has its own counselor which oversees the student activities. The whole body is then chaired by a student chair under which a complete hierarchy of offices are present. This body is revised every year after strict scrutiny through an interview process. Below, you can find IEEE's mission and vision statements.

Mission statement

IEEE's core purpose is to foster technological innovation and excellence for the benefit of humanity.

Vision statement

IEEE will be essential to the global technical community and to technical professionals everywhere and will be universally recognized for the contributions of technology and of technical professionals in improving global conditions.

Working

IEEE CUST Student branch, since its inception in 2013 has been instrumental in providing the young talent of the university a platform to come forward and showcase their abilities. It has contributed to enhancing the knowledge base of the students through informative seminars and table talks. IEEE CUST Student branch has been very keen on enhancing the skill set of the students and for that they invite industry professionals to conduct workshops on the latest technology and share their experiences which have proven to be very fruitful for the students.

In addition to that IEEE CUST Student branch invokes the competitive spirit among the students through different competitions in technical and non-technical domain. They strive to engage students from all departments to participate actively. IEEE CUST student branch also conduct an annual signature event namely IEEE CUST Social and Educational Carnival (ICSEC) in which students from all over the country are invited at CUST to showcase their skills. A national level event is growing in numbers every year as students from every province bring their own flavor to the event. This helps students a lot because of the knowledge sharing and exposure to different fields have broadened their horizon. Due to these experiences, a student selected to work for Islamabad Section as Section Representatives which in itself is a great achievement.

Achievements

IEEE CUST Student Branch has been able to achieve several national awards over the years in student and team capacity. Some of them are as follows

- Best Student branch
- Best Technical Chapter Award
- Best Affinity Group Award
- Best Leadership Award
- Best Counselor Award
- Best Student Volunteer Award





DSE Activity Report Oct, 2021 - Jan, 2022 Green Metric World University Ranking 2021

The Capital University of Science and Technology (CUST) is now ranked among the top 300 universities in the world and among the top seven universities in Pakistan. According to the UI Green Metric World University Ranking 2021, CUST is the 286th most sustainable university in the world, out of a total of 956 universities worldwide. This has been accomplished using Green Metric's competitive and rigorous ranking system for the evaluation of on-campus sustainability, which has been in place since 2007. Among the important performance indicators, were CUST's campus setting and infrastructure, its research and development efforts, its energy and climate change efforts, waste management, water conservation, and the carbon footprint of its transportation operations. The Directorate of Sustainability and Environment (DSE) at CUST is taking substantial steps to promote responsible action and incorporate sustainability on campus to achieve the Sustainable Development Goals established by the United Nations (SDGs). Capital University of Science and Technology signed MOU with Khubaib Foundation on November 25, 2021 to facilitate deserving students and deprived sections of society.



The Directorate of Sustainability and Environment collaborated with CUST Help Hand Society (CHH) and delivered raashan packs at the doorsteps of 26 poor pre-identified families by pre-visits and database in a slum area of Rawat, Pakistan.

VIS Directorate-CUST organized blood donation camp in collaboration with Jamila Sultana Foundation on Thursday November 11, 2021 and 129 bottles were donated by students and faculty members.

VIS, Directorate of Student Affairs and ELIC of CUST in collaboration with Islamabad Police and Islamabad Traffic Police conducted a seminar on "Use of Drugs".

An MoU renewal ceremony was conducted between VIS-CUST and Taaleem Foundation at their premises in Islamabad on October 01, 2021 to focus primarily on Education sector.

Gender Equality is the fifth SDGs (Standard Development Goal) set by the United Nations to empower women and end gender discrimination through social cohesion with equal access to healthcare, education, and representation in economic and political decision-making processes.

Clean Water and Sanitation is the sixth key SDG set by the UN to ensure safe drinking water to all communities through

investing in hygiene and sanitation facilities that will restore aqua ecosystems.

The 6th International Conference on Energy, Environment, and Sustainable Development (EESD2022) organized by the Department of Electrical Engineering aims to provide energy efficient, sustainable and environment friendly solutions to the several interdisciplinary problems to improve the quality

of environment regarding the seventh SDGs of UN.

The Department of Management & Social Sciences organized a seminar on "Introduction to E-Commerce", November 11, 2021 to make students realize the importance of worldwide e-commerce platforms and how people sell and purchase their product through online trading world.

ORIC in collaboration with Checkout US conducted a six-week long comprehensive session on Amazon Trading, consisted of total 08 Modules which were covered in six weeks from Nov 05, 2021 to Jan 14, 2022 to equip students with the art of earning easy income through E-commerce. Checkout US, also offered internships to course participants.

ORIC in collaboration with the Department of Psychology and Department of Pharmacy organized a training session for CUST youth. The digital literacy project is supported by the US Mission to Pakistan in Partnership with the Pakistan-U.S. Alumni Network.

The Department of Psychology in collaboration with DSE organized a seminar on "Role of the Telecommunication Industry in the Economic Development of Pakistan" where Mr. Hassan Ali told how telecom is helping to boost our economy, telecom trends in Pakistan, telecom revenue, foreign direct investment in the telecom sector, investment and GST contributions,

Reducing Inequalities is the tenth SDG defined by the UN to bring transformative change, including ethnicity, gender, age, income, disability, religion, origin, and economic status.

Sustainable Cities and Communities is the eleventh vital sustainable development goal set by the United Nations. It aims to enhance the cities and make them sustainable.

Responsible Consumption and Production is the twelve important SDGs specified by the United Nations to encourage efficient utilization of resources through sustainable practices. CUST is taking vital measures to encourage youth to contribute to the circular economy in Pakistan.

DSE playing a significant role, organized an awareness seminar on "Plastic Pollution", November 29, 2021 to bring the government, the corporate sector and the academia on one platform. The Guest Speakers for the event were Ms. Maryam Shabbir (Environmentalist at SDPI) and Mr. Usman Chaudhry (Assistant Professor at FAST-NUCES).

29



Faculty Members Research Output-Cumulative Impact Factor above 100

S. No	Faculty Member	Total No. of Impact Factor Publications	Total Impact Factor	Google Citations	Google h-Index	PhD Supervised
1	Dr. Shafqat Hussain	74	226.644	1460	23	05
2	Dr. Aamer Iqbal Bhatti	67	212.831	1934	22	22
3	Dr. Majid Ali	30	159.317	1466	20	01
4	Dr. Noor Muhammad Khan	37	121.411	1046	17	08
5	Dr. Muhammad Mansoor Ahmed	57	121.129	1305	s18	10
6	Dr. Muhammad Sagheer	43	120.788	876	17	06

Research Grants Won 2021

S. No	Project Title	Project Pl	Amount	Funding Agency
1.	Screening of benzimidazole derivatives as potential agents for diabetic neuropathy and associated pathological mediators	Dr. Muzaffar Abbas	7.1 Million	HEC
2.	eHealth supported intervention for improving care for young people with substance use disorder in Pakistan	Dr. Ishrat Yousaf	7.3 Million	HEC
3.	Development Of Building Products From Recycled-Plastic For Housing	Dr. Majid Ali	9.98 Million	HEC

Faculty Induction

No.	Name	Designation	Highest Degree	Area of Specialization	University
1.	Mr. Abdur Rauf	Junior Lecturer	MS	Electrical Control Engineering	NUST, Rawalpindi
2.	Mr. M. Majid Zaman	Associate Lecturer	MS	Computer Science	CUST, Islamabad
3.	Mr. Tiamoor Riaz	Associate Lecturer	MS	Computer Science	CUST, Islamabad
4.	Ms. Maham Tariq	Associate Lecturer	MS	Computer Science	CUST, Islamabad
5.	Mr. Faisal Raza	Lecturer	Master	Pharmaceutics	Uni. Nanjing China
6.	Mr. Saad Salman	Lecturer	MPhil	Pharmaceutical Sciences	Abasyn Uni. Peshawar
7.	Mr. M. Sulaiman	Lecturer	MPhil	Molecular Pharmacology	Abbottabad Uni. Havellian
8.	Mr. Sohail Riaz	Lecturer	MPhil	Pharmacy Practice	University of Balochistan
9.	Dr. Jabir Mumtaz	Assistant Professor	PhD	Mechanical Engineering	Huazhong Uni. of Science and Tech. Wuhan, P.R. China
10.	Dr. Ghulam Asghar	Assistant Professor	PhD	Materials Science and Engineering	Shanghai Jiao Tong University, China
11.	Mr. Muhammad Ammar Ayub	Lecturer	MS	Structural Engineering	NUST, Islamabad
12.	Mr. M. Waqas Malik	Lecturer	MS	Structural Engineering	NUST, Islamabad
13.	Syeda Mariam Muzammal	Lecturer	MS	Computer Science	COMSATS, Islamabad
14.	Ms. Afsheen Masood	Lecturer	MS	Software Engineering	Military College of Signals (MCS), NUST
15.	Dr. Abid Kamran	Assistant Professor	PhD	Mathematics	CUST, Islamabad
16.	Mr. Ashiq Ali	Lecturer	MS	Mathematics	COMSATS, Islamabad
17.	Mr. Wasim Sajjad	Lecturer	MS	Mathematics	COMSATS Uni. Islamabad
18.	Mr. Waqar Younas	Lecturer	MPhil	Mathematics	CUST, Islamabad
19.	Mr. Azhar Rauf Khan	Lecturer	MPhil	Mathematics	IIU, Islamabad
20.	Mr. Muhammad Iqbal	Lecturer (Islamic Studies)	MS	Islamic Business and Finance	Riphah Int. University, Islamabad



21.	Mr. Abdullah Waseem	Lecturer (Islamic Studies)	MA	Islamic Studies	GC Uni. Faisalabad
22.	Dr. Sania Riaz	Assistant Professor	PhD	Molecular Biology	University of Punjab, Lahore
23.	Mr. Sami Ullah Jan	Senior Lecturer	MS	Plant Biotechnology	NUST, Islamabad
24.	Mr. Iftikhar Ali Janjua	Principal Lecturer	MS	Finance	Riphah Int. Uni. Islamabad
25.	Mr. Faraz Ali Shah	Senior Lecturer	MS	Management Sciences	SZABIST, Islamabad
26.	Mr. Muhammad Aksar	Senior Lecturer	MS	Management Sciences Finance	Riphah Int. Uni. Islamabad
27.	Ms. Saddaf Adalat	Lecturer	MS	Finance	CUST, Islamabad
28.	Ms. Javeria Khalid	Lecturer	MS	Management Sciences	Riphah Int. University, Islamabad
29.	Ms. Asifa Kanwal	Associate Lect.	MS	Computer Science	CUST, Islamabad
30.	Ms. Farhana Tanveer	Lab Instructor	MS	Computer Science	CUST, Islamabad
31.	Ms. Nabia Fatima	Lab Instructor	BS	Software Engineering	CUST, Islamabad
32.	Mr. Muhammad Majid	Lab Instructor	BS	Software Engineering	CUST, Islamabad
33.	Mr. M. Abdullah Khan	Lab Instructor	BS	Computer Science	CUST, Islamabad
34.	Ms. Arusa Kanwal	Associate Lect.	MS	Information Security	NUST, Islamabad
35.	Ms. Sunduss Aamir Khan	Lab Instructor	BS	Software Engineering	CUST, Islamabad
36.	Syed Hamza Ali	Lab Instructor	BS	Computer Science	CUST, Islamabad
37.	Mr. Talha Ahmed	Associate Lect.	MS	Mechanical Engineering	CUST, Islamabad

List of Publications

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(This list includes only a part of total publications due to shortage of space)