



SDGs @ CUI Wah Campus



Volume 3 July - December 2023

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Patron:

Prof. Dr. Sajid Qamar
Rector CUI

Editor:

Prof. Dr. Muhammad Abid, T.I.,
Director Campus

Designing & Development:

Ms. Asma Ilyas
Mr. Zeeshan Cheema

The COMSATS University Islamabad, CUI Wah Campus playing pivotal role in delivering high-quality education, elevating academic standards to strengthen the students learning, nurturing their entrepreneurial skills for their future success, promoting research endeavors and extended scholarships for the betterment of society at large.

Sustainable Capacity Building is determined through launching of new programmes, conducting research and sharing knowledge. CUI Wah Campus has made significant progress by launching Doctoral Programme in Mathematics, BS in Artificial Intelligence and Computer Engineering.



In year 2023, CUI Wah Campus established partnerships and created synergies with the University of Wah (UW), Benazir Bhutto Shaheed University of Technology and Skill Development (BBSUTSD) and ID – ware Pakistan (SMC) Private Limited with the focus to mobilize linkages to work together in organizing the Seminars, Conferences, Symposiums and Research.

CUI Wah Campus has highly qualified faculty comprising over 87 PhD's, including 13 Professors and 37 Associate Professors. In the last three months faculty has contributed more than 50 research publications. Our student body comprises 3127 enrolled students and with over 10,000 students have been graduated in various academic disciplines.





No Poverty

End poverty in all its forms everywhere

Excellence in Higher Education to Eradicate Poverty

CUI Wah Campus determined in providing higher education to empower youth for building capacities in the disciplines of Electrical, Computer, Civil and Mechanical Engineering, Computer Science and Management Sciences for sustainability, growth and economic prosperity to fight to eradicate poverty for establishing skill-based economy.

No economic growth and poverty alleviation is possible without higher education. The Merit, Kinship, Pecuniary, Admissions Scholarships are contributed significantly in mobilizing youth in achieving academic excellence to fight against poverty.

The Academic Excellence distribution ceremony was held on November 28, 2023 to recognize the outstanding academic achievement of the students by awarding them with the merit and acknowledgement certificates.



Aims to Empower to Envision Future

Vocational trainings provided hands on experience to empower the economically disadvantaged youth by enhancing their working skills, building career to make them succeeded beyond their known potential to become them an active member of the society.



No Potential goes Untapped

In Year—2023 Four graduate students were awarded with the fully funded scholarship under the USAID-funded Merit and Needs-Based Scholarship (MNBS) Program for providing sustainable future to talented deserving but financially deprived students for their personality and career building to provide greater access to grab career opportunities to attain the goals in poverty reduction.

The training on “Scholarship Management System of USAID-funded Merit and Needs-Based Scholarship Program (MNBS)”, was attended on August 31, 2023 by the In-charge, Student Financial Aid Office (SFAO) Ms. Sadia Nawaz.



Hands-on Training on the Implementation of Scholarship Management System



Good Health and Well -Being

Ensures Healthy Lives and Promote Well-Being for all at all Ages

Skills Development Rising by Lifting Others - Seerat Exhibition

The educational exhibition organized by the Department of Electrical and Computer Engineering and, Qirat & Naat Society of CUI Wah Campus in collaboration with Al-Madina Islamic Research Center (MIRC) & Nibras Institute, Karachi on Oct 5, 2023 to deliberate the life and teachings of the Holy Prophet, Muhammad (SAWW). The visitors were briefed about the life, character, and mission of Holy Prophet Hazrat Muhammad (SAWW) which plays a significant role in Islamic history and the understanding of Islam.

To igniting the spirit of knowledge of seerah of Holy Prophet Hazrat Muhammad (PBUH) different ranges of artifacts, interactive presentations, and multimedia elements were used to engage visitors and guide them to learn more about the Holy Prophet's Hazrat Muhammad (SAWW) life, his teachings, and the historical context in which he lived. The exhibition was attended by a large number of students, faculty and staff members, and civil society representatives.



Awareness Session on Physical, Social and Mental Well – Being

The Outreach Program Committee, CUI Wah Campus, organized a highly informative awareness session on July 12, 2023. Dr. Ambreen Shahnaz, welcomed the guests and introduced the team of Outreach Program, Speakers and Event modalities. Dr. Yaar Khan, Convener of the Outreach Program Committee shared the fundamentals of UN SDG's, Committee's objectives and initiatives.



Ms. Nabila Raheem, a professional Clinical Psychologist, discussed adolescent development, the importance of mental health for socialization and some common causes of mental illness.

Dr. Hira Khan, a medical professional provided valuable insights on physical, healthy lifestyle and precautionary measures to make ourselves active, while Dr. Rukhsana Sheikh, a renowned Gynecologist, highlighted reproductive health, a state of physical, mental and social well-being. HoD, Dr. Amir Rajput presented acknowledgement souvenirs to the guest speakers on behalf of Director Campus, Prof. Dr. Muhammad Abid, T.I.

Secret to Happiness is to be Kind to Others - Character Building

Mrs. Tasneem Arifa, Founder and Principal of Babu-ul- Islam, a motivational speaker, Quran Instructor, coach, and trainer delivered an effective lecture on the Purpose of life on October 26, 2023.

The main objective of this seminar was to empower youth in light of the Quran, wellness, and self-care, reclaim hearts, manage stress/ anxiety, and connect with Allah Subhanahu Wa Ta'ala in light of the Quran & Sunnah (PBUH).



Co - Curricular Activities for Shaping Personalities

To ignite the enthusiasm of students, the opening ceremony of Student's Week was held on October 9, 2023. The students displayed the burst of colorful performances in a week-long celebration by participating in different events.



During, Students actively arranged and participated in sports, extracurricular activities with the swift of Cultural Day for highlighting the diversity and strength of Pakistan. The thrilling matches of Cricket, Football, Badminton, Table Tennis, Basketball and Badminton, E-Gamming was held in which players' participated with full dedication. The Dramatics and Mazahiyah Mushahira presented by the humorous poet Mr. Khalid Masood Khan who mesmerized the audience with their verses, invoking emotions and get applause from the audience. The Pet and Auto Shows captivate the attention of the audience. In all events students' remarkably showed their talent. At the closing of the event,



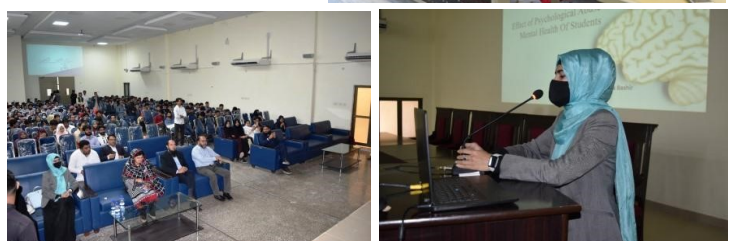
trophies, souvenirs, and certificates were distributed among winners, runner-up teams, individual participants, and organizers.

Problem Solving Contributes in Personal Development

A seminar Conducted on "How to Choose Right Career, Life Purpose and Soft Skills Development." on October 23, 2023. The guest speaker Malik Saram Hadi , CEO EPIC delivered an effective talk on Purpose of life, Soft skills and career development with students.



CUI, Wah Campus, organized a highly informative awareness session on Oct. 26, 2023. The event aimed to raise awareness about mental and physical health. Keynote speaker Dr. Gul-e-Lila, a professional Clinical Psychologist, discussed leadership, adolescent development, and the importance of mental health. Dr. Hira Khan, a medical professional, provided valuable insights on physical health.



An Awareness Session and Teaching/Recreational Activities at Orphanage, Wah Cantt



The Department of Civil Engineering and Outreach Program Committee of CUI Wah Campus jointly organized an awareness session, teaching and recreational activities at Orphanage, Al-Ummat Trust, Wah Cantt on November 16, 2023. The aim of the event was to conduct community services for the children of the Orphanage including both recreational and teaching activities and to foster an interest in community services and cultivating a mindset of reciprocity among the students and special children.

Dr. Muhammad Yar Khan, Associate Professor, Management Sciences and Convener Outreach Program Committee of CUI Wah Campus briefed the audience regarding the scope and commitment of CUI Wah Campus in providing professional services for the betterment of the community.

An awareness session was delivered by the Medical Officer, Dr. Hira Khan. She briefed the special children about self-hygiene and well-being. Practical demonstrations and engaging activities were included to make the learning experience enjoyable for the children. As a gesture of goodwill, faculty and students distributed gifts among the special children. Each child received a personalized gift, carefully selected to bring smiles and joy.

Acknowledgement of Voluntary Blood Donors

The Director of the Campus, Prof. Dr. Muhammad Abid, T.I., presented a certificate of appreciation to Nabeel Alam Khattak, Lecturer from the Department of Computer Science in an award ceremony held on November 28, 2023. This recognition was extended in acknowledgment of his voluntary service, specifically his consistent blood donations aimed at aiding patients and serving humanity. The Director Campus expressed appreciation for Mr. Nabeel Khattak's efforts in saving lives through blood donation, recognizing the immeasurable value of such contributions to humanity, beyond any monetary measure.



The students of Blood Donation Society, CUI Wah Campus, were also awarded with the letter of appreciation on their contribution in arranging the blood donation drives and lending help in arranging the blood for patients.

1. Muhammad Labeeb
2. Kainat Talat
3. Muhammad Ammar
4. Muhammad Haseeb Ahmad
5. Huzaifa Abdullah



4



Quality Education

Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all



Global Recognition based on the UN SDG's



The COMSATS University Islamabad, focuses on adaptive capacity building for educational goals and efforts to achieve SDGs by engaging and providing quality higher education. Empowering women by enabling them to become an active member of the society. The CUI offers a platform to students to enhance their skills through knowledge-sharing activities and grooming them to contribute as active member of society.



PEC Re-Accreditation

Department of
Civil Engineering

Pakistan Engineering Council (PEC),
Islamabad has re-accredited BS
Civil Engineering Degree Program of
CUI Wah Campus for another two years
i.e. intake batches 2019 and 2020
under Level – II.

Building learning capacities is an important attribute of CUI Wah Campus with skills development. Organizing hands on trainings, workshops and seminars keep Students motivated in attaining high level of achievements. Providing them a platform to participate in different awareness activities and competitions.

Academic Development

This year, new academic programmes **PhD in Mathematics** and **BS in Computer Engineering** and **BS in Artificial Intelligence** were commenced at CUI Wah Campus to benefit the community.



RE- Accreditation
Department of Computer Science

National Computing Education Accreditation Council (NCEAC) has re-accredited BS Computer Science and BS - Software Engineering Degree Programs and awarded accreditation to the intake batches Spring - 2019.



New Intake Celebration – Fall 2023

The Orientation Ceremony for new intake of Fall - 2023 semester was arranged at CUI, Wah Campus by the Student Affairs Office on September 10, 2023. The HoDs and concerned departments DCO's from Electrical and Computer Engineering, Civil Engineering, Mechanical Engineering, Computer Science, Mathematics and Management Sciences welcomed the fresh intake. They briefed them on the semester system, academic policies and campus regulations to facilitate them to get them familiar with the Campus academics and administrative operations.



Seminar on Beyond the Code: Exploring Diverse Careers in Computer Science

The Department of Computer Science, ACM Student Chapter CUI-Wah Campus organized a seminar on September 14, 2023. The event was a resounding success, with a packed house and an enthusiastic response from Computer Science students. Guest speakers, Lecturer Mian Muhammad Talha and Ms. Maha Rasheed from the Department of Computer Science shared their industry experiences and presented exciting opportunities for students. The event concluded with a stimulating discussion session and a Q&A, enriching the attendees' knowledge.



Seminar on Integrating Technologies in Civil Engineering

The seminar on "Integrating Technologies in Civil Engineering", organized by the Department of Civil Engineering on September 27, 2023 with the aim to enlighten the spectrum of engineering software applications, digital technologies, artificial intelligence, and the latest trends in digital construction practices. The guest speaker was the distinguished Professional Dr. Naveed Anwar, Senior Advisor to the Asian Institute of Technology (AIT) President and CEO and founder of CSI Bangkok, Thailand.



The Office of Research, Innovation & Commercialization (ORIC) conducted a seminar on **"5G Training Course for faculty by Qualcomm"** on July 10, 2023. Mr. Jawad Hussain focal person from Qualcomm gave the brief presentation on 5G Training Course and guided the complete procedure of registration with the Qualcomm Wireless Academy. He highlighted the premium and flexible training opportunities worldwide within several areas of wireless technology, including 5G, LTE Advanced, C-V2X, WiFi, and more.



Continuing Professional Development (CPD) Seminar

The Department of Civil Engineering conducted a (CPD) Seminar titled "Research and Analysis of the Impact of Substitution Filler on the Performance of Asphalt Mixtures" on November 23, 2023. The guest speaker Engr. Dr. Bilal Zaidi, an Associate Professor of Transportation Engineering at UET Taxila delved into the application of filler materials to enhance the safety, resilience, affordability, and environmental sensitivity of pavement structures.



Academic Success in Completion of Higher Studies - Convocation

The Convocation of COMSATS University Islamabad (CUI), Wah Campus was held on Tuesday, October 24, 2023 at Jinnah Convention Center, Islamabad in which degrees were conferred to **938 graduating students of Wah Camps** at undergraduate and graduate levels in the discipline of Management Sciences, Electrical & Computer Engineering, Civil Engineering, Mechanical Engineering, Computer Science and Mathematics. **36 graduates** were awarded with gold, silver, and bronze medals at the Institute and Campus level on account of their excellent academic performance. Twenty graduates were awarded with the PhD degrees in the disciplines of Electrical and Computer Engineering, Computer



Science, and Management Sciences. Prof. Dr. Mukhtar Ahmad, Chairman, Higher Education Commission (HEC) graced the event as the Chief Guest. Prof. Dr. Syed Junaid Zaidi, Founder Rector of CUI also grace the occasion. The Director, COMSATS University Islamabad, Wah Campus, Prof. Dr. Muhammad Abid, T.I., presented the Campus report.

The Rector CUI, Prof. Dr. Sajid Qamar advised graduating students to be ready and learn rapid technological advancement in the world for future challenging opportunities and to contribute to the economic development of the country.



Workshop on Mastering Sustainable Development Goals (SDGs) and its importance

The Department of Mechanical Engineering in collaboration with ASME CUI Wah Chapter arranged a workshop on October 26, 2023. The talks were delivered by Sher Shah Khan Bangash, CEO Skillistan, Maryam Akhtar, Green Lady Movers Envoy, and Anum Ameer, CEO ARTY.

The speakers introduced the 17 SDGs of the United Nations, their role in society, and their importance in Mechanical Engineering Projects. The speakers also had an interactive session with the students about each SDG.



Seminar on Human Factors and SDGs

On November 24, 2023, the DME, CUI) Wah Campus, arranged , held virtually, featured a presentation of Prof. Dr. Hj. Muhammad Izzat Nor Ma'arof from the Faculty of Mechanical Engineering and Quantity Surveying, INTI International University, Malaysia.

Prof. Izzat's presented the crucial considerations of human factors in engineering designs, particularly those that impact the daily lives of ordinary individuals and industrial workers. He also provided a concise overview of his research team's ongoing endeavors.



He emphasized on the significance of the UN'S SDGs and the connection between his work and the SDGs.



PhD Scholars Successfully Passed their PhD defense

Department of Computer Science

1. **Ms. Rabia Saleem** successfully defended her PhD Thesis titled **“Machine Learning Based Analysis of Agricultural Images for the Detection of Diseases”** supervised by Dr. Jamal Hussain Shah and Co-supervised by Professor, Dr. Muhammad Sharif.



2. **Mr. Mushtaq Khan** successfully defended his PhD Thesis titled **“Energy Efficient MAC Layer Mechanism for the Internet of Things”**, supervised by Tenured Professor, Dr. Nadir Shah and Co-supervised by Professor, Dr. Wasif Nisar.



3. **Mr. Muhammad Bilal** successfully defended his PhD Thesis titled **“Emergency Message Dissemination and Delivery in Beacon-Oriented v2v Networks”** supervised by Prof. Dr. Ehsan ullah Munir.



4. **Mr. Asim Ali** successfully defended his PhD Thesis titled **“Highly Dispersive Substitution Box (S-Box) Design”**, supervised by Professor, Dr. Wasif Nisar and Co-supervised by Professor, Dr. Ehsan ullah Munir.

5. **Ms. Maryam Murtaza** successfully defended her PhD Thesis titled **“Fine-Grained Visual Analysis of Fashion Images using Deep Learning”**, supervised by Associate Professor, Dr. Mussarat Yasmin.

6. **Mr. Nauman Qadeer** successfully defended his PhD Thesis titled **“Tracking Mechanically Thrown Objects for Intelligent Industrial Catching Robot”**, supervised by Assistant Professor, Dr. Jamal Hussain Shah and Co-supervised by Professor, Dr. Muhammad Sharif.

Department of Electrical & Computer Engineering

1. **Ms. Rooha Masroor** successfully defended her PhD Thesis titled **“Efficient Placement and Resource Management in Multilayer UAV Network”**, supervised by Prof. Dr. Muhammad Naeem and Co-supervised by Associate Professor, Dr. Talha Akram.

2. **Mr. Habib ur Rehman** successfully defended his PhD Thesis titled **“Multicriteria Modelling and Analysis of Environment Friendly Buildings”**, supervised by Associate Professor, Dr. Sajjad Ali Haider and Co-supervised by Associate Professor, Dr. Syed Rameez Naqvi.

3. **Mr. Muhammad Rashid Ramzan** successfully defended his PhD Thesis titled **“Efficient multicriterion radio resource management for cooperative UAV”**, Prof. Dr. Muhammad Naeem and Co-supervised by Dr. Waleed Ejaz.



Department of Management Sciences

1. **Ms. Noshaba Zulfiqar** successfully defended her PhD Thesis titled **“Implied Volatility by Numerical Approximation Techniques”**, supervised by Professor, Dr. Saqib Gulzar and Co-supervised by Associate Professor,

2. **Ms. Saira Yamin** successfully defended her PhD Thesis titled **“Multiples and Stock Price, New Approach for Relative Valuation”**, supervised by Professor, Dr. Saqib Gulzar and Co-supervised by Associate Professor, Dr. Majid Jamal Khan.



3. **Ms. Uqba Saeed Ahmed** successfully defended her PhD Thesis titled “**The role of Islamic Work Ethics and Spiritual Leadership in Inclusion and Psychological outcomes**”, supervised by Professor, Dr. Samina Nawab and Co-supervised by , Associate Professor, Dr. Khurram Shafi.

Trainings

The National Institute of Banking & Finance (NIBAF), in collaboration with IBA-Centre for Excellence in Islamic Finance (IBA-CEIF), Meezan Bank, and Ihsan Trust, has meticulously designed a five-day "Islamic Finance Certification Program for Business Faculty". The following faculty members of Management Sciences attended the program from October 23-27, 2023.

1. Dr. Khurram Shafi, Tenured Associate Professor,
2. Dr. Majid Jamal, Tenured Associate Professor
3. Dr. Muhammad Yar Khan, Tenured Associate Professor



Professor/HoD Computer Science, Dr. Sheraz Anjum, has successfully completed an online non-credit course titled “Advanced Learning Algorithms” authorized by DeepLearning, AI and Stanford University and offered through Coursera.

Assistant Professor, Dr. Ambreen Shahnaz from the Department of Management Sciences attended a Two - day seminar titled “Building the Workforce for the Future” organized by US Mission at Marriot Hotel Islamabad from November 29-30, 2023.

Dr. Khalid Ibrahim from the Department of Electrical and Computer Engineering attended a 06-days training camp, “Khudi 3.0”, as guest speaker from July 15 to 21, 2023, held at Jamia Tafheem ul Quran, Islamabad. Dr. Khalid delivered many lectures during this training camp on various topics like Patience, Community issues their remedies and the Attributes of good people.

Assistant Professor ,Dr. Danish Farooq and Lecturer Dr. Waqas Rafiq from the Department of Civil Engineering attended the two day training course from July 24 - 25, 2023 on “Road Safety” organized by the National Transport Research Centre, Islamabad.

Workshop on Machine Learning & Artificial Intelligence: The Professional Perspective

The Department of Computer Science on December 7, 2023 orchestrated a workshop on "Machine Learning & Artificial Intelligence: The Professional Perspective," processes involved in generating queries, responses with Chatbot using GPT API?".

The workshop speaker Mr. Ahmed Rasheed, a distinguished Senior Data Scientist hailing from Royal Cyber INC., enlighten the session, the HoD Prof. Dr. Sheraz Anjum, shed light on

the paramount importance of workshops. He graciously presented a souvenir and extended heartfelt gratitude to guest.



7th International Conference on Automation, Control, and Robots



Dr. Zeeshan Kaleem, Associate Professor, E&CE Department participated in the 2023, 7th International Conference on Automation, Control, and Robots from August 04-07, 2023 held in Malaysia. The conference focused on topics related to AI, robotics, and Automation. In the conference he presented the paper titled “RF-NeuralNet: Lightweight Deep Learning Framework for Detecting Rogue Drones from Radio Frequency Signatures”.



Prime Minister's Youth Laptop Distribution Ceremony

A ceremony was held at COMSATS University Islamabad (CUI), Wah Campus on December 20, 2023 as a part of the Prime Minister's Youth Laptop Scheme (PMYLS). Prof. Dr. Muhammad Abid, T.I., Director Campus honored the event by gracing it and personally distributing laptops to the students. Officials from the Higher Education Commission (HEC) of Pakistan and CUI Principal Seat were also presented on the occasion.



Obtained Practical and Professional Learning in Higher Education

Quality education prepares the students for the challenges and empowers them to contribute positively to society. The campus arranged Open House and Job Fair for graduating students to showcase their final year projects and invited industrial and academic representatives to interview them.



5



Gender Equality

Achieve gender equality and empower all women and girls

Young Women The Agent of Change with Quality Education

CUI Wah Campus focuses on providing sustainability to young women, empowering them by giving a platform to access equal opportunities in attaining quality education, knowledge, skills and self-confidence. In semester Spring-2023, 35% from the total are female which were graduated and awarded with the Degrees of PhD, MS and BS in the discipline of Computer Science, Electrical & Computer Engineering, Mechanical Engineering, Civil Engineering, Management Sciences and Mathematics. In undergraduate Programme



six female graduates were honored with the **Campus Gold Medal**, awarded to Ms. Yusra Tahir, Ms. Faria Sajid, Ms. Umm -E- Habiba, **Campus Silver Medal** awarded to Ms. Amna Dilawar, Ms. Samia Sajid, and **Campus Bronze Medal** to Ms. Noor Ul Ain, in recognition of their hard work and achieving excellence in academics.



Training on Gender Equity and Leadership Roles for Women

In-charge, Student Financial Aid Office (SFAO) Ms. Sadia Nawaz, attended the two day workshop on "Gender Equity and Leadership Roles for Women", organized by the USAID funded Merit and Need Based Scholarship program from July 31 – August 1, 2023. The workshop aimed enhances the leadership capacity of women to lead and to grab equal opportunities of leadership for emerging women leaders in the academic sphere.



Conference on Building the Workforce for the Future

Assistant Professor, Dr Ambreen Shahnaz from the Department of Management Sciences attended the conference "Building the Workforce for the Future" on 29-30 Nov. 2023 organized by the Pak-US Alumni Network (PUAN) of the US Mission, held at Marriott, Islamabad.

The event brought together a diverse group of professionals, educators, and alumni who have benefited from various US exchange programs, fostering a platform for dialogue and networking by highlighting PUAN's commitment to strengthening Pak-US relations through educational and professional exchanges, underscoring the importance of international collaboration in addressing global workforce challenges.





Clean Water and Sanitation

Ensure Availability and Sustainable Management of Water and Sanitation for All

Waterwise Summit: Unveiling Solutions through Youth Voices

The UNESCO Chair on Knowledge Systems for Integrated Water Resources Management (IWRM), CUI Wah Campus with the theme to “Respect Water - Respect Life”, organized the “WaterWise Summit: Unveiling Solutions through Youth Voices”, on November 29, 2023. The event addresses and spreads awareness on water is life, saving water, climate change, flooding and disaster causes affecting humanities. The students demonstrated through art work (Posters and Documentaries) and engaged the community to express their vision in debates. The contestants' speeches are very fruitful and helpful in conveying their ideas in favor of saving water, avoiding wastage, disasters faced and its long-term impacts on human life.



The Chief Guest of the event was Ms. Kiran Anwar, Senior Research Officer from Pakistan Council of Research in Water Resources (PCRWR). In her remarks she appreciated the efforts of the students for sharing their visions for a water secure future.

Seminar on Impact of Climate Change on Glacier Melting & Glacial Lake Outburst Floods (GLOFs) – Implications for Mountain Agriculture and Water Security

The seminar was arranged on September 28, 2023 under the platform of UNESCO Water Chair on Knowledge Systems for Integrated Water Resources Management (IWRM) in collaboration with the Department of Civil Engineering. The speaker, Tenured Professor, Dr. Adnan Ahmad Tahir from the Department of Environmental Sciences, CUI, Abbottabad Campus, specialized in the hydrological and hydrodynamic

modeling with a special focus on climate change, land use land cover, snow and glacier dynamics, and hydrological regime using in-situ and remote sensing data. The speaker significantly delivered his research on the climate change impacts on glacier melting, discussing the outburst lakes pattern at Hunza and Karakorum, greenhouse gases causing rapid increase in Hispar, Shispar, and Siachen glacier melting and its implication on mountain agriculture. Rising temperatures disrupt snow melting patterns and the entire water flow cycle damages human lives and briefed measures taken for water security.



One Day Hands on Workshop on Introduction to R

This hands-on workshop held on November 23, 2023, designed to empower the participants with practical skills by creating their familiarity with the RStudio, operations, functions, and manipulation of plots data, combining verbs using pipes and data visualization. The resource person, member UNESCO Chair on Knowledge Systems for IWRM, CUI Wah Campus/Lecturer, Engr. Summera Fahmi Khan shared her knowledge and expertise with the participants. She deliberates by analyzing and predicting weather patterns affecting climate change, unraveling intricate patterns and trends within complex environmental datasets considering Pakistan's environment.



Pakistan Water Week 2023 - themed "Transformative Pathways for Water and Food System in a Climate Resilient Pakistan"

Team members from UNESCO Chair on Knowledge Systems for IWRM and from the Department of Civil Engineering Engr. Sarmad Manzoor and Engr Waleed Tariq, nominated to attend the Pakistan Water Week 2023 jointly organized by the PCRWR and IWMI Pakistan, with a focused on two key events, a three-day International Conference from December 4- 6 2023



followed by a two-day National Workshop from December 7-8, 2023 based on the theme "Transformative Pathways for Water and Food System in a Climate Resilient Pakistan".

Pakistan being highly vulnerable to climate change requires sustainable development, strategic decision making for best utilization of its natural resources. The conference fostered discussions on three thematic areas, including:

- Transformation for sustainable and climate resilient solutions
- Politics, policy, and institutions- good governance and strengthening capacities
- Technologies and innovations- responding to the climate change

National Exhibition December 7 - 8, 2023

The students of CUI Wah Campus under the platform of UNESCO Chair on Knowledge Systems for Integrated Water Resources Management (IWRM), CUI Wah Campus participated in the National Workshop organized by the Pakistan Council of Research in Water Resources (PCRWR) in the activities during Pakistan Water Week - 2023 with the focus on the future of "Transformative Approaches".

A total of fifteen students participated in the Poster Competition and seven Short Documentaries were presented by CUI Wah Campus students.

Ms. Nasira Zahid from Department of Computer Science, CUI Wah Campus got Second Position in the Poster Competition among the 50 posters made by other universities and college students. The students highlight the importance of water and related emerging issues in a graphical form to create awareness among the audience.



Meeting of Pakistan National Committee on Intergovernmental Hydrological Programme (PNC-IHP) of UNESCO

To address the IHP IX Strategic, Sustainable Plan of UNESCO the Director Campus/ UNESCO Chair on Knowledge Systems for (IWRM) attended the meeting on September 5, 2023, organized by the **Pakistan National Committee (PNC)** at PCRWR, Islamabad and delivered a presentation on the operational implementation plan of UNESCO Chair on Knowledge Systems for (IWRM), CUI Wah Campus activities with respect to IHP phase IX with future Strategic Plan.



1st Meeting of the Water, Environment & Agriculture Societies Consortium under Water Resource Accountability (WRAP)-Climate resilient Solutions for Improving Water Governance (CRS-IWaG) was organized on September 26, 2023 by the IWMI, Lahore, Pakistan attended by Engr. Sarmad Manzoor delivered a presentation on the operational implementation plan of UNESCO Chair on Knowledge Systems for (IWRM), CUI Wah Campus activities with respect to Water Resource Accountability (WRAP) and Climate resilient Solutions for Improving Water Governance.



8



Decent Work and Economic Growth

Promote Sustained, Inclusive and Sustainable Economic Growth, Full and Productive

Strategic Growth



The Director Campus Prof. Dr. Muhammad Abid, T.I, on the invitation of **Harbin Engineering University (HEU)** China visited China from August 30 - September 4, 2023 and attended the celebrations of Harbin Engineering University's 70th Anniversary and President Forum. On September 1, 2023 to discuss the future development of global higher education the Director Campus actively participated in the University President Forum, theme of **"The Mission and Responsibility of Future Universities"**. He presented COMSATS University Islamabad (CUI) as Partner University He deliberated CUI's role in academics, scientific and educational scope in the field of Marine Engineering and Sciences in Pakistan. The forum was attended by the presidents and academicians from nearly 40 universities in 9 countries including China, UK, Sweden, Portugal, Brazil, Peru, Thailand and Pakistan.

Career Opportunities Open for All

COMSATS University Islamabad (CUI), Wah Campus organized an Open House and Job Fair on December 28, 2023 for the graduating students of Fall-2023 from the Department of Management Sciences (MS) and Computer Science (CS). Graduating students showcased their final year projects (FYPs). The participating 60 plus industries keenly observed the talent of students exhibited in 115 projects (108 from CS and 7 from MS departments). The companies conducted detailed interviews of all graduating students and 74 (59 from CS and 15 from MS) students were offered jobs and remaining were offered internship positions.

The event was inaugurated by Mr Ammar Jaffri former Additional Director General, Federal Investigation Agency (FIA) and CEO of Digital Pakistan. The Chief Guest highlighted the importance of updating the curriculum in accordance with the industry needs. The Campus Director, Prof. Dr. Muhammad Abid, T.,I. welcomed the participating industry at CUI Wah Campus. He emphasized the collaborative synergy between industry and academia, highlighting the mutual benefits that accrue to students through real-world experience and practical training.



Mr. Muhammad Kamal Yamin, alumni from the Management Sciences Department and Mr. Muhammad Saeed Butt, Senior Manager BMW Germany, Alumni from the Computer Science Department shared their success stories, experience, and the role of CUI Wah Campus in their success.



In the closing session, Mr. Asim Hamza Gillani, Director Projects, Pakistan Software Export Board (PSEB) was the Chief Guest. He highlighted the need for an Industry-Academia partnership which is a dire need of the era. The Chief Guest also shared details of internship opportunities provided by PSEB. The Chief Guest of the closing ceremony and Director Campus congratulated the winners and runner-up teams of the FYPs and distributed prize money and certificates to the winners and runner-ups of final-year projects.

Collaborations for Sustainability

To strengthen the industry – academia linkages, the Department of Civil Engineering invited Dr. Naveed Anwar, a Senior Advisor to the Asian Institute of Technology (AIT) President and CEO and founder of Computer and Structures, Inc. (CSI), Bangkok, Thailand to establish mutual collaboration for the technical capacity

Dr. Tahir Mehmood, Head of the Civil Engineering Department, engaged in meaningful discussions with Dr. Anwar with emphasis on the exchange programs and future collaboration via mutual training programs.

At the end Dr. Anwar graciously acknowledged and appreciated the outstanding efforts of Prof. Dr. Muhammad Abid, T.I., Director Campus, Dr. Shehzad A. Malik, Dean, Faculty of Engineering and Dr. Tahir Mehmood, HoD Civil Engineering to establish mutually beneficial relationship in future.



BIZ BUZZ" Business-Idea Competition

The Department of Management Sciences organized the event "BIZ BUZZ" Business-Idea Competition on November 30, 2023, aimed to provide a platform for business graduates to showcase their talent. The competition encouraged participants to present new, innovative, and challenging business ideas for societal improvement. This marked the 8 episode of the competition, featuring 15 teams that passionately competed and presented their inventive concepts.



A One - Day Career Counseling Workshop - The Launch Pad

To prepare and equip the final year students with essential skills to enter professional lives after graduation. A large number of students from Computer Science and Management Sciences attended the Workshop spanning a diverse set of sessions on writing CV/Cover Letter, Professional Dress, Office Manners, and Job Hunting Tips. Team Building activities and Mock Interviews were the main feature of the workshop. It spanned various sessions and activities delivered by invited Alumni and Guests.



The workshop was designed to prepare the students not only for a smooth transition from their student lives into their professional lives but also to stay afloat and successful in the workplace.



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Industry, Innovation and Infrastructure

Build Resilient Infrastructure, Promote inclusive and sustainable Industrialization and Foster

Inauguration of New Academic Block –1

The Honorable Rector, COMSATS University Islamabad (CUI), Prof. Dr. Sajid Qamar, inaugurated the new Academic Block of the Electrical and Computer Engineering Department on November 17, 2023. The Dean, Faculty of Engineering, Dean, Faculty of Business Administration, Director, CUI Attock Campus, Principal Officers, Head of Departments and Section, Senior faculty members, and Contractors were also present on the occasion. The worthy Rector along with Principal Officers inspected the newly renovated building designed with state-of-the-art infrastructure and the latest facilities for the Department of Electrical & Computer Engineering and Mathematics.

The Director Campus, Prof. Dr. Muhammad Abid, (T.I) thanked the Rector CUI and other guests for their participation in this event.



Ground Breaking Ceremony for the Construction of the Transport Office, Driver Room, and Associate facilities at CUI Wah Campus



The ground breaking ceremony for the construction of the Transport Office, Driver's Room and associated facilities was held on November 29, 2023, in the bus parking area at CUI Wah Campus. The Director Campus, Prof. Dr. Muhammad Abid, T.I., honored the pioneer driver, Sardar Pervaiz Iqbal who symbolically broke the ground by digging with a shovel.

This ground breaking ceremony serves as a symbolic representation of the Campus's infrastructural advancement, aiming to enhance facilities for the thriving CUI Wah community.



Infrastructure Development

A delegation from COMSATS University Islamabad (CUI) Wah Campus visited FAST National University of Computer and Emerging Sciences, Islamabad Campus

The delegation comprising on Director Campus, Prof.Dr. Muhammad Abid,T.I., Prof. Dr. Samina Nawab, HoD Mechanical Engineering, Dr. Atta ur Rehman, Tenured Prof. Dr. Muhammad Iqbal, Additional Registrar, Dr. Jawwad Ahmad and Network Administrator, Mr. Bilal Masood visited FAST Islamabad and have meeting with the Dr. Waseem Shahzad, Director of NUCES-FAST Islamabad Campus on December 05, 2023. The delegation had a campus tour and appreciated the infrastructure, facilities and services provided.



Visited Capital University of Science and Technology (CUST)

The delegation of CUI Wah Campus led by Director Campus, Prof.Dr. Muhammad Abid,T.I., accompanied by Prof. Dr. Samina Nawab, HoD Mechanical Engineering, Dr. Atta ur Rehman, Tenured Prof. Dr. Muhammad Iqbal, Dr. Niaz Ahmad, Additional Registrar, Dr. Jawwad Ahmad and Network Administrator, Mr. Bilal Masood visited Capital University of Science and Technology (CUST) , on December 05, 2023. The team had a meeting with the Vice Chancellor, Prof. Dr. Muhammad Mansoor Ahmed and Professor Dr. Nayyer Masood from the Department of Computer Science. The delegation also visited CUST Campus and expressed keen interest in infrastructure, facilities and services provided to its students and faculty.



Construction of New Academic Block-1



On the occasion the honorable Rector CUI, Prof. Dr. Sajid Qamar, Director Campus, Prof. Dr. Muhammad Abid,T.I., members CUI Syndicate, Department / Section Heads, Faculty Members, inspected the construction site area of New Academic Block-1 (125,000 sqft).



Workplaces Exposure



Industrial Visit - Heavy Industries Taxila (HIT)



Industrial Visit – NEWTECH, Islamabad



Industrial Visit - Amfah Soft (the legal business name is Broaddigix Pvt.



Industrial visit to weRplay, (a game-based software Development Company)



Survey Camp, Civil Engineering Department





Climate Action

Take urgent action to combat climate change and its impacts

Workshop on Emerging Trends & Technologies: Carbon Capture and Storage, Climate Change and Net Zero

A workshop on Emerging Trends & Technologies: Carbon Capture and Storage, Climate Change and Net Zero was jointly organized by COMSATS University Islamabad (CUI)- Pakistan, on August 21, 2023 at CUI, Wah Campus. Cranfield University, UK, and several institutions from Pakistan including NUST, GIKI, NEO, University of Karachi, and Okara University have joined hands as partner institutions with the CUI- Wah Campus for this event. The Workshop was funded by the British Council, Islamabad under Pak-UK Education Gateway Mobility Partnership for Faculty.

Dr Adnan Syed, Lecturer, Surface Engineering Precision Centre Cranfield University, UK presented the opening remarks. Mr. Mubbashir Sheikh Higher Education Programme Manager, British Council Pakistan presented the mobility program objectives and aims of establishing higher education linkages between Pakistan and UK to explore cutting-edge research and contributing towards the attainment of the Sustainable Development Goals 13 and 14. Dr. Nasir Ahmad team lead from NUST, Pakistan also highlighted the importance of this mobility grant.



The Executive Director, COMSATS, and Ambassador, Dr. Mohammad Nafees Zakaria was the chief guest at the inaugural session of the workshop. He expressed that carbon emission is becoming more dangerous for Pakistan as this is a powerful source of climate change and disasters in the region. In his remarks, the Rector CUI, Prof. Dr. Sajid Qamar, extended his gratitude for organizing this workshop at CUI Wah Campus and organizing it successfully to strengthen the scientific collaboration between the British Council, Higher Education Institutions of Pakistan and UK.

Invited Talk



The Director Campus / UNESCO Chair on Knowledge Systems for Integrated Water Resource Management (IWRM), Prof. Dr. Muhammad Abid, T.I., delivered his invited talk on "CO₂ Emissions from Pakistan Marine Industry: How Can Marine Industry be Greener ?" along with the Defence & Maritime Analyst, Cmdr (R) Syed Muhammad Obaidullah. He deliberated on the challenges and way forward for the

CO₂ for Pakistan Maritime Industry on coastal area's of Karachi Port, Port Qasim and Gawadar. He expressed that since 2016 Pakistan Navy has annually planted one million mangroves to mitigate the footprints of carbon. Pakistan's 1050km of coastline industry which needs shaping with international cooperation in the maritime sector for a brighter future.



Seminar on Green Composite Materials: A Sustainable Alternative to Plastic for a Greener Future

The Department of Mechanical Engineering (DME) and the student chapter of the American Society of Mechanical Engineers (ASME) on December 14, 2023, jointly organized a seminar on "Green Composite Materials: A Sustainable Alternative to Plastic for a Greener Future"

The event was a part of CPD licensed under the Pakistan Engineering Council. The resource persons were Dr. Atta ur Rehman Shah, Associate Professor/ HoD DME at CUI Wah Campus and Prof. Dr. Abdul Shakoor from the University of Engineering and Technology Peshawar.

Dr. Atta ur Rehman provided a comprehensive insight on green composite materials as environment friendly alternatives to synthetic plastics. He discussed the significance of their applications and the growing demand,



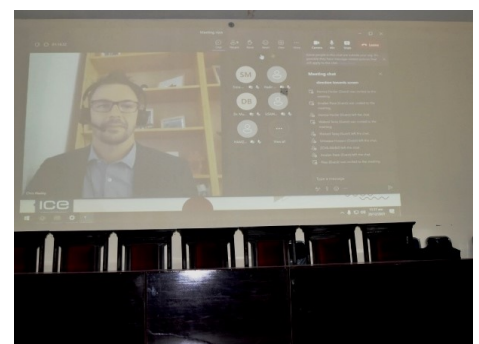
highlighting the sustainable role of biodegradable substances in industrial production.

Prof. Dr. Abdul Shakoor shared his innovative research on the development of biopolymer composites for structural applications, presenting experimental findings on the thermal, mechanical, and viscoelastic analyses of PLA-wood and PLA-talc composites.



Hybrid Mode -Seminar on Introduction to Floodplain Modelling

To share the most recent basic statistics about floodplain modelling, the data requirements, and its potential use in the context of urban flood management in Pakistan, the UNESCO Water Chair on Knowledge Systems for Integrated Water Resources Management (IWRM) in cooperation with the Department of Civil Engineering organized a seminar on Hybrid Mode on December 20, 2023, titled "Introduction to Floodplain Modelling". The speaker, Principal Water Consultant, Mr. Habib Rahman delivered the challenges with audience in urban flood modelling and management in regions of Pakistan and Chris Huxley, joined online, leading expert in floodplain modelling and the author of TUFLOW software having extensive experience in undertaking presented his flood studies of complex nature.



At the end of seminar, Chris also answered the questions of participants joined online and student's from audience related to difficulties faced in TUFLOW software modelling. The faculty members from the CUI Wah Campus, University of Wah, HITEC University Taxila, UET Taxila, professional from NESPAK and graduate/ undergraduate students from these universities attended the seminar.

Prof. Dr. Muhammad Abid, T.I., the UNESCO Chair on Knowledge Systems for (IWRM), in his remarks stressed the importance of creating capacity in the adaption of evolving technologies in floodplain management and mitigation strategies. The Chair presented the CUI Wah Campus souvenir to the guest speaker with vote of thanks.





Life below Water

Conserve and sustainably use the Ocean, Seas and Marine Resources for Sustainable Development

Fifth China Pakistan Marine Information Workshop (CPMI 2023) at Sanya, China

The Director Campus Prof. Dr. Muhammad Abid, T.I., along with Assistant Professor, Dr. Barkat Ullah on the invitation of Harbin Engineering University (HEU) China attended the 5th China - Pakistan Marine Information Workshop (CPMI 2023) at Sanya, China, held from December 8 – 11, 2023. Prof. Dr. Muhammad Abid delivered keynote on “A Framework Approach to Strengthen Higher Education in the Field of Marine Information and Engineering” and Dr. Barkatullah delivered his talk on “Dynamic Modelling and Analysis of Steady State Spiraling Motion Control of an Underwater Glider”.

A detailed presentation regarding CUI and its way forward for continued joint research related to Marine Engineering and Sciences was given by Prof. M. Abid in the Round Table Discussion.

During CPMI, several MoUs were also signed by HEU with NUCES, University of Karachi, NIMA. The workshop was very fruitful in exploring and strengthening the collaboration between HEU and Pakistani institutions, researchers in the field of Marine Information and Technology.



In recognition to his outstanding contribution for signing MoU with HEU, as a founding member of CPMI and organizing first four consecutive CPMI jointly with HEU, hosting HEU students under students exchange program at CUI Wah Campus for two semesters, development of MS curriculum on Underwater Acoustic Communication, Prof. M. Abid was also awarded “Special Contribution Award” by HEU.



Water Informatics and Communication Technical Session offered in 20th International Conference on Frontiers of Information Technology (December 11– 12, 2023) at Islamabad, Pakistan

Water Informatics and Communication Technical Session was held on December 11, 2023 during 20th International Conference on Frontiers of Information Technology at COMSTECH Secretariat, Islamabad, Pakistan. This session was chaired by Assistant Professor, Dr. Shahzad Saleem from FAST, Islamabad. Three invited talks were presented

1. Key Technologies and Applications of Underwater Acoustic Communication and Networks delivered online by Liu Songzuo, College of Underwater Acoustic Engineering, HEU, China.

2. A Fully Connected Neural Network Driven UWA Channel Estimation for Reliable Communication by Muhammad Adil, Liu Songzuo, Suleman Mazhar, Mansoor Jan, Asfand Yar Khan and Muhammad Bilal.

3. Machine Learning – based Multi-Path Reliable and Energy -efficient Routine Protocol for Underwater Wireless Sensor Networks by Zahid Ullah Khan, Muhammad Aman, Wazir ur Rehman, Faran Khan, Tooba Jamil and Rahat Hashim.



17



Partnerships for the Goals

Strengthen the Means of Implementation and Revitalize the Global Partnership for Sustainable Development

Team Attended the Training and Project Meeting at University of Lorraine, France

The SAFE-Rural-Health program is Erasmus + funded Project and under its umbrella Faculty team from CUI Wah Campus consisting of Prof. Dr. Ehsan Ullah Munir, Dr. Tassawar Iqbal, Dr. Saima Gulzar Ahmed, and Dr. Kashif Ayyub, and SAFE-RH Student team consisting of Mr. Ahmad Hassan (MS-CS), Muhammad Ali Arif (BS-CS) from Department of Computer Science, CUI Wah Campus attended Training and Project Meeting at University of Lorraine, France from November 11-20, 2023. Prof. Dr. Ehsan Ullah Munir presented progress of CUI Wah Campus team on respective Pilot. He further highlighted current achievements, challenges and future plans about Maternal and Fetus pilot of SAFE-RH.

Dr. Saima Gulzar Ahmed along with students demonstrated Belt for Fetus Health Monitoring developed by CUI Wah Campus team.

Dr. Kashif Ayyub presented Mobile Application developed for SAFE-RH Project and Dr. Tassawar Iqbal presented progress with respect to deliverables



and milestones mitigated. All the partners appreciated the achievements of CUI Wah Campus Team.

Academic Collaboration with University of Wah

A Memorandum of Understanding (MoU) was signed between COMSATS University Islamabad (CUI), Wah Campus and the University of Wah (UoW) on July 6, 2023. The MoU aims to strengthen academic linkages, research activities, sharing of resources, and participation in workshops, webinars and seminars to achieve academic improvement.

The MoU Signing Ceremony was presided over by the Director CUI, Wah Campus, Prof. Dr. Muhammad Abid, T.I., and Vice Chancellor UoW, Prof. Dr. Jameel Un Nabi. Following the signing of MoU, keynote speeches were delivered by the heads of both institutions.



Potential Collaborative Research Opportunities

A delegation comprising faculty members and researchers from BZU Department of Mathematics visited CUI Wah Campus on November 29, 2023, to explore potential collaborative research opportunities with the Department of Mechanical Engineering and Mathematics at CUI Wah Campus. Dr. Muhammad Rafiq, HoD Mathematics, along with Dr. S. M. Jawwad Riaz and Dr. Barkat Ullah from the Mechanical Engineering Department warmly received the guests.

The areas of interest identified during the visit was encompassed engine performance analysis, numerical modeling, and the application of Hydraulic Dynamometer.

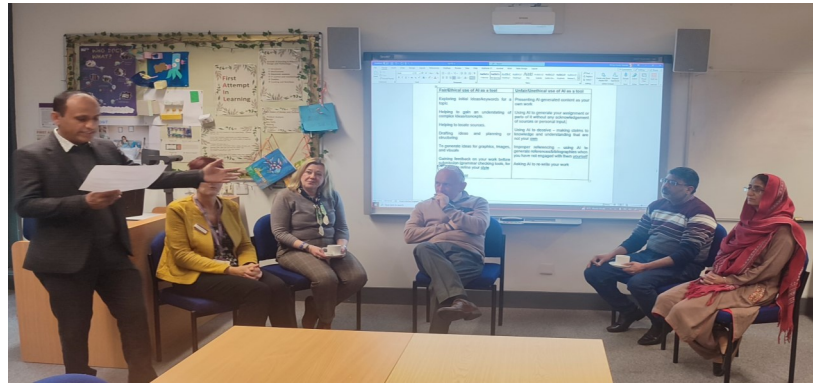


International Colloquium at Edge Hill University, United Kingdom (UK)



The team led by the Associate Professor, Dr. M. Afzal, consisting on Associate Professor, Dr. Mussarat Yasmin and Assistant Professor Dr. M. Maaz Rehan, visited Edge Hill University, UK from November 19 – 27, 2023. Dr. M. Maaz Rehan delivered the talk on “Blockchain-based Zero Trust Access Control for Smart City IoT Devices”.

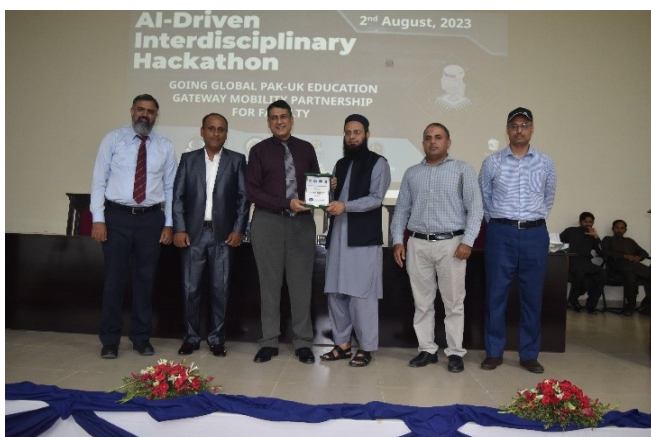
Dr. University. Mark Liptrott hosted the panel discussion with panellists on the “Impact of AI in education”. The panellists were Ms. Shirley, Dr. Andrea, Dr. Muhammad Khalil Afzal, and Dr Musarrat Yasmin. The discussion centred on the question of whether AI tools are beneficial for learning and teacher’s instructional practices.



AI-Driven Interdisciplinary Hackathon - 2023 Pak-UK Education Gateway Mobility Partnership program

The AI-Driven Interdisciplinary Hackathon 2023 took place on August 2, 2023, as part of the Going Global Pak-UK Education Gateway Mobility Partnership program, funded by the British Council and the Higher Education Commission of Pakistan. This collaborative event was jointly hosted by CUI, Wah Campus and the UoW. The overarching aim of this national hackathon was to foster the development of three exemplary prototypes of AI-driven innovations, with a specific focus on addressing the social needs of marginalized communities, developmental challenges, socio-economic health indicators, green energy solutions, and smart agricultural practices.

Prof. Dr. Jameel-Un Nabi, the VC, University of Wah, was the Chief Guest of the opening session and inaugurated the event. He enthusiastically embraced the limitless potential of AI as a catalyst for fostering a more inclusive, sustainable, and prosperous global panorama. Dr. Haider Abbas, the Director General of the National Cyber Emergency Response Team (National CERT), Government of Pakistan, was the Chief Guest of closing ceremony talked on the growing importance of cyber security in the days to come.



This exceptional creation claimed the first prize, securing a cash award of Rs. 100,000/-. The projects "Agro AI" and "Remote Health Sensing," ingeniously developed by students from CUI Wah Campus, clinched the second position, earning cash prizes of Rs. 75,000 each. The innovative "Ababeel," an Agricultural Drone, conceived by the students of CUI, Islamabad Campus, the third position, secured a cash prize of Rs. 50,000 of Bahria University Islamabad project name "IntelliHealth: AI Empowering Doctors, Toward Better Patient Diagnostics and Care".



Pak UK Education Gateway Mobility Partnership for Faculty Program Visit

The Director Campus Prof. Dr. Muhammad Abid, T.I., Associate Professor/Chairperson Civil Engineering Dr. Tahir Ali Akbar and Assistant Professor, Dr. Muhammad Shoaib Naseem from COMSATS University Islamabad along with faculty from NUST, GIKI, NED and KU visited Cranfield University from September 25-29, 2023 under Pak UK Education Gateway Mobility Partnership for faculty funded by the British Council and Higher Education Commission of Pakistan.



This visit contributed to Pakistan's journey towards acceptance of UK qualifications and vice versa. It was an extremely useful trip, and faculty from Pakistani universities attended numerous training sessions and met eminent faculty from Cranfield University. The visit of Pakistani faculty to the UK provided an opportunity to learn new and advanced equipment and research techniques from the well-established laboratories and departments of Cranfield universities. The faculty also learned from the very high-quality research work that is being accomplished at Cranfield University with the collaboration of industries. This project provided a platform to understand the values of higher education in the UK and Pakistan. Learned about the student centered teaching approach, module development and research supervision style during the training sessions which were organized by the Cranfield University, UK. The delegation encouraged future exchange and collaboration between COMSATS University Islamabad Pakistan and the Cranfield University regarding student and faculty exchange, joint research collaborations, joint MS degree and joint supervision of research students. During the visits souvenirs were also exchanged with top management of Cranfield University.





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G.T Road Wah Cantt, Pakistan

Phone: +92-51-9314382-3, 9314482-3
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<https://cuiwah.edu.pk/>



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