

ANNUAL REPORT 2020-21



**COMSATS University
Islamabad**



Annual Report
2020-21



Rector's Message

CUI has maintained a strong global outlook in this year by appearing in the world top universities ranking

“While the Covid crisis has constrained the university to change its course, it has likewise sharpened our focus and enlightened what CUI can accomplish.”

The World has seen the years 2020-2021 emerge as times filled with challenges and difficult circumstances, owing to the onslaught, brought by the COVID-19 pandemic, upon global communities. In this pandemic, extraordinary challenges have also confronted the Higher Education sector across the globe. CUI being no different; despite the severity of circumstances, has reassembled, with grit and determination, to advance the university's mission. CUI immediately adapted and responded on a number of fronts by ensuring the safety of students at their homes and shifting towards an online mode of teaching and learning, complying with the Government of Pakistan and Higher Education Commission's (HEC) instructions in following the Standard Operating Procedures (SOPs), and at the same time implementing cost-saving measures for fiscal stability.

CUI, while upholding its mission of teaching and learning, research and discovery, public outreach, and contribution to the pandemic response, even in these extraordinary times, has strived to provide continuous support to its students, faculty and staff.

CUI is one of those universities, which has accomplished tremendous growth and development in its pursuit of providing quality education to its students, especially in the field of science and technology. Today, CUI is a fast-growing research-based university in Pakistan, offering a wide range of academic programs, ranging from basic sciences to cutting edge emerging technologies making it an ideal place for higher studies.

CUI has massively invested in learning technologies to support its faculty in developing creative formats for online coursework. CUI has also made potential investments in establishing inter-disciplinary research centers to develop products and processes indigenously for local industry and society for the socioeconomic development of Pakistan.

Apart from above, CUI has maintained a strong global outlook in this year by appearing in the world top universities in TIMES Higher Education (THE) World Universities Rankings 2021, 801-1000 in QS World Universities Rankings 2021, and has been ranked amongst the top 301-400 globally out of the universities working to improve the UN's Sustainable Development Goals in TIMES Higher Education (THE) University Impact Rankings 2021, and is also ranked 2nd in Pakistan.

Overall, this year is yet another successful year for the University. CUI has been persistent in providing transformative education and contributing significantly towards the socio-economic development of the country.

I would like to express my gratitude to our community of students, faculty, staff, and alumni for their continuous support for CUI during these unprecedented times. I feel proud of what CUI has accomplished and am highly optimistic in our collective abilities to make successful commitments, both at this time of extraordinary need, and in the years to come.



Prof. Dr. Muhammad T. Afzal
Rector



Executive Summary:

COMSATS Institute of Information Technology (CIIT) was established in 1998 as a Center of Excellence of Commission on Science and Technology for Sustainable Development in the South (COMSATS) with a vision to revolutionize the higher education paradigm. In 2000, CIIT was awarded the charter of Degree Awarding Institute and in April 2018, CIIT was upgraded to COMSATS University Islamabad (CUI) i.e. to a university status. The CUI has completed its 20 years. The University has been continuously improving and the year 2020-21 is no exception.

This Annual report starts with an overview of the University, highlighting some important facts like mission, vision, and its governance structure. The First Chapter befittingly covers the academic activities describing the variety of programs being offered at CUI. During the reporting period, 03 new programs in the emerging fields have been started in Islamabad Campus, namely BS in Artificial Intelligence, BS in Data Science and BS in Cyber Security. In addition, BS in English has been launched at CUI Abbottabad Campus. Moreover, 02 graduate programs of PhD in Civil Engineering and PhD in Mechanical Engineering have been launched at CUI Wah Campus. The first Chapter also highlights the position of CUI in World's Premier Rankings like TIMES Higher Education (THE) and Quacquarelli Symonds (QS). Chapter also details about Foreign Academic and Institutional Linkages established by CUI by further improving its Internationalization efforts during the reporting period. CUI established 03 international collaborations besides 27 active international collaborations. It is worth mentioning here that CUI has produced more than 82000 graduates and 501 + PhD's so far.

Chapter Two elaborates the Research and Development activities such as projects, grants, publications, conferences, seminars, and workshops. During the reporting period, 106 research projects were completed and 11 new research projects were approved. The details of the events held during the reporting period are also incorporated in this chapter. Few of the major workshops/seminars/symposia include Frontiers of Information Technology (FIT), Symposium on Biomedical Materials, International Conference on Drug Development, and Global Forum on Islamic Finance. The chapter also provides information about the research collaborations and activities. The research publications during the reporting period reached a figure of 3,473 making a total research output of 17,000 publications. So far, 90 patents have been registered out of which 30 (22 US, 08 Pakistan) are granted, while applications for 6 new patents were filed during this period (02 US and 4 Pakistan)

The Third Chapter is about Quality Assurance and significant steps have been taken in ensuring quality of teaching and research in the Institute. CUI understands the importance of competent faculty and to provide them with opportunities for growth and development. Chapter Four describes the faculty development at CUI which is the largest faculty development program among the universities/institutions of higher education in the country. The faculty members stand at a figure of 2,376 during the reporting period including 1,137 PhD's. Until August 31, 2021, more than 450 scholars have returned and rejoined CUI after completing their higher studies abroad. Faculty



Development Academy (FDA) of the Institute has continued to provide pre-service and in-service trainings to cater the training needs of the faculty. Foreign faculty is also hired in order to provide diversity among the faculty.

Chapter Five enlists the basic facts about the students like enrollment, equity, and faculty-student ratio, etc. The student enrollment as of August 31, 2021 (Spring 2021) is 34,216. The highest enrollment was observed in the Faculty of Information Science and Technology with 11,478 students. The Islamabad Campus led with 10,403 students (30%) in 2020-2021 intake, which is the highest, followed by Lahore with 7,723 students (20%).

The next chapter, Universities Building Economies, contains the information on linkages established with the industry and the activities of Business Incubation Center and Cubator1 in promoting entrepreneurship. The University understands and realizes its duty of providing students with all possible help and guidance during their stay at CUI. For the promotion of student's entrepreneurship, a Student Startup Business Centre has been established at CUI. In order to help students in their career development, CUI has also established internship and placement offices at its campuses which are responsible for career counseling of the students. Different workshops/seminars are organized by these offices to make students aware of the challenges they may face in their careers.

Chapter Seven and Eight highlight strengthening of Physical and Technological infrastructure development projects like student service center Islamabad Campus, establishment of 300 KW solar power plant at CUI Sahiwal campus, details of research equipment, digital library and PERN services that include high speed internet, video conferencing rooms and CCTV surveillance at various CUI campuses. By the end of FY 2020-21, CUI has completed 49 Development Projects, while 03 projects are on-going. CUI Library provides access to more than 32,000 high quality journals/articles/databases through HEC's Digital Library Programme. Chapter Nine provides information about the public service activities carried out by CUI as tree plantation drive was organized by CUI campuses in collaboration with the Forest Department on March 10, 2021 under the Go Green Initiative.

Besides teaching and learning, sports and co-curricular activities are very helpful in developing strong personalities and instilling various traits. The events held/participated in this regard during the reporting period are elaborated in Chapter Ten and Eleven. The next chapter provides financial information while Chapter Thirteen covers the paradigm of University Governance. Chapter Fourteen highlights Student Financial Aid Offices at campuses. The report in hand ends with Chapter Fifteen which provides generic details about medical/health facilities available at campuses of CUI, and counseling services being provided for stress reduction. The report concludes with relevant annexure supplementing the information contained in the report.



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Profile of COMSATS University Islamabad

COMSATS University Islamabad (CUI)

CUI is a multi-campus Institute offering various degree programs in the fields of Science, Engineering, Technology, Architecture, Design, Business, etc. Currently there are seven campuses of CUI in Islamabad, Abbottabad, Wah, Lahore, Attock, Sahiwal, Vehari, and a Virtual Campus offering distance learning programs.

CUI Vision

The CUI envisions assuming a truly national character for itself in the years to come. It envisions having presence in all provinces of the country. It sees for itself a position among top 100 universities in the developing countries and top 500 universities in the world in 5, and 10 years' time respectively. Focus in the period 2005-10 was on science led engineering, while in the period 2010-15 on initiating social sciences programs. During 2015-20, the focus will be on establishing programs in medical and agricultural sciences. In addition, preparation on the CUI Vision 2035 is under process. By 2030, CUI envisions to have its presence among the top 50 universities in Asia.

Mission

The COMSATS University Islamabad founded in the belief that understanding enriches all people, is dedicated to the search for truth through advancement of learning and extending the frontiers of knowledge; to the sharing of this knowledge through education in an academically diverse range of disciplines and subjects; and to the application of this knowledge to benefit the people of Pakistan, in particular, and the Muslim Ummah, and the world, at

large.

The University's mission is threefold:

Teaching and Learning

Share the knowledge, understanding and creativity by providing a broad range of educational programs in a diverse community of learners and teachers, and prepare graduate, professional, and undergraduate students, as well as non-degree seeking students interested in continuing education as lifelong learning, and for assuming active roles in competitive and culturally diverse environs.

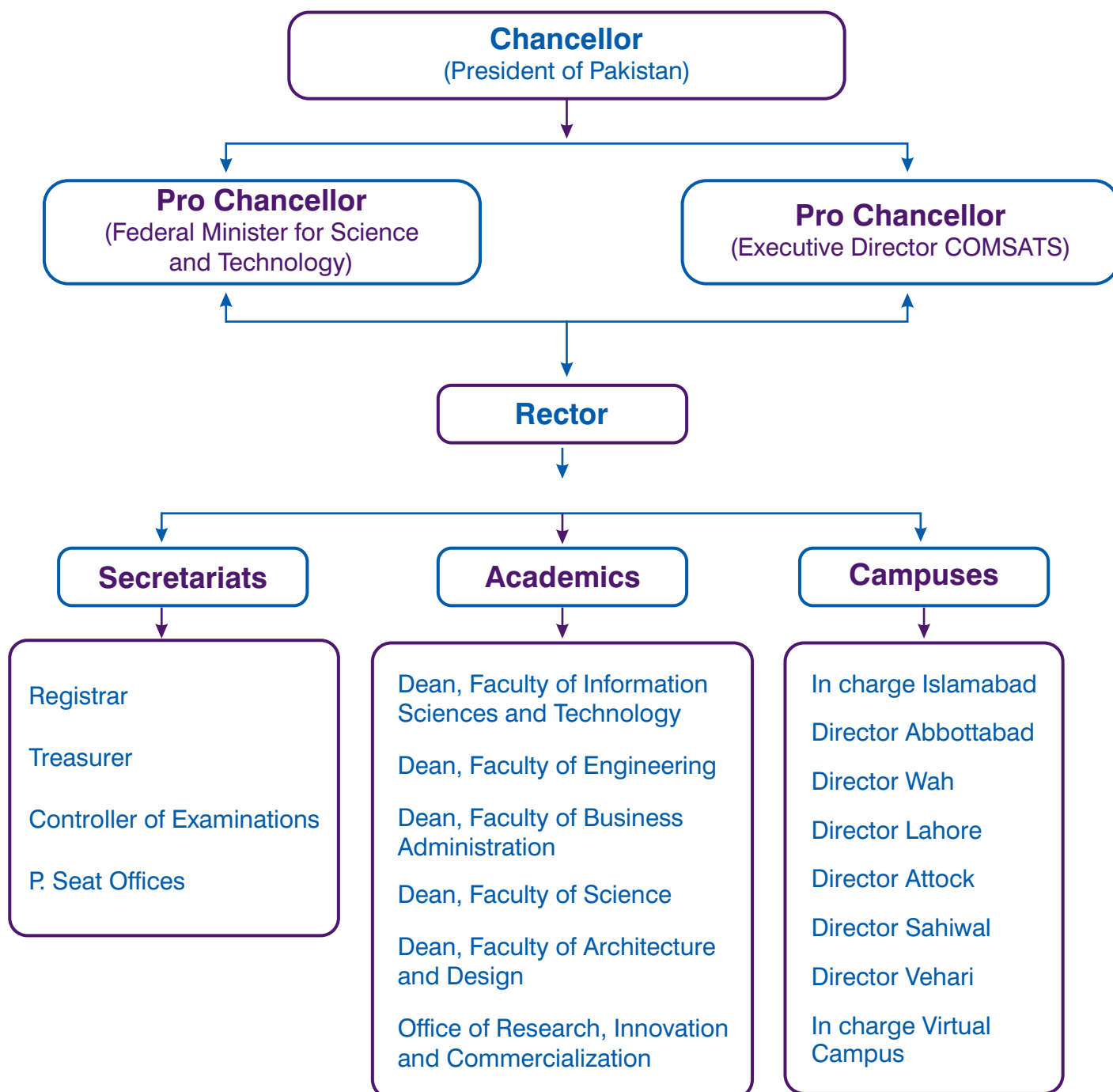
Research and Discovery

Generate and preserve knowledge, understanding, and creativity by triggering enquiry, conducting high-quality research, and promoting scholarship that benefits students, scholars, and communities across the country, the Muslim Ummah, and the world, at large.

Outreach and Public Service

Extend, apply and exchange knowledge between the Institute and society by applying scholarly expertise to intellectual, social and technological problems, by helping organizations and individuals respond to their changing environments and by making the knowledge and resources created and preserved at the Institute accessible to the citizens. Using the resources of its multiple campuses in an integrated fashion, the Institute vies to strengthen the services to the state through the education of a modern workforce, research and development, technology commercialization, and promoting partnerships with businesses, government and community groups.

Organizational Administrative Structure of CUI





Faculties, Departments and Research Centers

06 faculties, 22 departments, and 08 research centers were functional at CUI during the reporting period which are listed below:

Faculty	Departments/Research Centers
Faculty of Information Sciences and Technology	Department of Computer Science Department of Health Informatics
Faculty of Business Administration	Department of Management Sciences <ul style="list-style-type: none"> • Business Incubation Center • Center for Policy Studies • China Study Center Department of Development Studies Department of Humanities Development of Economic
Faculty of Engineering	Department of Electrical and Computer Engineering <ul style="list-style-type: none"> • Center for Advanced Studies in Telecommunication Department of Chemical Engineering Department of Mechanical Engineering Department of Civil Engineering
Faculty of Science	Department of Mathematics Department of Statistics Department of Biosciences <ul style="list-style-type: none"> • Interdisciplinary Research Center in Biomedical Materials • Energy Research Center Department of Meteorology Department of Physics Department of Pharmacy Department of Earth Sciences Department of Biotechnology Department of Chemistry <ul style="list-style-type: none"> • Center for Advance Drug Research Department of Environmental Sciences <ul style="list-style-type: none"> • Center for Climate Research and Development
Faculty of Architecture and Design	Department of Architecture and Design Department of Art and Design
Faculty of Health Sciences	-Nil-

In addition, CUI proposed to establish a UNESCO Category-II Water Research Centre Hydrology of Headwater Catchments at CUI, Abbottabad Campus in 2015 with these objectives:

- a) To conduct research on freshwater resources



- b) Capacity building in water resources management
- c) Produce highly qualified manpower
- d) Build capacity of local institutions

Based on the above proposal, the feasibility study was conducted by UNESCO and approved by UNESCO General Conference in its 38th session, held in November 2015. A draft agreement was forwarded by UNESCO to CUI for further processing. The draft agreement proposed by UNESCO was considered, adapted and approved by the Cabinet of Pakistan in January 2020. The agreement is sent to UNESCO for their final concurrence.

CUI Senate as on August 31, 2021

President of Pakistan / Chancellor, CUI	Chairperson
Federal Minister for S & T / Pro-Chancellor-I, CUI Ministry of Science and Technology, Islamabad	Member (Ex-Officio)
Executive Director / Pro-Chancellor-II, CUI COMSATS Headquarters, Islamabad	Member (Ex-Officio)
Rector, COMSATS University Islamabad	Member (Ex-Officio)
Federal Secretary Ministry of Science and Technology, Islamabad	Member (Ex-Officio)
Federal Secretary, Ministry of Federal Education and Professional Training, Islamabad	Member (Ex-Officio)
Pro-Rector (to be nominated by Rector)	Member (Ex-Officio)

Four Persons from Society at Large

Mr. Bakhtiar Khan Chief Executive Officer, Delta Group, Karachi	Member
Mr. Wahaj us Siraj Chief Executive, Nayatel (Pvt.) Ltd., Islamabad	Member
Position Vacant	Member
Dr. Navaid ul Zafar Member of BoG, Hamdard University Karachi / Former Managing Director, Hamdard Laboratories (Waqf) Pakistan, Karachi	Member

Alumni of the University

Ms. Sonia Shamroz Director, Police Training School, Mansehra	Member
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Two Persons from Academic Community other than CUI

Dr. Najma Najam Advisor, Virtual University of Pakistan, Lahore	Member
Position Vacant	Member

Four University Teachers from CUI

Dr. Muhammad Mushtaq Khan Professor, Department of Humanities, CUI, Abbottabad Campus	Member
Dr. Moin ud din Ghauri Associate Professor, Department of Chemical Engineering CUI, Lahore Campus	Member
Dr. Rab Nawaz Assistant Professor, Department of Mathematics CUI, Islamabad Campus	Member
Position Vacant	Member

Chairman, Higher Education Commission

Chairman, Higher Education Commission, Islamabad	Member (Ex-Officio)
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Two Parliamentarians

Position Vacant	Member
Ms. Andleeb Abbas, MNA Federal Parliamentary Secretary for Foreign Affairs Constitution Avenue, Islamabad	Member


Dr. Sajjad A. Madani Registrar, CUI	Secretary
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Annexure A: List of Active International Collaborations during 2020-21

There were 27 active international collaborations which are as under:

S#	Name of Institution
1.	Belarusian State University, Belarus
2.	Belarusian State University of Informatics and Radio Electronics, Belarus
3.	UNESCO
4.	TWAS, Italy
5.	University of Perpignan via Domitia, France
6.	Sejong University, South Korea
7.	Nanjing Institute of Geology and Paleontology, Chinese Academy of Sciences, China
8.	Middle East Technical University, Turkey
9.	Middle East Technical University, Turkey
10.	Huanghuali University, China
11.	Universided Federal De lavras, Brazil
12.	Interdisciplinary Center for scientific computing Heidelberg University Germany
13.	The Association of Commonwealth Universities (ACU), London
14.	Fujian Normal University China
15.	Erasmus+ Programme (Inter-institutional agreement 2018-2020 with University Cote d'Azur. France
16.	Shenzhen University, China
17.	Duzce University, Mevlana Exchange Protocol, Turkey
18.	South Central University for Nationalities, China
19.	Tianjin University of Science and Technology, China
20.	Tongji University, China
21.	Tianjin Institute of Industrial Biotechnology Chinese Academy of Sciences
22.	Guangzhou University, China
23.	The Abdus Salam International Centre for Theoretical Physics (ICTP), Italy
24.	International Joint Laboratory, Huanghuali University China
25.	Industrial Technology Institute, Sri Lanka
26.	Technological University Tajikistan, Tajikistan
27.	Harbin Engineering University, China



Chapter 01: Academic Activities

Programs Offered

CUI continues to introduce new programs in various fields to keep abreast of the changing trends in higher education. During 2020-21, the following 101 programs are offered, including 44 undergraduate and 57 graduate programs.

Undergraduate Programs:

Bachelor of Science in:

Accounting & Finance, Artificial Intelligence, Bioinformatics, Biosciences, Biotechnology, Business Administration, Chemical Engineering, Civil Engineering, Computer Engineering, Computer Science, Cyber Security, Data Science, Development Studies, Economics, Electrical (Electronics) Engineering, Electrical Engineering, Electrical (Power) Engineering, Electrical (Telecommunication) Engineering, Electronics, English, Environmental Sciences, Food Science and Nutrition, Geophysics, Geology, Mathematics, Mechanical Engineering, Media and Communication, Physics, Psychology, Software Engineering, Statistics, Telecommunication & Networking

Doctor of:

Pharmacy

Bachelor of:

Architecture, Business Studies, Design, Fine Arts, Interior Design

Master of:

Computer Science, Development Studies, Economics, English, Mathematics, Public Administration

Graduate Programs

Master of:

Business Administration

Master of Science in:

Banking and Finance, Biochemistry and Molecular

Biology, Bioinformatics, Biotechnology, Biosciences, Chemistry, Chemical Engineering, Civil Engineering, Computer Science, Computer Engineering, Conflict, Peace and Development, Cyber security, Developmental Biology, Development Studies, Earth Sciences (Applied Geology/Applied Geophysics), Economics, Electrical Engineering, Energy and Environmental Engineering, English (Linguistic & Literature), Environmental Sciences, Health Informatics, Information Security, International Relations, Management Sciences, Mathematics, Mechanical Engineering, Meteorology, Microbiology and Immunology, Molecular Genetics, Molecular Virology, Pharmacy, Physics, Project Management, Remote Sensing and Geographic Information System, Software Engineering, Statistics.

PhD in:

Biochemistry and Molecular Biology, Biosciences, Biotechnology, Computer Science, Chemistry, Chemical Engineering, Computer Engineering, Developmental Biology, Development Studies, Electrical Engineering, Environmental Sciences, Mathematics, Management Sciences, Meteorology, Microbiology and Immunology, Molecular Genetics, Molecular Virology, Pharmacy, Physics, Statistics,





Academic Achievements

CUI Ranked among Top 800 World Best Universities

In TIMES Higher Education (THE) World Universities Rankings 2021, CUI was ranked among 601-800 world best universities in 2021 and ranked 3rd in Pakistan. Besides, it was also ranked at:

- #301-400 in THE Engineering & Technology
- #401-500 in Computer Science,
- #301-400 in Business & Economics
- #401-500 in Life Science
- #501-600 in Physical Sciences subject rankings 2021

CUI was also ranked at:

- #171 in THE Asian University Rankings 2021,
- #159 in THE Emerging Economies Rankings 2020, and 195th in 2021.

In addition, CUI was ranked among

- #1001-1200 in QS World University Rankings 2021
- #146th in Asia for 2021.

THE University Impact Rankings 2021

CUI is ranked amongst top 301-400 globally in TIMES Higher Education (THE) University Impact Rankings 2021 and also ranked 2nd in Pakistan.

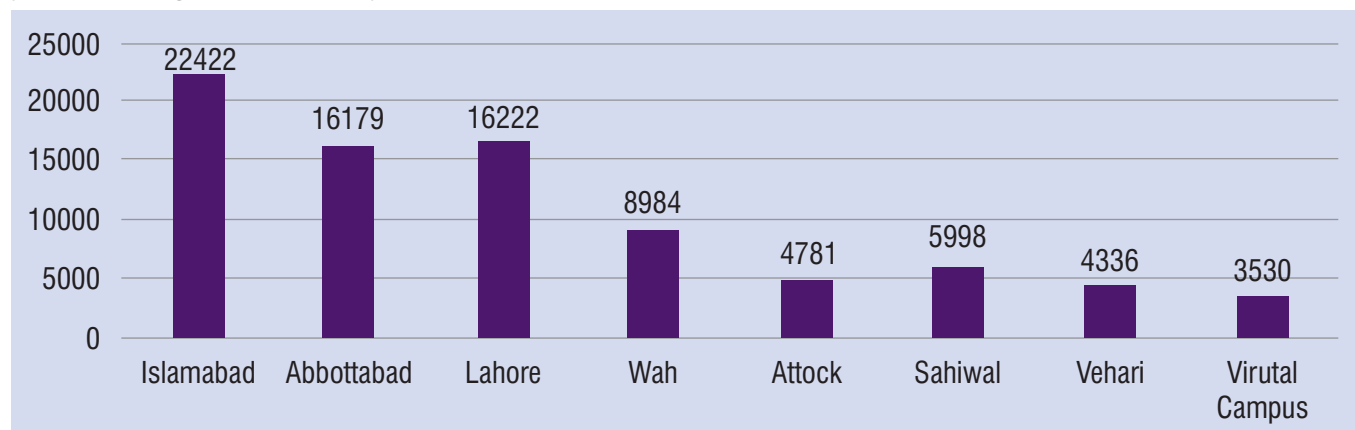
Moreover, it was ranked in 16 SDG's out of 17. These are given as under:

- SDG 1 No Poverty 101-200
- SDG 3 Good Health and Wellbeing 601-800
- SDG 4 Quality Education 601-800
- SDG 5 Gender Equality 601+
- SDG 6 Clean Water and Sanitation 201-300
- SDG 7 Affordable and Clean Energy 101-200
- SDG 8 Decent Work and Economic Growth 101-200 (ranked # 1 in Pakistan)
- SDG 9 Industry, Innovation and Infrastructure 401-600
- SDG 10 Reduced Inequalities 401-600
- SDG 11 Sustainable Cities and Communities 401-600
- SDG 12 Responsible Consumption and Production 301-400
- SDG 13 Climate Action 101-200
- SDG 14 Life Below Water 201-300
- SDG 15 Life on Land 101-200 (ranked # 1 in Pakistan)
- SDG 16 Peace, Justice and Strong Institutions 401-600
- SDG 17 Partnerships for goals 401-600



Number of graduates and PhD produced

Till August 31, 2021, CUI has produced more than 82,000 graduates and 501+ PhDs. During the reporting period, 8451 graduates were produced besides 83 PhDs.



Launching of Programs at CUI Campuses

The following programs have been launched by CUI in respective campuses:

Campus	Degree Program (s)
Islamabad	BS Artificial Intelligence, BS Data Science, BS Cyber Security
Abbottabad	BS English
Wah	PhD Civil Engineering, PhD Mechanical Engineering

Establishment of Synthesis and Characterization Laboratories

The Department of Chemistry, Islamabad Campus established 3 new Research Laboratories in the year 2020-21.

- Synthesis Lab 1
- Synthesis Lab 2
- Characterization Lab

Establishment of Graduate, Project and Renewable Energy Laboratories

Following the state of the art Labs were established in the Department of Mechanical Engineering, CUI Wah Campus:

- Graduate Lab
- Project Lab

- Renewable Energy Lab

Establishment of Graduate Research Lab

Establishment of graduate research lab equipped with 25 latest systems at CUI Vehari Campus, with capacity of 40 students. Honorable Rector CUI Prof. Dr. Muhammad T. Afzal inaugurated the Lab.

Establishment of new Computer Lab

A new Computer lab was established by the Department of Civil Engineering at CUI, Abbottabad campus, with total 15 (Core i5 & i7) computers, The Chairman, Department of Civil Engineering, Dr. Tahir Ali Akbar played key role in Lab establishment.

Award of Laptops

18 students with special abilities are awarded Latest laptops during 2020-21 under the Prime Minister's Scheme.



International Academic Linkages

Establishing International academic linkages has gained paramount significance over the years. The International Office promotes collaboration and partnership with foreign as well as local institutions of higher learning, corporate bodies and other relevant organizations with the aim to establish sustainable collaborations for joint research that generates synergies and provides solutions to world's problems.

During 2020-21, CUI established international collaborations with the following:

S#	Name of Institution
1	Industrial Technology Institute, Sri Lanka
2	Technological University Tajikistan, Tajikistan
3	Harbin Engineering University, China

In addition to the above, 27 active international linkages collaborations were continued with reputed Universities/institutions. Details are placed at Annexure (A).

Institutional Linkages

Meeting with Ms. Aurelie Seguin, Attaché for Sciences and Higher Education, French Embassy Islamabad

An online meeting between Ms. Aurelie Seguin, newly appointed Attaché for sciences and higher education, French Embassy Islamabad and Head, International Office, CUI was held on November 30, 2020. Future avenues of cooperation and opportunities between CUI and the French Embassy were discussed for implementation.

Cultural and Cooperation Department, Embassy of France in Pakistan

To further bolster CUI's linkages with France, an online meeting was held on February 22, 2021 between Ms. Sonia Sorre, Education Project Manager, Cultural and Cooperation Department,

Embassy of France in Pakistan and officials from CUI including Mr. Ali Tawab, Head IO and Dr. Faseeh Ahmed, HoD Humanities. In a brief presentation, that focused on current engagements of CUI with French universities, namely EPF, EESIE, University of Nice, Sophia Antipolis, University of Cote d'Azur and Paris Sorbonne and Chamber of Commerce in Paris. Head IO also apprised Ms. Sorre regarding the regular features of the active collaborations, like the "Studying in France" and "How to write a Research Proposal" workshops. He also informed about the French Information Center at CUI. Ms. Sonia Sorre expressed her receptiveness regarding strengthening collaboration by offering French courses at CUI. She also welcomed the idea of establishing a French Corner in CUI's library and committed to play an active role in its completion. It was also decided that the International Office CUI will contact the directors of both Alliance française in Lahore and Islamabad giving a concrete shape to the concept of teaching French language at CUI.



4th Edition of Higher Education & Research Online Meetings of Franco-Pakistani Institutions

The Embassy of France in Pakistan organized online collaborative meetings of the 4th Edition of Higher Education & Research Meetings of the Franco-Pakistani Institutions from March 08~11, 2021, with an aim to put French and Pakistani higher education institutions in contact for bilateral exchanges and institutionalizing partnerships. 27 Pakistani and 18

French universities participated in the event.

In their opening address, the Ambassador of France in Pakistan H.E Mr. Marc Baréty and the Executive Director, Higher Education Commission Pakistan, Dr. Shaista Sohail expressed strong will to strengthen academic and research cooperation between the two countries. Thematic webinars on various fields of study were delivered by French universities. Representatives of participating Pakistani universities gave brief overview of their universities. Ms. Samira Shah from International Office of CUI gave an introductory presentation about CUI.

Research Collaboration between Centre for Climate Research and Development (CCRD) and Tianjin Institute of Industrial Biotechnology (TIB), Chinese Academy of Sciences (CAS)

This year marks the 75th anniversary of the establishment of diplomatic relations between China and Pakistan. Chinese Government has undertaken a substantial step in promoting research collaboration under Belt and Road initiative fellowship. Under this initiative, inaugural meeting held on April 14th, 2021 among the renowned Chinese University, Tianjin Institute of Industrial Biotechnology (TIB) and COMSATS, for the establishment of Joint Center for Industrial Biotechnology in Tianjin, aiming to provide an open and shared industrial biotechnology collaborative platform with the objective of integrating various functions including:

- Joint R&D, Academic exchange, Personnel cultivating, S&T Consulting Service
- Tech transfer (bio-Tech) in COMSATS member states and the Belt and Road countries.

The inaugural meeting was attended by top Chinese and Pakistani leadership. Prof. Sun Jibin, the Deputy Director-General of TIB, Mr. Linhao Chen, Deputy Director-General, Department of International Cooperation, Ministry of Science and Technology, China, Mr. Weidong Wang, Deputy Mayor, Tianjin Municipal People's Government, and Prof. Yanhe Ma, Director-General TIB represented China, while

Mr. Chaudhry Fawad Hussain, Federal Minister for Science and Technology, Government of Pakistan, Dr. Arshad Mahmood, Executive Director COMSATS & Secretary MoST, Pakistan and Dr. Athar Hussain, Head of Department, Center for Climate Research and Development (CCRD), CUI represented Pakistan.



As a part of the research collaboration, Prof. Dr. Athar Hussain (CUI) and Prof Dr. Demao Li (TIB) will be leading a collaborative project entitled “Anaerobic bio treatment of organic waste for clean energy production”. The main objectives of the project are to design cost-effective anaerobic digestion (AD) reactor and optimize the AD process integration.

Ten young scholars from different countries including Pakistan were selected to work at TIB for 2-year joint research under the financial support of Tianjin SynBio Program amounting to 0.5 million CNY.

Meeting with Ms. Nadia Kamran, US Embassy Islamabad

A meeting between Ms. Nadia Kamran, US Embassy Islamabad and Head, International Office, CUI was held via Zoom on August 11, 2021, to discuss future avenues of cooperation and opportunities between CUI and US Embassy, Islamabad.



Visits of Foreign Delegations

- His Excellency, Mr. Shindo Yusuke, Deputy Chief of Mission, Embassy of Japan, Islamabad visited CUI on October 14, 2020 to deliver a talk on the Topic "Japan, Its People, Culture and Tradition."
- Ms. Wang Chunping, Chairperson, M/S Hero Boss Technology, China visited CUI on January 26, 2021 for meeting with Rector CUI and discussed on organizing joint activities in the field of education and research.
- Mr. Hali, Deputy Project Manager, China Gezhouba Group Corporation (CGGC) Dasu Hydropower Project Management, China visited CUI on March 03, 2021 for MoU signing

Honors and Awards

CUI is proud of all the people who have brought laurels and joyous moments to the University. Following members of CUI were bestowed upon with different honors/awards:

- Prof. Dr. Muhammad Abid, Director, CUI Wah Campus was conferred Tamgha-e-Imtiaz by the President of the Islamic Republic of Pakistan on the occasion of 75th Independence Day (August 14, 2021) for his contribution in the field of Mechanical Engineering.
- Rapid Research Grant (RRG) funded by HEC under the banner of HEDP of World Bank was won by Biosciences Department, Islamabad Campus. Out of all 170 Universities submission, only 10 research grants were approved for the stated RRG. The proposed research was successfully secured for funding under the title: "RRG-10 Development of RTLAMP Assay for Early Detection COVID-19"
- Duration: 12 months
- Approved: September 2020
- Fund Release: Feb, 2021
- PI: Dr Muhammad Faraz Arshad Malik
- Co-PI: Dr Farhan Haq

- Grant Amount: 7.0 Million
- A patent titled "Victim aware power control method and apparatus in wireless communication system" of Dr. Zeeshan Kaleem, Assistant Professor, Department of Electrical and Computer Engineering, CUI Wah Campus was approved on December 28, 2020.
- Dr. Abrar Faisal, Assistant Professor, Department of Chemical Engineering, CUI Lahore Campus visited Lulea University, Sweden for three weeks in April 2021 under HEC based Faculty Exchange Program.
- Dr. Muhammad Jawad Khan, Assistant Professor, Department of Biosciences, Islamabad campus has been awarded an opportunity regarding "Research Stays for University Academics and Scientists -2021" funded by DAAD for the year 2021. This visiting scientist opportunity will facilitate Dr. M. Jawad Khan to collaborate with University Medical Center, Georg-August University, Goettingen Germany. Scholarship Awardee to attend the virtual conference on "Diabetes: Many Faces of The Disease-EK18 eSymposia" funded by Keystone Symposia, USA.
- Dr. Sabir Ali Shehzad, Assistant Professor, Department of Mathematics, CUI Sahiwal Campus having 150 research publications in the last three years, is ranked among the top 2% world scientists according to Stanford University Ranking during the reporting period.
- Dr. Aneel Salman, Assistant Professor, Department of Economics, Islamabad Campus delivered lectures on Micro, Small and Medium Enterprises in Pakistan: Outlook for 2030 Global Agenda on June 28, 2021 Islamabad.
- Dr. Shahzad Kouser, Assistant Professor, Department of Economics, Islamabad Campus presented her research work titled "Unveiling Women Empowerment and its Determinants across Rural Areas of Pakistan" at the Research for Development Impact (RDI) Conference, University of Queensland on July 1-2, 2021. She

also obtained scholarship from RDI for attending the online conference and presenting her work. Besides, Dr. Shahzad Kouser, also attended DAAD alumni annual meeting, for purpose of networking and exploring collaborative opportunities with Germany.



Internationalization Efforts

In the ambit of CUI's internationalization agenda, we strive to collaborate with the International Universities to build students, faculty, and staff capacity. During the reporting year, the following efforts were made:

Building Internationalization in Pakistan (B-International): An Erasmus+ Capacity building project co-funded by EU

B-International, a three-year multilateral capacity building project co-funded by the European Union with a huge budget of GBP 649,246, marked its official launch in the year 2020 after long delays caused by the Covid-19 pandemic. The project is a transnational cooperation project based on multilateral partnership of four European universities and four Pakistani universities; Cardiff Metropolitan University (UK), Ecole Centrale de Nantes (France), University of Bologna (Italy), University of Salamanca (Spain), COMSATS University Islamabad (Pakistan), National University of Science and Technology

(Pakistan), Lahore University of Management Sciences (Pakistan) and Pakistan Institute of Fashion and Design (Pakistan). The British Council Pakistan is associate partner of the project.

It aims to build the capacity of Pakistani partner universities to engage internationally as well as to enhance the capacity of all universities in Pakistan. Focus is on six main work packages including benchmarking strategy and training, conducting training workshops for all staff, preparing an online learning program, cultivating international campuses, establishing centers for Internationalization and preparation of a toolkit.

Year 2020 kicked off several activities designed to launch the project and included a series of online meetings with all Pakistani and European partners, for carrying out the subsequent activities relating to the project.

Initially, a survey conducted at CUI and other Pakistani partners by surveying students, faculty and staff to assess the level of internationalization. Resultantly, a comprehensive online training module was developed and delivered by the University of Central Nante (France) to a four-member core group from each university, including CUI, on the vast topic of Internationalization and Strategy development. Later a comprehensive Internationalization Strategy document was prepared in coordination with University of Salamanca, Spain, based on the theoretical knowledge gathered from the online training.

- Simultaneously, the physical Center for Internationalization which will host all training and internationalization activities has been established in the Computer Science block of CUI Islamabad campus. Equipment like laptops, virtual reality goggles, smart-board etc. have been procured.
- Concurrently quality check on the progress of the project takes place regularly through meetings of the Quality Management Board. Projection and visibility of the project is accorded through a



dedicated B-International portal and social media channels, where blogs are regularly updated.

International Students

International students can be important resource at CUI, because their presence can create educational and cultural experiences for our campuses. Till August 31, 2021, 608 international students (including 200 students in “Zero” semester) were studying in different programs at CUI system.

In the academic year 2020-21, 317 international students from 8 different nationalities joined CUI in various undergraduate, graduate and postdoctoral programs. These students were from Afghanistan, Cameroon, Iran, Japan, Nigeria, Sudan, Sri Lanka and USA. These students are enrolled in Electrical Engineering, Mathematics, Meteorology, Management Sciences, Computer Science, Psychology, Pharmacy, Environmental Sciences and Bio-sciences departments.

Under the Pak-Sri Lanka Higher Education Cooperation Program of HEC, several Sri Lankan students will be offered scholarships for pursuing their undergraduate, postgraduate, and doctoral degree studies in various disciplines at CUI for the year 2021.

Similarly, several international students from Afghanistan are expected to join CUI in Fall 2021

under “Allama Muhammad Iqbal Scholarship program for Afghan nationals” under the umbrella of HEC. The scholarship program aims to promote an effective exchange of knowledge and better understanding of cultures and tradition between Sri Lankan, Afghan and Pakistani students.

Further, 02 ACU Scholars (Association of Commonwealth Universities) and 4 TWAS scholars (The World Academic of Sciences) joined CUI under Queen Elizabeth Scholarship Program and CUI-TWAS fellowships program respectively in Spring 2021.

Exchanges/Mobilities

Due to Covid-19 pandemic, international mobilities get suspended. However, after vaccinations confidence started building up as new mobility slots were offered by Middle East Technical University, Turkey for the coming Fall 2021 semester.

Simultaneously, as the trend started for online mobilities, the following officials of the International Office attended an online International Staff Week from June 21-25, 2021:

- i. Mr. Kashif Masood, Deputy Registrar
- ii. Mr. Arif Awan, Senior Program Officer
- iii. Mr. Ghazanfar Ali, Senior Administrative Assistant





Chapter 02:
Research and Development



An Overview

The Office of Research, Innovation and Commercialization (ORIC) was established in 2011 to link university research directly with the educational, social and economic priorities of CUI and its broader communities. The ORIC slogan is "Creating endless opportunities by transforming research into prosperity".

The ORIC at CUI operates with the following Terms of Reference:

- Enhancing research culture
- Promoting inter/cross-disciplinary research
- Building university-industry linkages
- Inculcating entrepreneurship among researchers
- Generating intellectual property through research, innovation and commercialization
- Establishing technology/innovation/business parks
- Catalyzing technology transfer through spin-off companies and licensing
- Augmenting capacity building of research/corporate community

During the past few years, the progress of ORIC is rapidly growing, especially in areas of Research Projects, Travel Grants, Patents, holding International Conferences and publication of Research Papers in national and international journals by CUI faculty. During the reporting period 2020-21, total of 106 research projects were completed and 11 were approved. 336 research projects were submitted to different funding agencies. 2 out of 4 Travel Grant applications were also approved during the same period.

Operations of Office of Research, Innovation and Commercialization (ORIC)

During the reporting period, ORIC carried out the following activities:



CUI Research Grant Program (CRGP)

The ORIC at CUI undertook diversification of CUI's research portfolio by identifying and submitting research proposals to multi-faceted national and international funding agencies. In order to engage young faculty into the research mainstream, a CUI Research Grant Program (CRGP) is in place to award grants up to Rs. 300,000/- for research proposals of 1~2 year's period. During 2020-21, about 120 research proposals were received, and evaluated by the reviewers for consideration by the authorized committee for decisions.

Research Projects

The research projects at CUI are carried out with the support of various funding agencies. The research projects/proposals approved, completed and in-process during the reporting period are as follows:

Approved Research Projects 2020-21

#	Funding Agency	No. Projects	Amounts (PKR Million)
1	Higher Education Commission Pakistan	4	55.66
2	Alliance of International Science Organization (ANSO)	1	24.0
3	Pakistan Science Foundation	2	2.99
4	National Agriculture Research Council	1	5.91
5	International Foundation for Science	1	2.21
6	NESCOM	1	0.23
7	Pakistan Academy of Sciences	1	0.75
	Total	11	91.75

Completed Research Projects 2020-21

#	Funding Agency	No. of Projects
1	Higher Education Commission Pakistan	99
2	CDKN Climate & Development Knowledge Network	1
3	NESCOM Research Grant	1
4	Pak US Joint Research Program	1
5	International Foundation for Science	1
6	Pakistan Science Foundation	3
	Total	106

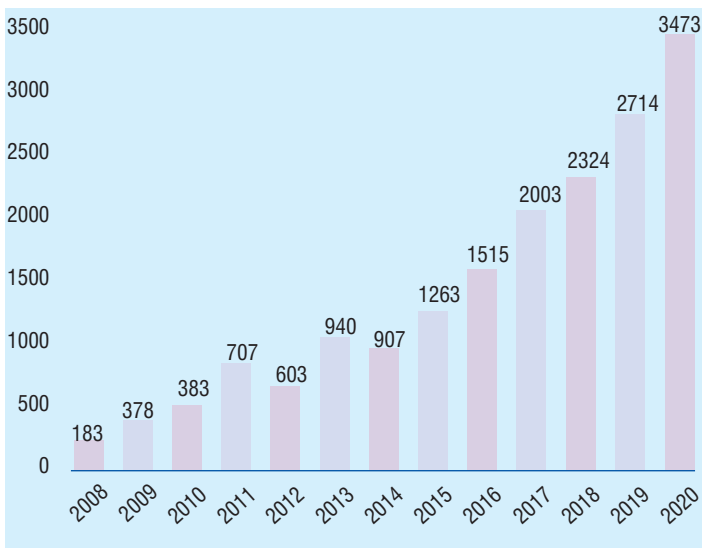
Completed Research Projects 2020-21

#	Funding Agency	No. of Projects
1	Higher Education Commission Pakistan	261
2	Pakistan Science Foundation	22
3	NESCOM Research Grant	1
4	Foreign Commonwealth & Development office	1
5	Pakistan Academy of Sciences	2
6	Department of International Development's UK	1
7	The Association of Commonwealth Climate Network 2020	2
8	Alliance of International Science Organization (ANSO)	1
	Total	291



Research Publications

CUI has witnessed a continuous rise in research publications since 2005. This speaks volumes of the magnitude of research being done by the faculty of the institute. Until December 2020, 17,000+ research papers have been published by CUI faculty, whereas during 2020 the number stands at 3473 (Data extracted from Web of Science in May 2021). A summary of the published research papers is provided below:



Intellectual Property Rights

Intellectual Property (IP) Rights is of paramount importance, thus CUI has developed in-house capacity to provide support to its researchers and for filing patents locally and internationally. As of August 31, 2021, CUI filed 90 patents for registration; out of which 30 (22 US, 08 Pak) are granted. CUI also provided training on understanding IP Rights and Patenting to researchers of various national universities. During 2020-21, four patents get approved (two in the US, and two in Pakistan), while applications were filed for six more patents during this period (two US and four Pakistan).

Inter Islamic Network on Information Technology (INIT)

The Inter Islamic Network on Information Technology (INIT or the Network interchangeably) is an

independent, autonomous and self-governing entity working under the auspices of COMSTECH. The government of Pakistan is its host country and CUI is the host institution. At CUI, the secretariat is located at Directorate P&D and HRD. With changes necessitated in its work/activity flow due to COVID-19, INIT managed to continue its national and international engagements.

During the FY2020-21, INIT conducted a virtual session with the WSIS Forum 2020 of the International Telecommunication Union (ITU). The topic was 'Changing Men's Attitudes towards Women and Technology: A TEQTogether Initiative'. The session was held in collaboration with UNESCO Chair in ICT4D, and discussed issues related to the Access to Information Technology and Enabling Environments.

The INIT was part of the organizing team of institutions in arranging ICT4D Non-Conference 2020 in collaboration with UNESCO Chair in ICT4D, United Nations University and the Youth Internet Governance Forum. The event was initially planned to be held at University of London at Royal Holloway but due to COVID-19 restrictions a virtual session was conducted.

In line with OIC STI Agenda 2026, INIT initiated a joint funding proposal with the Inter Islamic Network on Water Resources Development and Management (INWRDAM). INWRDAM is working to foster closer cooperation among the OIC states in the field of development and management of water resources. The joint proposal entitled 'Leading the Digital Transformation for Water, Energy, Food Nexus in OIC: Guidelines for Efficient ICT Use in States with Limited Resources' was submitted for funding to Islamic Development Bank through COMSTECH.

The INIT hosted meeting with the visiting Jordanian delegation of Inter Islamic Network on Water Resources Development and Management (INWRDAM). The two-member delegation comprised Dr. Marwan Alraggad and Mr. Jalal Al-Qaryouti, its Executive Director and Programs Manager, respectively, met the INIT team at INIT

Headquarters, Islamabad. The meeting between two entities discoursed the progress and prospects of the joint funding proposal.

The aims of the project are as follows:

- Investing the digital transformation during COVID19 crises to plan for the efficient ICT use for 2020-2030
- Achieving Agriculture Sustainability through digital technologies (GIS, AI, Big Data, and Apps)
- Defining tools to achieve policymaking that is based on accurate data
- WEF Nexus Capacity Building through regional consultations
- Virtual/ Physical Training and Workshops for the training of trainers on Food Security using international collaborations of INIT and INWRDAM
- During this period, INIT has also successfully completed its annual audit conducted by the Government of Pakistan.



Conferences, Seminars, and Workshops

Conferences, Seminars, and workshops are the primary source of gathering new information and to exchange ideas on the trends in research, upcoming technologies and much more. It is also a platform to network with people from various fields and benefit from their experience. CUI since its inception has

arranged numerous conferences, seminars, and workshops for the benefit of its faculty, students, staff, and community at large. The detail of the important ones held during the reporting period is given below:

Islamabad Campus

COVID-10 Spaces between us

In collaboration with COMSATS Art Gallery, the Department of Architecture and Design organized an exhibition titled, "COVID-19, Spaces between Us" on September 07, 2020.

CPS Pre-Budget Roundtable 2021-22

Centre for Policy Studies (CPS) organized a Pre-budget Roundtable 2021-22 on March 30, 2021, to evaluate the state of the economy and suggest policy direction recommendations for the federal budget 2021-22. The expert speakers from COMSATS University Islamabad included:

- Dr. IftikharulHusnain, Head, Department of Economics
- Dr. Imran Syed, Head CPS, Dr. Aneel Salman, Head, Faculty Development Academy
- Dr. Muhammad Zakariya, Associate Professor, Department of Economics
- Dr. Muhammad Irfan, Assistant Professor, Department of Economics

The Department of Computer Sciences organized an online seminar:

- Title: Cloud Computing and DevOps on April 10-11 2021
- Guest speaker: Mr. Bilal Aurangzeb, Technical Project Manager at AT Tech – London
- Title: Online Seminar on Extreme Commerce on April 30, 2021
- Guest Speaker: Mr. Atif Ahmed, Marketing Graduate USCI, Video Boot Camp (VBC) Training Lead at Extreme Commerce – Pakistan, covering areas:



- Value of Video Boot Camp (VBC) and future of skills-based learning
- Learning and Earning from these skills
- Global Opportunity in the Freelance Market
- How can students get Free VBC Access

Pakistan Council of Architects and Town Planners (PCATP) Accreditation visit.

5 Members accreditation team of Pakistan Council of Architects and Town Planners (PCATP) visited the Department of Architecture at Islamabad Campus on June 29, 2021 for revalidation of accreditation. A detailed presentation was given by HoD.

Thesis Show 2021

The Department of Architecture and Design, CUI, Islamabad Campus in collaboration with RAK Ceramics (Pvt.) Limited organized Thesis show 2021 on July 29, 2021 for final year thesis students of BS (Architecture). The worthy Rector, CUI graced the occasion.

Climate Change Workshop organized by Centre for Policy Studies

Workshop on Climate Change using the Climate Collage Game was held on August 10, 2021. Different environmental issues were discussed globally and locally. Participants proposed solutions to combat the effects of climate change. Recent extreme weather events and changes in the environment were linked to natural and anthropogenic activities. Ms. Rabbia Murtaza participated in workshop to represent CCRD

Webinar on Energy Efficiency and Cleaner Production Practice in Industry

The webinar was jointly hosted by COMSATS Headquarters, COMSATS Centre for Climate and Sustainability (CCCS) and Institute of Turkish Scientific and Technological Research Council (TUBITAK) on Energy Efficiency and Cleaner Production Practice in Industry. Dr. Farrukh Raza Amin, from Centre for Climate Research and

Development (CCRD) participated in the event.



Wah Campus

Webinar Organized by Department of Electrical and Computer Engineering

- Title: Dynamic Pipelines Management in Computing Systems using Evolutionary Techniques, Department of Electrical and Computer Engineering. Dated 22-Sep-2020
- Speaker: Dr. Rameez Naqvi, Assistant Professor
- Audience: Graduate students and faculty at Department of Electrical and Computer Engineering, Central Michigan University, MI, USA
- Title: Webinar on Lower Earth Orbit High throughput Satellites Mega-Constellations. Dated September 29, 2020.
- Speaker: Engr. Muhammad Furqan, Queensland University of Technology, Australia

Activities organized by the Department of Mathematics

- Webinar Title: Sensitivity Analysis for The Generalized Cholesky Block Datedating Problem. Dated October 8, 2020
- Speaker: Dr. Amir Farooq.
- Seminar Title: Efficient Monitoring of Process Dispersion Using Interquartile Range, on August 13, 2021.



Webinar Title: Importance of Mathematics in Intelligent Techniques

Dr. Muhammad Kamran, Associate Professor, Department of Mathematics, attended one day webinar on the 'Importance of Mathematics in Intelligent Techniques' held on August 13, 2021; organized by the Department of Mathematics, PSG Institute of Technology and Applied Research, Coimbatore, India.

Webinars Organized by Department of Computer Science

- Title: Career Opportunities in Database Administration. Dated October 14, 2020.
- Speaker: Mr. Abdul Aziz., ORACLE Database Administrator
- Title: Self-Driving Cars and Cyber Security, on November 4, 2020
- Speaker: Dr. Wazir Zada Khan, Jazan University, Saudi Arabia.

Discussion on self-driving cars, problems being faced in the technology, and security risks, both cyber and physical. The resource person focused on Vehicle Electric Control Unit (ECU) responsible for the correct operation of particular vehicle parts/modules.

- Title: How to be an Effective Team Player, on November 18, 2020
- Speaker: Mr. Omer Iqbal, Alumni, CUI Wah and Executive Director & Chief Operating Officer, Knowledge Platform.
- Title: Understanding Free Lancing and Getting Started, on November 22, 2020
- Speaker: Mr. Hamza Tariq, Entrepreneur, full stack developer, full time freelancer, expertise in Cloud DevOps.

Workshop organized by Department of Mechanical Engineering

- Title: Design Competition of AutoCAD Software, on February 23, 2021.

- Advisor, ASME CUI-Wah Chapter, Lecturer, Eng. Abuzar Jamil briefed the role of Engineering Societies.

Activities of UNESCO Chair on Knowledge Systems for Integrated Water Resources Management (IWRM), CUI Wah Campus, on February 25, 2021

- Workshop Title: PYTHON Programming Fundamentals
- The purpose was to engage young people with the aim to build capacity by strengthening young talent with the latest programming tools such as Python. In his opening remarks, the Chair Prof. Dr. Muhammad Abid briefed on the role, past and future activities of UNESCO Chair on Knowledge Systems for Integrated Water Resources Management (IWRM).
- Webinar Title: Introduction to R for Hydrology, on June 4, 2021
- The objective was to provide hands-on training to strengthen capacity building on rapidly emerging field/ topics like R Programming Language of Data Science.
- Webinar Title: Introduction to GIS and Remote Sensing on July 28, 2021.

International Workshop on Remote Health Monitoring for Elderly People, Maternal and Infant

CUI Wah Campus SAFE-Rural Health (RH) team participated in the International Workshop on 'Remote Health Monitoring for Elderly People, Maternal and Infant' organized under the umbrella of SAFE-RH at Capital University of Science and Technology, Islamabad, held on April 22, 2021. In the workshop speakers from different countries enlightened with their valuable talks covering various aspects of SAFE-RH project. Dr. Ehsan Ullah Munir, Associate Professor, Computer Science Department from CUI Wah Campus presented Maternal and Infant Health monitoring Pilot of SAFE-RH project in the workshop.



Webinar “Restore Our Earth”

The webinar “Restore Our Earth” was organized online on April 29, 2021 to highlight the importance of our motherland by taking initiatives of saving the atmosphere from increasing heat-trapping emissions in the air, fuel burning and industrial waste. The guest speaker, Dr. Hassan Abbas, presented his talk on the significance of water resources, earth system assessment, impacts of climate change and its vulnerabilities on natural and human environments, including ocean, sea-ice, land area, ice sheets and crustal rocks.



Lahore Campus

- Workshop Title: “Cognitive Behavior Therapy during COVID 19 Pandemic” on September 03, 2020 at the Department of Psychology, [Bahria University Islamabad](#).
- Speaker: Dr. Muneeba Shakeel (Assistant Professor of Psychology)
- Webinar Titled: The Needs and Challenges of Electrical Energy Storage by ERC on September 10, 2020
- Guest Speaker: Dr. Ahmed F Zobaa.
- Webinar Title: COVID 19 & Mental Health, on October 09, 2020.
- Speakers: Dr. Shameem Fatima, Incharge, Department of Humanities and Dr. Shazia Gulzar,

Lecturer Psychology

Activities of Department of Media Studies

- Webinar Title: Search Engine Optimization and the Online World, on October 16, 2020
- Guest Speaker: Mr. Haseeb Hashmi, Professional web developer, Search Engine Optimization (SEO) expert, and digital marketing enthusiast was invited.
- Summit on 'Building Bridges through Civic Engagement'
- The purpose was to enable students to connect with the International Universities for better communications skills and enhanced exposure.
- Global Communication Summit, October 23-24, 2020

Talk on “Environmental Pollution and Our Responsibilities in the Light of Islam”

Dr. Farooq Abdullah, Lecturer, Islamic Studies, delivered a talk on “Environmental Pollution and Our Responsibilities in the Light of Islam” On November 11, 2020.

Chief Organizer: Dr. Muhammad Ahmed Farooqui, Head of Academics and Research, CUI, Lahore Campus

Seminar on “How to avoid Plagiarism”

The Event Management Committee organized a seminar titled “How to avoid Plagiarism” on Wednesday November 11, 2020 attended by MS and PhD scholars.

Resource Person: Mr. Muhammad Ishtiaq Khan, Deputy Librarian, CUI, Lahore Campus.

Webinar on “Digital Marketing, Online Business & Freelancing”

The Event Management Committee organized a Webinar on “Digital Marketing, Online Business & Freelancing” on Friday November 20, 2020 for the Undergraduate students

Resource Persons: Ms. Dania & Mr. Kashif from DanKash Digital Marketing.

Webinar on Aesthetics of Poetry

The literary wing of MINT society organized a mesmerizing webinar on “Aesthetics of Poetry” with Dr. Shahida Dilawar Shah, Poet & Columnist, FC College Lahore on December 24, 2020.

Webinar on “How to Improve Quality of Education in Higher Education Institutions”

Dr. Abdus Sattar Abbasi, Head CIF, Lahore Campus moderated online webinar on December 29, 2020 titled “How to Improve Quality of Education in Higher Education Institutions,” organized by Think Pakistan, a Forum of Highly Qualified Pakistanis.

Keynote Speaker: Prof. Dr. Robina Farooq Shaukat, Vice Chancellor, Government College Women University Faisalabad.

Symposium on Advantage and Challenges of Wind Energy,

Energy Research Centre conducted an online symposium on “Advantage and Challenges of Wind Energy” on April 07, 2021. The talk was on Challenges of the impact of wind generation in the conventional generation system.

Webinar on “Gap between Academia and Corporate in the Context of HR Practices”

An online webinar was arranged by the Event Management Committee titled “Gap between Academia and Corporate in the Context of HR Practices” on May 1, 2021.

Resource Person: Mr. Naveed Shahzad, Human Resource Practitioner

Seminar on “Cryptography and RSA”

A seminar by Prof. Jon Schneider from Google U. S. A was conducted on "Cryptography and RSA" on Monday, July 12, 2021 at Department of Mathematics, CUI, Lahore Campus.

Seminar on "Recent Applications of Number Theory"

A seminar by Prof. Timothy Chu, Carnegie Mellon University, U.S.A, was conducted on "Recent Applications of Number Theory" on Friday July 16, 2021 at the Department of Mathematics, CUI, Lahore Campus.



Abbottabad Campus

Training under “Women Empowerment through Digital Skills” Phase-II

SSBC, Abbottabad Campus facilitated the Phase II of “Women Empowerment through Digital Skills” in collaboration with Durshal Abbottabad (A KP-ITB initiative) on December 14, 2020. The training courses included: Social Media Marketing, Graphic Designing, WordPress Design and Development, Blogging and Content Writing, Digital Tools for Productivity

International Webinar on “Air pollution, Climate Change and their Impacts on Mountainous Water Resources”, on January 26, 2021.

Chief Organizers: Dr. Romana Khan, Dr. Adnan Ahmad Tahir, Dr. Usman Irshad, and Dr. Malik Tahir Hayat from the Department of Environmental Sciences. More than 500 researchers and students registered for this webinar from 12 countries.



Virtual Training Session on “Islamic Banking Operations/ Islamic Banking Branch Operations”

Student Startup Business Center (SSBC) and the Department of Management Sciences jointly organized a virtual training session on “Islamic Banking Operations/Islamic Banking Branch Operations”. The training was conducted by NIBAF and sponsored by SBP. A total of 20 students/faculty of the Department of Management Sciences attended.

One week “HUAWEI ICT Academy Instructor Training”

One week of “HUAWEI ICT Academy Instructor Training” was held from August 9-13, 2021. The event was organized by Computer Science department, in collaboration with HUAWEI, UET-KICS Lahore. Under this program HUAWEI trained the trainers of selected universities and provide training of Routing and Switching and Network security at associated level. HUAWEI also free-of-cost vouchers to selected university students to become certified in HUAWEI Technologies. After successful completion, HUAWEI further expanded its certification program to AI, Big Data, Cloud Computing, Network Storage and 5 G technologies. Faculty members from the Abbottabad campus attended the training.

Awareness Seminar on Right to Information (RTI) and Right to Services (RTS)

The Department of Development Studies conducted a one-day awareness and advocacy seminar in collaboration with the Institute of Management Sciences, Peshawar and the German development agency GIZ on Right to Information and Right to Services as part of the RTI and RTS Champions Program on August 16, 2021. Students from the Department of Development Studies and female faculty and staff from various departments, attended the seminar.

Sahiwal Campus

International Webinar on “The role of Genomics and Biotechnology in COVID-19”

Bioscience Department organized the webinar on December 16, 2020. The opening Ceremony was held with more than 150 participants from across the globe such as from China, Bangladesh, Turkey, India, Japan and Pakistan.

Chief Guest: Rector COMSATS University Islamabad, Prof. Dr. Muhammad T. Afzal

Seminar on “HEC Grand Challenge Fund”

During the reporting period, Dr. M. Ibrahim, HoD Biosciences department, conducted a seminar on HEC Grand Challenge Fund. The theme of the seminar was to brief the stakeholders about proposal development for obtaining a funded project.

Writing Business Plan for the Research Proposal by RFP Office

Primary objective: To extend support in research areas and get the faculty acquainted with the necessary skills to win the funded projects



Vehari Campus

Seminar on Evaluating the Potential of Zero Energy Cool Chamber for Horticultural Crops

The Department of Environmental Sciences organized a national level seminar titled “Evaluating the Potential of Zero Energy Cool Chamber for Horticultural Crops” at CUI-Vehari Campus on March 11, 2021. The seminar convened more than 70 fruit and vegetable growers, agricultural researchers, local technical officers and faculty members from the various universities. Pakistan Science Foundation funded this seminar under natural science linkages program.

Workshop on “Capacity Building”


One-day Workshop on “Soft Skills Development” was organized by the Career Development Cell,

Department of Management Sciences, on June 16, 2021. The seminar's main objective was to familiarize participating students with the emerging ideas and trends on developing personality and career to fulfill the ever-changing requirement of the corporate sector and academia.

Seminar on “Modern Technologies and Eye Care Awareness”

Health Awareness Committee organized a seminar on “Modern Technologies & Eye Care” on June 17, 2021. The talks were mainly focused on how the different parts of the eye can be protected with common and simple techniques during studies and especially during the use of electronic equipment including computers, mobiles and screens.





Chapter 03: Quality Assurance



Quality Enhancement Cell (QEC)

Quality Assurance Agency (QAA) of Higher Education Commission (HEC) is a policy making and monitoring body for maintenance and enhancement of quality in higher education. It is involved in systematic implementation of quality enhancement procedures/criteria to attain improved levels of international compatibility and competitiveness at institutional and program level.

CUI's leadership is keenly committed for the enhancement of quality standardization and has assigned top priority in making CUI a top-class university in the world's horizon. CUI is committed to serve the nation with the aim of satisfaction and to maintain internationally standardized higher education's academic and research pursuits in the CUI system. For achieving this task all stakeholders have contributed through academic and research excellence, in order to meet the national and international educational standardization and quality assurance in academic programs as per QAA HEC's guidelines. The Quality Enhancement Cell (QEC) of CUI has played a pivotal role to pursue for achieving the high standards and quality assurance pre-requisites.

Through the establishment of QEC in 2006, CUI management has realized that quality is an integral component in higher education and research. Since then, it has taken bold initiatives, as a strategic imperative, to attain, manage and enhance quality at the institutional level in all cadres of the Institute's management, including academics and administration. For making CUI a quality-centric institution, the QEC has undertaken various quality assurances based assignments and achieved highest "W" category at the national level from HEC in Yearly Progress Report (YPR) continuously from the last 10 years (2012 to 2021) and amicably cultivated the quality culture at all levels in CUI system.

Impact of Quality Assurance in the University

Quality Assurance and Assessment Process (QAAP)

The Self-Assessment process at the institutional level involves the Assessment Team, QEC and the concerned department whose academic program has to be evaluated and reviewed.

During the year 2020-21, HEC had given the target of completing the second assessment cycle of 25 % programs across all campuses. QEC evaluated and assessed 28 academic programs of Islamabad and Abbottabad campus and achieved the HEC target by June 2021. Previously, QEC evaluated all 195 academic programs offered at all campuses and successfully achieved the HEC target of completing 100% programs assessment at CUI.

Self- Institutional Performance Evaluation (IPE) of CUI by QEC

The QEC is taking necessary measures and initiatives for promoting and enhancing "Quality Culture" at all of its campuses.

- For the year 2018 and onward, Higher Education Commission (HEC) has revised its criteria for the performance evaluation and ranking of all national HEIs. HEC has started with primary step of outlining the Performance Evaluation Standards (PES) for the HEIs and resultantly the Institutional Performance Evaluation (IPE) of the universities has become a regular feature of evaluation for administrative as well as academic system of the HEIs.
- Universities have to conduct the Self Institutional Performance Evaluation (Self IPE) of their system. In this regard a campus-based University Portfolio Report (UPR) has been prepared by each campus on eleven standards covering the elements:
- Mission and Goals, Planning and Evaluation, Organization and Governance, Integrity, Faculty, Students, Institutional Resources, Academic Programs and Curricula, Public Disclosure and Transparency, Assessment & Quality Assurance



and Student Support Services.

- The purpose of this exercise is to address the challenges, such as, faculty development, improving access and excellence in learning and research with relevance to national priorities.
- The practice of data collection from all campuses of CUI and then its submission to HEC is an annual activity. In 2020-2021 QEC conducted Self-IPE exercise in all campuses and completed the target for the reporting period.

MS and PhD Programs Review

As per the revised criteria of QECs evaluation, the Self- MS/MPhil & PhD Programs Review has become a regular exercise and conducted on annual basis. The purpose of program review is to improve quality of graduate level programs in the HEIs by strengthening established programs and eliminating or upgrading those which fail to meet acceptable standards. For the year 2020-2021, the review of 100 percent of MS and PhD programs across all campuses was accomplished and the review reports were submitted to HEC. The detail of programs is as below:-

#	Campus	No. of MS Programs	No. of PhD Programs
1.	Abbottabad	15	8
2.	Attock	5	0
3.	Islamabad	23	12
4.	Lahore	13	8
5.	Sahiwal	4	0
6.	Vehari	4	0
7.	Wah	9	3
	Total	73	31



Inspection Visit of COMSATS University Islamabad

The In charge QEC participated as member of the Committee constituted by CUI to conduct the HEC Audit, Accreditation / Inspection Visit of CUI on February 16, 2021. Following were members of the Accreditation Committee of HEC:

1. Prof. Dr. Muhammad Inayatullah Khan Babar,
Vice Chancellor, University of Engineering & Technology (JET), Taxila
2. Prof. Dr. Naukhez Sarwar,
Dean & Principal-NUST Business School, NUST, Islamabad
3. Prof. Dr. Azra Yasmin,
Chairperson-Biotechnology Department, Fatima Jinnah University, Rawalpindi
4. Prof. Dr. Muhammad Ramzan,
Department of Computer Science, Bahria University, Islamabad
5. Representatives of Accreditation Section, HEC, Islamabad

Management of CUI made a detailed presentation to the Accreditation Committee on University infrastructure, facilities, and administrative departments besides addressing the various queries of the Accreditation Committee. The Committee also visited Academic Departments and Library of CUI

Islamabad Campus and resultantly CUI has been granted NOC as a Degree Awarding University and Upgraded from Institute to university by HEC.

Training Session on “Important Guidelines for Writing the Self-Assessment Report (SAR)”

QEC team has successfully conducted a training session on “Important Guidelines for Writing the Self-Assessment Report (SAR)” for all the nominated program Team members (Faculty Members) by their respective departmental heads held on Tuesday February 9, 2021.

Higher Education System (HES) Ranking Data

In September-October 2020, QEC successfully collected and consolidated the higher education data of all campuses and submitted to Statistical Unit of Higher Education Commission. This information is required by HEC for National University Rankings and budget allocations for the Universities.

Participation in Intercontinental QAA Meetings, Training Workshops, Symposium, Conferences and Seminars

During 2020, despite COVID-19 situation, QEC officials participated in national and international events related to Quality Assurance and Enhancement. These activities played a vital role in obtaining QEC highest “W” Category and recognition at both national and international levels.



Participation in International Events

- The QEC officials participated in an International Webinar on World Quality Day "From Conventional to e-Learning: The Next level of Faculty Readiness" arranged by Virtual University Islamabad on November 26, 2020.
- The QEC team also attended 02 webinars on Subject Rankings arranged by Times Higher Education (THE), UK.
- QEC officer participated in online session on Designing of Program KPIs by SZABIST on April 20, 2021. The objective of the session was to understand the role of KPIs in a quality assurance system, understand the attributes of a well-designed KPI, recognize different types of KPIs and consequences of using different types of KPIs and develop KPIs for the given goal.

Participation in National Events

- QEC Team attended the Interactive session of MD, QAA with Heads of QECs on September 24, 2020 through MS Teams. The Managing Director, QAA arranged an online session so that QAA and QECs should work in close liaison to achieve the mutual goal of quality enhancement.
- Higher Education Statistics Unit arranged an online orientation session for focal persons of all HEIs through MS Teams for consecutive three days from September 30th- October 2nd, 2020. The sessions were attended by QEC team. The QEC team participated in the all the sessions with essential feedback and suggestions for the group. The informative sessions were conducted by different recourse persons who explained how to fill HES pro-forma and how to collect and compile the final HES data.
- QEC Team attended and participated in training session on QEC Yearly Progress Report (YPR) by QAA HEC. The Purpose of this session was to address the number of queries received from respective QECs regarding targets and submission of Progress Report.



Membership of Associations/Networks

QEC has maintained CUI's membership of International Associations/Networks, dealing with the quality of education, for promoting the quality culture and research that is at par with the international quality assurance standards. These networks include:

- Association of Quality Assurance Agencies of the Islamic World (AQAAIW)
- International Network for Quality Assurance Agency in Higher Education (INQAAHE)
- Asia-Pacific Quality Network (APQN)
- CHEA International Quality Group (CIQG)
- International Association of Universities (IAU)

Accreditation of Academic Programs from Relevant Councils

The QEC team extended its support in accreditation process of academic programs. The departments get their programs accredited from the relevant accreditation bodies and QEC provides all type of facilitation in this process. During the reporting period, the total numbers of accredited programs of all campuses are 24 in different disciplines.

- The Engineering programs are accredited by Pakistan Engineering Council
- Management Sciences programs are accredited by National Business Education Accreditation Council (NBEAC)
- Pharmacy programs by Pharmacy Council of Pakistan (PCP)
- The Computer Science programs are accredited by National Computing Education Accreditation Council (NCEAC)
- Architecture and Design programs are accredited by Pakistan Council for Architects and Town Planners (PCATP).

Nationwide Rollout of Higher Education Data Repository (HEDR)

CUI participated in the activity of HEDR Online Readiness, 2nd Cycle of Uploading Information during December 2020. HEC's HEDR Initiative is for devising an effective and transparent methodology for evaluating universities on online readiness, especially in the delivery of online teaching/courses. QEC submitted the data against the following parameters for the 2nd cycle:

- University Readiness
- Course Readiness
- Faculty Readiness
- Technology Readiness
- Library Readiness
- Student Readiness
- Evaluation Readiness
- Laboratory Readiness
- Reopening Policy

The data was submitted / uploaded on HEDR Portal well before the submission deadline after approval from the worthy Rector. In this regard, CUI took the following actions for online learning during the COVID-19 situation:

- CUI started to enhance the coverage of quality online higher education to its students during the COVID-19 Pandemic through its Virtual Campus, following the guidelines provided by the HEC.
- CUI's online education coverage was 100% with its students as it already had established substantial online instructional capabilities.
- CUI provided uninterrupted and quality online education across all CUI campuses with more than 90% attendance of the students.
- CUI conducted a student survey, which 12,233 students of CUI responded. A ray of questions was asked from students in the survey regarding

availability of internet, connectivity issues, and quality of online education.

QEC Weekly Departmental Meetings

The In-charge QEC took the initiative to improve the department progress, and in this regard, weekly meeting has been made a mandatory part of weekly activities at QEC to review all activities done during the week and set targets for the upcoming weeks. During August 2020-August 2021, 25 meetings were conducted, and the meeting minutes were circulated through QEC official email.

Excellent Performance Award Conferred by Quality Assurance Agency of Higher Education Commission, Pakistan

The Quality Assurance Agency (QAA), Higher Education Commission, Pakistan, conferred award to CUI for its Excellent Performance at the Annual Progress Review meeting. QEC holds the distinction of consistent high performance and has remained among the top few Higher Education Institutions (HEIs) in "W" Category since a decade.

Yearly Performance review carried out by QAA, HEC is a multifaceted assessment to regularly measure quality at HEIs. The assessment scores are based on a comprehensive set of over 50 parameters. The

most significant parameters include Self-Assessment, Institutional Performance Evaluation, Program Review Assessment of HEI and Continuous Quality Improvement (CQI) framework.

Progress Review Meeting & Training for Quality Enhancement Cells organized by the Quality Assurance Agency, HEC.

This meeting was held on March 3rd & 4th, 2021 at the Margala, Hotel Islamabad. The meeting was attended by Incharge QEC and Senior Program Officer QEC.

Meeting and the workshop session was divided into two days. On Day One (Progress Review Meeting & Brief on Target Policy of Progress Report 2019-20 & 2020-21) was discussed in detail while training on IPE, discussions on Compliance Policy and new PhD Policy was discussed on Day Two.

In the recognition of the efforts made by QECs in achieving the annual targets successfully, QAA awarded shields to the excellent performing QECs. The QEC CUI team got the appreciation shield on excellent performance in Yearly Progress Report (YPR) from 2018-19. The team also received the certificates of participation for the training from MD QAA, Dr. Nadia Tahir.





Chapter 04:
Faculty Development

Human Resource Development

Investing in human resources, more precisely in the faculty and staff under the Human Resource Development Program (HRD) has been a flagship initiative at COMSATS University Islamabad (CUI). The University is running one of the largest HRD Programs among the public and private sector universities in Pakistan second only to the one run by the Higher Education Commission (HEC). The Directorate of Planning, Development and Human Resource Development (P, D and HRD) has been entrusted with the responsibility to administer the CUI HRD Program.

Under the auspices of the HRD Program, CUI has invested generously in human resource development and provided opportunities to its faculty in universities abroad to pursue MS and PhD level studies. During the preceding decade and a half, over three hundred and sixty (360) fully funded scholarships have been awarded to the faculty/staff to allow them pursuing studies in high ranking universities of the world. Among them, nearly 160 MS and over 200 PhD scholars have completed studies. These scholarships were awarded through meritorious criteria, open to candidates already serving or willing to serve CUI upon completion of studies.

Complementing its own investment in the HRD program, faculty/staff are encouraged to secure scholarship funding from alternate sources.

Necessary facilitation is provided to the faculty/staff, including but not limited to granting them ex-Pakistan leave. Alternate sources include institutional arrangements agreed between the CUI and other universities and funding agencies. The cohort benefiting from such facilitation comprises over 730 scholars. Among them, nearly 300 scholars have completed their studies, while over 400 scholars are pursuing their studies abroad. During the year 2020-21, 43 scholars have joined back in CUI.

The choice of subjects for candidates placed abroad is aligned with the University's long-term priorities and the scholars remain under a keen vigil of the management and senior academics for their performance. Getting quality education, exposure to cutting-edge research, prospects of strengthening linkages with universities abroad and the scholars taking up productive work immediately upon their return remain the guiding principles of the program. The efforts have paid dividends. Today, CUI proudly boasts of having an excellent intellectual ensemble of around 1100 PhDs in its faculty/staff corps.

As part of preparing candidates for the overseas scholarships, the Directorate of P, D and HRD initiated a program titled, "Information Seminars for Higher Studies Abroad" in 2016. Under the program series of information & motivational seminars/meetings are conducted for the prospective candidates. Around 70 of such events have been organized as of this date.





The HRD Program of the CUI has turned out as a nationally acclaimed Program that has successfully played a vital role in the overall development of the University and in enhancing its research ranking. Looking at the numbers on those who still need to upgrade their technical academic qualification, the Directorate of P, D and HRD understands that there still appears an opportunity to venture more through expanding HRD plans/activities. The statistical profile of the HRD Program is given below:

Category	#	Description	CUI	Others*	Total
Campus	1	Abbottabad	60	117	177
	2	Attock	8	50	58
	3	Islamabad	161	212	373
	4	Lahore	83	143	226
	5	Sahiwal	10	96	106
	6	Wah	36	75	111
	7	Vehari	7	42	49
			Total	365	735
Program Wise Breakup	1	MS	162	82	242
	2	PhD	203	653	856
		Total	365	735	1100
Gender Wise Breakup	1	Male	297	626	923
	2	Female	68	109	177
		Total	365	735	1100

Category	#	Description	CUI	Others*	Total
Country Wise Breakup	1	Australia	1	31	32
	2	Austria	5	21	26
	3	Brunei		2	2
	4	Belgium		1	1
	5	Canada		4	4
	6	Chile		1	1
	7	China	31	156	187
	8	Cyprus		1	1
	9	Czech Republic		2	2
	10	Denmark		4	4
	11	Estonia		1	1
	12	Finland	9	5	14
	13	France		26	26
	14	Germany	2	48	50
	15	Hong Kong		4	4
	16	Iceland		1	1
	17	Ireland		7	7
	18	Italy	1	22	23
	19	Japan		2	2
	20	KSA		0	0



Category	#	Description	CUI	Others*	Total
Country Wise Breakup	21	Korea		5	32
	22	South Korea		64	26
	23	Saudi Arabia		7	2
	24	Malaysia	14	117	1
	25	Mexico		1	4
	26	Netherlands	1	10	1
	27	New Zealand		15	187
	28	Norway		9	1
	29	Oman		1	2
	30	Poland		3	4
	31	Portugal		2	1
	32	Qatar		2	14
	33	Russia		1	26
	34	Romania		3	50
	35	Sweden	16	38	4
	36	Singapore		1	1
	37	Switzerland		1	7
	38	Spain		9	23
	39	Thailand		6	2
	40	Turkey	2	7	0

Category	#	Description	CUI	Others*	Total
Country Wise Breakup	41	Taiwan		4	4
	42	UAE		1	1
	43	UK	206	60	266
	44	USA	77	29	106
		Total	365	735	1100
Subject Wise Breakup	1	Architecture	4	6	10
	2	Biosciences	24	28	52
	3	Chemical Engineering	6	43	49
	4	Computer Science	49	105	154
	5	Chemistry		3	3
	6	Civil Engineering		8	8
	7	Development Studies		11	11
	8	Humanities	4	6	10
	9	Electrical Engineering	153	244	397
	10	Environmental Science		27	27
	11	Economics	5	4	9
	12	Management Science	61	146	207
	13	Mechanical Engineering	5	3	8
	14	Mathematics	27	44	71
	15	Pharmaceutical Science	2	11	13



Category	#	Description	CUI		Others*		Total	
Subject Wise Breakup	16	Meteorology	2		4		6	
	17	Physics	23		42		65	
		Total	365		735		1100	
Source of Funding Wise Breakup	1	CUI	365				365	
	2	Alternate Source of Funding			636		636	
	3	Self-Finance			99		99	
		Total	365		735		1100	
Year of Placement	#	Description	CUI		Others*		Total	
			MS	PhD	MS	PhD	MS	PhD
	1	2003				1	0	1
	2	2004		3		1	0	4
	3	2005		19		3	0	22
	4	2006	35	18	1	6	36	24
	5	2007	44	13	1	15	45	28
	6	2008	42	31	1	17	43	48
	7	2009	20	19	13	16	33	35
	8	2010	4	21	11	24	15	45
	9	2011	4	24	3	63	7	87
	10	2012	4	21	6	49	10	70
	11	2013	2	22	1	38	3	60
12	2014	6	8	9	53	15	61	

Year of Placement	#	Description	CUI		Others*		Total	
			MS	PhD	MS	PhD	MS	PhD
	13	2015	1	1	8	81	9	84
	14	2016			13	79	13	79
	15	2017			10	89	10	89
	16	2018		3	2	63	2	64
	17	2019			1	39	1	39
	18	2020				5		5
	19	2021			2	11	2	11
		Sub Total	162	203	82	653	244	856
		Total	365		735		1100	

Scholars Joined Back the CUI Post Completion of their Studies (2020-2021)

Category	#	Description	CUI	Others*	Total
Campus	1	Abbottabad		6	6
	2	Attock		1	6
	3	Islamabad	2	11	13
	4	Lahore		4	4
	5	Sahiwal		10	10
	6	Wah		5	5
	7	Vehari		6	6
		Total	2	43	45



Faculty

As a result of the opportunities provided by the CUI for faculty development, the number of young PhD faculty is increasing. Out of 2376 faculty members, 1137 are PhD holders, 935 have MS/MPhil degree while the remaining 187 are sixteen years degree holders. During the reporting period, the designation-wise breakup of faculty is follows:

Designation	Islamabad	Abbottabad	Wah	Lahore	Attock	Sahiwal	Vehari	Virtual	Total
Professors	20	8	1	5	0	1	0	Nil	35
Associate Professors	35	26	13	32	0	1	2	NIL	109
Assistant Professors	349	189	60	229	63	52	64	NIL	1006
Lecturers	255	132	76	165	58	76	72	25	859
RA/TAs	19	12	11	17	6	11	22	5	103
Total	678	367	161	448	127	141	160	30	2112

*2112+264 on study leave=2376

Faculty Development Academy

Faculty Development Academy (FDA), the training wing of CUI, has been vigorously working on professional development of CUI faculty and admin personnel as well as officers of other public /private sector universities since 2004. The lockdown measures due to COVID-19 pandemic caused not only unprecedented disruption in the provision of education and training but also catalyzed innovation in distance learning. As the new reality of the pandemic sets in, Dr. Aneel Salman, In-charge FDA, revamped the structure of FDA and introduced a paradigm shift in training/working of FDA to cope up with the implications of the virus. In the short-term, FDA has radically altered the way training is conducted and kept launching capacity building programs. In-charge FDA kept his employees motivated and productive during the challenges of the COVID-19. Several network meetings were also held throughout the year with different organizations like Roots Millennium School, Friedrich Naumann Foundation, NAHE (HEC), NAVTTC, PIMS, PakTurk Maarif School etc. FDA interacted with and facilitated these organizations in capacity building programs. A rundown of FDA's activities during September 2020 till August 2021 is given below:

Workshop for Academic Leaders

A 5 day 'Workshop for Academic Leaders of Islamabad Campus' was arranged from December 14 to 18, 2020. A total of 22 Academic Heads participated. Domain experts from Islamabad were invited to share their knowledge and experience with the participants. The major objective of the workshop included strengthening the interconnectedness among the leaders and alignment between their personal and organizational goals.

From ZOOM Fatigue to ZOOM Vroom

FDA arranged a hybrid training 'From ZOOM Fatigue to ZOOM Vroom' on February 8, 2021. There were 40 participants in all. Some of the faculty members of CUI Islamabad campus attended the workshop in person while others across CUI campuses, Roots Millennium and PakTurk Maarif Schools participated virtually. Mr. Umar Sheraz, from Centre of Policy Studies (CPS) was the trainer for the workshop

Understanding Decision – Making: Unraveling the Complexities

Another hybrid workshop on 'Understanding Decision – Making: Unraveling the Complexities' was organized on February 25, 2021. Twenty six (26)



participants attended in-person and 60 joined online from CUI Attock campus and Roots Millennium School. An interactive talk was delivered by Dr. Imran Syed, In-charge, Centre of Policy Studies (CPS). The objective of this workshop was to inculcate the power of decision making into the participants by sharing several live examples and theories and to make participants understand the difference between the positive and negative consequences of decision making.

Current Economic Scenario of Pakistan

A seminar on 'Current Economic Scenario of Pakistan' was held on February 26, 2021 at CUI Islamabad Campus wherein an inspirational talk was delivered by Dr. Muhammad Ahmed Zubair, Chief Economist, Planning Commission of Pakistan. More than 70 participants, including students and faculty members of the Economics department participated. He dilated upon the current economic situation of the country. He presented various economic scenarios and posted related queries to provoke participants' thought process. In the end Q&A session was held.

Capacity Building Program on Online Teaching Course - Level-I by Higher Education Commission

National Academy of Higher Education (NAHE) organized an Online Teaching Course Level-I from March 20, 2021 to April 10, 2021. NAHE structured this course with the greatest care and adherence to international standards of quality. The course was conducted virtually, with synchronous sessions (live classes) conducted on the weekends and asynchronous learning activities during the work week. A large number of faculty members from all over Pakistan attended the workshop. FDA facilitated in confirmation of nominations of 44 faculty members across CUI campuses. This teaching course helped the Higher Education Institutes (HEIs) in the enhancement of online teaching pedagogies, engagement in online learning environment, educational technology, and online evaluation strategies.

Outcome Based Education (OBE): Special Engineering Training Approach for Global Competitiveness

An online workshop on 'Outcome Based Education (OBE): Special Engineering Training Approach for Global Competitiveness' was organized for Engineering faculty of CUI Wah campus on April 12, 2021. The training was delivered by Prof. Dr. Muhammad Junaid Mughal, Director, CUI Attock Campus and attended by more than 40 engineering faculty members. The speaker presented different modules of Campus Management System (CMS) required in the handling of OBE.

Excellence in Online Teaching

A 4-day online workshop on 'Excellence in Online Teaching' was arranged by FDA from May 31 to June 3, 2021. The training was arranged following the pattern of Higher Education Commission (HEC). Subsequently, FDA arranged the same workshop to benefit maximum number of faculty members (150) across CUI campuses. It was composed of four modules:

- Developing Instructional Design for E- Learning
- Writing and Structuring E-Learning Course Materials
- Enhancing Student Engagement in E-Learning
- Creating E- Learning Assessment which included synchronous and asynchronous activities

Domain experts were invited to deliver lectures to the participants. The participants learnt numerous proven teaching strategies and learning activities that enabled them to apply creative ideas in their own teaching environment. The workshop also promoted faculty members' understanding of online teaching pedagogies, engagement in online learning environment, and online educational strategies. It also provided them effective facilitation of learning through new or innovative ways. The participants' feedback elucidated that they have found this workshop interesting with plenty of valuable information provided as part of this online activity and through interaction with fellow teachers and trainers



from across the CUI Campuses. They also lauded the efforts of FDA which provided them a platform where they could mutually discuss the issues and problems faced during online teaching.

Skills Enhancement & Employee Development (SEED) Program for Admin Personnel across CUI Campuses

Faculty Development Academy (FDA) conducted a Training Needs Assessment (TNA) of each campus in collaboration with respective Campus Directors to plan Skill Enhancement and Employee Development (SEED) Program for Admin Personnel across CUI Campuses. Subsequently, the FDA developed an activity plan/ schedule to organize these workshops.

SEED Program for CUI Attock Campus

The first SEED Program was held at CUI Attock Campus on June 30, 2021 for their admin personnels. There were 20 participants from different departments of CUI Attock Campus. Domain experts from twin cities of Islamabad and Rawalpindi were invited to deliver an activity- based talk on the following topics:

1. Stress Management
2. Personality Development
3. Public Speaking

These sessions were designed according to their daily life challenges and how to cope up with different scenarios. In the first session on 'Stress Management' the speaker explained the formula of 4-As; Avoid, Alter, Adopt or Accept. He further elaborated that it depends on humans how they deal with stress. The speaker on 'Personality Development' urged that one should be clear about the difference between personal and professional life. The fusion of personal and professional life brings difficulties in both lives. This workshop equipped the trainees with the latest knowledge in related fields and sharpened their skills deemed essential for personal, interpersonal effectiveness, and professional growth.

SEED Program for Sahiwal Campus

Second Skills Enhancement & Employee Development (SEED) Program was arranged for three days from July 5 – 7, 2021 at CUI Sahiwal Campus. There were 21 admin officers from various departments of CUI, Sahiwal campus. This workshop helped the administrative officers to handle professional and personal issues by having elaborate talks on topics like:

1. Critical Thinking
2. Work Ethics
3. One Minute Management
4. Presentation Skills
5. Noting & Drafting
6. Impact of Body Language on Professional Career
7. Self-Leadership

The trainers were from Multan and Islamabad. The workshop enabled the participants to build their capacity and embark upon their personal and professional growth. The group also developed insight into the virtues of a true leader and the power of a team in finding the right direction and achieving a common goal through joint efforts and diversified roles. At the end of the workshop, Prof. Dr. Nazir Ahmad Zafar, Director Sahiwal campus graced the closing ceremony. Dr. Aneel Salman, In-charge FDA, addressed the participants and summarized the purpose and idea behind these trainings. It was yet another successful workshop which left positive impacts on the trainees.

SEED Program for Vehari Campus

Due to the prevailing COVID situation, the third SEED Program was conducted virtually/online on July 15, 2021. A total of 21 participants attended the workshop. Renowned professionals from Islamabad acted as Resource Persons. It was spanned over three sessions i.e. Emotional Intelligence, Strategic Management and Communication Skills. The

participants learnt that critical skills play an important role in their personal and professional success and by managing their emotions in positive ways they can relieve stress, communicate effectively, empathize with others, overcome challenges and defuse conflict. They also developed insight that a strategic plan must be created by reviewing all the options available and proper planning must be done for the implementation of that strategic plan.

In the last session of the workshop, the trainer shed light on the importance of effective communication skills. He highlighted that effective communication is a means to have better relations at work and in life. The difference between soft skills and hard skills were also taught. He then drew participants' attention towards the significance of soft skills of communication and their types. The speaker further explained that effective management communication is essential for guiding teams and lifting morale during times of disruption and uncertainty.

SEED Program for CUI Wah Campus

SEED Program for Admin Personnel of CUI Wah Campus was organized on August 5, 2021. Following modules were taught i.e. Noting & Drafting, Stress Management and Public Dealing. 24 participants attended the workshop.



The workshop equipped the participants with improved knowledge and skills deemed essential to achieve organizational goals effectively. The participants gained the knowledge of different forms of official communications, Noting and Drafting etc. The speaker further elaborated the difference between the drafts, formal letter and office files including other forms of correspondence.

The second session on 'Stress Management' helped participants realize the sources and signs of personal stress and how that stress could be reduced. An activity regarding stress management was also held where the speaker explained the process and helped participants locate their 'Locus of Control.' Current and Ideal Wheel of Life' by identifying one's three top strengths. Participants also learnt the skills needed for public dealing. At the end Closing Ceremony was held. Dr. Muhammad Abid, Director Wah campus addressed the group and applauded the participants' active interest and involvement in the workshop. He urged them to use their learning in their work settings. He also appreciated Incharge, Faculty Development Academy (FDA) for organizing the workshop on such an important theme.

SEED Program for CUI Abbottabad Campus

A similar SEED Program was held on Campus from August 10 – 12, 2021 for admin personnel of CUI, Abbottabad campus. There were around 60 participants. The training started with a session on Leader-ship, which was then followed by Team Building, Communication Skills, Emotional Intelligence, Time Management and Use of Modern Technology in Governance.

The objective was to provide the participants a different intellectually stimulating environment facilitating their personal and professional growth. This energizing and stimulating workshop had a very optimistic and encouraging effect on the participants. The trainees shared their inspiring and heartening comments at the end of the workshop.



Prof. Dr. Imtiaz Ali Khan, Director, CUI Abbottabad campus, also delivered talk on Governance and graced the closing ceremony. Later, he distributed the shields among the speakers.

S. No.	Task	Dates
1	Meeting with GM, Roots International School for future collaboration in Professional Development & Capacity Building	January 29, 2021
	Second meeting with GM Roots Millennium School for preparation of draft proposal	March 15, 2021
2	Meeting with Ms. Birgit Lamm, Country Head, Friedrich Naumann Foundation for Freedom to explore possible avenues of collaboration & partnership.	Feb 02, 2021
3	Submission of Analysis Report of ICT Training Policy	March 12, 2021
4	Meeting with NAHE, HEC for Training module of 'Student Engagement'	March 16, 2021
5	Capacity Building Program on Online Teaching by National Academy of Higher Education	March 20 to April 20, 2021 (Weekend based)
6	Online Meeting with NAVTTC to initiate Diploma Programs	April 22, 2021
7	Meeting with Prof. Dr. Shahid A. Khan to conduct training for Evaluation of Research Publications	April 26, 2021
8	Training Need Assessment for Training of Admin Personnel of CUI Campuses	June 16, 2021
9	Meeting with Dr. Zafar Iqbal Channa, PIMS Head of Nursing staff to conduct training for PIMS staff in collaboration with FDA	July 29, 2021
10	Meeting with Principal PakTurk Maarif School, G-10 campus regarding trainings for their staff	August 04, 2021



Accomplishments of International Faculty

CUI today is well placed to push more aggressively its internationalization strategy to consolidate the past and present gains and build on them by further uplifting the quality of teaching, research, and public impact. International faculty members make invaluable contributions through their own unique world views, work ethics, humanitarian concerns as well as teaching methodologies, approaches to finding solutions for emerging research problems, and making indelible societal impact.

#	Name/ Department/ Campus	Number of Research Publication	Number of Graduate Students Supervision	Other Salient Achievements
1	Prof. Dr. Mais Suleymanov, Ex-Advisor, Department of Physics, CUI.	Journal (IF) Published = 25 Submitted = In Process = Conference Published = Submitted = In Process = 1	PhD = MS = 2 (Co-advisor)	<ul style="list-style-type: none"> ➤ Online master class lecture for the students and teachers of Baku State University. 17.05.2020 ➤ Online oral talk in the International Conference “NUCLEUS2020”, 12.10.2020
2	Ms. Juliane Eick Aziz, Assistant Professor Department of Architecture, CUI Lahore Campus.	Journal (IF) Published = 0 Submitted = 0 In Process = 0 Conference Published = 0 Submitted = 0 In Process = 0	BS = 1	<ul style="list-style-type: none"> ➤ “CROSSOVERS” National Group Exhibition at Alhambra Art Gallery Lahore, Curated by Ali Raza <p>Exhibited six drawings of “My Invisible Cities”-series together with works by 19 artists from Pakistan.</p> <ul style="list-style-type: none"> ➤ “Sonar Screen” Public Installation at IAPex Lahore 2020, in Collaboration with Talha Muftee <p>The Sonar Screen was the execution of the first prototype in Pakistan for real-time interactive architecture through algorithmic design and sensor-driven robotics</p> <ul style="list-style-type: none"> ➤ “Affordable Art Fair” at the Department of Architecture, CUI Lahore



#	Name/ Department/ Campus	Number of Research Publication	Number of Graduate Students Supervision	Other Salient Achievements
				<p>Ideated, curated and managed the first of its kind art fair at university. The exhibition included the exhibition and sale of personal artwork of students and faculty, and encouraged the dialogue between colleagues and students</p> <ul style="list-style-type: none"> ➤ PR campaign of the newly made “Department of Architecture” (DA), under the guidance of HoD Waqar Aziz <p>Set up and maintained:</p> <ul style="list-style-type: none"> ➤ DA-Facebook page ➤ DA-Instagram page ➤ DA-Twitter page, ➤ and DA-ISSUU page <p>Maintain the posting of news and updates from the Department, as well as interesting student works</p> <ul style="list-style-type: none"> ➤ Core Team member for Admissions Fall 2020, together with HoD Waqar Aziz, Nabah Ali Saad and Shajeea Shuja ➤ Designed, revised and adjusted multiple Departmental templates during the Online Phase of Teaching (due to COVID-19), such as Interview Schedule for Admissions Fall2020, Assessment Form for Admissions Fall2020 used by all DA faculty during admissions interviews

#	Name/ Department/ Campus	Number of Research Publication	Number of Graduate Students Supervision	Other Salient Achievements
				<p>Fall2020), Grading Sheets for External Reviewers, and many more.</p> <ul style="list-style-type: none"> ➤ Maintained the Semester Calendar for the Department of Architecture throughout the semesters, easing the coordination of student work-reviews, workshops, as well as important departmental and official university dates. ➤ Being the creator of the Departmental Course Award List, I gave continued support to faculty in maintaining and adjusting their respective Course Award Lists, additional to the university's CUOnline system
3	Dr. Kaneez Rabia, Assistant Professor Department of Physics, CUI	<p>Journal (IF) Published = 01 Submitted = In Process = 02</p> <p>Conference Published = Submitted = In Process = 1</p>	<p>PhD = 0 MS = 0 BS = 1</p>	
4	Dr. Yasser MSA Alkahrman Assistant Professor Department of Pharmacy, CUI Abbottabad Campus	<p>Journal (IF) Published = 07 Submitted = 05 In Process = 03</p> <p>Conference Published = 01 Submitted = In Process =</p>	<p>PhD = 01 MS = 02</p>	<ul style="list-style-type: none"> ➤ File patent to ORIC office COMSATS University Islamabad ➤ Awarded NRPU project in 2019 with total amount Rs 2.1 M ➤ Acquired PAK Patent 2019



#	Name/ Department/ Campus	Number of Research Publication	Number of Graduate Students Supervision	Other Salient Achievements
5	Ms. Katherine Louis Sipra, Scientific Officer, Department of Biosciences, CUI	Journal (IF) Published = Submitted = 01 (Soil acidity and biodiversity in Margalla Hills National Park, Islamabad, Pakistan)	PhD = MS =	<ul style="list-style-type: none"> ➤ Completed DNA extraction and purification of snow leopard scat samples
6	Dr. Sharieh Hosseini Nasab, Associate Professor, Department of Architecture, CUI Lahore Campus	Journal (IF) Published =2 Submitted = 1 In Process = 2 Conference Published = 2 Submitted = 1 In Process = 2	PhD =N/A MS =N/A	<ul style="list-style-type: none"> ➤ Principal Investigator of International research project titled 'Pan-Com Neighborhoods' approved and hosted by Oxford Brookes University, UK. (Submitted for funding to Marie Curie fellowship) ➤ Member of Prime Minister's Task Force for Affordable Housing (CUI representative) and collaborating regularly. ➤ Organizing and curating a National Exhibition at CUI Lahore on showcasing 33 neighborhood design projects by CUI students in Lahore. Exhibition inaugurated by Chairperson of PM's Task Force for Affordable Housing. ➤ Organizing and leading an International Design Review at Department of Architecture, CUI Lahore and inviting leading architects from five countries including Spain, Lebanon, Iran, Turkey and India. ➤ Public lecture for International seminar series at Persian Gulf University, Iran. Title: Urban Resilience to Pandemics; Lessons form COVID-19.



Chapter 05: Access



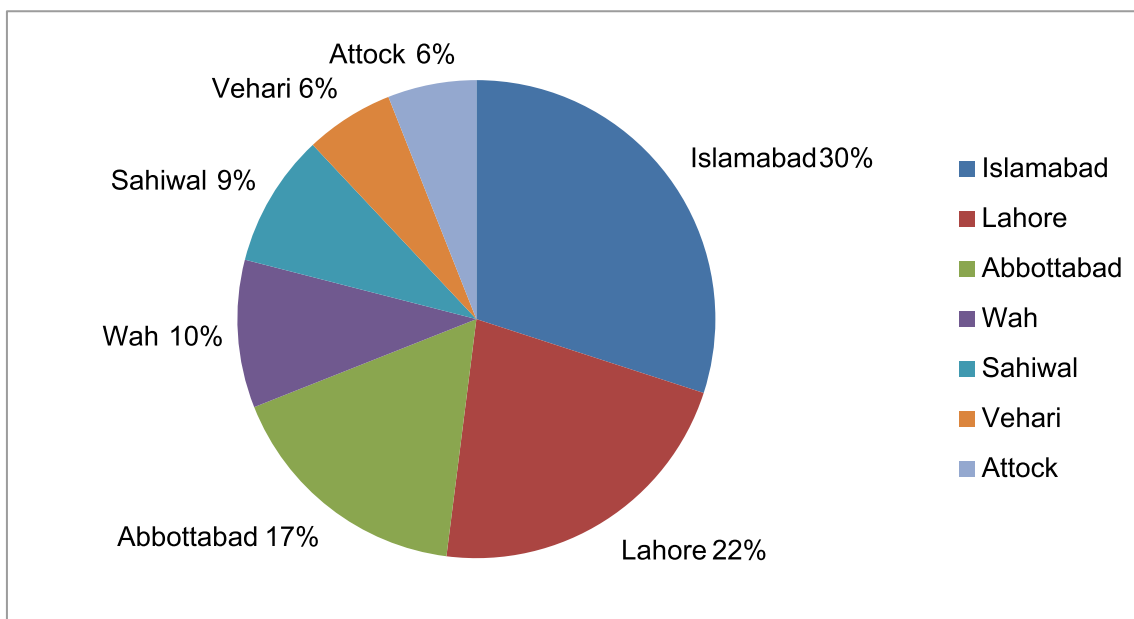
Student Enrollment

CUI started its journey in 2000 with just 277 students. Since then, its enrollment is on the rise which is a clear indication of education standards at its campuses. During the reporting period, total number of students enrolled at CUI were 34,216. The Islamabad Campus led with 10,403 students followed by Lahore Campus with 7,273 students.

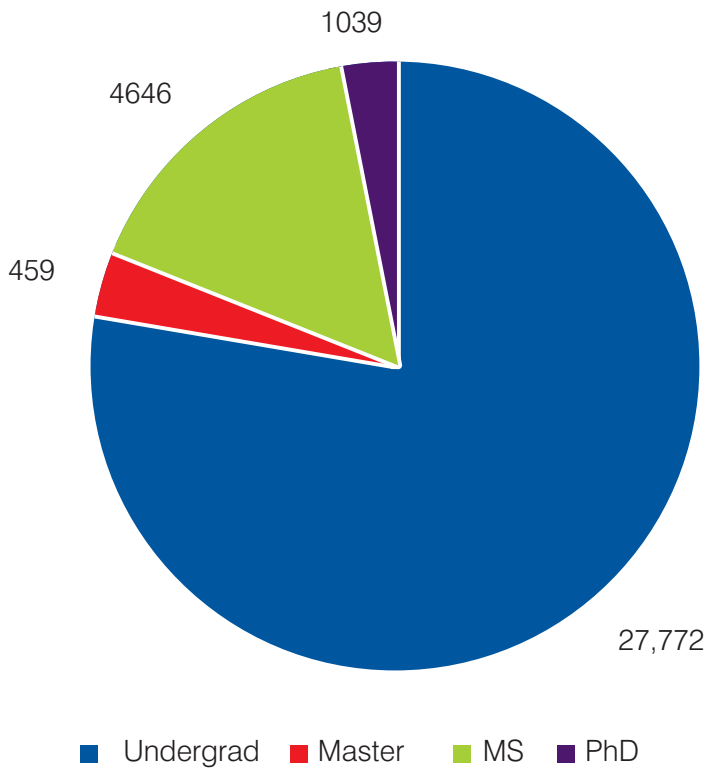
The intake during the reporting period at CUI campuses is tabulated below:

Campuses	Students Intake		
	Fall 2020	Spring 2021	Total
Islamabad	1742	1382	3124
Abbottabad	1191	573	1764
Wah	847	212	1059
Lahore	1549	755	2304
Attock	416	179	595
Sahiwal	698	242	940
Vehari	480	172	650
Total	6923	3515	10438

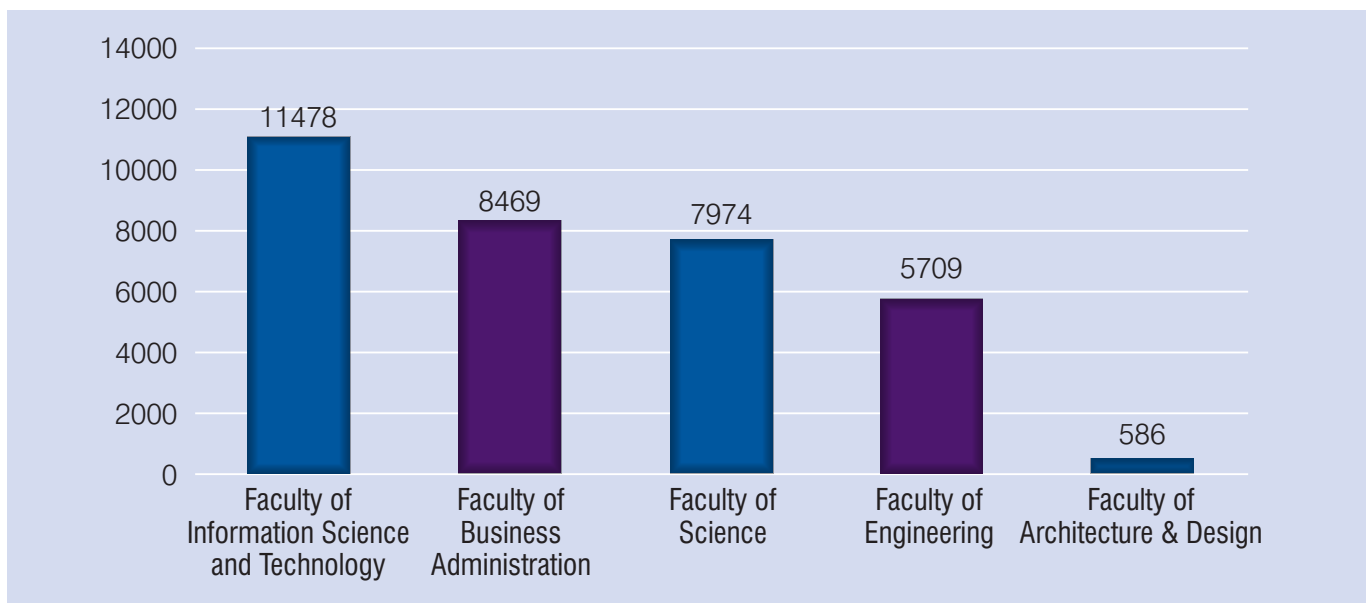
Campus-Wise Student In-Take Percentages for the Reporting period



Degree-level wise total student enrollment:



Total Student enrollment in the 05 faculties as of Spring 2021:



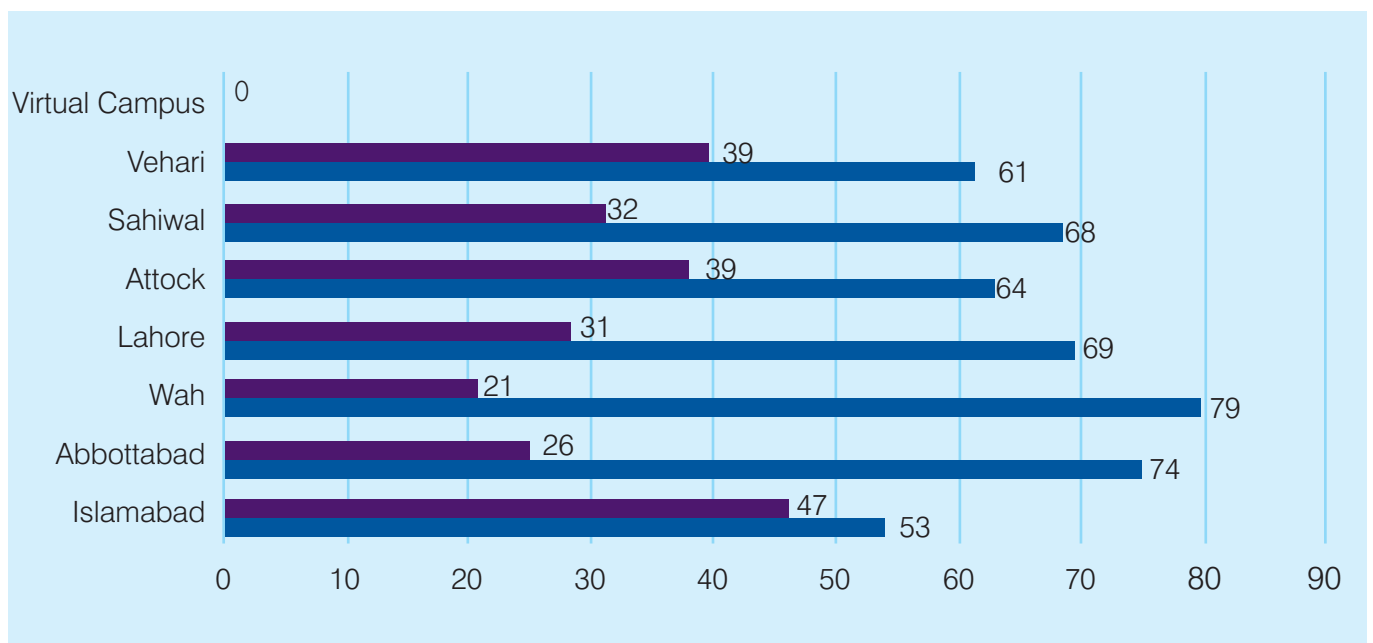


Equity

According to its Act, CUI is an open merit Institute with equal opportunities to all irrespective of their gender, religion, race, creed, color or domicile provided, they academically qualify for admission to the offered courses of study. No person is denied the privilege on these grounds. Hence all the policies of CUI, pertaining to admission, hiring, compensation, medical, etc., are formulated on this rule of business. Furthermore, a student who is eligible for admission through open merit is not declined due to his/her financial constraints.

Gender-wise Detail of Student Enrolment

Similarly there is no gender discrimination at CUI as stated above. During the reporting period, the males and females studying at CUI were 65% and 35% respectively. The campus wise and gender wise percentage of male, female students is given below:



Faculty-Student Ratio

Induction of highly qualified faculty at CUI is a continuous process. It is firm commitment of CUI to provide it students with the best. During the reporting period, the faculty to student ratio at CUI was 1:14.



The image features a solid blue background. In the lower half, there are two decorative wavy lines. The bottom-most line is a dark blue, and the line above it is a purple color. Both lines flow from the left side towards the right, curving upwards and then slightly downwards.

Chapter 06:

University Building Economies



University Industry Linkages

University-Industry linkage is critically important for the advancement of academia, growth of budding industries and development of any economy. In the rapidly changing world, there is a strong realization of the significance of inter-organizational collaboration.

University-industry linkage is the term used for the relationship, interaction, partnership, collaboration and cooperation between the two trenchant organizational structures having distinct philosophies, visions, missions, goals and objectives where both the entities must be responsive to the dynamic, ever-changing environmental forces having a futuristic orientation. Evolving cut-throat competition, shorter product life cycle, rising demand for technological innovation, volatile market conditions and the ever-increasing cost of research are the main reasons for universities to collaborate with industry. It enables universities to undertake high-quality research and enhance the capability of the corporations to compete globally. Pakistan can generate a surplus amount of wealth from university-industry (U-I) linkages if academic research is carried out keeping in mind the societal needs and can get appreciation from industry.

Collaboration with various Local Institutions and Industries

CUI Abbottabad Campus has been actively engaged in establishing linkages with some reputed industries. An Academia Industrial Linkage event was held on October 29, 2020. Heads of the following renowned industries attended the event:

- Holistic health curative
- Global star granite and marble
- Genome pharmaceuticals
- Latif Group
- Zia Steel rerolling mills
- Mushroom pvt ltd, best way
- AR processing Hattar
- Silver lake Private Limited
- Bestway Cement
- Candle in the Wind

The event was attended by Heads of all departments and centres of CUI, Abbottabad Campus. Heads of IT, CADR, ERC and Mr. Omar Hassan AP. The guests while sharing their feedback stated that education in various fields imparted by CUI, Abbottabad campus is certainly appreciated but we need to see the outcome in terms of graduates absorbed by relevant industries and organizations and how we can mutually collaborate with each other in this regard. They stated that industries are there to collaborate with CUI, Abbottabad Campus in this regard.

Visit of Green Crescent Environmental Engineering Consultants (GCEEC) Officials at CUI Lahore Campus

Green Crescent Environmental Engineering Consultants (GCEEC) officials visited the Department of Chemical Engineering labs, Department of Physics labs and IRCBM labs of CUI Lahore Campus and had meeting with Mufti Hassan Ashraf Usamani, Shariah, Trainer CIF on October 05, 2020 for the establishment of Halal testing labs.



Visit to Viscolloids Industry at Hattar Industrial Estate under University-Industry Liaison Initiative of CUI Abbottabad

Mr Sajid Naeem, Deputy Registrar (Legal & Liaison), Dr. Asad Muhammad Khan, Department of Chemistry and Dr. Sohail A Shahzad, Department of Chemistry, CUI Abbottabad Campus visited Viscolloids industrial unit at Hattar industrial Estate during the reporting period. Detailed discussion on evaluation/study of Guar & CMC surface properties, synthetic modification of Guar and deliberation on establishment of a new research laboratory at CUI, Abbottabad Campus took place. In the first week of December 2020, the CEO of Viscolloid Pvt Limited also paid a visit to CUI Abbottabad and was positively keen and interested in future collaboration.

Roundtable Meeting

A roundtable meeting was held between Campus Focal Person OIRC, Dr Nadia Nawaz and a delegation headed by the Director R&D, Pakistan Ordnance Factories (POFs) Wah Cantt on February 15, 2021.



Industrial Visit to Hattar Industrial Estate

Dr. Shamyia Nawaish, Assistant Professor, Department of Environmental Sciences, CUI Abbottabad Campus along with her PhD students visited Hattar Industrial Estate on May 05, 2021 under the research project of CUI, Abbottabad campus in collaboration with Hattar Industrial Estate.

Enhancement of Academic Industrial Cooperation

During the reporting period, Mr. Umair Butt, Senior Manager, CUI Sahiwal Campus, Affiliate Network, zameen.com and Mr. Asim Ali Raza, CEO and founder Makkan management, were invited by Director CUI, Sahiwal Campus Prof. Dr. Nazir Ahmad Zafar to hold discussions regarding enhancement of Academic Industrial cooperation.

Signing of MoU's with various Industries

- An MoU has been signed between the CUI Sahiwal Campus and Enablers. CEO of Enablers, Saqib Azhar briefed the director that Enablers' 2020 Vision is to discover future possibilities and enable people of Pakistan through their idea of creating incubation centers at universities all over Pakistan where Enablers' Amazon and E-Commerce experts will share their knowledge and experience with students.
- The Department of Management Sciences, CUI, Wah campus signed an MoU with Gloria Jeans Coffees, New-City, Wah Cantt Branch for strengthening academia industry collaboration on November 5, 2020.
- CUI Wah campus signed an MoU with the National Electronics Complex of Pakistan (NECOP) on April 21, 2021. Under the agreement CUI and NECOP agreed to carry out research cooperation, student's internships, and mutual transfer of technical knowledge with the aim of capacity building.

Visit to Kohinoor Textile Mills

Dr. Toqeer Ahmed, Assistant Professor, CCRD organized the visit under the Industry Academia Linkage program for research students along with their supervisor, Dr. Safia Zahid, Assistant Professor, Department of Chemistry, Islamabad Campus to Kohinoor Textile Mills Limited (KTML), Rawalpindi on February 16, 2021.

World Water Day 2021

CCRD, CUI was invited to World Water Day 2021



which was held on March 15, 2021 in Pakistan Council of Research in Water Resources, (PCRWR) Islamabad. PCRWR planned this event in collaboration with United Nations Educational, Scientific and Cultural Organization (UNESCO), Islamabad, Australian Centre for International Agricultural Research (ACIAR), The Asia Foundation (TAF), Islamabad and International Centre for Integrated Mountain Development (ICIMOD), Technology Times and RIPHAH Public Policy Institute.

Business Incubation Center / Student Startup Business Centre (SSBC)

Entrepreneurship and innovation are viewed as key contributors to global economic and social development of a country. University-based entrepreneurship ecosystems provide a supportive context in which entrepreneurship and innovation can thrive.

At CUI, the Student Startup Business Centre (SSBC) has been established with support of the Higher Education Commission of Pakistan, and the Promotion of Education in Pakistan Foundation, Inc. (USA). The goal of the program is promotion of talented students' entrepreneurship and enhancing their practical learning experience at the Institute. The overarching objective of the Centre is to promote student startup businesses by offering necessary support both in the form of mentoring and initial financial resources through its Startup Entrepreneurship Fund. The SSBC provides a continuous stream of student-led businesses and

innovations at CUI.

Startups

The existence of SSBC within the University ensures that after graduation, students with entrepreneurial zeal and zest take on bold strides in their practical life, backed by knowledge and experience. The goal is to have CUI graduates become valuable members of society who contribute positively towards the knowledge economy. The SSBC provides a continuous stream of student-led businesses and innovations at CUI. It provides a way to bridge students' academic learning with practical implementation of acquired skills in industrial settings. As per SSBC statutes, awareness sessions for the registration of business ideas are conducted every semester:

Islamabad Campus:

- Student Startup Business Center organized a 'Networking Workshop' for Startups on 16th February, 2021. The purpose of this workshop was to develop networking among the Startups.
- The SSBC arranged Investor Connect for student startups on February 22, 2021 where Mr. Mamoon Ismail Khalid from Venture Capital Firm "Rokk3r", New York, USA delivered a lecture.
- SSBC opened enrollment of student startups for Batch-9 in March 2021 where 27 students have submitted their business ideas/FYP.
- During the reporting period, 02 startups were enrolled at Islamabad campus.

SSBC- CUI List of Startups (Year wise)

Sr. No	Company Name	No. of Employees	Incubation Year	Email Address
1	Musafyr.pk	3	2021	abubakarakmal@hotmail.com
2	Al Care	5	2021	rohail.mehmood@comsats.edu.pk

Abbottabad Campus:

- Student Startup Business Centre (SSBC) facilitated the 'Pakistan-China Friendship Tree plantation campaign 2020' on September 11, 2020. Syed Ali Nawaz Gilani Secretary General PCFA, Muhammad Bilal Chairman PDF, Ms. Absaria Talat Lodhi, Dr. Syed Afzal Moshadi, Dr. Ikram Shah, Dr. Abda Khalid and other faculty members participated in the ceremony to plant the saplings.
- SSBC organised a one-day seminar on "Online based small business opportunities" in collaboration with SMEDA KP on September 22, 2020.
- SSBC co-organized a national level female-lead entrepreneurial webinar called "She Loves Tech 2020" held on Sep 27, 2020 where Dr. Syed Afzal Moshadi, In-Charge SSBC, CUI, served as a Judge in the event.
- Dr. Syed Afzal Moshadi, In-Charge SSBC Abbottabad, CUI presented a research paper and acted as a Session Chair in 27th "International Vincentian Business Ethics Conference (IVBEC) hosted by Niagara University, USA from October 23–25, 2020.
- Dr. Syed Afzal Moshadi Shah, In-Charge SSBC Abbottabad, participated as a panelist in "USAID Round Table Meeting" of specialists on "Suggestion in Policy Making for KP Digital Policy" on December 3, 2020.
- SSBC, Abbottabad campus participated as an incubator partner in 'International Start-up League (ISL) from January 13-20, 2021 organized by Business Incubation Center, Bahria University Karachi Campus, Business Incubation Center (BIC-BUKC) and Karachi University, Business Incubation center (KU-BIC).
- Dr. Syed Afzal Moshadi, Incharge (SSBC) Abbottabad and Dr. Faisal Khan (EE) have earned KP Incubation and Entrepreneurship Development Outreach (KIEDO) for five

entrepreneurial projects from COMSATS on January 22, 2021.



Approved Projects:

- Design of Permanent Magnet Vernier Generator for Wind Turbine System
- IOT based Facial recognition smart glasses (for visually challenged person)
- Real Time Automatic Attendance System using Software Defined Network
- Solar Powered Automatic Irrigation System
- Develop a Throttle Based Electric Bicycle System

Salient Features of the Grant:

Team:

- Each selected project will get a grant of up to PKR 50,000/- during the life of the project.
- **Supervisor:**
- For each successful project that reaches its final stage, the supervisor will be paid up to PKR 6,000 per project.

The team will get a certificate of participation from NEEF and US Consulate Peshawar.

- During the reporting period, three of CUI student startups (Kawish, Argentuais, Wisetribе) won their



place in Durshal Abbottabad in February 2021.

- A representative from Asian Disaster Preparedness Center (ADPC), Bangkok interviewed Dr. Syed Afzal Moshadi Shah, In-Charge SSBC, to learn about his views on policy recommendations on Business Continuity Planning (BCP) for Pakistan on February 25, 2021. ADPC aims to compile a country wise policy recommendation and plans to add this to their booklet under the Pakistan section.
- Pakistan Innovation Roadshow 2021 was organized in collaboration with SSBC, Department of Computer Sciences and Ejab Labs on March 02, 2021. Following leading experts shared the valuable experience and conducted training sessions:
 - Osman Nasir, MD PSEB - Pakistan Software Export Board
 - Dr. Sahibzada Ali Mahmud, MD KPITB - Khyber Pakhtunkhwa IT Board
 - Ammar Jaffri sb – Founder of E-Pakistan
 - Rehan Allahwala- CEO Super Technologies
 - Abbas Saleem Khan - CEO Optera Digital
 - Arzish Azam, CEO Ejad Labs / Country Manager Startup Grind Pakistan and others.
 - All major IT firms of Abbottabad.
- SSBC initiated an on campus awareness campaign for students of CUI, Abbottabad campus on March 10, 2021.
- Dr. Syed Afzal Moshadi, In charge, SSBC Abbottabad, CUI has earned a "research collaboration" with Universiti Sains Malaysia on funded project for an estimated budget of RM57,200 (2million Pak Rupees) on April 13, 2021.
- SSBC organized an awareness session on Islamic "SME's /Mera Ghar Mera Pakistan" on June 14, 2021. 100 students joined the session from BBA finance along with faculty members.



Sahiwal Campus:

- The Department of Mechanical Engineering arranged an industrial study tour to Fazal Industries for the students to enhance their exposure regarding industries on March 17, 2021.

Vehari Campus:

- During the reporting period, EYETEE studio's team leader Mr. Faisal Jabbar shared the vision and project details with SSBC where they offered funds, grants and Qarz-e-husna scheme to participants. Mr. Khalid Mahmood, Incharge SSBC, CUI, Vehari Campus extended the gratitude to president COCI for his patronage and concern for students. The management committee members appreciated that the EYETEE Studio is offering internship opportunities to campus students.

Wah Campus:

- The Student Startup Business Center (SSBC), CUI Wah Campus organized a webinar titled "What, Why and How of Entrepreneurship" on August 12, 2021. In the first session, Dr. Muhammad Sohail Khan, Lecturer, Department of Management Sciences /In-charge SSBC, introduces Student Start-up Business Center inception, its role in providing support to talented students to become an entrepreneur and to

enhance their practical learning experience at the center. In the second session, Dr. Syed Afzal Moshadi, Assistant Professor/Head, SSBC from CUI, Abbottabad Campus discussed the importance of developing an entrepreneurial culture for bringing social change and driving innovation.

CUBATOR-1ne

Cubator-1 is the first business incubator of CUI, offering a conducive environment for faculty and students to start their own businesses based on

knowledge and innovations. Cubator-1ne has the capacity to incubate over 40 firms in 36,000 sq ft available space. Currently Cubator-1ne is hosting 3 businesses, out of which 2 belong to CUI students and 1 faculty member. At present, 72 Cubator-1 graduated companies are working in the open market of the twin cities Rawalpindi and Islamabad. For the financial year 2020-21, economic footprint of CUI Incubation Companies was PKR 150 Million along with 300 jobs and 200 paid internship opportunities were created by CUI Incubated Companies.

Cubator-1ne Present Companies (September 2020-August 2021)

Sr. No	Name of the Company	Starting Date
1	Ineffable Tech Solution	October, 2020
2	Tech Fambzzhh	October, 2021
3	101 Marketing	October, 2020

Cubator-1ne Present Companies (September 2020-August 2021)

Sr. No	Name of the Company	Starting Date
1	Cortex Technology	December, 2020
2	Waaiz Tech	December, 2020
3	Visual Computing Technology	December, 2020
4	SOFT	December, 2020
5	SIA Education Hub	December, 2020
6	Fambzzhh	December, 2020
7	Talha Saif Enterprises	December, 2020
8	House of Technology	December, 2020
9	Wanclouds	December, 2020
10	Infinity Bits	December, 2020
11	E-Tiding	December, 2020
12	Pretechx IT Solutions	December, 2020
13	SOL Consulting	December, 2020
14	GIGI Tribe (Pvt) Ltd.	December, 2020
15	Prosant	December, 2020



R&D Lab Achievements

Research & Development (R&D) Laboratory is one of the exclusive units of COMSATS University Islamabad (CUI), working under the patronage of Office of Research, Innovation & Commercialization (ORIC). R&D Lab serves in-house entrepreneurs, faculty, students, and industry. R&D Lab offers its services in Electrical/Electronic System design and integration and working in Embedded System Design, IoT, PCB design and fabrication, etc. It also offers its services in Mechanical System Designing with in-house facilities of Lathe Machines, Welding Machines, 3D-Printing, etc.



Electronic Voting Machine

The Prime Minister, Islamic Republic of Pakistan, Imran Khan was presented with the COMSATS Electronic Voting Machine on March 31, 2021, at Banigala. The machine, developed by CUI for the Election Commission of Pakistan, was presented by Mr. Ahsan Malik, Head R&D Lab COMSATS University Islamabad. The e-voting will use a standalone electronic voting machine (also called the EVM), which will enclose the use of a wide range of Internet Services, from basic transmission of the result to a fully functioning online voting. The vote can be cast using common electronic devices. The system is built as such to create a comprehensive voting system, which will ensure regulatory bodies of security, accuracy, privacy, cost-effectiveness and sustainability.

Internship and Placement Office:

Besides providing the students with quality

education and learning experience, CUI also helps the alumni in exploring various job opportunities and making effective career choices. For this purpose, internship and placement offices have been established at all CUI campuses. These offices assist in personal and professional development of students/alumni. During the reporting period, the Departmental committee and society (TechGATEWAY) in cooperation with CUI arranged internships for the students of Electrical and Computer Engineering, CUI Abbottabad Campus in LEAN Automation, IT Park, NRTC, Huawei and in various engineering solution provider firms.

CUI Attock Campus also keeps a continuous liaison with industries to provide its students with job and internship opportunities. Following were the industries, contacted during Fall 2020- Spring 2021:

- Fauji Fertilizers Company Limited, Mr. Shahid Bashir, Executive HR;
- Heavy Electrical Complex (Pvt). Ltd, Mr. Naimat Ullah Khan, Manager HR;
- Heavy Mechanical Complex Ltd, Mr. Fahim Rasool, Head HR;
- Askari Cement Limited, Mr. Syed Nayyer Abbas Zaidi, DGM HR;
- ePatronus IT Solutions, Mr. Nauman Khurram Manager HR;
- xFlow Research, Ms. Tayyaba, Manager HR;
- CyberVision International, Ms. Hozaima Shafqat, Project Manager;
- A.F. Ferguson & Company, Ms. Nazish Asim, Senior Manager HR;
- Systems Ltd, Mr. Mubashir Altaf, Head Talent Manager and OD;
- Ufone, Ms. Sana Hassan, Manager Internal Communications and Employer Branding;
- Neuron Solutions, Dr. Mohsin Zahid, CEO

Students from different departments appeared in the interview sessions of these organizations. Many



students have successfully completed their internships as well.

The Department of Electrical & Computer Engineering, CUI Wah campus nominated more than 50 students for Internship in Spring 2021 in reputed organizations like Pakistan Commission for Renewable Energy Technologies (PCRET), National Institute of Electronics (NIE), Pakistan Ordnance Factories (POF), Heavy Mechanical Complex (HMC) etc.

Students of 3rd year and 4th year of CUI Sahiwal campus were recommended under the guidance of the Departmental ILC Committee in different national industries for summer internships. The letters were issued to the students especially the students of mechanical engineering for placement in local industry. The following table shows the placement of different students of CUI Sahiwal campus in various industries during the year 2020 – 2021. Due to COVID-19 pandemic, few industries allowed internships for students.

S. No.	Student Name	Registration Number	Placement
1	Anas Ahmad	FA18-BME-104	Nishat chunian power LTD
2	Hafiz Mubashir Adnan	FA18-BME-009	Pepsi Islamabad and Nestle Kabirwala
3	Asad Tahseen	FA18-BME-111	NRTC, Honda
4	Ali Asghar	FA18-BME-093	Haier Pakistan Lahore
5	Muqadas Mumtaz	FA18-BME-069	Saif Power Plant
6	Muhammad Ahmad	FA18-BME-013	Packages Lahore
7	Muhammad Ahmad	FA18-BME-013	Packages Lahore
8	NASRULLAH SARDAR	FA18-BME-066	ICE-AGE industries (Pvt.)Ltd.
9	Aruha	FA18-BME-005	Master Tiles
10	Maha Khan	FA18-BME-067	Saif Power Plant
11	Muhammad Bilal Tanveer	FA18-BME-016	Century Paper and Board Mill
12	Muhammad Haris Shahzad	FA18-BME-020	Nishat Emporium Mall
13	Usman Kamal	FA18-BME-048	MG Motors
14	Shahzaib Arshad	FA18-BME-080	GENCO
15	Akif Dilshad	FA18-BME-092	Millat Tractor limited
16	Abu Zar	FA18-BME-056	MILLAT TRACTOR LIMITED
17	Muhammad Talha	FA18-BME-064	Fatima Fert Company LTD.
18	Ahmed Abdul Aroof	FA18-BME-004	Millat Tractors Limited
19	Ahmed Latif	FA18-BME-062	Millat Tractor Limited
20	Maha Khan	FA18-BME-067	Saif Power Plant
21	M. Soman Imran	FA18-BME-029	Hyundai Nishat
22	M. Umer Shafiq	FA18-BME-032	Century Paper and Board Mill



Recruitment Drives

- Virtual recruitment drives of following organizations were held for CUI, Islamabad graduates during the reporting period:
 - Active media
 - Alachisoft
 - Arkhitech
 - Avanceon Ltd
 - Cogilent Solutions Pvt Ltd
 - Conzept HR Consultant
 - Cybernet
 - Devspot Pvt Ltd.
 - InfinityBits
 - Jin Technologies
 - LMKT (Pvt) Ltd.
 - MCB Islamic Bank Ltd.
 - MTBC PVT (LTD)
 - NETSOL Technologies
 - OneByte
 - Pepsi Haideri Beverages PVT LTD
 - PTCL Group (PTCL & Ufone)
 - Serene Air Pvt Ltd
 - Sybrid (Private) Limited

Career Expo(s)

The Department of Computer Science, Islamabad Campus organized a Virtual Career Expo on August 15, 2020, despite the financial crunch period for industry and Covid-19 pandemic.

- Conducted CV building and Career Counseling sessions
- 50 top projects displayed in Expo
- 10 Judges from Top industry like Arbisoft, Mercurial Minds, Metis etc
- Developed Online portal for project exhibition.

- Total 34 companies participated in the hiring process and interviews
- 70% of graduating students have been placed or are being placed.

Career Development Centre, Islamabad along with the collaboration of all the academic Departments of Islamabad campus organized a Virtual Careers Expo held during February 23-24, 2021. 65 organizations participated in the Expo.

Job Fair

The Career Development Center (CDC), CUI Wah Campus, organized a virtual Open House & Job Fair - Spring 2021 event on July 15 – 16, 2021. A total of 114 final year projects were exhibited online by the undergraduate students of Electrical & Computer Engineering, Civil Engineering and Computer Science Departments.

Student Counselling and Career Guidance:-

Student Counselling and Guidance Center operates regularly and indulges with students regarding student counselling and guidance activities. It covers activities like social media ethics, harassment (all types), academic activities (GPA calculation, course drop, course withdrawal). Students are facilitated through a one window operation in the student affairs office where a professional team including staff and interns are available to resolve student issues. Designated teams from student affairs visit the classrooms in consultation with HODs and brief students regarding these activities at least twice a semester.

Webinar on the topic of “Utilization and Indigenization of Hydro-Power as Renewable Energy Source”

Alumni of the Department of Mechanical Engineering Department, ASME (American Society of Mechanical Engineers) CUI, Sahiwal campus arranged a webinar titled “Utilization and Indigenization of Hydro-Power as Renewable Energy Source in Pakistan” on October 27, 2020.

Seminar for new Intake of students

ASME CUI Sahiwal chapter arranged an introductory Seminar for the new Intake of students under the banner of Department of Mechanical Engineering CUI Sahiwal Campus on November 11, 2020. The agenda was introducing ASME CUI Sahiwal, previous achievements along with future goals for this semester.

Webinar on "Artificial Intelligence and Machine Learning"

ASHRAE Society of Department of Mechanical Engineering, CUI, Sahiwal Campus organized a webinar on "Artificial Intelligence and Machine Learning" on November 17, 2020.

Webinar on "E-Commerce and Digital Marketing"

Event Management Committee organized a Webinar on "E-Commerce and Digital Marketing" on January 04, 2021. The webinar was conducted by Mr. Haider Ahmed Qazi and the students of Department of Management Sciences actively participated in the webinar.

Webinar on how to secure an International Scholarship

A webinar session titled "How to Secure an International Scholarship" was jointly organized by the Department of Management Sciences, CUI, Lahore Campus and Department of Food Sciences and Human Nutrition, UVAS Lahore on January 15, 2021.

Seminar on ISQ Examination

A seminar of ISQ examination by IBP, for the benefit of prospective students was organized in collaboration with the External Linkages Committee on February 24, 2021, at CUI, Lahore Campus. Ms Fozia Karamat was the resource person by IBP and Dr Ammar Abid gave his kind input as he is already JAIBP qualified and has a vast experience of banking field.

Workshop on the Importance of communication skills in professional life

COMSATS Management Club, CUI, Lahore Campus organized a workshop titled "Importance of Communication Skills in Professional Life" by Mr.

Rizwan Sarwar, the CEO of Geeks Media Agency and Pak Residence on February 25, 2021.



Workshop titled "Getting Ready for the Job Market"

The Event Management Committee, CUI, Lahore Campus organized a workshop titled "Getting Ready for the Job Market" where Mr. Saad Hassan, ACA Certified Trainer and Management Consultancy was invited as a speaker on 6th March, 2021. The students of Department of Management Sciences actively participated in the workshop.

Webinar on "How to Conduct Market Research for Startups"

A webinar was arranged by Dr. Ali Iftikhar Chaudhry, Lecturer, CUI, Lahore Campus titled "How to Conduct Market Research for Startups" on May 21, 2021. Mr. Khizer Inayat, LUMS/NIC Mentor for Sales and Marketing conducted the webinar.

Career Choices in Local Job Market

The Department of Computer Science, Islamabad campus organized the seminar on May 25, 2021. It was a career counseling session designed for the 4th year students of CS. The main focus of the seminar was Entrepreneurial options, Future Job Trends, CV Building and Interview handling

Webinar on "Basic Financials for Startups"

Dr. Ali Iftikhar Chaudhry, Lecturer, CUI, Lahore



campus arranged a seminar on “Basic Financials for Startups” on June 04, 2021. Dr. Arslan Qayyum, Assistant Professor, IOBM Karachi conducted the webinar at CUI, Lahore campus.

Workshop on “Soft Skills Development”

A one-day Workshop on “Soft Skills Development” was organized by the Career Development Cell (CDC), Department of Management Sciences, CUI Vehari Campus, on June 16, 2021

Seminar on “Career Opportunities in Computer Science”

A seminar was organized at Islamabad Campus on “Career opportunities in Computer Science” in order to present the opportunities in the online world and in the local market. The speakers were M. Tanveer Nandla, Chief Executive Officer at iSkills who talked on Online career opportunities and freelancing and Mr. Rasid Mukhtar, Assistant Professor, CS Department, Islamabad campus, who lectured on Pursuing futuristic careers in Computer Science.

Activities Organized by the Career Development Center for Fall 2020:

- “Plant for Pakistan” plantation drive was held on August 14, 2020 where around 1000 small Jacaranda trees were planted, at Kachnar Park, I-8, in collaboration with Capital Development Authority, Islamabad.
- Get hired 2020 – a virtual career fair in collaboration with PWIC was organized on October 02, 2020.
- “Breast cancer awareness” was organized by Dr. Farha Fezan on October 11, 2020.
- “Handling trauma after sexual abuse” was organized on October 31, 2020, by Ms. Alishba Wazahat.
- “Entrepreneurial Woman: Opportunities and Difficulties” was organized on November 18, 2020, by Ms. Mariam Chaudhry.
- Mehfil - e mushaira was organized on November 22, 2020, by famous poets, Mr. Azhar Faragh, Mr.

Umair Najmi, Mr. Meesam Ali Agha and Mr. Wasi Shah.

- A session by senior alumni, Mr. Muhammad Luqman, Pathway to robotics was organized on November 23, 2020.
- BAZM - E - ADAB was organized on November 28, 2020.
- A session on Art of writing was organized on December 08, 2020, by Mr. Danial Qureshi.
- A session on “The Logo Design Process” was organized on December 10, 2020, by Mr. Sarmad Hashmi.
- A session on “High Performance Computing” was organized on December 21, 2020, by Mr. Hamza Asif.

Activities Organized by the Career Development Center for Spring 2021

- “Green Pakistan” plantation drive was held on August 13, 2021. Around 1000 small trees, mostly fruit species, including Jacaranda, Apricot, Plum and Oranges were planted, at Islamabad Model College for Boys H-9, Islamabad, in collaboration with the Federal Directorate of Education.
- COMSATS Virtual Careers Expo for Spring 2021 was held on August 18-19, 2021, where 70 organizations participated in the Expo.
- Virtual recruitment drives of following organizations were held for CUI, Islamabad graduates. Abacus Global
 - AKSA-SDS Pvt Ltd
 - Alachisoft
 - APIMatic
 - Arkhitech
 - Avanceon
 - DevNation
 - FingTap Solutions

- Folio3
- Funavry Technologies Pvt Ltd
- ICI Pakistan Limited
- Infinity Engineering Pvt. ITD
- KeepTruckin
- Kohinoor Textile Mills
- LearnOBots (Pvt) Ltd.
- MTBC PVT (LTD)
- MicroAgility Services (Pvt.) Limited
- Mudzi's Coffees Inc.
- NAYATEL
- Onescreen
- Pepsi Haideri Beverages Pvt. Ltd.
- PTCL Group (PTCL & Ufone)
- StEPS - Solution to Enhance Professional Skills
- Sybrid (Private) Limited
- Tangent Technologies Pvt Ltd
- Times Consultant
- Uforia Infotech Solutions
- West Sparrow
- Xpert Technologies

CDC Organized following virtual events in collaboration with IDEA Students Society in Spring 2021:

- A session on UGRAD – Fully Funded Semester in USA was organized on April 10, 2021, by Ms. Maria Akbar.
- A session on Design workshop was organized on April 18, 2021, by Mr. Usman Fiaz.
- PCB design workshop, on April 21, 2021 was organized by CUI alumnus, Muhammad Saif Ul Islam.
- A session on eloquence – The art of Public

Speaking, on April 24, 2021 was organized by Mr. Danish Mehmood.

- A session was organized by Mr. Wajahat Rauf on 'The Art of Filmmaking'– on April 26, 2021 .
- A session for “Knowing Allah through fasting” on April 27, 2021 was organized by Mr. Muhammad Ali.
- A session was organized for 'The artistic mind, talent and passion', on May 01, 2021, by Mr. Yousaf Bashir Qureshi.
- A session 'Studying and Settling in Germany' was organized on May 23, 2021, by Mr. Muneeb Rana, Ms. Manal Malik, Mr. Ali Azmat and Mr. Tahir Mehmood.
- Session organized on “Digital Marketing – Level up Your Skills, on May 23, 2021 by Mr. Ehtisham Majeed.
- A Session was organized on “First Aid – Things to Remember, on June 04, 2021 .
- A session was organized titled “Special Education– ABA Therapy, on June 05, 2021, by Fizza Farooqi.
- Session organized by Mr. Kashan Awais titled 'Embracing Lean Six Sigma' as Organizational competitive advantage on June 12, 2021 .







Chapter 07:
Strengthening Physical
Infrastructure



Development Projects

The Public Sector Development Program (PSDP) is the main instrument for providing budgetary resources for the development projects/ programs of CUI campuses namely Islamabad, Abbottabad, Wah, Lahore, Attock, Sahiwal, and Vehari. Until the end of Financial Year 2020-21, CUI has successfully completed 49 projects with a capital cost of Rs. 8853.592 Million. (Annex-B)

Infrastructure Development Projects on Public Private Partnership

The CUI being a public sector university recognizes the importance of expanding infrastructure for better service delivery to its students. Considering the scarcity of development funding in view of competing demands on PSDP, the CUI explored prospects of Public Private Partnership (PPP), in building physical infrastructure for the university. Two projects were offered to the private sector on a Built, Operate and Transfer (BOT) basis. The projects are:

i) Student Service Center, COMSATS University Islamabad, Islamabad Campus

Need was felt that the CUI, Islamabad Campus requires a fully functional Student Service Center (SSC) consisting of Cafeterias for faculty and students, tuck shops, photocopy corners, etc. The Student Service Center has a covered area of 35,000 sq ft has been constructed on a Built, Operate and Transfer basis. The concession period is 25 years. The concessionaire is required to maintain a high standard of service delivery during

the concession period under the terms of agreement. The property will be handed over to CUI in good order upon completion of the concession period. The building is completed and operations are scheduled to start in the Fall 2021 academic session.

Establishment of 300 KW Solar Power Plant, COMSATS University Islamabad, Sahiwal Campus

The CUI encourages use of renewable energy sources. To carry this initiative forward, a pre-feasibility study was conducted to evaluate electricity consumption and the potential available for installation of solar power generation facilities at CUI campuses. Taking up the initiative, a Power Purchase Agreement was signed with a private partner to establish a 300-Kilowatt Solar Power Generation Facility on BOT basis at CUI, Sahiwal Campus in October, 2020. The concession period is 20 years. Under the said Agreement, the seller will supply electricity on a levelized tariff of Rs. 11.06 per unit of electricity for the period of 20 Years. During the Concession period, the plant is expected to generate more than 8 Million units of low-cost and clean electricity. Moreover, the plant in its life cycle of 20 years would save CO₂ emission of approx. 5,266 Tons. Generally, one grown tree absorbs 24 kg of CO₂ annually. Thus, the emission saved from the power plant would be equivalent to planting 10,970 full-grown trees in one year. The successful implementation of this model shall be replicated at other campuses for low cost and clean energy sources.





Physical Infrastructure

Campus	Islamabad	Abbottabad	Wah	Lahore	Attock	Sahiwal	Vehari
Location	<p>Established in 2001 at H-8, Islamabad. Shifted to a permanent newly built campus in 2008 in Chak Shahzad which is fully equipped with facilities of international standards spread over 42.7 acres.</p>	<p>Established in 2001 in the vicinity of Pakistan Military Academy, Kakul and built on 38.5 acres of land donated by the Pakistan Army at Tobe Camp. Land in Dhamtour purchased in August 2012, Academic block-I constructed over 50,000 square feet in June 2017. Academic Block-II of 50,000 square feet is in tender process. Classes for “Kamyab Jawan Skills Development Program” are being conducted in Dhamtour Campus.</p>	<p>Established in 2001 CUI Wah is housed in a spacious building equipped with state-of-the-art facilities spread over 15.5 Acres.</p>	<p>Established in January 2002. Located on Defence Road, Off Raiwind Road, Lahore, 30 minutes' drive from the main city. Spread over an area of 185 acres.</p>	<p>Established in 2004 on 41.5 acres of land for the purpose of providing quality education to the students of far flung and underdeveloped areas with state-of-the-art lab facilities. The construction of the permanent campus spread over 37.5 acres, is in progress now. 04 academic departments i.e. Electrical Engineering, Computer Science, Mathematics and Management Sciences are already operational at the permanent campus.</p>	<p>Established in 2006 located on COMSATS Road off G.T Road Sahiwal for the purpose of providing quality education to the students of far flung and underdeveloped areas with a vibrant educational institution in Sahiwal. The construction of the permanent campus is spread over 36 acres. Three blocks along with the workshop building are completed at this location. Academic departments i.e. The Management Sciences, Computer</p>	<p>Established in 2008 initially as a temporary campus. The land allocated for the permanent Vehari campus is at two different places. Currently, the permanent campus is established at one location and is spread over 52 acres. Three blocks are completed at this location and located on Near Peer Murad Adda Multan Road Excellent sport facilities with 03 Playgrounds, fully furnished hostel girls and faculty.</p>



Campus	Islamabad	Abbottabad	Wah	Lahore	Attock	Sahiwal	Vehari
Location						Science, Bio Sciences, Mathematics, Civil Engineering, Electrical and Computer Engineering, and Mechanical Engineering department are already operational and functional at the campus.	
Classrooms	83	57	64	65	23	46	31
Laboratories	83	79 (1x Cisco Lab)	88	86	19	35	14
Library Holdings	61,332 books, 90 journals	38,261 books, 25 Journals	25,000 books, 24 Journals	35,547 Books, 88 Journals/ Magazines and Inter Library Loan	11026 books 10 journals/ Magazines	14,500 Books, 7 Journals/ Magazines, 6 Newspapers	10,500 Books, 1000 Cds, 08 Journals/ Magazines
Hostel Facility for students		858 (678 male and 180 female)	180 (150 male and 30 female)	384 Females	95 (44 male student, 31 female and 20 Faculty)	408 (315 male & 93 female)	55 females including 10 female faculty
Digital Library	32,000 Online Journals & 70,000 Books						



Campus	Islamabad	Abbottabad	Wah	Lahore	Attock	Sahiwal	Vehari
Services	<p>Video Conferencing Facility, Wi-Fi Facility, Common room for Girls, Cafeteria, Mosque, International Library Loan, Career Development Center, Sports and Extra-curricular Societies</p>	<p>Internet Services, Wi-Fi Facility, Web Hosting, Video Conferencing Facility, Office 365 Cloud Services, Microsoft Teams, OneDrive, Software Development, High Performance Computing, Equipment Repair and Management, Multimedia in Classrooms/Labs, IT Trainings, Cisco Academy, CCTV Services, CU online, RFID Services, Common room for Girls, Cafeteria, Student Service Center, Mosques (for</p>	<p>Video Conferencing Facility, Wi-Fi Facility, VPN services, Common Room for Girls, Cafeteria, Mosque, Library, Career Development Center, Medical Center, SSBC, ILO, Online Clearance, Study Hall, Day Care Center, Photocopier shop and Sports & Extra-curricular Societies</p>	<p>Campus wide WI-Fi Coverage, 18 Sport Grounds/Courts, Cricket stadium, Mosque, Health Center, IT Helpdesk, Video Conferencing, VPN, Online Student Facilitation Service, Online Personal and Shared Drive, Microsoft Licensing Network and Multimedia in Classrooms, Common room for Girls, Inter Library Loan, Sports and Extra-curricular Societies, Career development Center</p>	<p>Student Facilitation System (SFS) An IT based online query management software, especially designed for facilitating students to; Upload query/problem relevant to registration, accounts, examination etc. Obtain information about policies, rules and procedures Check status of their application/query/problem already submitted Cafeteria State of the art Cafeteria facility is available to provide a wide range of quality and hygienic food to the students, staff and</p>	<p>Video Conferencing Facility, Wi-Fi Facility, Common room for Girls, Cafeteria, Mosque, International Library Loan, Career Development Center, Sports and Extra-curricular Societies</p>	<p>Video Conferencing Facility, Wi-Fi Facility, Common room for Girls, Cafeteria, Mosque, International Library Loan, Career Development Center, Sports and Extra-curricular Societies, Transport pick & drop, More than 300 computers for students and faculty,</p>



Campus	Islamabad	Abbottabad	Wah	Lahore	Attock	Sahiwal	Vehari
Services		Male and Female separately), Office of Development , SSBC, Sports and Extra-curricular Societies			<p>visitors.</p> <p>Mosque The campus has a beautifully designed spacious mosque for the community and visitors to offer their daily prayers as well as Jumma prayer.</p> <p>Sports and Extra-curricular Societies: Sports Playing Grounds: Cricket, and Football Playing Courts: Badminton, Volleyball, Basketball Fitness Center</p> <p>Extra-Curricular Societies Various societies, clubs, debates and a lot of entertainment and fun</p>		



Campus	Islamabad	Abbottabad	Wah	Lahore	Attock	Sahiwal	Vehari
Services					<p>during Student Week (biannually) and Job Fairs are organized/celebrated to groom the personalities of the students.</p> <p>Teaching Aid Services (TAS) TAS provides the following technical support/services under the Information Technology Services: Video Conferencing, Network and Classroom Services (NCS), Classroom Equipment Help Desk, Smart Classroom Faculty Orientation and Training, Wireless Microphones in Classrooms,</p>		



Campus	Islamabad	Abbottabad	Wah	Lahore	Attock	Sahiwal	Vehari
Services					Indoor and Outdoor Events Management , Multimedia Technologies Miscellaneous Facilities: Common room for Girls, Students Online Clearance, CU-Online Portal, Career Development Center, Software Shared Portal, Personal Drive and Shared Drive, Microsoft Licensing and Multimedia services in Classrooms, IT Helpdesk Service, Wi-Fi Facility, VPN Service, Computer Logon and Email Service		

Virtual Campus Infrastructure

The infrastructure of Virtual Campus during the reporting period is given below:

Details	Information
Total Area of CIIT Virtual Campus Islamabad	Approx. 75 X 46 in Sq. ft
Total Covered Area	Approx. 3450 in sq. ft.
No. of Labs	Hybrid Learning Lab: 01
No. of Computers in labs (Recording /Publishing/ Editing)	05
No. of Desktops Computers For Faculty And Staff	72
Laptops	22
Digital Courseware in Online/Offline Archive	12 Degree Programs
Courses Created/Available to Date	231
Approx. Size of Digital Intellectual Content (Video Lectures, Textual Academic Material)	Over 10000 Gigabyte
Soft Copy Material	Online Video Lectures Archive 7392 (lib.vcomsats.edu.pk)
Transport Facility	04, Cars 01, Van 800 cc 01, Motor Bikes 70 cc 02
Total No. of Courses offered through Hybrid Learning	4
Total No. of Students Registered in Hybrid Learning Course	17,965
Total No. of CUI's Campuses offering the Hybrid Learning	7
Total Number of Moderators	Total: 61, Virtual Campus Moderators: 26 Other Campus' Moderators: 35



Construction Projects

The manifestation of quality education being provided at COMSATS University Islamabad (CUI) is evident from the ever-increasing enrollment of the university. This increase, demands simultaneous augmentation in physical infrastructure and other allied academic facilities. For Financial Year 2020-21, CUI was allocated Rs 267.698 Million for three (3) development projects. During the said period, Rs 229.230 Million were released. The complete list of all on-going projects is given in **Annexure C**.





Chapter 08:
Strengthening Technological
Infrastructure



Digital Library/ Junaid Zaidi Library

The COMSATS University Islamabad Library, located at the heart of Islamabad campus is a center of learning and known as 'Junaid Zaidi Library'. The management of the Library is doing its best to provide updated resources, innovative services and exceptional facilities to the educational community of CUI and making sure that student, academic staff and researchers find themselves in a modern library.

The overall objective of the Junaid Zaidi Library is to select, organize, and maintain print and electronic resources that support the curriculum and information needs of CUI academic community. It aims to provide convenient access to quality information resources, and an environment that encourages study and personal growth.

Junaid Zaidi Library's colorful interior and innovative furniture provide a refreshing and rejoicing environment, which attracts users and compels them to spend time and study in a relaxing and conducive environment. Research cubicles, study carrels and discussion rooms provide an excellent environment for individual and group study. The Junaid Zaidi Library is equipped with most modern technologies like Integrated Library System (ILS), RFID System, Self Check in/out System, Drop Box System and Library Management System.

At present **print collection** of Junaid Zaidi Library consists of 61,332 books, 04 periodicals/magazines and 02 newspapers. Whereas, print collection across the CUI system libraries consists of approximately 200,000 books and over 70 periodicals/magazines. The detail of different kinds of electronic and digital resources is given below:

Journal Databases: Junaid Zaidi Library is providing access to more than 23,000 high quality, peer-reviewed journals, databases, and articles through HEC's Digital Library program through http://ww3.comsats.edu.pk/library/HEC_Digital_Library.aspx and <https://ciit.insignails.com/Library/Home>

Students and faculty can access these resources from inside and outside the campus through IP

address and Virtual Private Network (VPN) respectively.

Open Access E-Books: HEC National Digital Library is also providing links for open access e-books and may be accessed through <http://www.digitallibrary.edu.pk/OAEBooks.html>



Free Online Public Access Journals: Library provides a unique facility by collecting and organizing the scattered, free, full text, quality controlled scientific, scholarly and peer-reviewed journals and at present, more than 500 scholarly journals are available. <http://ww3.comsats.edu.pk/journals/>

CUI Thesis Repository: CUI community produces massive amounts of research each year in the form of theses, dissertations, and project reports. At present more than 10000 research works is available in CUI (Islamabad Campus) library and their information is accessible at the link <http://ww3.comsats.edu.pk/thesis/>

CUI Union Catalogue: Union Catalogue contains records of all CUI libraries holdings and allows the users to search entire CUI libraries at once by the link <https://ciit.insignails.com/Library/Home>

Library Website: Library website is another helping tool for their users to access main resources, guidelines and required information i.e. <http://ww3.comsats.edu.pk/library/>

In addition, the Junaid Zaidi Library is providing high-quality services to the educational community of CUI and few of them are as below:

- a) Canadian based Integrated Library Management System, Insignia
- b) Online Public Access Catalogue (OPAC)
- c) Mobile App Services
- d) Personalized Library Services
- e) Online Reservation of Library Material
- f) Online Reservation of Library Spaces and Rooms
- g) Self Check in/out & Drop Box
- h) Reference Services
- i) Bibliographic/Books Information Service
- j) Inter Library Loan
- k) Electronic Document Delivery
- l) Research Support Services
- m) Plagiarism Detection Services
- n) Citation and Referencing Services
- o) Current Awareness Services
- p) Selective Dissemination of Information
- q) Real Time Help Services through Chat
- r) User Education Services
- s) VPN Access (off campus access)
- t) Newspapers Clippings Services

Besides, following state of the art facilities to the educational community of CUI is being provided:

- a) Collaborative Learning Spaces
- b) Video Conferencing Room
- c) Conference Room
- d) Group Study Rooms
- e) Faculty Commons
- f) Information Commons
- g) Wireless Internet Connectivity
- h) Study Carrels
- i) Research Cubicles with Computer
- j) Seating Capacity for 1000 Users
- k) Computer Workstations
- l) Dedicated computer systems for research and use for digital and electronic resources
- m) Easy Seating

- n) Special Learning Zones
- o) Art Gallery
- p) Surveillance cameras and Security Gates

Pakistan Education and Research Network (PERN)

The PERN connects universities and research institutes through high-speed internet bandwidth. The main purpose of this network is to facilitate researchers/students in sharing data and to coordinate with each other through video conferencing. CUI Islamabad and all its campuses benefit from the PERN services which are not limited to high speed internet but also include different IT infrastructure and software packages. With the implementation of smart university project the list of IT services acquired from PERN mainly include the following:

- Internet Bandwidth
- Wifi Coverage of CUI Islamabad Campus
- Microsoft Licensed Office 365 and Allied Software's
- Video Conferencing Facilities
- Digital Library Services
- Campus CCTV Surveillance On LAN

Islamabad Campus

At CUI, Islamabad Campus the students and faculty have been provided with different PERN services which include high speed internet, video conferencing rooms and CCTV surveillance of the campus. All these services are part of Smart university project, which includes different IT capacity building activities. During 2020-2021, PERN bandwidth at CUI Islamabad was decreased to 463 Mbps, which also includes 152 Mbps for Smart WIFI internet solution deployed by HEC.





Abbottabad Campus

CUI, Abbottabad Campus was connected to PERN in July 2007. Initially the campus acquired 04 Mbps dedicated connectivity via the PERN1 project of HEC. Now the campus has high speed dedicated connectivity via PERN2 over fiber optics. Abbottabad Campus has now increased its PERN bandwidth to 311 MB. Also it has the privilege of being the active partner with PERN, since Abbottabad Campus is serving as Point-of-Presence (POP site) for Hazara and connecting regions having 01 Gbps connectivity in PERN2 long haul network.



Lahore Campus

CUI, Lahore Campus also took the internet services from PERN, and a dedicated link of 500 Mbps is currently established for the facility. Lahore Campus also facilitates its students and researchers with state-of-the-art video conferencing facilities.

Wah Campus

CUI, Wah Campus is availing 80 Mbps bandwidth facility from Higher Education Commission under PERN2 Project.

Sahiwal Campus

CUI, Sahiwal PERN bandwidth is currently at 20 Mbps per month.

All other campuses except CUI Vehari Campus (Due to unavailability of PERN fiber link) are availing PERN facility.

Video Conferencing Facilities

Video conferencing has enabled all users to connect, communicate, conference, and share information in any environment. At CUI, video conferencing is currently utilized for distance learning programs (Virtual Campus), and to conduct meetings for efficient and effective use of its time and resources.

Video conferencing facilities are available at all CUI campuses with varying seating capacity.

CU Online

CU Online Principal Seat is currently managing collaborative data resources regarding almost 43,000 students along with about 5,000 faculty members each year. Software systems developed by the CU Online department offer more than 150 baccalaureates and the master's degree programs, educational credential, and the doctoral program. CU Online is responsible to automate all major COMSATS University Islamabad (CUI) processes under one umbrella as per rules, regulations and policies of CUI.

Fee Management Software integrations with banking systems

Our Students Fee Management System (SFMS) generates customized challans for each transaction, regardless of the type of payment within various categories. Presently, CU Online has delivered the new system interfaces for the online bank integration process to Islamabad, Abbottabad, and Lahore campus. As a result of this implementation, now the banking staff has been enabled to view the online challan form based on appropriate registration number and after the collection of fee amount, the respective staff can mark challan as paid and this information imitates promptly at our SFMS accordingly. Currently, this integration is performed with ABL and HBL after that here and now, the same functionality can be extended to any 1Link member banks for any campus and for our worthy clients (MUST, GIKI and FUI) as well.

Session	Fee Payment Analysis	
	Payment Gateway	Other Source
Fall 2020	83%	10%
Spring 2021	89%	4%
Fall 2021 (In progress)	54%	3%

Campus Management System (CMS):

The CMS developed by CUOnline, provides "Secure Web Based" anytime/anywhere access to the administrative, transactional and academic process needed to manage day to day affairs of CUI along with its seven regular campuses and one virtual campus. During the reporting period, following activities were carried out by CUOnline in this regard:

- **COVID -19 Online Network, Hardware/Software Support Implementation:**

During COVID-19 pandemic situation draw out, CUOnline has ensured proactive Online support not only to the whole staff of CUOnline office but also to our worthwhile clients (MUST, GIKI and FUI) well. New hardware and software configured to meet the challenges, for all the teams separately to ensure that they can seamlessly access their respective staging, production environments to accomplish their appropriate assigned task. All the services including networks, hardware and software were safeguarded

working appropriately 24/7 support provided on request commenced by CUI staff and external clients using social media platforms, phone calls and Emails.

- **COVID-19 Examination and Academic Operations in all campuses:**

CUOnline has produced numerous new system interfaces for diverse user groups based on the rules, regulations and policies of CUI, to improve their official task accomplishment simplification.

The CUOnline Portal has a new user-friendly and robust graphical interface which now offers registrar portal appropriate user to configure students' degree completion mandatory details, that are required to be shown on transcript by HEC as a new template for transcript.

The examination portal has been consolidated with a variety of interfaces based on the end user requirements to augment and expedite their authoritative results marking tasks accomplishment. Beforehand, a lot of manual processes were in progress and consequently, various data silos tend to lead towards information lapses and inadequate operational oversight accordingly. However, by implementing the new interfaces, there is improved data accuracy and less room for inaccuracy.

#	CMS ID	CMS Resolved Issues during the reporting period			Total CMS Issues Resolved by CU Online
		Critical	Major	Moderate	
1	CUI-Islamabad	40	140	560	740
2	CUI-Abbottabad	3	6	51	60
3	CUI-Lahore	30	42	151	223
4	CUI-Vehari	25	39	156	220
5	CUI-Sahiwal	23	29	154	206
6	CUI-Attock	15	34	75	124
7	CUI-Wah	4	6	110	120
8	GIKI-Sawabi	20	60	224	304
9	MUST- Mirpur	23	78	185	286
10	FUI-Islamabad	13	88	80	181
11	FUI-Rawalpindi	8	58	67	133
	Total	204	580	1813	2597



Online Admissions System:

The online admission system developed by CUOnline incorporates technology with the administrative and educational process and has been beneficial for both the institution and the students alike. Our Online Admission System automates operations, and functionalities required by the administration to classify candidates with a transparent way of maintaining records and utilize them for reference and further proceedings. The campus-wise breakdown of the submitted applications through Online Admission System during the reporting period is tabulated below:

#	Campuses	Fall 2020	Spring 2020	Total Online Applications Submitted
		Online applications submitted		
1	Islamabad	13082	5279	18361
2	Abbottabad	3190	914	4104
3	Lahore	8653	2494	11147
4	Vehari	682	224	906
5	Sahiwal	1309	350	1659
6	Attock	690	274	964
7	Wah	2276	464	2740
	Total	29882	9999	39881

During the proceeding COVID-19 situation, the students' merit benchmarking was a tremendous challenge due to multiple criteria implementations. The merit benchmarking was based on the accumulation of HSSC and intermediate examination's result marks. Subsequently, for the FA-2020 session, for the very first time, two parallel merit lists were required to be displayed for only the Islamabad campus. One for the Engineering program and the other one for the non-Engineering program. Merit benchmarking scheme was different for both the disciplines. Our team implemented this Merit benchmarking scheme seamlessly for both disciplines.





Chapter 09:
Universities Building
Communities



Universities Building Communities

University building communities is an integral part of innovative academic culture. It offers a vast opportunity for students to share their knowledge and interact with each other on official platforms provided by universities. In order to organize activities to support the role of university-community interaction, CUI carried out the following plan during its reporting period:

Islamabad Campus:

Centre for Climate Research and Development (CCRD)

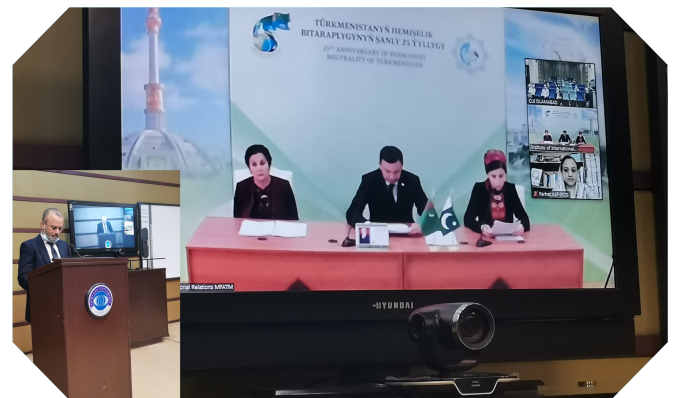
- Dr. Toqeer Ahmed, Assistant Professor, CCRD was invited as a resource person to represent Centre for climate research and development (CCRD),CUI in a seminar on Consultation on the Localization of the Water, Energy, and Food held in September 2020.
- Dr. Toqeer Ahmed, Assistant Professor, CCRD was invited as a resource person for representation of Centre for climate research and development (CCRD),CUI at Friedrich Naumann Foundation for Freedom at the platform of Freedom Gate Pakistan, 18th IAF Alumni meeting titled as “Restart Pakistan after COVID-19” at Lahore Country Club in November 2020.
- Dr. Farrukh Raza Amin, Research Associate, Centre for Climate Research and Development (CCRD) was invited to represent CCRD in a webinar. It was jointly hosted by COMSATS Headquarters, COMSATS Centre for Climate and Sustainability (CCCS) and Institute of Turkish Scientific and Technological Research Council (TUBITAK) on Energy Efficiency and Cleaner Production Practice in Industry on November 25, 2020.
- Dr. Toqeer Ahmed, Assistant Professor, CCRD was invited to a book launching ceremony 'embracing unity in Diversity' arranged by Friedrich Naumann Foundation on February 25, 2021.
- The Association of Commonwealth Universities

(ACU) is building a better world through higher education. Dr. Athar Hussain, Head CCRD and Professor, Department of Meteorology CUI has been selected as a Mentor in May 2021 to ACU under the theme of Global Challenges-Commonwealth Futures Climate Research Cohort .

- Dr. Farrukh Raza Amin, Research Associate, CCRD has successfully attended training from 5th May to 18th July 2021 on B&R Innovation and Development Institute Network program.

Centre for Policy Studies (CPS)

- Mr. Umar Sheraz Senior Research Officer, CUI presented on “Foresight for Digital rights and safety” at Roundtable Discussion on the Implementation of Labor Standards in Pakistan. This was conducted by the Research Society of International Law, Pakistan in collaboration with ABA-ROLI, supported by the US Mission Pakistan on October 27, 2020.
- CPS invited some panelists at an online panel discussion on “Cyber Threats and Pakistan's Response” on March 31, 2021 at Islamabad Campus, facilitated by the Institute of Regional Studies.



Department of Management Sciences

- CUI, Federal Directorate of Education and F.G Degree College for Men, H-9 Islamabad organized a tree plantation drive at F.G Degree College for Men, H-9 Islamabad on August 13,

2021. The Department of Management Sciences, students and Dr. Muhammad Imran participated in the event. The students and faculty were thankful to Dr. Osman Sadiq Paracha and Dr. Usama Saleem who facilitated them in providing the transport and motivated them to participate in this social activity.

- An event was organized by Islamabad Traffic Police and WHO for spreading awareness about road safety. It was based on three steps: the first one was held on June 24, 2021 and they selected candidates from the University in which 3 students were from the Management Sciences Department. The 2nd phase included Practical Driving Test in the F-8 Traffic Police Headquarter on July 7, 2021, where the Management Sciences Students got the 1st position. The 3rd and final phase based on questions by the students was held on July 14, 2021. CUI bagged the 1st position and were awarded Rs.60,000/- in cash and a Trophy.

Department of Meteorology:

- Dr. Muhammad Imran Shahzad, Head, Department of Meteorology delivered an online lecture titled “Aerosol Effect on Rainfall: A Case for Pakistan” to audience in China and Pakistan under CPEC collaboration on December 2, 2020.
- During the reporting period, Dr. Muhammad Latif, Lecturer, Department of Meteorology Islamabad campus developed scientific research collaboration with Computational Sciences and Engineering Division, Oak Ridge National Laboratory, Oak Ridge, TN, USA. Under this research collaboration, Dr. Latif as co-author submitted a research article titled “Regional Climate Models: Sensitive to Lateral Boundary Conditions and Internal Dynamics” for publication in a high impact factor international journal.
- Dr. Muhammad Imran Shahzad, Head Department of Meteorology, arranged a session on Science of Kite Flying with students of primary class at Beaconhouse School (BMI) Islamabad to inculcate a sense of STEM in the future generation

at grass root level.

- During the reporting period, the Government of Pakistan selected Dr. Muhammad Imran Shahzad, Head Department of Meteorology as a technical member of COORD committee to evaluate the feasibility for establishing National Spatial Data Infrastructure (NSDI) for Pakistan.



Abbottabad Campus:

- Under the GO Green Initiative, a campus plantation drive was organized by the Department of Development Studies on March 10, 2021, in collaboration with the Forest Department.
- Department of Environmental Sciences CUI, Abbottabad Campus celebrated environment day in collaboration with the Environment Protection Agency (EPA), Abbottabad on June 5, 2021 on “Ecosystem Restoration”. Mr. Muhammad Ali, Director (EPA) the assistant director of EPA along with Dr Qaisar Mahmood (TI), Head of the Environmental Sciences Department highlighted the importance of ecosystem restoration.
- During the reporting period, a tree plantation event was organized at the Department of Environmental Sciences at Lady Garden Park Abbottabad where Commander Cantt Board and CEO Cantt Board of Abbottabad also joined and planted the trees.
- Faculty and students of the Department of Environmental Sciences participated in tree



plantation activity organized by the District Government of Abbottabad on August 3, 2021. More than 25000 trees were planted together with volunteers and school children from different schools of district Abbottabad in Jabrian village of District Abbottabad.

- During the reporting period, COMSATS Community Development Unit at CUI Abbottabad Campus initiated Prime Minister's Kamyab Jawan Skills for all Projects aiming to empower young people with skill set , resources & self-reliance opportunities by initiating a grand youth development program catering multiple domains.



Department of Electrical and Computer Engineering

- During the reporting period, the Department of Electrical and Computer Engineering, CUI Abbottabad Campus built an industrial advisory board. The board cooperated in the provision of jobs and internships to the students of CUI-Abbottabad.
- During the reporting period, the Department of Electrical and Computer Engineering arranged various seminars like the DURSHAL orientation event and entrepreneurship registration issues by

SMEDA. These events helped students with funding for their start-ups.

Lahore Campus:

- The Event Management Committee, CUI Lahore Campus organized a Webinar on "Nutrition Awareness Post Covid-19" on Monday December 21, 2020. The webinar was conducted by Dr. Muhammad Ejaz Ahmad, Nanjing Agricultural University, China.
- The Faculty of Department of Management Sciences planted trees on August 14, 2021 in Campus premises during the "Plant a Tree" Campaign.
- COMSATS Management Club organized a workshop titled "Importance of communication skills in professional life" by Mr. Rizwan Sarwar, the CEO of Geeks Media Agency and Pak Residence on February 25, 2021. He is a public speaker and broadcaster who has worked with multiple channels and agencies. The students of the Management Sciences department actively participated in the workshop.
- Center of Islamic Finance (CIF), CUI Lahore Campus signed a letter of Exchange between Center for Language Engineering (CLE), Al-Khawarzami Institute of Computer Sciences (KICS) University of Engineering and Technology (UET), Lahore on March 22, 2021.

Department of Chemistry

- During the reporting period, Dr. Shahid Nazir, Associate Professor, Department of Chemistry CUI Lahore, collaborated with Dr. Azmuddin Abdullah, Marine Science Technology at UTM-Malaysia.
- Dr. M. Javid Iqbal started his research collaboration with PCSIR Labs complex at Lahore.
- Tree plantation drive was carried out on Independence Day August 14, 2021 at CUI Lahore campus.

Sahiwal Campus:

- The Horticulture Department of CUI, Sahiwal campus on March 16, 2021 made contributions for making Pakistan Green by distributing Fruit/Tree plants saplings among faculty and staff members. The Vice-Chancellor University of the Punjab and University of Sahiwal, Prof. Dr. Niaz Ahmad Akhtar visited CUI, Sahiwal Campus and planted trees on campus along with Director CUI, Prof. Dr. Nazir Ahmad Zafar.
- Director, CUI, Sahiwal Campus Prof. Dr. Nazir Ahmad Zafar planted trees in the premises of CUI, Sahiwal Campus, in order to support Prime Minister Imran Khan's nationwide tree plantation drive on March 18, 2021.

Vehari Campus:

- Dr. Saleem Farooq Shaukat, Director, CUI, Vehari Campus planted trees in the Campus to support Prime Minister Imran Khan's nationwide tree plantation drive on March 18, 2021 . He was accompanied by Mian Khalid Mahmood, Former President, the Vehari Chamber of Commerce and Industry, Mr. Haseeb Sarwar, Owner United Motors Vehari, the Heads and Incharges of various departments



Wah Campus

- In order to display harmony with Christian employees, Christmas Day was arranged on December 21, 2020. Director CUI Wah, Prof. Dr. Sajjad A. Madani attended the event and bade them well wishes. .

Tree plantation drive was conducted on March 10, 2021 at CUI Wah Campus in collaboration with the Forest Department, Government of Punjab, Tehsil Taxila Office. Assistant Commissioner Taxila, Director CUI Wah, Prof. Dr. Sajjad A. Madani and Tehsil Forest Officer inaugurated the session.



Alumni Affairs and Achievements

Alumni are valued and considered a part of the CUI family. Following activities were carried out at various CUI Campuses with regards to alumni during the reporting period:

A centralized office for Alumni was established at CUI Attock Campus on November 5, 2020 for working on Alumni Master File along with gathering of alumni data and their employability details.

CUI Lahore Campus Alumna Ms. Hira Karim participated in an event QUEST- E-TECH on June 6-7, 2021. She got 1st position among all participating institutions in Pakistan. The theme of her sketch was "Positivity of Isolation" based on the prevailing situation of COVID- 19 as Government has discouraged the public gatherings. QUEST E-TECH platform has provided the events like e-gaming, art and literature, media, technical events and much

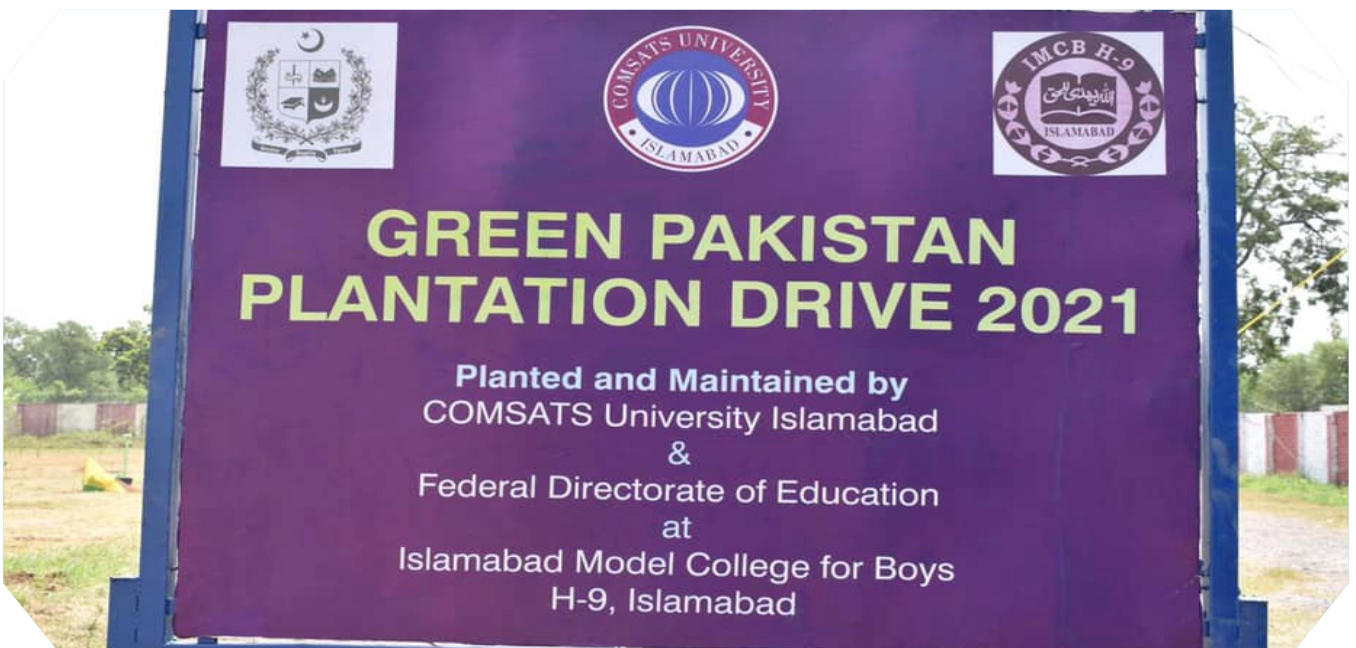


more for talented students.

Second Alumni dinner 2021- CS Department Vehari Campus was arranged for graduated students on June 18, 2021.

During the reporting period, Shahros Rana, a graduate of CUI, Sahiwal campus started his own

landmark startup called “Wonder Tree”. It is a Karachi-based tech company that focuses on the special needs and educational sector of Pakistan and makes Augmented Reality, Virtual reality and mixed reality Games for children with disabilities and for ECD (Early Childhood Development).





Chapter 10: Sports



Inter-departmental Sports

There are multiple departments at CUI and students from each department actively participate in inter-departmental sports events to score and claim the trophy for their department. A week long slot is allocated in the schedule of every semester for students' week. The week offers students a short pause to recover from hectic and exhausting academic activities. Students participate in various co-curricular activities where they get ample opportunities to bring out their covert natural abilities. Students' week also provides youth at CUI with the prospects of working in collaboration, exercising leadership potential, taking initiatives and improving their social and behavioral skills.



COVID-19

During the reporting period, the Sports Section of all CUI Campuses were not able to organize Interdepartmental Sports Competitions due to COVID-19 pandemic.

Participation in National Championships

1. CUI Islamabad Campus Sports Section Organized HEC Inter-university Cricket Men Championship (Zone-C) 2020-21 in Collaboration with Higher Education Commission from February 15-20, 2021.

Sixteen (16) Universities of Zone-C participated in this championship including COMSATS University Islamabad. The zone Winner team was CUI Islamabad and Runner up was Quaid e Azam University Islamabad which qualified for final round championships.

2. Participation in All Pakistan Inter-university Male Sports Championships for session 2020-21.

- Cricket (Zone-C): CUI combined team (Islamabad, Lahore, Sahiwal, Abbottabad campus) participated in HEC Inter University Cricket Men Championship Zone-C (Federal Zone, AJ& Kashmir and Gilgit Baltistan) 2020-21, from February 10-15, 2021, and also qualified for final round Championship 2020-21.
- Table Tennis (Zone-C): CUI Table Tennis team (all Campuses combined team) participated in HEC Intersarsity Table Tennis (Men) Championship (Zone-C) 2020-21 organized by UET, Taxila (February 22, 2021).
- Football (Zone-C): CUI Football team (all Campuses combined team) participated in HEC Inter university (Men) Championship (Zone-C) 2020-21 organized by Quaid e Azam University, Islamabad (February 24-28, 2021). Team of CUI team qualified for quarter finals.
- Basketball (Zone-C): CUI Basketball team (all Campuses combined team) participated in HEC Inter university (Men) Championship (Zone-C) 2020-21 organized by NUML University, Islamabad on March 10, 2021)
- Volleyball (Zone-C): CUI Volleyball team (all Campuses combined team) participated in HEC Intersarsity (Men) Championship (Zone-C) 2020-21 organized by ARID University, Rawalpindi on March 10, 2021.
- Cricket (Final Round): CUI Cricket Team (all Campuses combined team) participated in HEC Intersarsity (Men) Championship 2020-21 organized by University of Peshawar from March 07-12, 2021.

- Hockey (Zone-C): CUI Hockey team (all Campuses combined team) participated in HEC Intervarsity (Men) Championship (Zone-C) 2020-21 organized by IIUI University, Islamabad on March 24, 2021.

3. Participation in All Pakistan Inter University Female Sports Championships for session 2020-21.

Judo: CUI Islamabad Women team participated in HEC Intervarsity Judo Women Championship 2020-

21 organized by Lahore College for Women University Lahore from June 20-22, 2021.

National Level Participation

In response to COVID -19 pandemic and according to NCOC all academic and physical activities were restricted, thus participations/achievements at the national level by CUI were not made possible in the reporting period.







Chapter 11:
Universities Building
Leadership



Student Leadership (Co-curricular Activities)

A student's personal development cannot be achieved without engaging him/her in co-curricular activities to bring out the hidden talents and inculcate confidence, team work, discipline, positive thinking, pressure handling, and leadership qualities. CUI students arrange and participate in various co-curricular activities like exhibitions, expos, competitions, etc. and they are provided with this opportunity during the students' weeks organized biannually at all CUI campuses.

- The Milad-e-Mustafa (SAWAS) was organized at CUI Wah Campus on October 29, 2020 in celebration of 12 Rabi' al Awwal, the birth anniversary of holy Prophet Hazrat Muhammad (PBUH). The Milad-e-Mustafa was conducted in order to send Durud o Salam on the Prophet Muhammad (PBUH). The Director Campus attended and acknowledged the efforts of management in organizing Mehfil-e-Milad (SAWAS).
- To refresh the memories of Urdu poetry and to keep our young generation connected with the national language, the IDEA Society of Islamabad Campus organized an online poetry recital (Mehfil-e-Mushaira) on November 22, 2020. The esteemed guests were Wasi Shah, Azhar Farag, Maisam Ali Agha, and Umair Najmi who joined IDEA for this beautiful recital and told stories of hearts under the guise of poetry.
- In this monotonous environment of a recurring pandemic, the IDEA society of Islamabad campus organized a fun-filled evening of poetry, sketching, short video creation and photography competition on November 28, 2020 to engage its members in a friendly competition and take them out of their repetitive routines.
- Students from the Department of Electrical and Computer Engineering, CUI Attock Campus visited Heavy Electrical Complex (HEC) Hattar for an industrial visit on November 28, 2020. They were briefed about various processes and materials in manufacturing of heavy electrical

equipment. The Career Development Center of Attock Campus also initiated liaison with HEC for placement of its graduates.

- SAO, Attock Campus arranged an online session on December 29, 2020, for graduating students with the collaboration of Career Pakistan. The main motive of this session was to introduce the students with challenges and opportunities for graduates with changing dynamics due to COVID – 19. The guest speaker was Mr. Khurram Shah (Head of Public Policy and Government Affairs PepsiCo, Pakistan & Afghanistan).
- Zoya Saad, a student of 1st semester from the Department of Economics, Islamabad Campus, was granted the opportunity to visit the Maldives on a spiritual journey with a partial scholarship from February 12-16, 2021. She was selected amongst 20 countries and is creating change by her newly formed awareness campaign, which addresses the water scarcity crisis of Pakistan that is going to get worse by the year 2025.
- CUI Attock Campus arranged an online session with Nestle Pakistan to introduce students to the employment opportunities in multinational world and more specifically the Tips and tricks for upcoming jobs of MTO at Nestle Pakistan. The guest speaker was Mr. Muhammad Ali Malik (Regional Sales Manager, Nestle Pakistan). This session took place on 4 March 2021.
- During the reporting period, the Department of Electrical and Computer Engineering CUI Attock Campus arranged a trip under the supervision of Mr. Ejaz Tanoli (Lab Engineer, CUI Attock) for its students to Rawat Lab. They visited high voltage & short circuit lab where they were briefed about the practical processes in power performed by Electrical engineers. This helped the students to equip themselves with practical knowledge and skills
- Enablers Live Session with Top Enablers Mentors was held at CUI, Sahiwal Campus on March 09, 2021. The Students were broadly motivated to pursue their careers in a right direction and

explore the online learning opportunities.

- COMSATS Literary Society, CUI Vehari Campus organized a Speech Competition on March 10, 2021 in the Auditorium. Twenty students participated in the event. The event was chaired by worthy Director Prof. Dr. Saleem Farooq Shaukat. In his address, he encouraged the students to polish their skills by participating in such competitions. He motivated them towards the positive growth and advised them to be a part in the growth and development of the country. In the end, he distributed prizes among the winners.
- Faculty, staff, and students of the Department of Environmental Sciences, CUI Abbottabad Campus welcomed the New Director of Abbottabad Campus by inviting him to tree plantation drive in Abbottabad Campus on March 12, 2021.
- A visionary guest speaker, Mr. Yousaf Bashir Qureshi was invited by IDEA Islamabad campus on May 1, 2021 to inspire the members and audience with his innovative and inventive thoughts about art and poetry. His eloquence on poetry and speech won hearts of many and inspired everyone. Danish Mand Khan, a student of the 7th semester, Department of Economics, CUI, achieved a gold medal in Mallam Jabba for an XC mountain bike race, which was organized by Mallam Jabba Ski Resort in collaboration with Islamabad Cycling Association. The event was held on February 27, 2021.
- A webinar was conducted by IDEA Islamabad campus on June 12, 2021. This webinar presented a synopsis of how organization can enhance their process quality by using Lean Six Sigma Approach. It also highlighted the importance of learning this technique by new professionals to stay on top of the competition in the industry. IDEA invited the CEO of Naburva, Mr. Kashan, to educate us in entrepreneurship and evolving one's business.
- During the reporting period, Students from the Department of Management Sciences visited

English Biscuits Manufacturers, Hattar. They were brief about different business processes including general management, human resources, environmental health & safety and production by Senior Management of English Biscuits Manufacturers.

Faculty Leadership

- Dr. Abdus Sattar Abbasi, Head CIF, CUI Lahore Campus delivered a training session titled: "Leadership and Management in Health Sector" to MBBS doctors for appointment and grade 18 of WAPDA medical hospitals on October 28, 2020.
- Dr. Kalsoom Sumra, Assistant professor, Centre for Policy Study, Islamabad Campus conducted a training Session on "Institutional Reforms Reports at National Police Bureau Islamabad" on September 17, 2020.
- Dr. Aneel Salman Assistant Professor Department of Economics delivered lectures on "Local Branding and Marketing" and "Mapping of Domestic Commerce" for capacity building of provincial government officers in Domestic Commerce at Pakistan Institute of Trade and Development, Ministry of Commerce, Islamabad on September 24, 2020.
- Dr. Abdus Sattar Abbasi, Head CIF, CUI Lahore Campus participated as guest speaker at "Provincial Colloquium for Doctorate Researchers in Islamic Finance" held on November 14, 2020 Organized by Center for Excellence in Islamic Finance (CEIF), IMSciences Peshawar. The colloquium aims to engage doctorate researchers of KP to produce high-quality research in the area of Islamic Finance.
- Dr. Shahzad Kouser, presented her recent research work entitled "Farmers' Adoption and on-Farm Impacts of Conservation Agriculture in the Global South: A Meta-Analysis" in the International DAAD online Conference on Climate Change Adaptation: Evidences from Best-Practices in Coastal Areas, December 4-5, 2020, Rajendrapur, Bangladesh.



- Dr. Aneel Salman, Assistant Professor Department of Economics conducted workshops on 'Team Building' and 'Performance Management in Public Service' for 30th Mid-Career Management Course (MCMC) at National Institute of Management (NIM) Islamabad from November 17-20 2020.
- Dr. Aneel Salman, Assistant Professor Department of Economics conducted workshop on "Leadership, Decision Making and Human Resource Management" for the Senior Police Officers of 9th Junior Command Course at Police College Sihala on October 19-23, 2020.
- Dr. Shahzad Kouser, Assistant Professor, attended Value Chain Analysis Online Workshop on November 4, 2020, sponsored by her ACIAR project entitled "Developing competitive and inclusive value chains of pulses in Pakistan". She obtained training on how to conduct value chain analysis and how to analyze gender component in the pulses value chains of Pakistan.
- Dr. Abdus Sattar Abbasi, Head CIF participated as guest speakers in seminar on "Strong Families Makes Strong Societies" on February 14, 2021. The event was organized by 'Think Pakistan – A Forum of Highly Qualified Pakistanis' at Hailey College of Commerce, University of Punjab Lahore.
- Dr. Aneel Salman, Assistant Professor, Economics Department delivered lectures on Understanding Dynamics of Global Trade in Pakistan to 48th CTP at Foreign Service Academy Islamabad April 2021.
- Dr. Abrar Faisal, Assistant Professor, Department of Chemical Engineering CUI Lahore visited Lulea University, Sweden for three weeks in April 2021 under HEC based Faculty Exchange Program.
- Dr. Muhammad Aamir Khan, Assistant Professor Economics Department conducted a workshop on Economic Analysis using Input-Output Matrices at Pakistan Institute of Development Economics on Input Output models on June 15, 2021. Dr. Khan covered the following topics: Introduction to IO matrix applications and analysis, Step by step construction of a small IO Multiplier mode, and Computation of forward and backward linkages.
- Dr. Abdus Sattar Abbasi, Head CIF participated in seminar titled "Single National Curriculum (SNC) Challenges and Issues" at Hailey College of Commerce, University of Punjab Lahore Organized by Think Pakistan - A Forum of Highly Qualified Pakistanis on July 14, 2021.





Chapter 12: Finance



Annual Statement of Accounts (Audited) 2017-2018

	2018-19
	Total (Rs.)
NON CURRENT ASSETS	
Property and Equipment	4,284,675,230
Intangible Assets - Software Licenses	644,992
Long Term Security Deposits	8,610,682
Sub-Total	4,293,930,904
CURRENT ASSETS	
Advances - considered good	426,786,241
Short term deposits and prepayments	32,442,607
Short term investment-PS	21,682,598
Fee Receivable	114,053,045
Other receivables	1,529,628,000
Cash and bank balances	2,018,489,705
Sub-Total	4,143,082,196
Total	8,437,013,100
FUNDS AND LIABILITIES	
FUNDS	
General Fund	(1,615,888,827)
Taleem Fund	214,224,574
Endowment Fund Capital	520,191,443
Sub-Total	(881,472,810)
LIABILITIES	
NON-CURRENT LIABILITIES	
Deferred grants	3,040,179,005
Liabilities against assets subject to finance lease	12,995,685
Other non-current liabilities	431,527,448
Students' security deposits	16,204,977
Deferred liabilities	4,203,686,318
Sub-Total	7,704,593,43

	2018-19
	Total (Rs.)
CURRENT LIABILITIES	
Accrued and other liabilities	453,060,316
Contract liabilities	1,151,743,012
Current portion of non-current liabilities	9,089,149
Sub-Total	1,613,892,477
Total	9,318,485,910
Grand Total	8,437,013,100

Income and Expenditure Statement for the Years Ended on June 30, 2018 & 2019

	2017-18 (Rs.)	2018-19 (Rs.)
INCOME		
Total Income	8,118,937,829	8,100,460,278
EXPENDITURE		
Total Operating Expenses	8,125,623,009	8,483,547,893
Surplus/(Deficit)	(269,063,482)	(383,087,615)

Financial Year at a Glance

As CUI has consolidated its infrastructure and has expanded its Campuses, capital is invested in land and equipment, etc. The noncurrent assets have decreased by 0.6%.

Audit Report

Audit of the Accounts of CUI upto June 30, 2020 by the Government Auditors (AGP) and statutory audit has been completed. Further, the chartered accountant - audit for the year 2018-19 has also been completed and for 2019-20 it is in process.

Development Budget

The Public Sector Development Program (PSDP) is the main instrument for providing budgetary resources for the development projects and programs of all campuses of CUI. Until the end of the financial year viz Financial Year (FY) 2020-21, CUI has successfully completed 49 projects with a capital cost of Rs. 8853.592 Million.

For the Financial Year 2020-21, CUI was allocated Rs 267.698 Million for three (3) development projects. During the said period, Rs. 229.230 million have been released.



Recurring Budget (2020-21)

A: Total Resources	(Rs. Millions)
1. Opening Balance:	(81.247)
2. Grants & Donations	
a. Federal Government (Annual)	1,557.111
b. Grant for Tenure Track Faculty	884.700
Sub-Total	2,441.811
3. Own Resources	
a. Tuition Fees	5,513.714
b. All Other Fees	134.282
c. Hostel / User Charges, etc.	276.354
d. Other Income	313.500
Sub-Total	6,209.850
Total Available Resources	8,679.661
4. Expenditure	
a. Faculty Salary	2,082.229
b. TTS Faculty Salary/ Gratuity	2,002.539
c. Non - Faculty Salary	1,687.659
d. Other Establishment Charges	263.235
e. Non Salary Expenses / Other Charges	2,562.752
B. Total Expenditure	8,598,414
C. Surplus/ (Deficit)	81.247
D. Accumulated Surplus/Deficit	(81.247)

Self-generated Income

The main source of self-generated income for CUI is the fees charged from the students. During the reporting period, the self-generated income was Rs. 6,209.850 million.

Student Spending Trend

During the reporting period, per student spending was Rs. 0.224 million.



EY

**Building a better
working world**

COMSATS UNIVERSITY ISLAMABAD

**FINANCIAL STATEMENTS
FOR THE YEAR ENDED 30 JUNE 2019**

EY Ford Rhodes
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DRAFT AUDIT REPORT SUBJECT TO RESOLUTION OF OUTSTANDING MATTERS

INDEPENDENT AUDITOR'S REPORT

To the Senate of the University

Qualified Opinion

We have audited the financial statements of the **COMSATS University Islamabad (the University)**, which comprise the Statement of Financial Position as at 30 June 2019, Income and Expenditure Statement, Statement of Comprehensive Income, Statement of Changes in Funds and Statement of Cash Flows for the year then ended, and notes to the financial statements, including a summary of significant accounting policies.

In our opinion, except for the possible effects of the matter described in the *Basis for Qualified Opinion* section of our report, the accompanying financial statements present fairly, in all material respects, the financial position of the University as at 30 June 2019, and its financial performance and its cash flows for the year then ended in accordance with International Financial Reporting Standards (IFRSs).

Basis for Qualified Opinion

The carrying amount of deferred capital grant, excluding those that can be related to land and building, as at 30 June 2019, recognized in the statement of financial position amounts to Rs. 845 million (2018: Rs. 1,007 million, refer to Note 21 of the financial statements). The University contend that this amount represents the grant utilized for the procurement of equipment under the development and research projects. As management has not maintained project wise breakup and sufficient evidence of assets purchased through the grant, we were unable to obtain sufficient appropriate audit evidence about the carrying amount of this deferred grant and related amortization, recognized in the income and expenditure statement. Consequently, we were unable to determine whether any adjustments to these amounts were necessary.

We conducted our audit in accordance with the International Standards on Auditing (ISAs) as applicable in Pakistan. Our responsibilities under those standards are further described in the *Auditor's Responsibilities for the Audit of the Financial Statements* section of our report. We are independent of the University in accordance with the *International Ethics Standard Board for Accountants' Code of Ethics for Professional Accountants* as adopted by the *Institute of Chartered Accountants of Pakistan* (the Code), and we have fulfilled our other ethical responsibilities in accordance with these requirements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our qualified opinion.

Emphasis of matter paragraph -Correction of Errors

We draw attention to Note 7 of the financial statements, which describes the effects of retrospective correction of material prior year errors, in the financial statements, relating to the University's obligations regarding certain employee benefits. Our opinion is not modified in respect of this matter.

Responsibilities of Management and Senate of the University for the Financial Statements

The management is responsible for the preparation and fair presentation of the financial statements in accordance with the approved accounting and reporting standards as applicable in Pakistan, and for such internal control as management determines is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is responsible for assessing the University's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless management either intends to liquidate the University or to cease operations, or has no realistic alternative but to do so.

The Senate of the University are responsible for overseeing the University financial reporting process.

Auditor's Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with ISAs will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these financial statements.

As part of an audit in accordance with ISAs, we exercise professional judgment and maintain professional skepticism throughout the audit. We also:

- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the University's internal control.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
- Conclude on the appropriateness of the management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the University ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditor's report to the related disclosures in the financial statements or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditor's report. However, future events or conditions may cause the University to cease to continue as a going concern.
- Evaluate the overall presentation, structure and content of the financial statements, including the disclosures, and whether the financial statements represent the underlying transactions and events in a manner that achieves fair presentation.





We communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.

The engagement partner on the audit resulting in this independent auditor's report is Farooq Hameed.

EY Ford Rhodes
Chartered Accountants
Place: Islamabad
Date:

A handwritten signature in black ink, appearing to be 'EYR'.

**COMSATS UNIVERSITY ISLAMABAD
STATEMENT OF FINANCIAL POSITION
AS AT 30 JUNE 2019**

	Note	2019	2018 Restated	01 July 2017 Restated
-----Rupees-----				
ASSETS				
NON-CURRENT ASSETS				
Property and equipment	8	4,284,675,230	4,559,021,448	4,877,418,549
Intangible assets	9	644,992	538,695	529,643
Long-term deposits		8,610,682	8,970,682	9,770,682
		<u>4,293,930,904</u>	<u>4,568,530,825</u>	<u>4,887,718,874</u>
CURRENT ASSETS				
Fee receivable	10	426,786,241	577,201,353	393,245,983
Loans and advances	11	32,442,607	29,477,244	39,724,753
Short-term deposits and prepayments	12	21,682,598	52,229,694	29,470,853
Other receivables	13	114,053,045	85,566,886	73,296,444
Short-term investments	14	1,529,628,000	1,139,607,000	1,344,393,830
Cash and bank balances	15	2,018,489,705	1,971,406,825	1,019,032,036
		<u>4,143,082,196</u>	<u>3,855,489,002</u>	<u>2,899,163,899</u>
TOTAL ASSETS		<u>8,437,013,100</u>	<u>8,424,019,827</u>	<u>7,786,882,773</u>
FUNDS AND LIABILITIES				
FUNDS				
General fund		(1,615,888,827)	(1,023,495,040)	(824,190,815)
Endowment fund	16	520,191,443	474,026,357	441,580,514
		<u>(1,095,697,384)</u>	<u>(549,468,683)</u>	<u>(382,610,301)</u>
NON-CURRENT LIABILITIES				
Taleem fund	17	214,224,574	197,234,645	187,595,830
Liability against assets subject to finance lease	18	12,995,685	20,643,152	44,194,890
Other non-current liabilities	19	431,527,448	465,608,002	303,984,923
Student's security - Hostel		16,204,977	17,328,110	16,312,835
Deferred liabilities	20	4,203,686,318	3,675,515,165	3,129,052,710
Deferred grants	21	3,040,179,005	3,293,932,719	3,353,358,961
		<u>7,918,818,007</u>	<u>7,670,261,793</u>	<u>7,034,500,149</u>
CURRENT LIABILITIES				
Accrued and other liabilities	22	453,060,316	388,056,425	262,414,614
Contract liabilities	23	1,151,743,012	891,574,655	834,072,959
Current maturity of liability against assets subject to finance lease	18	9,089,149	23,595,637	38,505,352
		<u>1,613,892,477</u>	<u>1,303,226,717</u>	<u>1,134,992,925</u>
TOTAL FUNDS AND LIABILITIES		<u>8,437,013,100</u>	<u>8,424,019,827</u>	<u>7,786,882,773</u>
CONTINGENCIES AND COMMITMENTS				
	24			

The annexed notes, from 1 to 36, form an integral part of these financial statements.



RECTOR

TREASURER



**COMSATS UNIVERSITY ISLAMABAD
INCOME AND EXPENDITURE STATEMENT
FOR THE YEAR ENDED 30 JUNE 2019**

	Note	2019 Rupees	2018 Restated
INCOME			
Income from own resources	26	5,006,421,030	4,868,437,100
Amortization of grants	21	2,726,780,466	2,718,671,352
		7,733,201,495	7,587,108,452
EXPENDITURE			
Salaries, allowances and other benefits	26	6,390,667,942	5,930,990,135
Depreciation	8.1	687,739,259	752,166,637
Other general and administrative expenses	27	1,390,723,386	1,403,911,995
Finance cost	28	14,417,309	13,453,755
		8,483,547,896	8,100,522,522
Other income	29	367,258,783	216,753,622
DEFICIT FOR THE YEAR		(383,087,618)	(296,660,448)
Taxation	30	-	-
NET DEFICIT FOR THE YEAR		(383,087,618)	(296,660,448)

The annexed notes, from 1 to 36, form an integral part of these financial statements.

RECTOR

TREASURER



Chapter 13:
University Governance



University Governance

The COMSATS University Islamabad (CUI) was established in 1998, as COMSATS Institute of Information Technology (CIIT), as a project of the Commission on Science and Technology for Sustainable Development in the South (COMSATS), which is an inter-governmental organization with 21 member states in three continents; Asia, Africa and Latin America, namely Bangladesh, China, Colombia, Egypt, Ghana, Iran, Jamaica, Jordan, Kazakhstan, Korea (DPRK), Nigeria, Pakistan, Philippines, Senegal, Sri Lanka, Sudan, Syria, Tanzania, Tunisia, Uganda and Zimbabwe. Then, CIIT had the status of a public sector degree awarding higher education institution, through a Charter given by the Federal Government in August 2000. Later, CIIT was upgraded to a Federally Chartered University in April 2018 under the COMSATS University Islamabad Act 2018.

The CUI functions under the governance of the CUI Senate, chaired by the Chancellor of the University. The President of Islamic Republic of Pakistan is the Chancellor of the University. Besides, Islamabad Campus, it has campuses in Lahore, Abbottabad, Wah, Attock, Sahiwal, Vehari and a Virtual campus as well.

As per CUI Act 2018, following are the authorities of the University, namely:-

- (a) Authorities established by the Act,
- the Senate;
 - the Syndicate; and
 - the Academic Council
- (b) Authorities established by the Statues:-
- Board of Advanced Studies and Research;
 - Recruitment, Development, Evaluation and Promotion committees and Selection Board for teachers and other staff whether at the level of the department, the faculty, the Campus or the University;
 - Career Placement and Internship Committee of

each faculty;

- Search committee for the appointment to the Senate, Syndicate and the Academic Council;
- Board of Faculty;
- Board of Studies of Department; and
- Finance and Planning Committee

Senate

- The body responsible for the governance of the University shall be described as the Senate, and shall consist of the following:
- the chancellor who shall be the Chairperson of the Senate;
- the Pro-Chancellors;
- the Rector;
- the Secretary of the Ministry dealing with the subject matter of Science and Technology;
- the Secretary of the Ministry dealing with the subject of Education;
- one of the Pro-Rectors nominated by the Rector;
- four persons from society at large being persons of distinction in the fields of administration, management, education, academics, law, accountancy, medicine, fine arts, architecture, agriculture, science, technology, industry and engineering so that the appointment of these persons reflects a balance across the various fields;
- one person from amongst the alumni of the University;
- two persons from the academic community of the country, other than an employee of the University, at the level of professor or principal of a college;
- for University Teachers;
- Chairman, Higher education Commission or his nominee; and
- Two Parliamentarians, on each from Senate and



national Assembly.

From September 01, 2020 till August 31, 2021, 01 meeting of senate has been held during the reporting period given below:

Meeting #	Date of Meeting
04	January 20, 2021

Syndicate

The syndicate of the University consists of the following:

- the Rector who shall be a Chairperson;
- the Pro-Rector;
- Joint Secretary from the Ministry of Science and Technology
- the Directors;
- the Deans;
- three professors from different departments, who are not members of the Senate, to be elected by the University Teachers following procedure to be prescribed by the Senate;
- Principals of the constituent colleges;
- the Registrar, who shall also be the secretary;
- the Treasurer and any other officer designated as principal officer under clause (j) of section 7; and
- the controller of Examinations.

From September 01, 2020 till August 31, 2021, 01 meeting of syndicate has been arranged for the reporting period given below:

Meeting #	Date of Meeting
04	October 27, 2020

Academic Council

As per CUI Act, 2018, the Academic Council of the University is the principal academic body of the University and subject to the provisions of the Act and the Statues, has the power to lay down proper standards of instruction, research and examinations and to regulate and promote the academic life of the University and the colleges. The Academic Council consists of the following:

- the Rector, who shall be its Chairperson;
- the Pro-Rector;
- the campus Directors;
- the Deans of faculties and such Heads of departments as may be prescribed;
- five members representing the departments, institutes and the constituent colleges to be elected in the manner prescribed by the Senate; two Principals of affiliated colleges; five Professors including Emeritus Professors; the Registrar, who shall also be the secretary; the Controller Examinations; and the Librarian.

According to the Act and Statues, the Academic Council has the following powers to:

- approve the policies and procedures pertaining to the quality of academic programmes;
- approve academic programmes;
- approve the policies and procedures assuring quality of teaching and research;
- recommend the policies and procedures for affiliation of other educational institution;
- propose to the Syndicate schemes for the constitution and organization of faculties, teaching departments and boards of studies;
- appoint paper setters and examiners for all examinations of the University after receiving panels of names from the relevant authorities;
- institute programmes for the continued professional development of University teachers



at all levels;

- recognize the examinations of other Universities and examining bodies as equivalent to the corresponding examinations of the University;
- regulate the award of studentships, scholarships, exhibitions, medals and prizes;
- frame Regulations for submission to the Senate;
- prepare an annual report on the academic performance of the University; and
- perform such functions as may be prescribed by Regulations.

The clause 43(2) of the above-mentioned Gazette allows to continue with the current provision of CUI until new statutes/rules/regulations of CUI are formulated and approved by competent authority. That means existing statutory bodies such as BASAR, Board of Faculties and Board of Studies are to function normally till these are reconstituted in line with the approved regulations.

From September 01, 2020 till August 31, 2021, 01 meeting of Academic Council has been arranged for the reporting period given below:

Meeting #	Date of Meeting
30	October 08, 2020

Board of Advanced Studies and Research (BASAR)

The purpose of BASAR is to advise authorities on all the matters concerned with the promotion of advanced studies and research in the Institute, to appoint supervisors for research studies, to propose regulations for the award of research degrees, etc. The BASAR consists of:

- The Rector (Chairman)
- The Deans
- Three Professors other than Deans to be appointed by the BoG
- Three scholars of eminence in a field not

represented on the BASAR appointed by the Rector on the recommendation of the Academic Council.

As of August 31, 2021, 30 meetings of BASAR have been held, out of which, 01 was held during the reporting period.

Meeting #	Date of Meeting
30	May 25, 2021

Other Statutory Bodies

The detail of the meetings of Selection Board, Finance and Planning Committee, Board of Studies, and Board of Faculty, for the reporting period is given below:

Selection Board: As of August 31, 2021, 01 meeting of Selection Board has been held during the reporting period.

Meeting #	Date of Meeting
32	July 28, 2021

Finance and Planning Committee:

By the end of year 2020-21, 30 meetings of Finance and Planning Committee have been held, out of which 01 meeting was held during the reporting period.

Meeting #	Date of Meeting
30	September 10, 2020



Board of Studies (BoS):

The purpose of BoS is to advise the authorities on all academic matters connected with instruction, research and examination in the subject or subjects concerned. Besides, it proposes curricula and syllabi for all degrees, diplomas and certificate courses, initiation of new programs, and suggests panel of examiners etc.

Until the year under review, 361 BoS meetings have been organized, 28 BoS meetings were held during the reporting period.

Board of Faculty (BoF):

The purpose of BoF is to coordinate the teaching and research work in the subject assigned to each Faculty, to scrutinize the schemes of courses and syllabi proposed by the Board of Studies comprised in the Faculty and recommend it to the higher academic foras along with its observations, to examine the list of examiners and any other functions as required.

Till August 31, 2021, 117 BoF meetings have been organized, 05 BoF meetings were held during the reporting period.

Uniform Management System (UMS)

UMS system was introduced at COMSATS University Islamabad (CUI) erstwhile CIIT in 2009 at Abbottabad Campus and became functional across all its campuses in 2012.

Objectives of Uniform Management System (UMS):

- The main objectives of UMS are:
- To standardize all the aspects of the University
- To develop quality teaching and research productivity through planning and monitoring, feedback and control

In order to achieve afore mentioned objectives three committees namely Campus Management Committee (CMC), Campus Academic Regulatory Committee (CARC), and Departmental Academic Regulatory Committee (DARC) were constituted on

January 24, 2012. They plan strategies and formulate procedures for improving the quality of education at Departmental and Campus levels. CUOnline (web-based software) is used to gather feedback by generating various monitoring reports whereas CARC at campus level and by DARC at department level look into the issues hindering in the way of achieving objectives and also suggest the solutions to overcome these problems.

CMC:

The Campus Management Committee meetings are held before the start of semester to foresee the issues which Campus may come across and then these issues are resolved. This committee takes care of matters like availability of class rooms, furniture, books etc.

CARC:

CARC works to ensure the uniformity, consistency, harmony and maximum utilization of campus resources to meet the standards prescribed under the UMS. The committee comprises of different members who are both from academic and administration facets and work at campus level. Campus Incharge/ Director is the convener of CARC. It must have at least five sessions during per given semester to formulate, systematize and ensure timely flow of information, and procedures compliance. It is also responsible to place a check to ensure quality education, and all the departments of the campuses are required to meet the standards as prescribed by Campus/University. It ensures the harmony and cooperation among the departments of the same campuses.

DARC:

DARC entertains all the matters related to department and its prime objective is to create harmony within the department by implementing approved policies and procedures. DARC comprises of at least three senior members of the department. Head of the department is the convener of DARC. This committee is solely authorized to ensure and take necessary measures to improve



education system and correlated issues, using qualitative as well as quantitative measures. The committee meets all the faculty of the department at least twice per semester. All disputed/unsolved matters are referred to CARC. Introducing the new disciplines among courses is one of the important functions of DARC. It is responsible to ensure efficient grading and marking of papers, assignments, quizzes and sessionals by the faculty during a semester.

Individual Semester Plan Proforma (ISPP):

ISPP is a tool to analyze and evaluate the academic and research work of all PhD faculty members. Three reports are generated on the basis of data given by each department i.e. ISPPs report, discrepancy report, and minimum and maximum workload report of PhDs. It helps in having a clear view of work done by the PhDs in previous and current semester. The main purpose of this proforma is to know the efforts through the students supervised and published

articles. It also describes the classes' load, linkages with international universities and individuals, faculty's commitment for outreach programs and other administrative responsibilities undertaken by PhD faculty, if any. Before UMS was introduced, the information regarding PhD Faculty was collected through ISPP forwarded to faculty through chairpersons. Then it was decided by the competent authority to make it available on CUOnline, where faculty could have easy access to these proforma. Therefore, since last four semesters ISPP have become a permanent feature of faculty portal.

In addition, weekly attendance report of all the Campuses is generated and respective campuses are informed accordingly. Furthermore, reports of midterms, quizzes, sessionals, lab assignments are generated and Campuses are informed about the short comings.

The detail of CARC and DARC meetings held during the reporting period is provided in the Annexure D.





Chapter 14:

Office of Development / Students
Financial Aid Office (SFAO)



The department of Student Affairs is a service provider which delivers on the spot services related to accounts, examinations, academics, students-related queries, and conflict resolution. The newly enrolled student guidance right from the first day of orientation, photo taking to their final clearance from the university is handled by the department. These services are not limited to resolving problems related to accounts and exam but students are also helped to understand the CUI academic and other rules and regulations and how not to become effected by the ignorance of rules and deadlines.

The Students Affairs Financial Aid Office (SFAO) is part of the Student Affairs at almost all the campuses. Overall, during the reporting year, funds of Rs.924,936,627/- were disbursed among 5342 students (including, BS, MS and PhD Students) in 17 different scholarship/assistance programs in all CUI campuses. Various activities carried out by SFAOs at CUI Campuses during the reporting period are as follows:

Islamabad Campus

The SFAO at CUI Islamabad Campus is working to provide a platform for the students which are financially challenged. Student Affairs actively demonstrate its ability and concerns regarding closing of student portals and their late fee funds and other related financial problems. Numerous cases of late fee fine and fee submission were handled by SFAO office. In many of the cases, students were given guidelines to secure funds and also Meezan

Bank scholarship. SFAO office also facilitated students in getting student loans from National Bank of Pakistan.

Students and employees of CUI are all facilitated through kinship funding and also through employee fee concession cases. All cases of Benevolent Fund and all external scholarships or government relives schemes are handled by SFAO office under the umbrella of Department of Student Affairs.

SFAO office deals in Prime Minister Fee Refunds, USAID scholarships, Balochistan Educational Endowment Fund and other related funding schemes. We have a detailed structure and standard operating procedures in handling the Workers Welfare Board (WWB) fund and the guidance for students and parents in successfully securing the funds. SFAO office also launched the PEEF scholarship and distributed the funds through government issued pin code and cards amongst the students. Student Affairs is currently working on collection and securitization of Ehsaas Program-2nd stream undergraduate scholarships.

Abbottabad Campus

SFAO office at CUI, Abbottabad Campus organized various activities in the reporting period.

Internal Scholarships:

Some notable internal scholarships awarded to students of CUI Abbottabad campus which are as under:



Sr. No	Scholarship Name	Number of Students	Amount in Rs. (Total)
1	Army Wards	114	3,040,295/-
2	CAMS	627	30,155,625/-
3	CUI Female Merit Based Sch	22	1,713,250/-
4	Departmental Scholarship (BTY, BES, BDS)	134	6,237,250/-
5	Dhamtor Scholarship	10	676,375/-
6	MS Scholarship	296	7,881,000/-
7	Siblings	168	1,344,000/-

In addition to regular students' assistance for their scholarships, the MoU was signed between Pakistan Bait-ul Mal and CUI, Abbottabad Campus on June 23, 2021. Mr. Malik Zaheer Abbas Khokhar, Managing Director Pakistan Bait Ul Mal, and Dr. Zafar Khan Safdar, Director Administration Pakistan Bait ul Mal visited CUI, Abbottabad Campus for MoU signing ceremony. During the address of Prof. Dr. Imtiaz Ali Khan, Director CUI, Abbottabad, he stressed upon the importance of mutual understanding between the two organizations. Furthermore, he extended his full support regarding any upcoming project of Bait-ul-Mal in the future.

The MoU was signed for the next two years and to his generosity, Malik Zaheer Abbas Khokhar, MD, PBM has announced 50 seats for CUI Abbottabad Campus. The Bait ul Mal team visited CUI, Abbottabad campus and MD appreciated the hard work of the campus in imparting quality Education.

On June 28, 2021, a brief ceremony of Ehsaas Undergraduate Scholarship Program was held at CUI Abbottabad Campus and cheques were distributed amongst the students.

Lahore Campus

- SFAO office at CUI, Lahore Campus organized various activities in the reporting period.
- Counseling and Training Sessions organized by SFAO office for Students

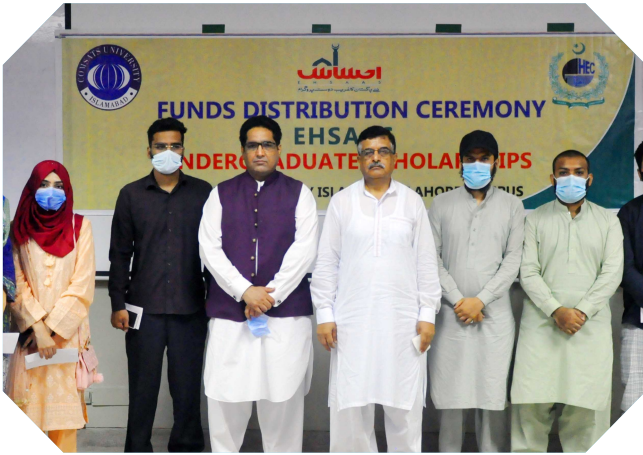
- Scholarships/Financial Aid information desk was setup and orientation session was held for students' counseling on February 15, 2021 at N-Block CUI Lahore.
- Two staff members from SFAO; Mr. Mahmood Farooq and Ms. Saima Sajid attended three days (March 29-31 2021) online workshop on "effective Business Writing Skills" arranged by HEC/PAK-USAID
- Scholarships/Financial Aid information desk was setup for students counseling on August 08, 2021 at D-Block CUI Lahore at the event of Open House NTS Test.
- Scholarships/Financial Aid information desk was setup for students counseling on August 15, 2021 at D-Block CUI Lahore at the event of Open House NTS Test.

In-charge SFAO, Mr. Tasawar Hussain and Manager, SFAO, Mr. Nisar Ahmed attended a meeting under the chair of worthy Director at the Director office on November 18, 2020 with Heads of A&R & CIF in context with Financial aid program/Interest free loan that was being extended to CUI Lahore students by Ihsan Trust/Meezan Bank. From Donor side Mr. Farhan ul Haq Usmani Secretary general/Trustee of Ihsan Trust attended the meeting. A fruitful discussion took place on the points of common interest between CUI Lahore and Ihsan Trust to further strengthen the mutual coordination. At the



end of the meeting, a souvenir was presented to the guest from Ihsan Trust.

HEC Ehsaas Scholarship Stipend/Funds distribution ceremony was held on June 11, 2021 at CUI Lahore Campus. Muhammad Ahmed Farooqui, Head of Academics and Research distributed the cheques among scholars/students.



Funds Disbursement Details

Total funds of Rs. 442,538,495/- have been disbursed during the reporting period, 2020-21 among the students of CUI Lahore Campus in different types of Scholarships/ Financial Support Programs. SFAO office also arranged tickets expenses of Rs. 100,000/- through PEEF Donor agency to one of CUI Alumni, Mr. Muhammad Sultan Irshad, to pursue his PhD degree (Physics) in China.

Attock Campus

- Students Financial Aid Office at CUI Attock Campus was established on May 30, 2013 with the aim to
- Liaison with CUI Principal Seat and Donor Agencies
- Provide assistance to qualified students to obtain the financial aid they need to in achieve their educational goals
- Help students and their parents search for, apply, receive and maintain eligibility for various types of

financial aid.

- Provide proactive and responsive financial aid counseling
- Since its establishment, SFAO has helped thousands of students in getting different types of financial aid and scholarships.

During the reporting period of 2020-21 following activities were executed at SFAO office:

- Cheque distribution Ceremony among PEEF scholars was held in January 2021.
- Laptop distribution ceremony among the disabled students was held in March 2021
- Pre ISAC for shortlisting of applications of Ehsaas Scholarship & ISAC for Ehsaas Scholarship Award was held in February and March 2021.

Wah Campus

Office of SFAO is looking after various activities. Following are the prime responsibilities:

- Announcement of all external scholarships.
- Processing scholarship according to given criteria.
- Disbursement of fund.
- Preparing fund's utilization reports for donor agencies.
- Processing all internal scholarship programs.

This office is taking care of all above activities in true letter and spirit. In the year 2020-21 SFAO Office distributed an amount of 140 million among 1767 students. All scholarships (e.g. HEC need based, PEEF Special quota scholarship, HEC Ehsaas Undergraduate Scholarship) are being processed efficiently from its announcement till the selection.

Implementation

SFAO CUI, Wah Campus distributed a huge amount on Campus Based scholarships, including Academic excellence, Employee pecuniary, Admission Merit scholarship, POF Scholarship and Financial Assistance during 2020-21. The detail of scholarship awarded is as under:

Scholarships Report (2020-2021)					
S #	Scholarship Title	Number of Scholarship Recipients in Fall 20 Semester	Amount of Scholarship in Fall 2020	Number of Scholarship Recipients in Spring 2021 Semester	Amount of Scholarship in Spring 2021
1.	Academic Excellence Scholarships	58	780,000	63	895,000
2.	Kinship/ Siblings Pecuniary	110	880,000	79	632,000
3.	POF Employees Scholarship	80	3,301,400	80	3,362,400
4.	Scholarship Scheme for BBA & BAF Intake SP20 & FA20	14	892,500	1	42,500
5.	Scholarship Scheme for All MS Programs Intake SP20 & FA20	121	5,098,707	149	6,030,577
6.	Admission Scholarship for MS (Mechanical Engineering) Intake SP19 & FA19	2	106,500	0	-
7.	Admission Merit Scholarship (Undergraduate Program)	2	168,000	6	508,000
8.	CIIT Employee Pecuniary	8	705,500	11	971,000
	Total Internal Scholarships	395	11,932,607	389	12,441,477
9.	HEC Need Based Scholarship	15	1,827,000	6	756,000
10.	Ehsaas Undergraduate Scholarship Program	320	37,318,250	309	36,601,500
11.	66 Scholarship Foundation	0	-	6	336,000
12.	PM Fee Reimbursement Scheme for Less Developed Area	12	810,000	9	584,100
13.	Meezan Bank Qarz-e-Hasna	1	78,500	2	124,000



S #	Scholarship Title	Number of Scholarship Recipients in Fall 20 Semester	Amount of Scholarship in Fall 2020	Number of Scholarship Recipients in Spring 2021 Semester	Amount of Scholarship in Spring 2021
14.	Workers Welfare Board Punjab	107	12,640,525	104	13,129,025
15.	Workers Welfare Fund-KPK	24	3,090,125	24	3,027,375
16.	Workers Welfare Fund-Islamabad	3	329,000	3	346,975
17.	Punjab Educational Endowment Fund (PEEF Masters Level)	11	2,249,500	9	688,500
18.	Punjab Educational Endowment Fund (PEEF Undergraduate)	2	114,800	3	96,750
19.	HEC (Indigenous Scholarship)	2	705,100	5	1,364,072
20.	Qarshi Foundation Trust	0	-	1	18,000
21.	Political Scholarship for FATA Students	2	314,000	1	59,000
22.	Kashmir Scholarship	0	-	1	25,000
23.	BISE Rawalpindi	1	35,400	0	-
	Total External Scholarships	500	59,512,200	483	57,156,297
	Grand Total	895	71,444,807	872	69,597,774

Initiatives

Following scholarships were launched during 2020-21 to attract good students:

- Scholarship Scheme for BS (BA) and BS (BAF) for intake SP-20 and Fall-20
- Scholarship Scheme for all MS programs SP-20&FA-20
- Admission Scholarship Scheme for MBA Fall-20 Intake

Future Plans

SFAO, CUI Wah Campus is striving for seeking more scholarships for its students by signing MoU with Pakistan Bait ulMaal.

Sahiwal Campus

The SFAO at CUI, Sahiwal Campus has always been providing support to the needy and deserving students by finding funding opportunities locally as well as internationally. The office deals with internal and external scholarships. The students are offered merit scholarships at the time of admission. Currently there are 1,105 students under merit scholarships out of which 391 of newly enrolled students got admission in 2020-21. The total amount under Merit Scholarships and support in few programmes is Rs.20 millions for this period 2020-21.

Ehsaas Undergraduate Scholarship Program Phase I

Under this program, 173 students were awarded scholarship and Rs.68 Million disbursed to them in the period under review.

Ehsaas Undergraduate Scholarship Program Phase II

For Phase II, 174 students were awarded scholarship and Rs.44 Million distributed amongst them.

Pak-USAID Funded Merit and Needs Based Scholarship Program and Scotland Pakistan Scholarship Scheme for Young Women and Girls are also available under the umbrella of HEC.

38 students from Danish School System were awarded scholarship and Rs.3.678/- Million were distributed amongst them. Moreover, PEEF Undergraduate and Master Level Scholarships are also being provided to the students as made available by the funding agency.

Vehari Campus

The SFAO, Vehari Campus has been established in the year 2012-13 under the umbrella of Office of Development Islamabad where all kinds of scholarships and financial assistance are being dealt with. SFAO offered various Scholarships at CUI, Vehari Campus and summary of scholarship is as under;

S #	Scholarship Title	Total No. of Students
1	HEC Need base Scholarship	8
2	PEEF Scholarship	35
3	Ehsas Undergraduate Scholarship	568

Implementation

The process involves:

- Scholarships announced by funding agencies
- After the announcement of any scholarship, students are informed via notification to submit application forms.
- Forms are checked thoroughly and ask the applicants are asked to make necessary amendments (if required).
- A data sheet is geared up containing all obligatory information required by the funding agency.
- Data sheet along with application forms is sent to the relevant authorities for further proceeding.
- Authorities of the funding agencies shortlist applicants for the interview.
- Eligible applicants appear before interview panel for the final selection.
- Selected applicants are awarded scholarship
- Selected applicants do submit all mandatory documents (if required)


Future Plans

Future plans of Office of Development include:

- To provide scholarships and financial assistance to the talented and deserving and students.







Chapter 15:
Health Center/Medical
Facilities



Medical Facilities

Islamabad Campus

CUI has always been at the forefront to ensuring the wellbeing of its students and staff. Healthcare of the students and staff has always been a priority. Keeping this in view, CUI Medical Centre Islamabad Campus was established in 2009 with a qualified and dedicated Medical Team.

Medical Centre is a three bed observatory providing free First Aid medical treatment. It is comprised of 3 doctors, 3 staff nurses and 2 paramedics. Apart from providing health cover to its students and staff, medical team also provides medical cover during official conferences, sports weeks, meetings etc. Medical Centre is also involved in health awareness programs/lectures on regular basis to promote health education among students and staff. Breast Cancer Awareness Day in collaboration with Pink Ribbon is organized annually. Blood donation camp in collaboration with Pakistan Red Crescent Society is arranged biannually.



Ambulance Service

COMSATS Medical Centre has 2 well equipped ambulances providing services to patients requiring referral to emergency medical care.

Dental Unit

A dental unit is operational at Islamabad Campus since 2015. A qualified Dentist with professional staff provides complete dental care with high standard of treatment.

COVID 19 Pandemic and Medical Centre

Medical Centre is playing a pivotal role during Covid-19 pandemic. The main purpose is to ensure all possible precautions to minimize the spread of infection amidst COVID-19 Pandemic while providing the opportunity to resume educational activity.

Following activities were conducted from start of pandemic to-date.

- Establishing and implementing SOPs for suspected Corona Cases.
- Establishing and implementing SOPs for Infection Control/Disinfection.
- Establishing and implementing SOPs for student and Faculty cafeteria.
- Establishing Hand Washing and Hand Sanitizer Stations throughout the campus.
- Maintaining Covid 19 positive patients record on daily basis.
- Establishing and maintaining Covid 19 vaccination data of Comsats employees on daily basis.
- Data uploading of vaccinated employees on Google Link provided by HEC on daily basis.
- Sop's prepared and implemented from time to time for COVID-19 precautions and to manage the positive cases with disinfection of work place.
- Timely referral of COVID – 19 symptomatic patients to NIH for PCR testing.

COVID-19 vaccination Camps

The Medical Centre at Islamabad Campus organized two COVID-19 vaccination camps on June 30, 2021 and August 10, 2021 in collaboration with NCOC and District Health Authority.

The basic objective of the said activity was to provide COVID-19 vaccination facility to the employees and students of Islamabad Campus. The outcome of vaccination camp was extremely encouraging, more

than 500 students and staff were inoculated.

- **COVID-19 PCR Test Camp**

Comsats University Medical Centre Islamabad organized COVID-19 PCR Test Camp on September 24, 2021 in collaboration with NIH. 300 tests were conducted.

Abbottabad Campus

Medical Center is functional at CUI Abbottabad campus since April 17, 2006, providing health care facilities to all students and employees. The present strength of the center is as under:

- Senior Medical Officer) = 1
- Dispenser = 1
- Peon = 1

The Medical center is dedicated for provision of first aid, Primary Health Care services, Dressings / ASDs, Emergency treatment, referral of serious emergencies are referred to Ayub Teaching Hospital and CMH Abbottabad. An ambulance is available for shifting emergencies

The SOPs (Safety Protocols) are strictly observed at Medical Center. Awareness messages were displayed to provide basic information about Covid-19, and about health and safety of all students, faculty.



Prevention of COVID -19 Pandemic

- In response to COVID -19 pandemic National Security Committee (NSC) made decisions needed to control the pandemic in line with WHO guidelines 2020, by following the strategy for gradual reopening of HEIs, SOPs and protocols provided by government.
- Due to COVID -19 Pandemic and according to NCOC all academic and physical activities are restricted at the Campus, so number of patient is grossly decreased

SOPs (Safety Protocols) are being strictly observed at **Medical Center**

Lahore Campus

The medical center at CUI Lahore Campus provides 24/7 first-aid and basic health caring facility for the students, staff, and residents. Provision to perform some basic test and emergency procedures is available. Moreover, Ambulance facility is also available on campus 24/7.

Counseling for Stress Reduction

The counseling center of the Department of Humanities has been functional since 2015 till date. Students frequently come to clinical psychologist for seeking counseling services. The faculty of psychology provides services to students to resolve their academic, emotional, behavioral, communicational, interpersonal and family issues.

Vehari Campus

CUI, Vehari Campus has first aid medical facility for students and staff. One Dispenser is appointed with all the emergency equipment and medicines.

Sahiwal Campus

As the CUI, Sahiwal Campus is located away from the main city therefore, a reasonably equipped dispensary is working at the campus which looks after by a trained staff member who provides the services to faculty, staff and students. The medical room has one bed, first aid box and emergency medicines. Complicated Medical cases are referred



to the specialist doctors in the DHQ, Sahiwal. A 24/7 ambulance service is also available to move the patients in case of an emergency.

Mobile vaccination for COVID-19:

Keeping the health of stakeholders as first priority, Mobile vaccination for COVID-19 was arranged in the campus, in collaboration with Punjab and District Government, Faculty, Staff, and Students were vaccinated against coronavirus through COVID-19 Vaccination Mobile Health Unit at CUI, Sahiwal Campus.

Counseling for Stress Reduction:

At CUI, Sahiwal Campus, a team of batch advisors, under the supervision of Incharges, each batch is composed to focus over the students who are on probation or stressed out for any reason. To accomplish this, Incharge arranges meetings of the batch advisors. Informative letters are sent to the families of such students, updating about the progress of the students. For the particular purpose of student counseling a standard operating procedure is also developed. The procedure is as follows:

- Students' batch advisors will analyze & try to identify the root cause.
- He/she will keep relative subject teachers in loop.
- If necessary, parents will be called to involve in taking positive measures to improve student performance.
- Students are encouraged to discuss their academic as well as social issues with the batch advisor to get proper advice and guidance for the future directions.

The batch advisor maintains the record of weak/stressed out students. Counseling sessions and seminars are arranged with such students. The batch advisors also hold follow-up meetings to check the progress of counseling sessions

Wah Campus

A Medical Centre has been established in the Campus to provide emergency treatment to students and employees. A full-time Female Doctor and experienced Dispenser has been engaged in Medical Centre. Medical Centre is equipped with all basic facilities. Moreover, two ambulances are also available for emergency.





Annexure



Annexure A: List of Active International Collaborations during 2020-21

There were 27 active international collaborations which are as under:

S#	Name of Institution
1	Belarusian State University, Belarus
2	Belarusian State University of Informatics and Radio Electronics, Belarus
3	UNESCO
4	TWAS, Italy
5	University of Perpignan via Domitia, France
6	Sejong University, South Korea
7	Nanjing Institute of Geology and Paleontology, Chinese Academy of Sciences, China
8	Middle East Technical University, Turkey
9	Middle East Technical University, Turkey
10	Huanghuali University, China
11	Universided Federal De lavras, Brazil
12	Interdisciplinary Center for scientific computing Heidelberg University Germany
13	The Association of Commonwealth Universities (ACU), London
14	Fujian Normal University China
15	Erasmus+ Programme (Inter-institutional agreement 2018-2020 with University Cote d'Azur. France
16	Shenzhen University, China
17	Duzce University, Mevlana Exchange Protocol, Turkey
18	South Central University for Nationalities, China
19	Tianjin University of Science and Technology, China
20	Tongji University, China
21	Tianjin Institute of Industrial Biotechnology Chinese Academy of Sciences
22	Guangzhou University, China
23	The Abdus Salam International Centre for Theoretical Physics (ICTP), Italy
24	International Joint Laboratory, Huanghuali University China
25	Industrial Technology Institute, Sri Lanka
26	Technological University Tajikistan, Tajikistan
27	Harbin Engineering University, China



Annexure B: List of Completed Development Projects 2020-21
Higher Education Commission and Ministry of Science and Technology

S#	Name of the Project	Capital Cost
1	Strengthening of CIIT Labs, Islamabad (Revised)	22.930
2	Construction of Academic Block for CIIT, Islamabad (Revised)	46.610
3	Provision of Transport Facilities at CIIT, Islamabad	3.000
4	Capacity Building at Department of Mathematics, CIIT, Islamabad	29.608
5	Strengthening of the Telecom Engineering Department, CIIT, Islamabad	29.820
6	Designing and Fabrication of Micro and Nano Electronic Devices for Applications at the Department of Physics COMSATS Institute of Information Technology, Islamabad	185.448
7	Establishment of Permanent Campus of COMSATS Institute of Information Technology at Chak Shahzad, Islamabad (Revised)	395.373
8	Establishment of Radiation Physics Laboratory in the Department of Physics at CIIT, Islamabad	38.750
9	Provision of Essential Facilities at CIIT, Islamabad (Revised)	650.755
10	Establishment of Business Incubation Center at CIIT, Islamabad	56.803
11	Feasibility Study for Establishment of Technology Park, Islamabad	53.650
12	Infrastructure Development of Permanent Campus of COMSATS Institute of Information Technology Chak Shahzad, Islamabad	2,862.656
13	Engineering Faculty Development at CIIT Islamabad	229.800
14	Faculty Development at University of Illinois at Urbana Champaign, USA	515.391
	Total	5120.594
	Abbottabad	
15	Capacity Building at CIIT Abbottabad (Revised)	36.184
16	Establishment of a CIIT Campus at Abbottabad	38.131
17	Provision of Support Facilities at CIIT Abbottabad	31.903
18	Construction of Engineering Block at CIIT, Abbottabad	39.426
19	Post-Earthquake Rehabilitation at CIIT, Abbottabad	39.630
20	Provision of Physical Facilities at CIIT Abbottabad	469.945
	Total	655.219



S#	Name of the Project	Capital Cost
Lahore		
21	Provision of Support Facilities at CIIT Lahore (Revised)	38.302
22	Establishment of CIIT at Lahore (Revised)	39.000
23	Strengthening of CIIT, Lahore (Revised)	27.553
24	Establishment of Telecom and IT Labs at CIIT, Lahore	36.540
25	Development of Labs and Faculty Offices to Meet the Urgent Requirement Using Pre-Engineered Steel Blocks at CIIT, Lahore	33.223
26	Upgradation of Existing Facilities at COMSATS Institute of Information Technology (CIIT) Campus at Lahore.	35.240
27	Establishing / Strengthening Research and Development Activities in Chemical Engineering Department at the CIIT, Lahore	38.377
28	Strengthening of the Department of Biomedical Material Sciences at CIIT, Lahore	37.953
29	Development of Imminent Academic & Support Facilities at COMSATS Institute of Information Technology Lahore	684.518
	Total	970.706
Wah		
30	Equipping and Furnishing of New Block of the CIIT, Wah	33.790
31	Provision of Academic and Support Facilities at CIIT, Wah	52.650
	Total	86.440
Sahiwal		
32	Establishment of Permanent Campus of COMSATS Institute of Information Technology at Sahiwal	407.989
	Total	407.989
Attock		
33	Establishment of CIIT Campus at Attock (Phase-I)	31.270
34	Establishment of Permanents Campus of CIIT, Attock	472.352
	Total	503.622
Vehari		
35	35Establishment of CIIT Campus at Vehari	426.154
	Total	426.154

S#	Name of the Project	Capital Cost
	Multi-Campus	
36	Network Enhancement of CIIT LANs and Development of Intranet	32.516
37	Transfer of Land and Construction of Boundary Wall. etc on Land Allocated for Establishing COMSATS Institute of Information Technology, Campuses at Attock, Gujrat, and Sahiwal	31.988
38	Establishing for COMSATS Institute of Information Technology, Larkana, Vehari, Karachi, Quetta. (PC - II)	12.000
39	Infrastructure Development at CIIT Abbottabad, and Wah (Revised)	344.676
	Total	421.180
	Total (HEC+ MoST)	8591.904
	Ministry of Information Technology (MoIT)	
40	Information Technology Resource Development Medical Transcription Training for Young Doctors and Graduates. (Revised)	20.003
41	IT Faculty Hiring Program (Revised)	24.903
42	Information Technology Resource Development: Pilot Project for Producing 1000 Developers in Java Technology (Revised)	39.682
43	Information Technology Resource Development of Federal Govt. Employees in BPS 5-15 in IT (Revised)	20.339
44	Information Technology Resource Development IT Training of Graduates having MS/BE Degree from Baluchistan (Revised)	12.788
45	Technology Resource Mobilization Unit TReMU (Revised)	14.504
46	Information Technology Resource Development Legal Transcription Training (Revised)	35.200
47	Renovation of Administration, Auditorium and other Blocks of Higher Education Commission, Islamabad	21.949
48	Construction of C&T Building, Higher Education Commission, Islamabad	39.785
49	Information Technology Resource Development Medical Transcription Training for Young Doctors and Graduates. (Revised)	32.535
	Total (MoIT)	261.688
	Grand Total (HEC + MoST + MoIT)	8853.592



Annexure C: List of On-Going Development Projects

The Project wise allocations and releases of on-going development projects for 2020-21 are as under:

S#	Name of the Project	Capital Cost	Allocation	Releases
Higher Education Commission				
i)	Establishment of CIIT Campus at Abbottabad	861.269	25.000	0.000
ii)	National Centre of Artificial Intelligence Islamabad	97.570	24.560	23.500
Total HEC (a)		958.839	49.560	23.500
Ministry of Science and Technology				
i)	Establishment of Center for Advanced Technologies in Biomedical Materials (Knowledge Economy Initiative)	849.328	218.138	205.730
Total MoST (b)		849.328	218.138	205.730
Grand Total (a+b)		1808.167	267.698	229.230

Annexure D: Detail of CARC and DARC meetings

CARC Meetings-UMS for Quality and Productivity Improvement at All CUI Campuses during Fall 2020 Semester		
#	Meeting #	Date
1	1 st Meeting	October 5, 2020
2	2 nd Meeting	November 16, 2020
3	3 rd Meeting	December 29, 2020
4	4 th Meeting	January 22, 2021
5	5 th Meeting	-

CARC Meetings-UMS for Quality and Productivity Improvement at All CUI Campuses Except Abbottabad Campus during Spring 2021 Semester		
#	Meeting #	Date
1	1 st Meeting	March 04, 2021
2	2 nd Meeting	April 28, 2021
3	3 rd Meeting	June 10, 2021
4	4 th Meeting	July 15, 2021
5	5 th Meeting	August 11, 2021

CARC Meetings-UMS for Quality and Productivity Improvement at CUI Abbottabad Campus during Spring 2021 Semester

#	Meeting #	Date
1	1 st Meeting	March 16, 2021
2	2 nd Meeting	April 30, 2021
3	3 rd Meeting	June 25, 2021
4	4 th Meeting	-
5	5 th Meeting	-

DARC Meetings-UMS for Quality and Productivity Improvement at All CUI Campuses during Fall 2020 Semester

#	Meeting #	Date
1	1 st Meeting	September 20, 2020
2	2 nd Meeting	October 12, 2020
3	3 rd Meeting	October 26, 2020
4	4 th Meeting	November 12, 2020
5	5 th Meeting	November 26, 2020
6	6 th Meeting	December 10, 2020
7	7 th Meeting	December 24, 2020
8	8 th Meeting	January 07, 2021
9	9 th Meeting	January 20, 2021



DARC Meetings-UMS for Quality and Productivity Improvement at All CUI Campuses Except Abbottabad Campus during Spring 2021 Semester

#	Meeting #	Date
1	1 st Meeting	February 24, 2021
2	2 nd Meeting	March 10, 2021
3	3 rd Meeting	March 24, 2021
4	4 th Meeting	April 07, 2021
5	5 th Meeting	April 21, 2021
6	6 th Meeting	May 06, 2021
7	7 th Meeting	May 20, 2021
8	8 th Meeting	June 03, 2021
9	9 th Meeting	June 17, 2021

DARC Meetings-UMS for Quality and Productivity Improvement at CUI Abbottabad Campus during Spring 2021 Semester

#	Meeting #	Date
1	1 st Meeting	March 11, 2021
2	2 nd Meeting	March 24, 2021
3	3 rd Meeting	April 12, 2021
4	4 th Meeting	April 23, 2021
5	5 th Meeting	May 17, 2021
6	6 th Meeting	June 22, 2021
7	7 th Meeting	-
8	8 th Meeting	-
9	9 th Meeting	-

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